

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: P159348

Luminaire Tested: **VST-E07-LED-E-U-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159348
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-T2-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (147) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18236.1 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type II - 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



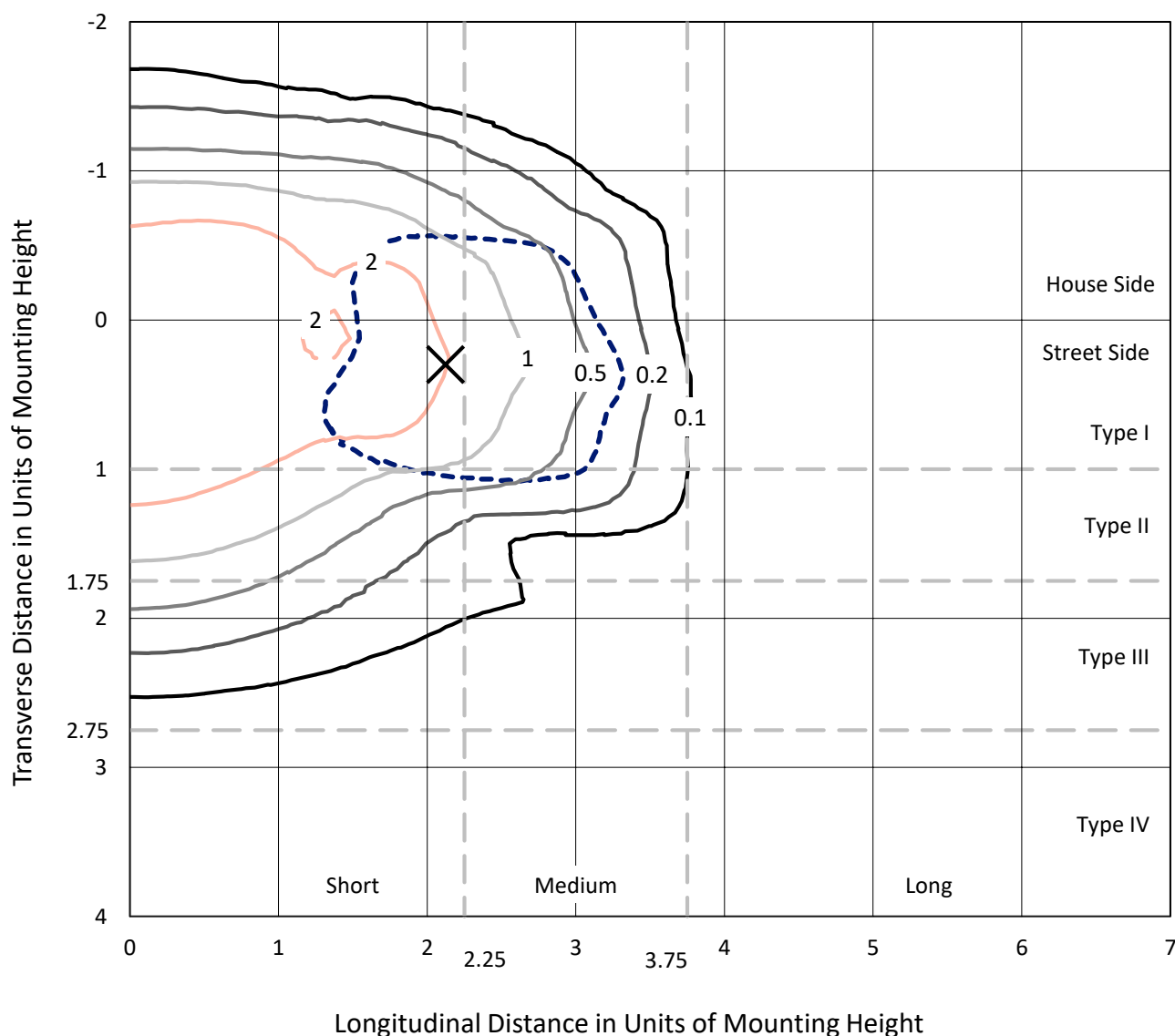
REPORT NUMBER: P159348

CATALOG NUMBER: VST-E07-LED-E-U-T2-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

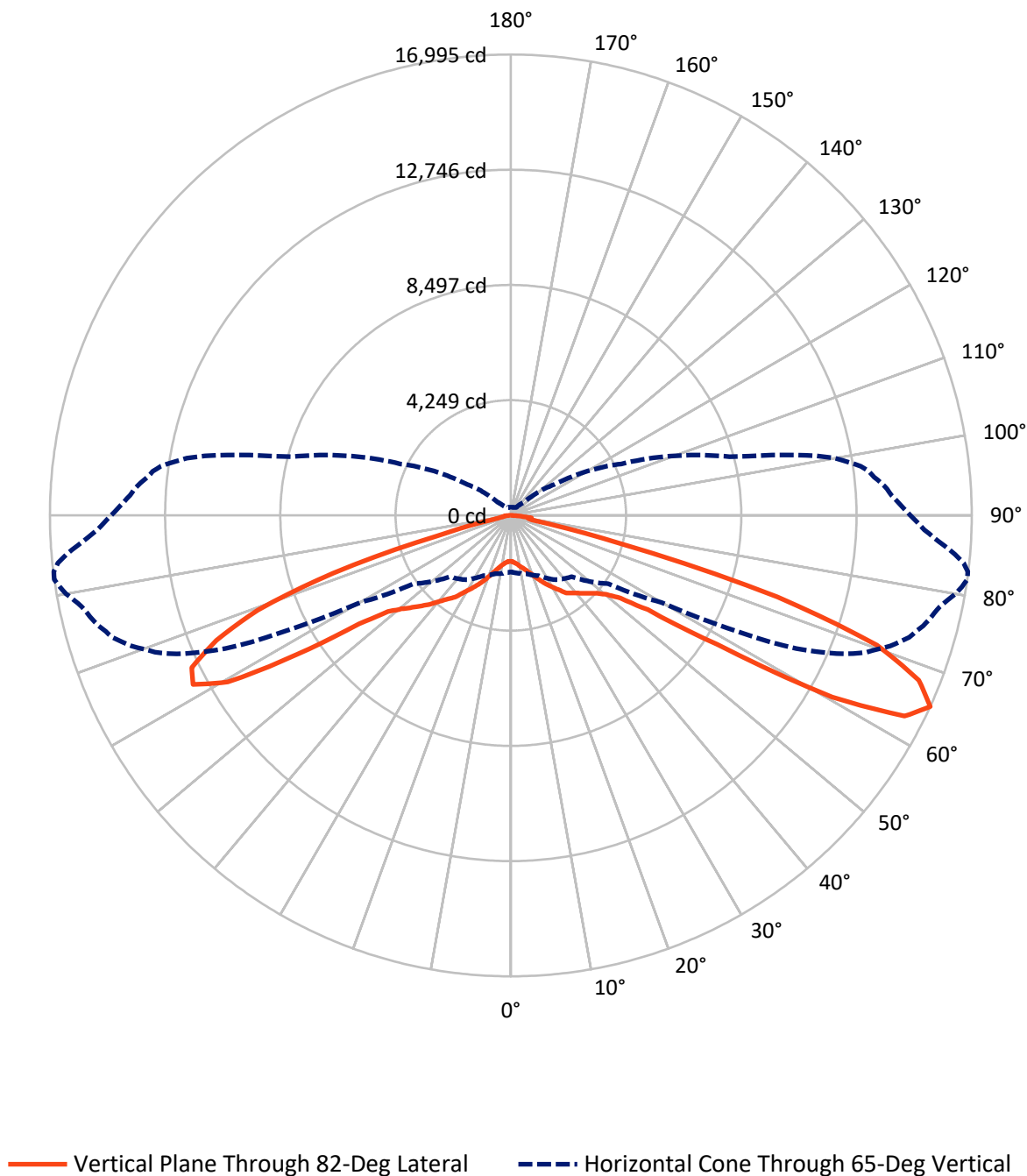


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159348

CATALOG NUMBER: VST-E07-LED-E-U-T2-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P159348

CATALOG NUMBER: VST-E07-LED-E-U-T2-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6789.9	0.0	6789.9
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	11446.2	0.0	11446.2
	% Fixture	62.8	0.0	62.8
Total	Lumens	18236.1	0.0	18236.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	0.9
10°-20°	603.6	3.3
20°-30°	1195.9	6.6
30°-40°	2050.1	11.2
40°-50°	3079.8	16.9
50°-60°	4278.8	23.5
60°-70°	4881.5	26.8
70°-80°	1681.6	9.2
80°-90°	293.1	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°	18236.1	100.0
0°-180°	18236.1	100.0

Coefficient of Utilization



REPORT NUMBER: P159348

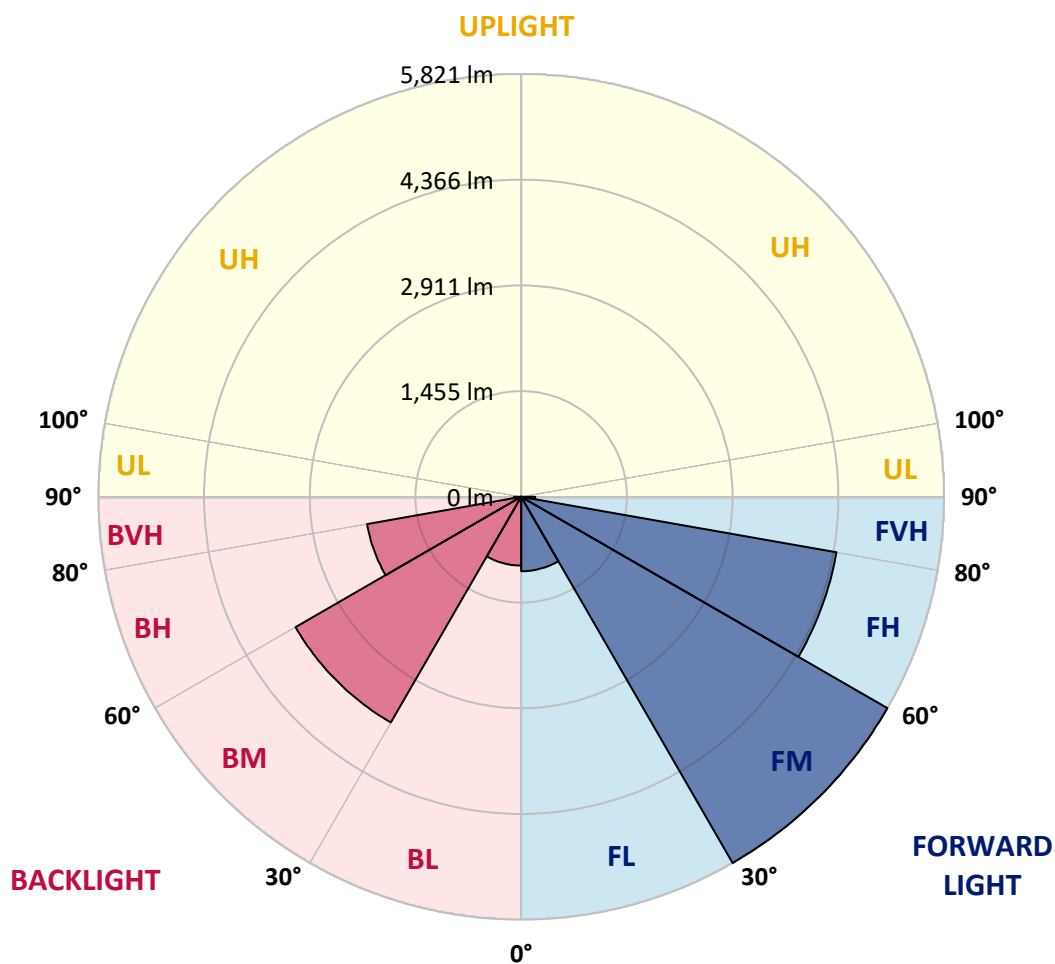
CATALOG NUMBER: VST-E07-LED-E-U-T2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1024.5	5.6			
FM	(30°-60°)	5821.3	31.9			
FH	(60°-80°)	4407.5	24.2			G2/5000
FVH	(80°-90°)	192.9	1.1			G2/225
BL	(0°-30°)	946.8	5.2	B2/1000		
BM	(30°-60°)	3587.3	19.7	B3/5000		
BH	(60°-80°)	2155.6	11.8	B3/2500		G3/2500
BVH	(80°-90°)	100.2	0.5			G2/225
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: P159348

CATALOG NUMBER: VST-E07-LED-E-U-T2-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8
2.5°	1788.9	1790.1	1788.9	1785.4	1784.2	1773.6	1761.7	1755.8	1754.7	1749.9	1751.1
5°	1900.0	1896.4	1891.7	1885.8	1879.9	1862.2	1842.1	1831.5	1827.9	1824.4	1819.6
7.5°	1999.2	2001.6	1999.2	1991.0	1975.6	1953.2	1927.2	1910.6	1909.4	1905.9	1902.4
10°	2126.9	2132.8	2118.6	2104.4	2083.1	2048.9	2019.3	1998.1	1994.5	1989.8	1987.4
12.5°	2265.1	2266.3	2261.6	2229.7	2194.2	2146.9	2104.4	2083.1	2078.4	2072.5	2070.1
15°	2412.8	2414.0	2388.0	2357.3	2302.9	2246.2	2187.1	2163.5	2157.6	2158.8	2149.3
17.5°	2529.8	2532.1	2507.3	2468.3	2403.3	2336.0	2272.2	2253.3	2249.7	2250.9	2246.2
20°	2580.6	2584.1	2568.8	2539.2	2477.8	2418.7	2372.6	2360.8	2359.6	2357.3	2366.7
22.5°	2578.2	2579.4	2573.5	2561.7	2525.1	2490.8	2484.9	2492.0	2490.8	2493.1	2501.4
25°	2557.0	2560.5	2559.3	2564.0	2558.1	2571.1	2598.3	2623.1	2626.7	2631.4	2646.8
27.5°	2611.3	2618.4	2610.1	2614.9	2624.3	2668.0	2723.6	2761.4	2768.5	2781.5	2794.5
30°	2824.0	2814.5	2803.9	2792.1	2798.0	2825.2	2887.8	2920.9	2924.4	2933.9	2951.6
32.5°	3139.5	3128.8	3119.4	3100.5	3095.8	3083.9	3105.2	3113.5	3112.3	3121.8	3126.5
35°	3495.1	3496.3	3494.0	3508.1	3519.9	3459.7	3385.2	3365.2	3373.4	3362.8	3365.2
37.5°	3798.8	3802.3	3865.0	3943.0	3965.4	3927.6	3764.5	3684.2	3657.0	3653.5	3626.3
40°	4135.6	4135.6	4230.1	4325.8	4388.4	4435.7	4241.9	4100.1	4042.2	4025.7	3958.3
42.5°	4505.4	4486.5	4572.7	4677.9	4793.7	4901.2	4800.8	4641.3	4558.6	4529.0	4410.9
45°	4809.1	4797.2	4839.8	4937.9	5125.7	5336.0	5350.2	5268.7	5219.1	5157.6	5048.9
47.5°	4995.8	4989.8	5014.7	5121.0	5356.1	5696.4	5886.7	5928.0	5898.5	5851.2	5746.1
50°	5069.0	5060.7	5078.5	5196.6	5460.1	5909.1	6329.8	6524.7	6538.9	6549.5	6516.5
52.5°	5043.0	5032.4	5069.0	5168.3	5442.4	5983.6	6676.0	7050.5	7113.2	7166.3	7275.0
55°	4793.7	4777.2	4876.4	5063.1	5365.6	5956.4	6928.8	7556.3	7688.6	7830.4	8071.4
57.5°	4412.0	4397.9	4540.8	4797.2	5229.7	5881.9	7099.0	8195.5	8493.2	8748.5	9432.6
60°	4044.6	4032.8	4116.7	4364.8	4789.0	5519.2	6888.7	8410.5	8910.3	9461.0	10709.9
62.5°	3387.6	3355.7	3468.0	3677.1	3945.3	4565.7	5970.6	7932.0	8702.4	9511.8	11205.0
65°	2082.0	2128.0	2224.9	2456.5	2896.1	3191.5	4384.9	6417.2	7433.4	8448.3	10644.9
67.5°	1322.2	1335.2	1407.3	1568.0	1908.3	2204.8	2657.4	4026.8	4810.2	5808.7	8357.4
70°	1133.1	1141.4	1202.9	1370.6	1605.8	1970.9	2011.1	2103.2	2384.4	3020.1	4913.0
72.5°	893.3	907.5	955.9	1101.2	1384.8	1777.1	2482.5	1662.5	1605.8	1658.9	2397.4
75°	531.7	548.3	588.4	667.6	889.7	1358.8	2600.7	1934.3	1803.1	1700.3	1654.2
77.5°	281.2	269.4	296.6	342.7	457.3	724.3	1954.3	2370.3	2278.1	2155.2	1894.1
80°	139.4	144.2	152.4	161.9	204.4	294.2	977.2	2451.8	2717.7	2835.8	2604.2
82.5°	55.5	62.6	88.6	94.5	112.3	125.2	314.3	1358.8	1946.1	2639.7	3446.7
85°	28.4	27.2	47.3	56.7	66.2	59.1	111.1	506.9	912.2	1421.4	2302.9
87.5°	3.5	4.7	10.6	14.2	20.1	18.9	31.9	109.9	174.9	248.1	348.6
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: P159348

CATALOG NUMBER: VST-E07-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8
2.5°	1745.2	1744.0	1744.0	1739.3	1739.3	1740.5	1736.9	1734.6	1734.6	1735.8	1731.0
5°	1816.1	1812.6	1812.6	1807.8	1801.9	1801.9	1797.2	1796.0	1793.6	1788.9	1785.4
7.5°	1898.8	1895.3	1889.4	1885.8	1883.5	1879.9	1874.0	1871.6	1866.9	1862.2	1857.5
10°	1983.9	1979.2	1976.8	1970.9	1968.5	1961.4	1957.9	1959.1	1949.6	1946.1	1947.3
12.5°	2069.0	2064.2	2056.0	2053.6	2052.4	2045.3	2041.8	2039.4	2032.3	2031.1	2027.6
15°	2144.6	2146.9	2143.4	2137.5	2132.8	2131.6	2128.0	2125.7	2120.9	2116.2	2111.5
17.5°	2242.7	2246.2	2241.5	2233.2	2233.2	2232.0	2233.2	2232.0	2223.7	2227.3	2224.9
20°	2367.9	2370.3	2358.4	2362.0	2364.4	2363.2	2366.7	2370.3	2367.9	2367.9	2371.4
22.5°	2512.1	2515.6	2508.5	2513.2	2520.3	2514.4	2525.1	2523.9	2526.2	2529.8	2531.0
25°	2659.8	2666.8	2660.9	2673.9	2669.2	2673.9	2686.9	2683.4	2689.3	2698.7	2702.3
27.5°	2807.5	2812.2	2813.4	2821.6	2829.9	2837.0	2853.5	2853.5	2858.3	2874.8	2874.8
30°	2962.2	2967.0	2971.7	2983.5	2988.2	3001.2	3017.8	3022.5	3020.1	3043.8	3050.9
32.5°	3140.7	3145.4	3153.7	3167.8	3173.7	3186.7	3186.7	3199.7	3209.2	3229.3	3230.5
35°	3378.2	3381.7	3378.2	3377.0	3385.2	3403.0	3404.2	3423.1	3431.3	3451.4	3457.3
37.5°	3615.7	3614.5	3599.1	3582.6	3583.8	3576.7	3571.9	3580.2	3583.8	3584.9	3597.9
40°	3935.9	3905.1	3881.5	3840.2	3821.3	3791.7	3774.0	3772.8	3753.9	3751.5	3755.1
42.5°	4355.3	4319.9	4264.3	4194.6	4141.5	4087.1	4046.9	4023.3	3981.9	3960.7	3943.0
45°	4941.4	4854.0	4787.8	4705.1	4602.3	4507.8	4408.5	4363.6	4284.4	4236.0	4181.6
47.5°	5657.4	5571.2	5469.6	5384.5	5249.8	5118.6	4982.8	4863.4	4725.2	4615.3	4525.5
50°	6434.9	6384.1	6310.9	6231.7	6058.0	5971.7	5800.4	5638.5	5489.7	5293.5	5122.2
52.5°	7232.5	7262.0	7245.5	7217.1	7107.2	7074.2	6926.5	6729.1	6579.1	6444.4	6146.6
55°	8215.6	8251.0	8321.9	8363.3	8350.3	8434.2	8397.5	8243.9	8183.7	8121.0	7909.5
57.5°	9719.7	9972.6	10243.2	10480.7	10536.2	10834.0	10770.2	10923.8	11032.5	10954.5	10886.0
60°	11323.2	11833.6	12293.2	12774.1	13165.2	13458.3	13845.8	14107.0	14271.2	14566.6	14590.2
62.5°	11969.5	12663.1	13246.8	13804.5	14268.8	14675.3	15025.1	15385.4	15680.8	15947.9	16140.5
65°	11615.0	12339.3	13047.1	13613.1	14059.7	14409.5	14789.9	15075.9	15366.5	15537.9	15739.9
67.5°	9655.9	10615.4	11486.2	12124.3	12735.1	13090.8	13541.0	13822.2	14130.6	14311.4	14441.4
70°	6295.5	7544.4	8734.3	9702.0	10526.8	10941.5	11485.0	11869.0	12240.1	12249.5	12465.7
72.5°	3397.1	4441.6	5437.7	6426.7	7367.2	7919.0	8455.4	8922.2	9290.8	9133.7	9348.7
75°	1891.7	2380.9	2925.6	3519.9	4093.0	4408.5	4809.1	4811.4	5001.7	4702.7	4778.3
77.5°	1819.6	1797.2	1805.5	1822.0	1850.4	1790.1	1788.9	1752.3	1695.6	1592.8	1610.5
80°	2390.4	2104.4	1898.8	1576.2	1269.0	1035.1	970.1	985.4	1031.5	1123.7	1240.7
82.5°	3456.1	3215.1	2870.1	2362.0	1853.9	1429.7	1174.5	1042.2	1036.3	1128.4	1305.7
85°	2516.8	2662.1	2639.7	2203.7	1817.3	1475.8	1074.1	907.5	751.5	714.9	777.5
87.5°	371.0	307.2	346.2	289.5	210.3	163.1	143.0	114.6	109.9	112.3	122.9
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: P159348

CATALOG NUMBER: VST-E07-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8
2.5°	1732.2	1727.5	1722.8	1726.3	1722.8	1721.6	1718.0	1715.7	1714.5	1714.5	1714.5
5°	1785.4	1779.5	1775.9	1774.7	1771.2	1767.7	1766.5	1760.6	1759.4	1759.4	1755.8
7.5°	1857.5	1852.7	1846.8	1843.3	1840.9	1835.0	1829.1	1827.9	1826.7	1822.0	1818.5
10°	1941.3	1934.3	1927.2	1927.2	1922.4	1921.3	1915.4	1907.1	1905.9	1898.8	1896.4
12.5°	2020.5	2018.2	2009.9	2007.5	2004.0	2000.4	1996.9	1993.3	1989.8	1983.9	1986.2
15°	2115.0	2109.1	2102.0	2103.2	2102.0	2097.3	2092.6	2089.0	2086.7	2084.3	2084.3
17.5°	2228.5	2226.1	2224.9	2219.0	2214.3	2217.8	2217.8	2217.8	2211.9	2213.1	2214.3
20°	2372.6	2375.0	2372.6	2367.9	2366.7	2370.3	2362.0	2375.0	2367.9	2363.2	2365.5
22.5°	2532.1	2540.4	2531.0	2532.1	2538.0	2540.4	2532.1	2542.8	2539.2	2532.1	2538.0
25°	2705.8	2711.7	2707.0	2705.8	2709.4	2717.7	2716.5	2715.3	2723.6	2716.5	2720.0
27.5°	2884.3	2887.8	2890.2	2893.7	2896.1	2894.9	2899.6	2899.6	2904.3	2896.1	2899.6
30°	3061.5	3061.5	3066.2	3070.9	3070.9	3070.9	3080.4	3081.6	3074.5	3076.9	3068.6
32.5°	3250.5	3251.7	3256.5	3256.5	3265.9	3267.1	3277.7	3263.5	3277.7	3265.9	3268.3
35°	3472.7	3488.0	3490.4	3502.2	3511.7	3515.2	3515.2	3516.4	3529.4	3519.9	3523.5
37.5°	3602.7	3606.2	3615.7	3621.6	3621.6	3626.3	3629.8	3626.3	3629.8	3628.7	3632.2
40°	3756.3	3752.7	3763.4	3765.7	3761.0	3766.9	3765.7	3762.2	3771.6	3764.5	3769.3
42.5°	3943.0	3922.9	3921.7	3931.1	3921.7	3926.4	3925.2	3917.0	3928.8	3932.3	3928.8
45°	4142.6	4132.0	4110.7	4110.7	4101.3	4097.7	4098.9	4097.7	4098.9	4113.1	4117.8
47.5°	4467.6	4402.6	4366.0	4331.7	4303.3	4302.2	4289.2	4296.3	4305.7	4329.3	4350.6
50°	5012.3	4862.2	4770.1	4685.0	4623.6	4602.3	4577.5	4575.1	4583.4	4610.6	4647.2
52.5°	5983.6	5775.6	5579.5	5397.5	5239.2	5117.5	5057.2	5025.3	5013.5	5040.7	5076.1
55°	7760.7	7368.4	7091.9	6907.6	6514.1	6347.5	6133.6	6035.5	5939.8	5949.3	6009.6
57.5°	10797.3	10585.8	10354.2	10031.7	9790.6	9500.0	8965.9	8668.1	8681.1	8750.8	8533.4
60°	14776.9	14563.1	14467.4	14174.3	14006.5	13889.6	13606.0	13112.1	12937.2	12904.1	12504.7
62.5°	16288.2	16339.0	16414.6	16497.3	16492.6	16543.4	16295.3	16134.6	15932.5	15670.2	15275.6
65°	15893.5	16022.3	16175.9	16398.1	16650.9	16837.6	16994.8	16975.9	16786.8	16437.1	16020.0
67.5°	14557.2	14684.8	14797.0	15094.8	15509.5	15888.8	16224.4	16452.4	16326.0	16036.5	15549.7
70°	12548.5	12640.6	12711.5	12970.3	13425.2	13888.4	14326.7	14709.6	14670.6	14319.7	13930.9
72.5°	9092.3	9315.6	9436.2	9418.4	9699.7	10218.4	10279.8	10607.1	10698.1	10320.0	9700.8
75°	4429.8	4433.3	4293.9	4247.8	4262.0	4351.8	4180.5	4191.1	4132.0	3863.8	3642.8
77.5°	1547.9	1505.3	1403.7	1283.2	1110.7	948.8	784.6	713.7	690.0	620.3	571.9
80°	1334.0	1396.6	1376.5	1277.3	1095.3	873.2	652.2	483.3	412.4	387.6	363.9
82.5°	1514.8	1755.8	1909.4	1901.2	1651.9	1240.7	773.9	444.3	316.7	277.7	255.2
85°	844.8	908.6	926.4	843.7	700.7	478.5	267.0	187.9	159.5	145.3	131.2
87.5°	134.7	122.9	120.5	105.2	99.3	91.0	80.3	75.6	69.7	66.2	66.2
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: P159348

CATALOG NUMBER: VST-E07-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8
2.5°	1713.3	1712.1	1708.6	1705.0	1702.7	1701.5	1700.3	1697.9	1696.8	1695.6	1693.2
5°	1753.5	1751.1	1745.2	1739.3	1736.9	1733.4	1729.8	1727.5	1725.1	1723.9	1719.2
7.5°	1816.1	1813.7	1806.6	1801.9	1800.7	1791.3	1790.1	1786.6	1780.7	1779.5	1772.4
10°	1891.7	1890.5	1884.6	1881.1	1878.7	1874.0	1866.9	1861.0	1855.1	1855.1	1850.4
12.5°	1979.2	1974.4	1978.0	1969.7	1967.3	1962.6	1959.1	1957.9	1950.8	1944.9	1943.7
15°	2082.0	2076.0	2076.0	2073.7	2071.3	2066.6	2065.4	2066.6	2059.5	2061.9	2054.8
17.5°	2209.6	2211.9	2210.7	2210.7	2204.8	2204.8	2195.4	2207.2	2198.9	2204.8	2202.5
20°	2369.1	2370.3	2367.9	2371.4	2373.8	2372.6	2371.4	2370.3	2373.8	2378.5	2375.0
22.5°	2539.2	2539.2	2538.0	2551.0	2536.9	2547.5	2551.0	2544.0	2562.9	2560.5	2564.0
25°	2723.6	2723.6	2733.0	2743.6	2746.0	2737.7	2742.5	2736.6	2748.4	2757.8	2760.2
27.5°	2894.9	2910.2	2917.3	2910.2	2916.2	2929.2	2928.0	2928.0	2936.2	2933.9	2956.3
30°	3070.9	3080.4	3089.9	3085.1	3087.5	3104.0	3105.2	3106.4	3117.0	3132.4	3148.9
32.5°	3271.8	3281.3	3276.5	3291.9	3290.7	3310.8	3314.4	3317.9	3351.0	3345.1	3379.3
35°	3518.8	3528.2	3523.5	3540.0	3537.7	3544.8	3557.8	3571.9	3577.8	3612.1	3639.3
37.5°	3634.6	3634.6	3645.2	3664.1	3671.2	3683.0	3703.1	3720.8	3750.4	3787.0	3829.5
40°	3774.0	3777.5	3791.7	3811.8	3824.8	3852.0	3888.6	3913.4	3958.3	3998.5	4048.1
42.5°	3943.0	3958.3	3974.9	4002.0	4030.4	4072.9	4124.9	4156.8	4215.9	4267.9	4329.3
45°	4140.3	4155.6	4194.6	4244.3	4285.6	4332.9	4375.4	4451.0	4504.2	4558.6	4611.7
47.5°	4379.0	4423.9	4455.8	4514.8	4565.7	4628.3	4681.4	4752.3	4810.2	4876.4	4921.3
50°	4685.0	4740.5	4781.9	4858.7	4908.3	4978.0	5045.4	5098.5	5157.6	5222.6	5259.2
52.5°	5124.5	5181.3	5233.3	5329.0	5390.4	5437.7	5527.5	5593.6	5648.0	5695.3	5735.4
55°	6076.9	6060.4	6204.5	6390.0	6411.3	6582.6	6614.5	6670.1	6770.5	6784.7	6896.9
57.5°	8798.1	8713.0	8922.2	9193.9	9146.7	9060.4	9420.8	9443.2	9392.4	9528.3	9374.7
60°	12563.8	12414.9	12471.7	12546.1	12438.6	12387.8	12405.5	12456.3	12406.7	12352.3	12203.4
62.5°	15078.2	14849.0	14684.8	14546.5	14371.6	14245.2	14103.4	13928.6	13881.3	13682.8	13516.2
65°	15614.7	15257.8	14997.9	14736.8	14495.7	14272.4	14058.5	13908.5	13710.0	13474.8	13301.1
67.5°	15025.1	14583.2	14202.7	13823.4	13550.4	13222.0	13061.3	12816.7	12572.1	12302.7	12143.2
70°	13311.8	12850.9	12372.4	12001.4	11630.4	11223.9	11144.7	10855.2	10714.6	10347.2	10283.4
72.5°	9188.0	8880.8	8666.9	8208.5	7982.8	7774.8	7708.7	7440.5	7468.8	7065.9	7212.4
75°	3267.1	3223.4	3160.7	2902.0	2855.9	2775.5	2754.3	2735.4	2926.8	2660.9	2853.5
77.5°	561.3	557.7	525.8	510.4	540.0	521.1	525.8	516.4	571.9	580.2	567.2
80°	348.6	339.1	328.5	321.4	322.6	315.5	316.7	319.0	322.6	321.4	324.9
82.5°	238.7	230.4	225.7	221.0	228.0	230.4	236.3	242.2	251.7	257.6	264.7
85°	130.0	119.3	119.3	118.2	127.6	134.7	144.2	156.0	172.5	186.7	202.1
87.5°	66.2	63.8	65.0	67.4	75.6	81.5	93.3	104.0	118.2	133.5	147.7
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: P159348

CATALOG NUMBER: VST-E07-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8
2.5°	1692.0	1692.0	1690.9	1690.9	1689.7	1688.5	1687.3	1683.8	1670.8	1658.9	1650.7
5°	1718.0	1714.5	1713.3	1709.8	1708.6	1706.2	1702.7	1699.1	1675.5	1654.2	1638.9
7.5°	1771.2	1766.5	1764.1	1760.6	1757.0	1752.3	1747.6	1744.0	1715.7	1690.9	1671.9
10°	1840.9	1838.5	1837.4	1832.6	1832.6	1825.6	1824.4	1816.1	1785.4	1762.9	1746.4
12.5°	1937.8	1933.1	1931.9	1926.0	1928.4	1926.0	1923.6	1918.9	1896.4	1870.5	1848.0
15°	2058.3	2058.3	2052.4	2047.7	2048.9	2046.5	2051.2	2045.3	2031.1	2007.5	1970.9
17.5°	2203.7	2201.3	2203.7	2200.1	2202.5	2204.8	2198.9	2200.1	2193.0	2163.5	2109.1
20°	2372.6	2369.1	2383.3	2377.4	2390.4	2378.5	2380.9	2384.4	2384.4	2345.5	2272.2
22.5°	2566.4	2564.0	2564.0	2575.9	2580.6	2581.8	2586.5	2590.0	2599.5	2549.9	2432.9
25°	2760.2	2768.5	2769.6	2785.0	2792.1	2792.1	2795.6	2808.6	2837.0	2768.5	2617.2
27.5°	2957.5	2977.6	2982.3	2993.0	3003.6	3014.2	3022.5	3032.0	3078.0	3003.6	2806.3
30°	3154.8	3177.3	3193.8	3205.6	3218.6	3244.6	3249.4	3268.3	3345.1	3254.1	2985.9
32.5°	3386.4	3418.3	3439.6	3455.0	3475.0	3499.9	3514.0	3537.7	3612.1	3463.2	3117.0
35°	3662.9	3681.8	3712.5	3738.5	3750.4	3792.9	3815.3	3821.3	3878.0	3644.0	3213.9
37.5°	3854.3	3886.2	3939.4	3976.0	3997.3	4020.9	4058.8	4083.6	4137.9	3808.3	3262.4
40°	4097.7	4146.2	4188.7	4243.1	4277.3	4295.1	4332.9	4353.0	4360.1	3948.9	3247.0
42.5°	4394.3	4438.0	4494.8	4538.5	4564.5	4584.6	4615.3	4623.6	4531.4	4015.0	3164.3
45°	4673.2	4740.5	4789.0	4820.9	4839.8	4850.4	4869.3	4870.5	4673.2	3981.9	3022.5
47.5°	4973.3	5021.7	5066.6	5089.1	5086.7	5089.1	5082.0	5077.3	4744.1	3867.3	2840.5
50°	5305.3	5337.2	5356.1	5366.8	5372.7	5350.2	5318.3	5297.1	4750.0	3704.3	2656.2
52.5°	5750.8	5791.0	5787.4	5786.2	5739.0	5717.7	5632.6	5588.9	4715.7	3512.9	2448.2
55°	6879.2	6840.2	6763.4	6801.2	6608.6	6508.2	6375.8	6253.0	4760.6	3330.9	2207.2
57.5°	9436.2	9451.5	9232.9	9115.9	8791.0	8384.5	8057.2	7739.4	5164.7	3219.8	1892.9
60°	12104.2	11903.3	11625.6	11202.6	10784.3	10180.6	9598.0	9047.4	5567.6	3104.0	1520.7
62.5°	13269.2	12983.3	12563.8	12016.7	11359.8	10621.3	9895.8	9224.7	5372.7	2729.5	1106.0
65°	13032.9	12595.7	12132.5	11492.1	10693.4	9884.0	9036.8	8351.5	4494.8	2035.9	681.8
67.5°	11797.0	11425.9	10936.8	10177.0	9322.7	8480.3	7703.9	6935.9	3339.2	1269.0	381.7
70°	9957.2	9594.5	9098.2	8320.7	7467.6	6661.8	5839.4	5213.2	2128.0	612.1	275.3
72.5°	6907.6	6613.3	6262.4	5708.2	4960.3	4227.7	3671.2	3190.3	1179.2	324.9	251.7
75°	2805.1	2806.3	2742.5	2508.5	2119.8	1827.9	1558.5	1322.2	492.7	276.5	248.1
77.5°	635.7	646.3	706.6	670.0	603.8	564.8	505.7	446.6	300.1	284.8	250.5
80°	321.4	322.6	319.0	320.2	316.7	317.8	313.1	309.6	281.2	293.0	250.5
82.5°	268.2	274.1	272.9	272.9	274.1	274.1	274.1	272.9	291.9	308.4	242.2
85°	212.7	224.5	234.0	243.4	254.0	261.1	264.7	268.2	283.6	303.7	219.8
87.5°	160.7	174.9	186.7	196.1	212.7	212.7	224.5	232.8	232.8	237.5	115.8
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: P159348

CATALOG NUMBER: VST-E07-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1696.8	1696.8	1696.8	1696.8	1696.8
2.5°	1638.9	1634.1	1629.4	1627.0	1622.3
5°	1627.0	1617.6	1611.7	1611.7	1607.0
7.5°	1661.3	1657.8	1649.5	1644.8	1649.5
10°	1734.6	1728.7	1719.2	1712.1	1715.7
12.5°	1832.6	1809.0	1790.1	1781.8	1775.9
15°	1934.3	1887.0	1849.2	1827.9	1822.0
17.5°	2043.0	1960.3	1903.5	1871.6	1865.7
20°	2154.0	2051.2	1970.9	1929.5	1928.4
22.5°	2287.6	2150.5	2047.7	1993.3	1989.8
25°	2428.2	2239.1	2103.2	2033.5	2026.4
27.5°	2549.9	2310.0	2137.5	2054.8	2047.7
30°	2651.5	2363.2	2165.8	2070.1	2060.7
32.5°	2724.7	2393.9	2177.7	2074.9	2064.2
35°	2748.4	2382.1	2144.6	2032.3	2020.5
37.5°	2716.5	2305.3	2052.4	1928.4	1914.2
40°	2620.8	2170.6	1902.4	1774.7	1757.0
42.5°	2474.2	2005.2	1721.6	1599.9	1577.4
45°	2293.5	1818.5	1542.0	1406.1	1395.5
47.5°	2104.4	1622.3	1339.9	1217.0	1204.0
50°	1900.0	1395.5	1142.6	1009.1	1009.1
52.5°	1656.6	1174.5	913.4	812.9	804.7
55°	1376.5	925.2	727.9	651.1	640.4
57.5°	1075.2	711.3	581.3	536.4	524.6
60°	790.5	534.1	467.9	443.1	438.4
62.5°	536.4	406.5	376.9	366.3	365.1
65°	362.7	316.7	308.4	304.8	306.0
67.5°	278.9	263.5	259.9	258.8	258.8
70°	242.2	232.8	229.2	230.4	229.2
72.5°	228.0	215.0	216.2	218.6	217.4
75°	223.3	206.8	211.5	212.7	208.0
77.5°	219.8	197.3	209.1	212.7	199.7
80°	212.7	189.1	217.4	218.6	196.1
82.5°	195.0	167.8	217.4	200.9	177.2
85°	165.4	127.6	245.8	174.9	131.2
87.5°	105.2	75.6	166.6	119.3	79.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)