

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: P159561

Luminaire Tested: **VST-E06-LED-E-U-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159561
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E06-LED-E-U-T3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18829.2 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.5
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

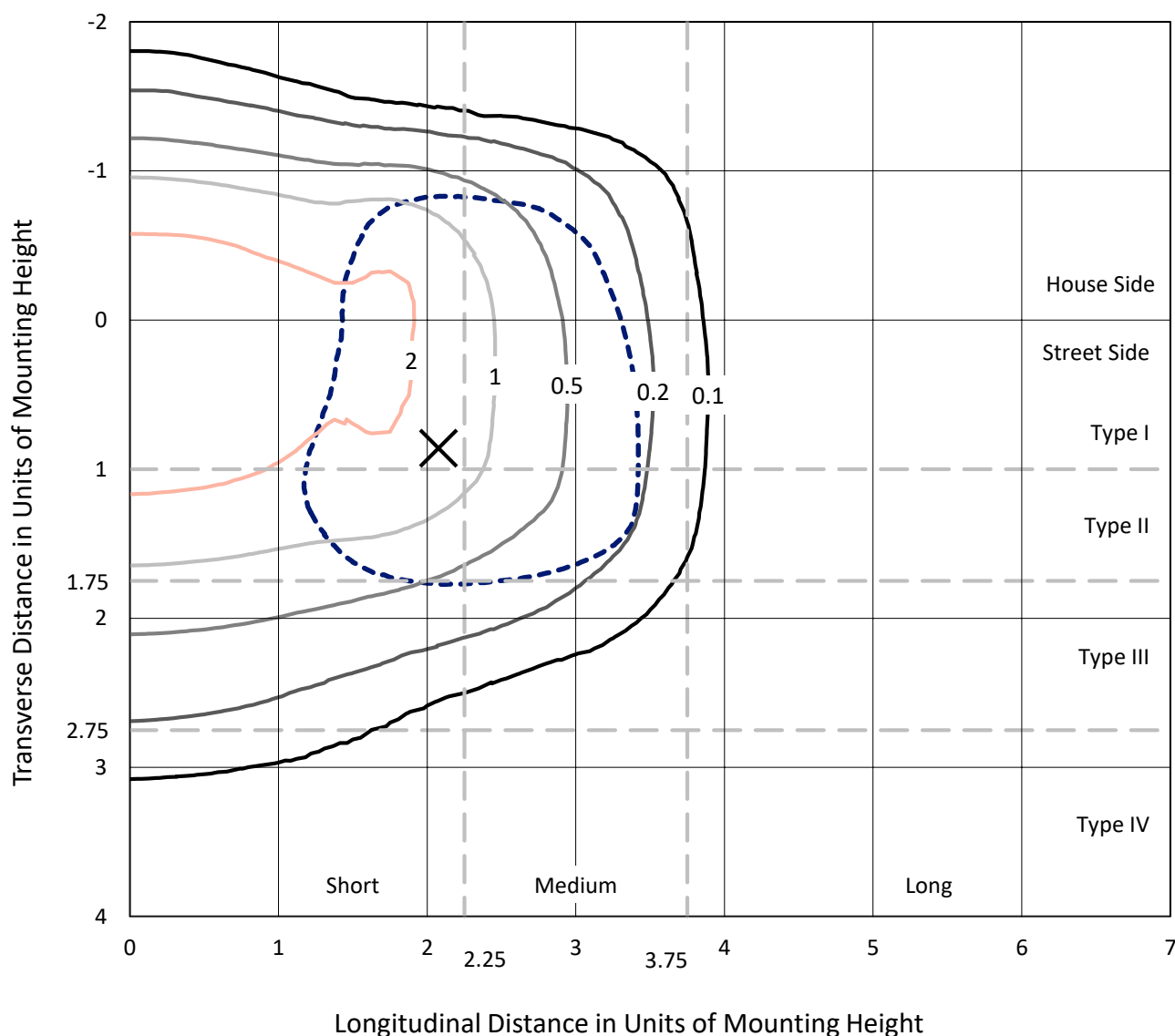


REPORT NUMBER: P159561

CATALOG NUMBER: VST-E06-LED-E-U-T3-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

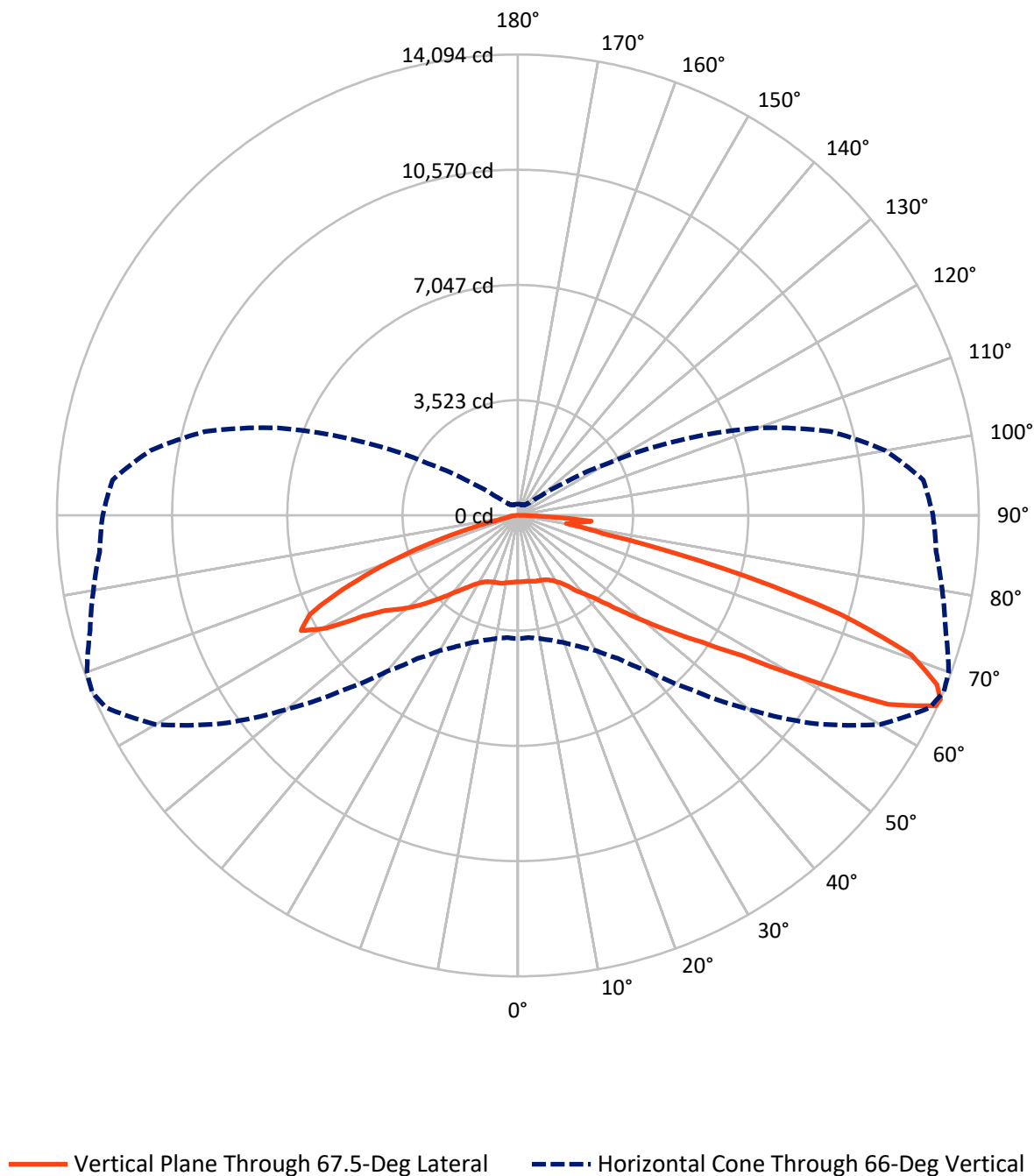


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P159561

CATALOG NUMBER: VST-E06-LED-E-U-T3-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P159561

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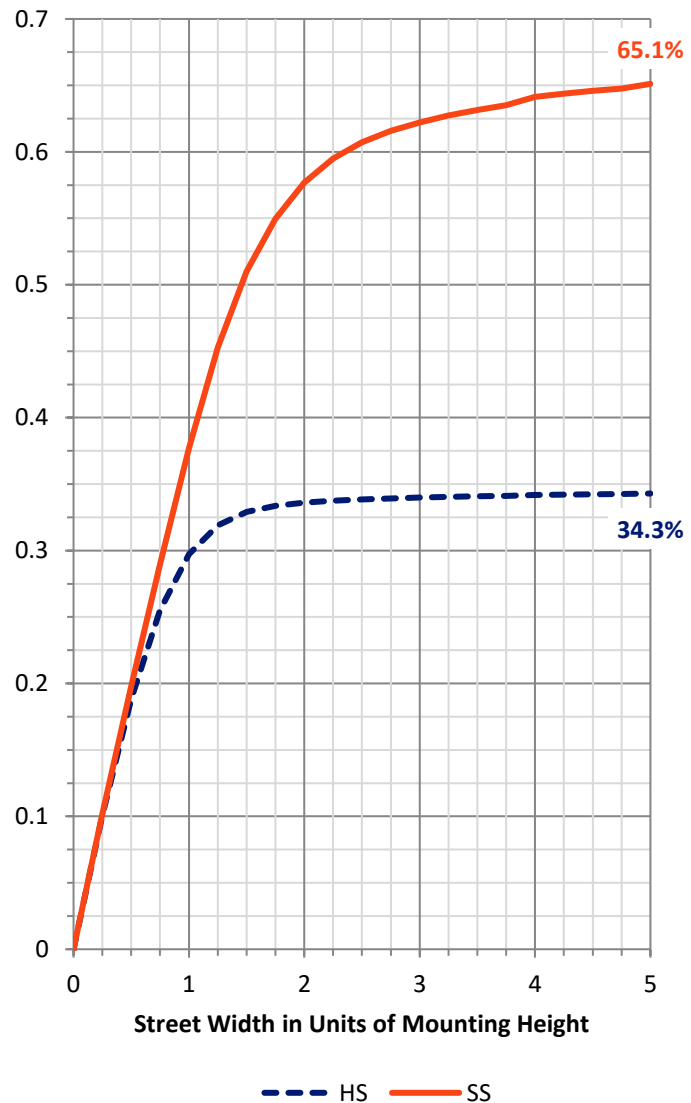
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6515.7	0.0	6515.7
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	12313.5	0.0	12313.5
	% Fixture	65.4	0.0	65.4
Total	Lumens	18829.2	0.0	18829.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	1.0
10°-20°	577.3	3.1
20°-30°	992.4	5.3
30°-40°	1603.9	8.5
40°-50°	2658.0	14.1
50°-60°	4171.5	22.2
60°-70°	5703.3	30.3
70°-80°	2508.0	13.3
80°-90°	419.8	2.2
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°	18829.2	100.0
0°-180°	18829.2	100.0

Coefficient of Utilization



REPORT NUMBER: P159561

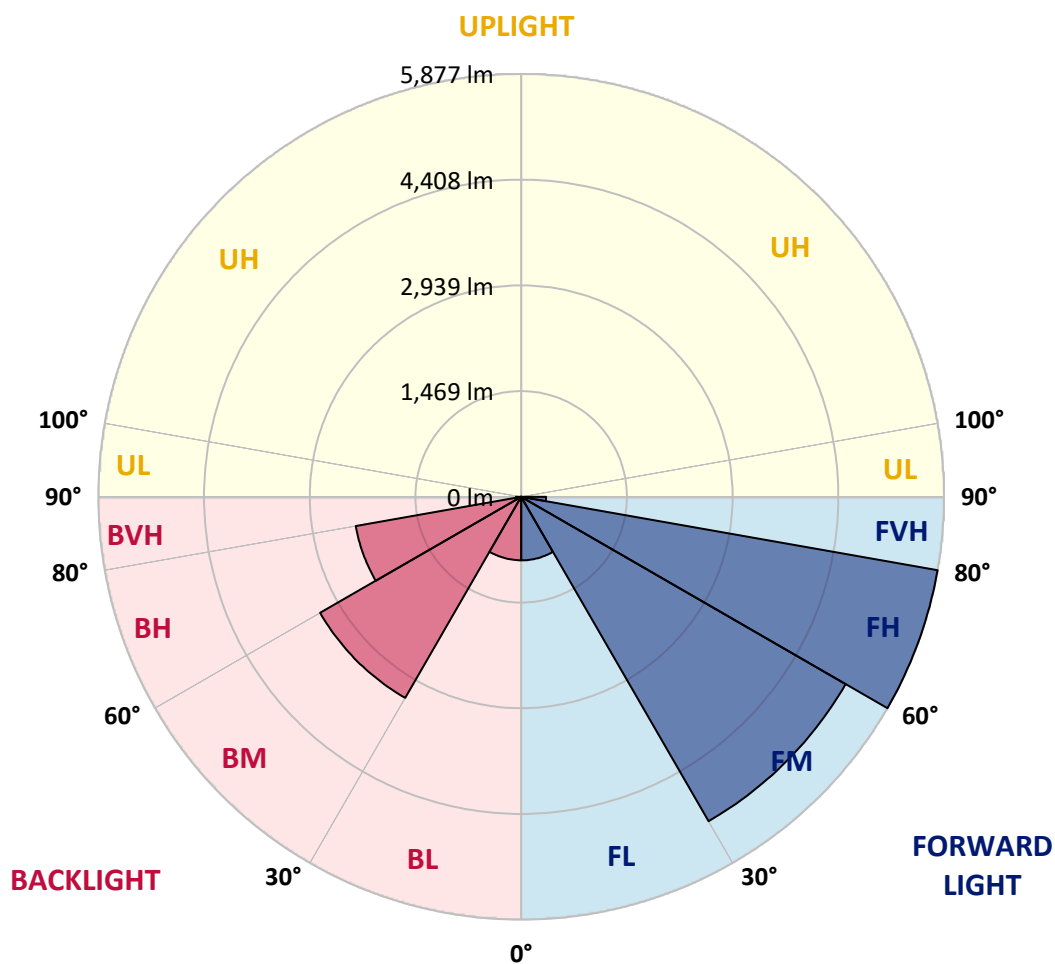
CATALOG NUMBER: VST-E06-LED-E-U-T3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	883.3	4.7			
FM	(30°-60°)	5206.8	27.7			
FH	(60°-80°)	5877.0	31.2			G3/7500
FVH	(80°-90°)	346.4	1.8			G3/500
BL	(0°-30°)	881.4	4.7	B2/1000		
BM	(30°-60°)	3226.6	17.1	B3/5000		
BH	(60°-80°)	2334.3	12.4	B3/2500		G3/2500
BVH	(80°-90°)	73.4	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 II Short





REPORT NUMBER: P159561

CATALOG NUMBER: VST-E06-LED-E-U-T3-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7
2.5°	2028.0	2028.0	2029.2	2028.0	2028.0	2026.8	2031.7	2031.7	2031.7	2030.5	2034.2
5°	2023.1	2023.1	2024.3	2024.3	2025.5	2024.3	2028.0	2029.2	2029.2	2029.2	2032.9
7.5°	2010.8	2014.5	2012.0	2013.2	2014.5	2018.1	2023.1	2025.5	2028.0	2031.7	2032.9
10°	1984.9	1991.1	1989.8	1993.5	1994.7	2005.8	2009.5	2014.5	2023.1	2028.0	2031.7
12.5°	1949.2	1952.9	1954.1	1959.0	1964.0	1977.5	1987.4	1996.0	2008.3	2020.6	2032.9
15°	1920.9	1923.3	1923.3	1928.3	1935.6	1948.0	1960.3	1975.0	1993.5	2014.5	2034.2
17.5°	1929.5	1935.6	1930.7	1929.5	1932.0	1939.3	1950.4	1962.7	1984.9	2008.3	2031.7
20°	1986.1	1987.4	1984.9	1978.7	1973.8	1975.0	1975.0	1977.5	1991.1	2009.5	2028.0
22.5°	2032.9	2037.8	2036.6	2037.8	2036.6	2041.5	2039.1	2034.2	2029.2	2030.5	2039.1
25°	2073.6	2078.5	2078.5	2082.2	2088.3	2098.2	2105.6	2104.3	2096.9	2087.1	2083.4
27.5°	2140.0	2140.0	2140.0	2143.7	2152.4	2164.7	2177.0	2184.4	2190.5	2180.7	2159.7
30°	2244.7	2245.9	2242.2	2243.5	2249.6	2265.6	2280.4	2291.5	2303.8	2302.6	2275.5
32.5°	2359.2	2364.1	2362.9	2367.8	2376.5	2391.2	2407.2	2424.5	2440.5	2450.3	2433.1
35°	2507.0	2511.9	2513.1	2520.5	2530.4	2552.5	2574.7	2596.9	2614.1	2621.5	2617.8
37.5°	2749.6	2750.8	2745.9	2734.8	2738.5	2755.7	2781.6	2817.3	2828.4	2835.7	2853.0
40°	3112.8	3109.1	3089.4	3079.5	3073.4	3080.8	3075.9	3104.2	3130.0	3131.3	3130.0
42.5°	3553.6	3542.5	3524.1	3521.6	3519.1	3516.7	3503.1	3504.4	3527.8	3533.9	3526.5
45°	3992.0	3978.4	3964.9	3977.2	3962.4	4000.6	4011.7	4041.2	4044.9	4057.2	4038.8
47.5°	4351.5	4352.7	4352.7	4370.0	4399.5	4472.2	4537.4	4594.1	4615.0	4644.6	4648.3
50°	4623.6	4631.0	4654.4	4709.8	4772.6	4894.5	5004.1	5106.3	5198.7	5233.1	5324.3
52.5°	4782.5	4802.2	4851.4	4943.8	5055.8	5213.4	5385.8	5559.4	5719.5	5855.0	5963.3
55°	4754.2	4768.9	4855.1	4999.2	5174.0	5385.8	5627.2	5878.4	6128.3	6357.3	6534.6
57.5°	4571.9	4581.8	4668.0	4830.5	5048.4	5332.9	5674.0	6047.0	6398.0	6767.4	7070.3
60°	4333.0	4347.8	4427.9	4555.9	4783.7	5086.6	5481.9	5987.9	6548.2	7129.4	7695.8
62.5°	4180.4	4176.7	4246.8	4361.4	4532.5	4807.1	5187.6	5787.2	6563.0	7545.6	8664.8
65°	3926.7	3915.6	3988.3	4118.8	4304.7	4570.7	4931.5	5507.7	6407.8	7703.2	9290.4
66°	3769.1	3746.9	3819.6	3951.3	4137.3	4420.5	4766.5	5335.3	6219.4	7549.3	9223.9
67.5°	3493.3	3482.2	3516.7	3620.1	3758.0	4024.0	4384.8	4957.3	5773.7	7086.3	8736.3
70°	2839.4	2814.8	2841.9	2888.7	2941.6	3006.9	3228.5	3682.9	4373.7	5645.6	7038.3
72.5°	1934.4	1922.1	1972.6	2044.0	2185.6	2252.1	2339.5	2413.4	2657.2	3558.5	4909.3
75°	1471.4	1478.8	1542.9	1661.1	1843.3	2040.3	2232.4	2302.6	2221.3	2151.1	2786.5
77.5°	825.0	868.1	945.7	1095.9	1289.2	1567.5	1902.4	2271.8	2456.5	2410.9	2254.6
80°	339.8	333.7	371.9	454.4	520.9	748.6	1145.1	1608.1	2127.7	2456.5	2404.8
82.5°	94.8	97.3	125.6	161.3	208.1	264.7	413.7	664.9	1083.6	1685.7	2206.5
85°	29.6	29.6	40.6	60.3	71.4	82.5	104.7	172.4	294.3	587.3	1190.7
87.5°	6.2	6.2	8.6	17.2	18.5	18.5	23.4	32.0	28.3	25.9	115.7
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: P159561

CATALOG NUMBER: VST-E06-LED-E-U-T3-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7
2.5°	2030.5	2028.0	2029.2	2030.5	2029.2	2029.2	2028.0	2026.8	2028.0	2028.0	2031.7
5°	2029.2	2028.0	2029.2	2029.2	2029.2	2030.5	2030.5	2030.5	2034.2	2034.2	2040.3
7.5°	2031.7	2031.7	2034.2	2034.2	2034.2	2034.2	2035.4	2037.8	2044.0	2042.8	2053.9
10°	2036.6	2039.1	2045.2	2046.5	2046.5	2050.2	2052.6	2057.5	2063.7	2066.2	2076.0
12.5°	2042.8	2055.1	2066.2	2068.6	2072.3	2078.5	2082.2	2084.6	2095.7	2099.4	2111.7
15°	2050.2	2067.4	2080.9	2085.9	2090.8	2098.2	2103.1	2106.8	2116.7	2121.6	2136.4
17.5°	2051.4	2071.1	2087.1	2094.5	2100.6	2109.3	2116.7	2124.0	2135.1	2142.5	2157.3
20°	2050.2	2076.0	2100.6	2110.5	2116.7	2132.7	2143.7	2153.6	2167.1	2174.5	2189.3
22.5°	2063.7	2093.3	2126.5	2138.8	2148.7	2170.8	2185.6	2201.6	2218.9	2223.8	2234.9
25°	2095.7	2126.5	2168.4	2185.6	2202.8	2232.4	2253.3	2276.7	2294.0	2296.4	2300.1
27.5°	2149.9	2178.2	2228.7	2254.6	2282.9	2324.7	2355.5	2378.9	2403.5	2403.5	2401.1
30°	2259.5	2265.6	2318.6	2351.8	2393.7	2455.3	2500.8	2526.7	2545.2	2545.2	2524.2
32.5°	2401.1	2393.7	2441.7	2477.4	2535.3	2621.5	2683.1	2702.8	2722.5	2716.3	2680.6
35°	2605.5	2584.6	2611.6	2665.8	2731.1	2849.3	2913.3	2957.6	2970.0	2952.7	2896.1
37.5°	2862.8	2860.4	2873.9	2934.3	3006.9	3159.6	3224.8	3253.2	3243.3	3212.5	3112.8
40°	3135.0	3127.6	3119.0	3159.6	3240.9	3424.3	3540.1	3554.8	3541.3	3495.7	3370.1
42.5°	3498.2	3498.2	3457.6	3468.6	3536.4	3742.0	3878.7	3925.5	3926.7	3860.2	3692.7
45°	3998.1	3993.2	3921.8	3904.5	3956.3	4158.2	4334.3	4360.1	4360.1	4272.7	4089.2
47.5°	4599.0	4592.8	4522.7	4462.3	4472.2	4690.1	4836.7	4876.1	4841.6	4776.3	4558.4
50°	5276.2	5265.2	5193.7	5137.1	5112.5	5332.9	5457.2	5475.7	5425.2	5347.7	5111.2
52.5°	5963.3	5996.6	5954.7	5923.9	5932.5	6075.4	6203.4	6116.0	6090.1	6006.4	5768.8
55°	6678.7	6780.9	6873.3	6846.2	6878.2	7017.3	7042.0	6926.2	6879.4	6819.1	6554.4
57.5°	7399.0	7697.0	7999.9	8084.9	8163.7	8363.2	8334.8	8145.2	8180.9	8270.8	7972.8
60°	8405.0	9265.7	10034.1	10175.7	10420.7	10590.6	10628.8	10591.9	10758.1	10711.3	10447.8
62.5°	9950.3	11384.8	12453.6	12719.6	12965.9	12957.2	12828.0	12695.0	12858.7	12858.7	12170.4
65°	11053.6	12681.4	13825.3	14045.7	14035.9	13739.1	13433.8	13167.8	13144.4	12962.2	11956.2
66°	11105.3	12781.2	13901.7	14093.8	14019.9	13542.1	13176.4	12839.0	12695.0	12441.3	11410.7
67.5°	10639.9	12499.2	13652.9	13820.4	13625.9	12941.2	12437.6	11985.7	11776.4	11349.1	10378.9
70°	8727.6	10742.1	12420.4	12762.7	12542.3	11675.4	10985.9	10375.2	9975.0	9358.1	8658.7
72.5°	6370.9	7931.0	9748.4	10305.0	10270.5	9472.6	8917.3	8358.2	7832.5	7271.0	6760.0
75°	4141.0	5159.3	6172.6	6497.7	6341.3	5879.6	5481.9	5155.6	4656.9	4266.5	4171.7
77.5°	2364.1	2888.7	2732.3	2691.7	2495.9	2014.5	1339.7	939.5	848.4	1058.9	1161.1
80°	2249.6	2039.1	1669.7	1505.9	1384.0	943.2	495.0	348.5	305.4	312.8	336.2
82.5°	2536.5	2643.7	2162.2	1806.4	1572.4	1147.6	626.7	291.8	213.0	252.4	283.2
85°	1901.2	2676.9	2653.5	2248.4	1844.5	1322.4	741.3	222.9	128.1	177.3	231.5
87.5°	385.4	634.1	610.7	536.9	456.8	318.9	124.4	70.2	64.0	87.4	133.0
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7	2031.7
2.5°	2034.2	2034.2	2036.6	2040.3	2041.5	2041.5	2044.0	2041.5	2046.5	2047.7	2048.9
5°	2045.2	2048.9	2051.4	2057.5	2061.2	2063.7	2067.4	2064.9	2069.9	2071.1	2073.6
7.5°	2057.5	2063.7	2068.6	2071.1	2076.0	2076.0	2077.2	2074.8	2073.6	2069.9	2068.6
10°	2079.7	2083.4	2089.6	2087.1	2084.6	2076.0	2068.6	2057.5	2051.4	2040.3	2034.2
12.5°	2115.4	2117.9	2117.9	2106.8	2090.8	2071.1	2052.6	2034.2	2019.4	2007.1	1999.7
15°	2140.0	2145.0	2138.8	2122.8	2099.4	2072.3	2047.7	2023.1	2003.4	1987.4	1977.5
17.5°	2158.5	2157.3	2146.2	2124.0	2101.9	2078.5	2056.3	2030.5	2005.8	1982.4	1967.7
20°	2186.8	2174.5	2154.8	2131.4	2108.0	2088.3	2071.1	2046.5	2020.6	1988.6	1966.4
22.5°	2225.0	2202.8	2174.5	2149.9	2127.7	2109.3	2089.6	2068.6	2041.5	2005.8	1975.0
25°	2279.2	2241.0	2209.0	2184.4	2164.7	2143.7	2121.6	2094.5	2067.4	2030.5	1993.5
27.5°	2361.7	2305.0	2264.4	2242.2	2223.8	2195.5	2167.1	2135.1	2100.6	2062.5	2020.6
30°	2461.4	2393.7	2346.9	2327.2	2305.0	2273.0	2242.2	2197.9	2149.9	2104.3	2052.6
32.5°	2578.4	2509.4	2462.7	2447.9	2412.2	2375.2	2332.1	2273.0	2210.2	2142.5	2080.9
35°	2755.7	2668.3	2625.2	2590.7	2541.5	2497.1	2424.5	2346.9	2257.0	2167.1	2090.8
37.5°	2937.9	2849.3	2805.0	2756.9	2692.9	2611.6	2514.4	2403.5	2284.1	2173.3	2079.7
40°	3181.7	3085.7	3029.1	2955.2	2851.8	2724.9	2580.9	2429.4	2284.1	2146.2	2032.9
42.5°	3466.2	3377.5	3290.1	3168.2	3002.0	2817.3	2615.3	2420.8	2244.7	2085.9	1966.4
45°	3860.2	3708.8	3569.6	3373.8	3131.3	2871.5	2619.0	2380.2	2177.0	2000.9	1867.9
47.5°	4303.5	4107.7	3861.4	3554.8	3223.6	2892.4	2583.3	2303.8	2069.9	1879.0	1733.7
50°	4814.5	4514.0	4136.0	3698.9	3270.4	2864.1	2498.4	2175.8	1922.1	1702.9	1547.8
52.5°	5399.4	4941.3	4384.8	3801.1	3263.0	2777.9	2358.0	2007.1	1723.9	1491.1	1338.5
55°	6048.3	5406.8	4622.4	3866.4	3196.5	2610.4	2137.6	1769.4	1477.6	1248.6	1114.4
57.5°	7192.2	6223.1	5075.5	3953.8	3057.4	2356.8	1858.1	1469.0	1205.5	1010.9	882.9
60°	9317.4	7650.2	5933.8	4159.4	2848.1	2039.1	1505.9	1152.5	932.1	790.5	695.7
62.5°	10632.5	8655.0	6352.4	4129.9	2508.2	1604.4	1118.0	854.5	680.9	587.3	528.2
65°	10321.0	8261.0	5841.4	3547.5	1951.7	1137.7	740.0	559.0	467.9	419.9	391.6
66°	9897.4	7820.2	5409.2	3176.8	1700.5	950.6	610.7	469.1	402.6	366.9	352.2
67.5°	9009.6	7014.9	4665.5	2543.9	1274.4	708.0	450.7	368.2	327.5	309.1	299.2
70°	7540.6	5651.8	3300.0	1502.2	690.8	384.2	288.1	256.1	246.3	240.1	236.4
72.5°	5830.3	4091.7	1928.3	738.8	348.5	248.7	219.2	205.6	201.9	201.9	203.2
75°	3673.0	2351.8	863.2	355.9	236.4	200.7	187.2	181.0	182.2	183.5	182.2
77.5°	1220.2	811.4	359.5	252.4	205.6	182.2	171.2	168.7	171.2	172.4	172.4
80°	350.9	306.6	259.8	222.9	188.4	169.9	160.1	158.8	165.0	166.2	163.8
82.5°	269.7	252.4	235.2	215.5	181.0	160.1	156.4	157.6	161.3	158.8	147.8
85°	247.5	245.0	176.1	174.8	157.6	152.7	149.0	150.2	146.5	133.0	120.7
87.5°	139.1	129.3	99.7	101.0	117.0	120.7	99.7	105.9	98.5	86.2	78.8
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: P159561

CATALOG NUMBER: VST-E06-LED-E-U-T3-7050

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2031.7	2031.7	2031.7	2031.7	2031.7
2.5°	2051.4	2050.2	2050.2	2053.9	2048.9
5°	2074.8	2073.6	2073.6	2077.2	2073.6
7.5°	2063.7	2060.0	2057.5	2056.3	2056.3
10°	2026.8	2023.1	2015.7	2013.2	2010.8
12.5°	1988.6	1984.9	1976.3	1976.3	1973.8
15°	1965.2	1960.3	1954.1	1950.4	1948.0
17.5°	1952.9	1945.5	1938.1	1934.4	1932.0
20°	1948.0	1938.1	1929.5	1923.3	1923.3
22.5°	1949.2	1936.9	1927.0	1919.6	1917.2
25°	1961.5	1943.0	1930.7	1923.3	1920.9
27.5°	1978.7	1956.6	1940.6	1930.7	1927.0
30°	2002.1	1971.4	1949.2	1936.9	1932.0
32.5°	2018.1	1975.0	1946.7	1929.5	1923.3
35°	2016.9	1961.5	1927.0	1904.9	1897.5
37.5°	1994.7	1929.5	1883.9	1856.8	1844.5
40°	1945.5	1870.4	1822.4	1796.5	1781.7
42.5°	1874.1	1792.8	1749.7	1721.4	1705.4
45°	1762.0	1682.0	1629.0	1606.9	1585.9
47.5°	1606.9	1525.6	1480.1	1448.0	1434.5
50°	1424.6	1343.4	1295.4	1269.5	1257.2
52.5°	1225.2	1147.6	1113.1	1088.5	1071.3
55°	1018.3	946.9	932.1	905.0	889.0
57.5°	823.8	781.9	768.3	741.3	727.7
60°	644.0	630.4	615.7	598.4	591.0
62.5°	498.7	486.4	482.7	471.6	470.4
65°	380.5	381.7	379.2	376.8	374.3
66°	346.0	344.8	346.0	343.5	342.3
67.5°	294.3	299.2	302.9	301.7	301.7
70°	238.9	242.6	247.5	246.3	246.3
72.5°	204.4	210.6	213.0	211.8	211.8
75°	184.7	190.9	190.9	188.4	187.2
77.5°	172.4	174.8	172.4	169.9	167.5
80°	160.1	157.6	153.9	150.2	147.8
82.5°	139.1	133.0	129.3	123.1	123.1
85°	112.1	107.1	98.5	92.3	86.2
87.5°	72.6	70.2	64.0	48.0	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)