

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: P159340

Luminaire Tested: **VST-E06-LED-E-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159340
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-E06-LED-E-U-T2
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18520.3 lumens
Efficiency: N/A
Efficacy: 123.1 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



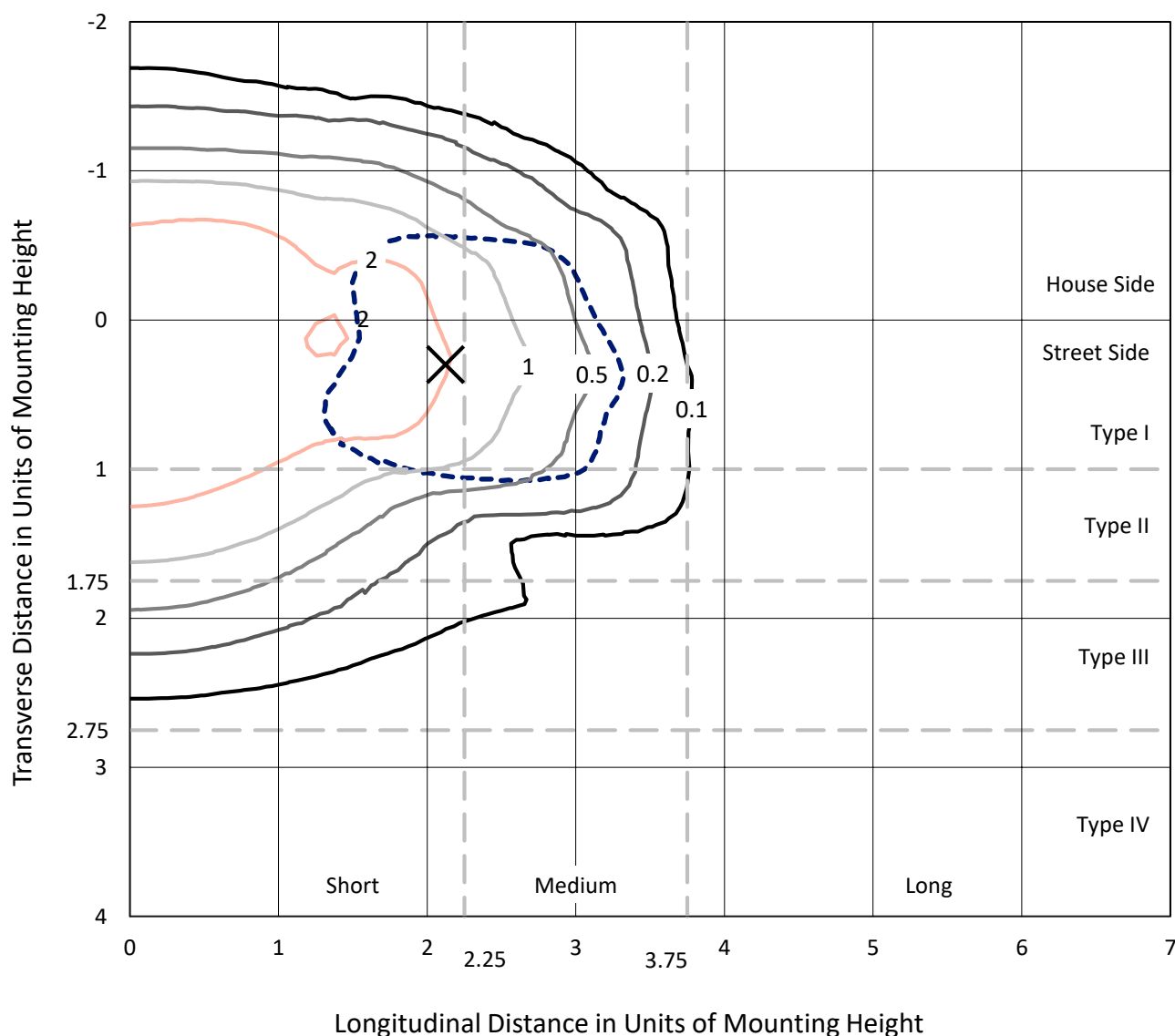
REPORT NUMBER: P159340

CATALOG NUMBER: VST-E06-LED-E-U-T2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

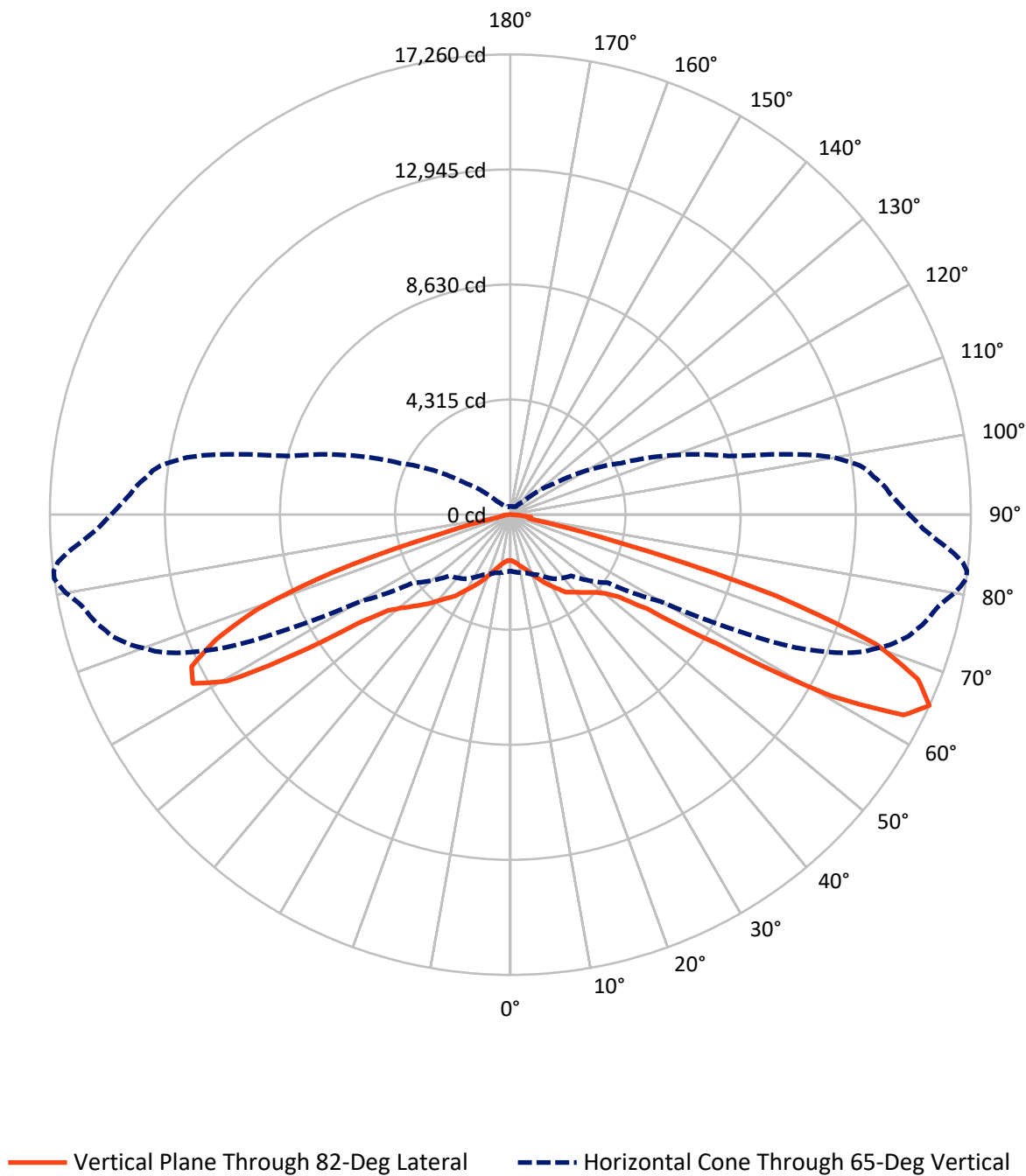


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159340

CATALOG NUMBER: VST-E06-LED-E-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P159340

CATALOG NUMBER: VST-E06-LED-E-U-T2

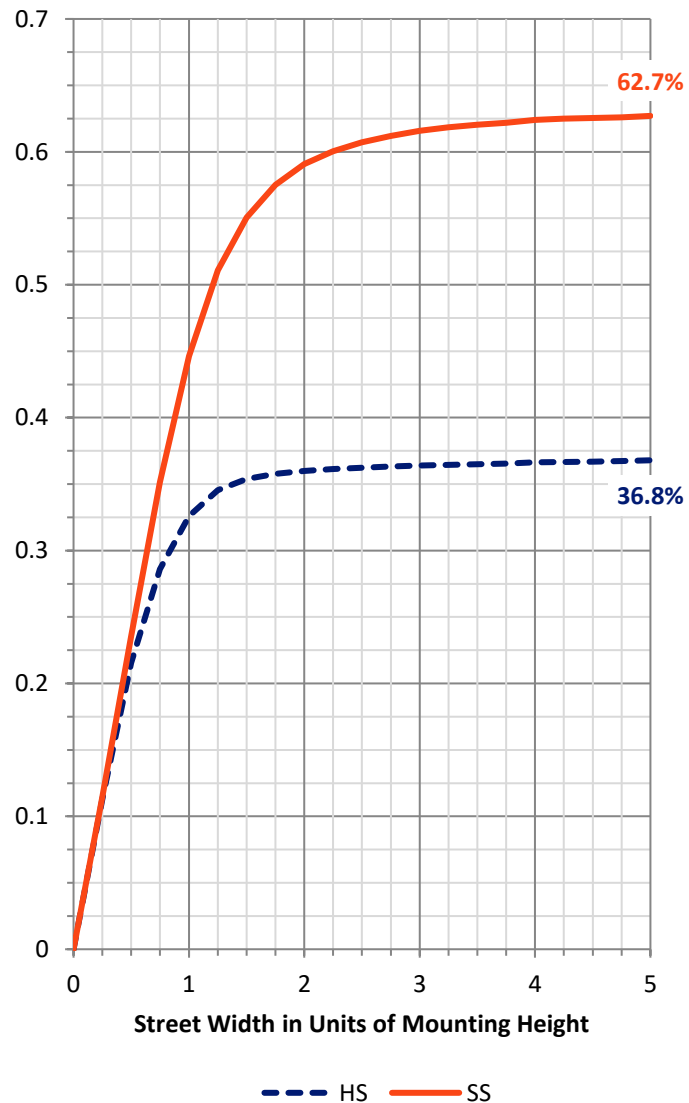
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6895.7	0.0	6895.7
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	11624.6	0.0	11624.6
	% Fixture	62.8	0.0	62.8
Total	Lumens	18520.3	0.0	18520.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	0.9
10°-20°	613.0	3.3
20°-30°	1214.6	6.6
30°-40°	2082.0	11.2
40°-50°	3127.8	16.9
50°-60°	4345.5	23.5
60°-70°	4957.5	26.8
70°-80°	1707.8	9.2
80°-90°	297.7	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°	18520.3	100.0
0°-180°	18520.3	100.0

Coefficient of Utilization



REPORT NUMBER: P159340

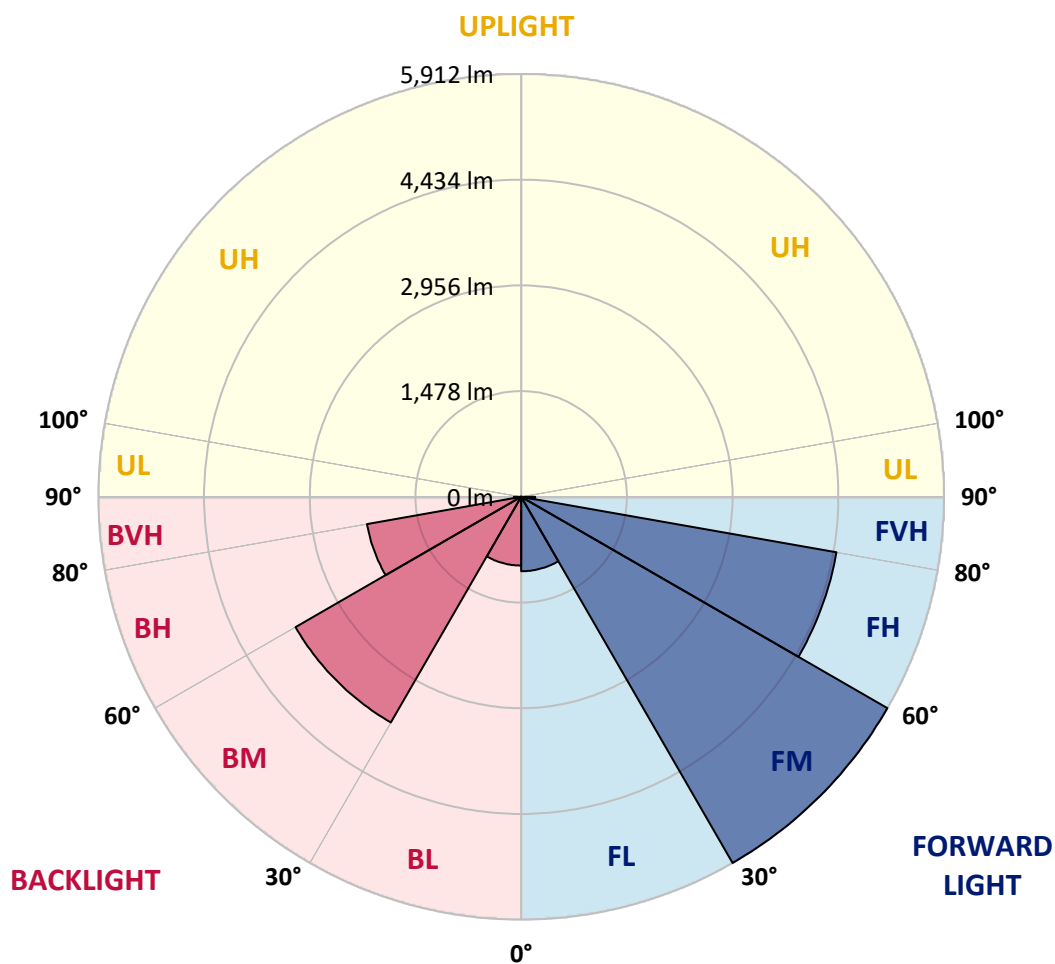
CATALOG NUMBER: VST-E06-LED-E-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1040.4	5.6			
FM	(30°-60°)	5912.1	31.9			
FH	(60°-80°)	4476.1	24.2			G2/5000
FVH	(80°-90°)	195.9	1.1			G2/225
BL	(0°-30°)	961.6	5.2	B2/1000		
BM	(30°-60°)	3643.2	19.7	B3/5000		
BH	(60°-80°)	2189.2	11.8	B3/2500		G3/2500
BVH	(80°-90°)	101.7	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: P159340

CATALOG NUMBER: VST-E06-LED-E-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2
2.5°	1816.8	1818.0	1816.8	1813.2	1812.0	1801.2	1789.2	1783.2	1782.0	1777.2	1778.4
5°	1929.6	1926.0	1921.2	1915.2	1909.2	1891.2	1870.8	1860.0	1856.4	1852.8	1848.0
7.5°	2030.4	2032.8	2030.4	2022.0	2006.4	1983.6	1957.2	1940.4	1939.2	1935.6	1932.0
10°	2160.0	2166.0	2151.6	2137.2	2115.6	2080.8	2050.8	2029.2	2025.6	2020.8	2018.4
12.5°	2300.4	2301.6	2296.8	2264.4	2228.4	2180.4	2137.2	2115.6	2110.8	2104.8	2102.4
15°	2450.4	2451.6	2425.2	2394.0	2338.8	2281.2	2221.2	2197.2	2191.2	2192.4	2182.8
17.5°	2569.2	2571.6	2546.4	2506.8	2440.8	2372.4	2307.6	2288.4	2284.8	2286.0	2281.2
20°	2620.8	2624.4	2608.8	2578.8	2516.4	2456.4	2409.6	2397.6	2396.4	2394.0	2403.6
22.5°	2618.4	2619.6	2613.6	2601.6	2564.4	2529.6	2523.6	2530.8	2529.6	2532.0	2540.4
25°	2596.8	2600.4	2599.2	2604.0	2598.0	2611.2	2638.8	2664.0	2667.6	2672.4	2688.0
27.5°	2652.0	2659.2	2650.8	2655.6	2665.2	2709.6	2766.0	2804.4	2811.6	2824.8	2838.0
30°	2868.0	2858.4	2847.6	2835.6	2841.6	2869.2	2932.8	2966.4	2970.0	2979.6	2997.6
32.5°	3188.4	3177.6	3168.0	3148.8	3144.0	3132.0	3153.6	3162.0	3160.8	3170.4	3175.2
35°	3549.6	3550.8	3548.4	3562.8	3574.8	3513.6	3438.0	3417.6	3426.0	3415.2	3417.6
37.5°	3858.0	3861.6	3925.2	4004.4	4027.2	3988.8	3823.2	3741.6	3714.0	3710.4	3682.8
40°	4200.0	4200.0	4296.0	4393.2	4456.8	4504.8	4308.0	4164.0	4105.2	4088.4	4020.0
42.5°	4575.6	4556.4	4644.0	4750.8	4868.4	4977.6	4875.6	4713.6	4629.6	4599.6	4479.6
45°	4884.0	4872.0	4915.2	5014.8	5205.6	5419.2	5433.6	5350.8	5300.4	5238.0	5127.6
47.5°	5073.6	5067.6	5092.8	5200.8	5439.6	5785.2	5978.4	6020.4	5990.4	5942.4	5835.6
50°	5148.0	5139.6	5157.6	5277.6	5545.2	6001.2	6428.4	6626.4	6640.8	6651.6	6618.0
52.5°	5121.6	5110.8	5148.0	5248.8	5527.2	6076.8	6780.0	7160.4	7224.0	7278.0	7388.4
55°	4868.4	4851.6	4952.4	5142.0	5449.2	6049.2	7036.8	7674.0	7808.4	7952.4	8197.2
57.5°	4480.8	4466.4	4611.6	4872.0	5311.2	5973.6	7209.6	8323.2	8625.6	8884.8	9579.6
60°	4107.6	4095.6	4180.8	4432.8	4863.6	5605.2	6996.0	8541.6	9049.2	9608.4	10876.8
62.5°	3440.4	3408.0	3522.0	3734.4	4006.8	4636.8	6063.6	8055.6	8838.0	9660.0	11379.6
65°	2114.4	2161.2	2259.6	2494.8	2941.2	3241.2	4453.2	6517.2	7549.2	8580.0	10810.8
67.5°	1342.8	1356.0	1429.2	1592.4	1938.0	2239.2	2698.8	4089.6	4885.2	5899.2	8487.6
70°	1150.8	1159.2	1221.6	1392.0	1630.8	2001.6	2042.4	2136.0	2421.6	3067.2	4989.6
72.5°	907.2	921.6	970.8	1118.4	1406.4	1804.8	2521.2	1688.4	1630.8	1684.8	2434.8
75°	540.0	556.8	597.6	678.0	903.6	1380.0	2641.2	1964.4	1831.2	1726.8	1680.0
77.5°	285.6	273.6	301.2	348.0	464.4	735.6	1984.8	2407.2	2313.6	2188.8	1923.6
80°	141.6	146.4	154.8	164.4	207.6	298.8	992.4	2490.0	2760.0	2880.0	2644.8
82.5°	56.4	63.6	90.0	96.0	114.0	127.2	319.2	1380.0	1976.4	2680.8	3500.4
85°	28.8	27.6	48.0	57.6	67.2	60.0	112.8	514.8	926.4	1443.6	2338.8
87.5°	3.6	4.8	10.8	14.4	20.4	19.2	32.4	111.6	177.6	252.0	354.0
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: P159340

CATALOG NUMBER: VST-E06-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2
2.5°	1772.4	1771.2	1771.2	1766.4	1766.4	1767.6	1764.0	1761.6	1761.6	1762.8	1758.0
5°	1844.4	1840.8	1840.8	1836.0	1830.0	1830.0	1825.2	1824.0	1821.6	1816.8	1813.2
7.5°	1928.4	1924.8	1918.8	1915.2	1912.8	1909.2	1903.2	1900.8	1896.0	1891.2	1886.4
10°	2014.8	2010.0	2007.6	2001.6	1999.2	1992.0	1988.4	1989.6	1980.0	1976.4	1977.6
12.5°	2101.2	2096.4	2088.0	2085.6	2084.4	2077.2	2073.6	2071.2	2064.0	2062.8	2059.2
15°	2178.0	2180.4	2176.8	2170.8	2166.0	2164.8	2161.2	2158.8	2154.0	2149.2	2144.4
17.5°	2277.6	2281.2	2276.4	2268.0	2268.0	2266.8	2268.0	2266.8	2258.4	2262.0	2259.6
20°	2404.8	2407.2	2395.2	2398.8	2401.2	2400.0	2403.6	2407.2	2404.8	2404.8	2408.4
22.5°	2551.2	2554.8	2547.6	2552.4	2559.6	2553.6	2564.4	2563.2	2565.6	2569.2	2570.4
25°	2701.2	2708.4	2702.4	2715.6	2710.8	2715.6	2728.8	2725.2	2731.2	2740.8	2744.4
27.5°	2851.2	2856.0	2857.2	2865.6	2874.0	2881.2	2898.0	2898.0	2902.8	2919.6	2919.6
30°	3008.4	3013.2	3018.0	3030.0	3034.8	3048.0	3064.8	3069.6	3067.2	3091.2	3098.4
32.5°	3189.6	3194.4	3202.8	3217.2	3223.2	3236.4	3236.4	3249.6	3259.2	3279.6	3280.8
35°	3430.8	3434.4	3430.8	3429.6	3438.0	3456.0	3457.2	3476.4	3484.8	3505.2	3511.2
37.5°	3672.0	3670.8	3655.2	3638.4	3639.6	3632.4	3627.6	3636.0	3639.6	3640.8	3654.0
40°	3997.2	3966.0	3942.0	3900.0	3880.8	3850.8	3832.8	3831.6	3812.4	3810.0	3813.6
42.5°	4423.2	4387.2	4330.8	4260.0	4206.0	4150.8	4110.0	4086.0	4044.0	4022.4	4004.4
45°	5018.4	4929.6	4862.4	4778.4	4674.0	4578.0	4477.2	4431.6	4351.2	4302.0	4246.8
47.5°	5745.6	5658.0	5554.8	5468.4	5331.6	5198.4	5060.4	4939.2	4798.8	4687.2	4596.0
50°	6535.2	6483.6	6409.2	6328.8	6152.4	6064.8	5890.8	5726.4	5575.2	5376.0	5202.0
52.5°	7345.2	7375.2	7358.4	7329.6	7218.0	7184.4	7034.4	6834.0	6681.6	6544.8	6242.4
55°	8343.6	8379.6	8451.6	8493.6	8480.4	8565.6	8528.4	8372.4	8311.2	8247.6	8032.8
57.5°	9871.2	10128.0	10402.8	10644.0	10700.4	11002.8	10938.0	11094.0	11204.4	11125.2	11055.6
60°	11499.6	12018.0	12484.8	12973.2	13370.4	13668.0	14061.6	14326.8	14493.6	14793.6	14817.6
62.5°	12156.0	12860.4	13453.2	14019.6	14491.2	14904.0	15259.2	15625.2	15925.2	16196.4	16392.0
65°	11796.0	12531.6	13250.4	13825.2	14278.8	14634.0	15020.4	15310.8	15606.0	15780.0	15985.2
67.5°	9806.4	10780.8	11665.2	12313.2	12933.6	13294.8	13752.0	14037.6	14350.8	14534.4	14666.4
70°	6393.6	7662.0	8870.4	9853.2	10690.8	11112.0	11664.0	12054.0	12430.8	12440.4	12660.0
72.5°	3450.0	4510.8	5522.4	6526.8	7482.0	8042.4	8587.2	9061.2	9435.6	9276.0	9494.4
75°	1921.2	2418.0	2971.2	3574.8	4156.8	4477.2	4884.0	4886.4	5079.6	4776.0	4852.8
77.5°	1848.0	1825.2	1833.6	1850.4	1879.2	1818.0	1816.8	1779.6	1722.0	1617.6	1635.6
80°	2427.6	2137.2	1928.4	1600.8	1288.8	1051.2	985.2	1000.8	1047.6	1141.2	1260.0
82.5°	3510.0	3265.2	2914.8	2398.8	1882.8	1452.0	1192.8	1058.4	1052.4	1146.0	1326.0
85°	2556.0	2703.6	2680.8	2238.0	1845.6	1498.8	1090.8	921.6	763.2	726.0	789.6
87.5°	376.8	312.0	351.6	294.0	213.6	165.6	145.2	116.4	111.6	114.0	124.8
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: P159340

CATALOG NUMBER: VST-E06-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2
2.5°	1759.2	1754.4	1749.6	1753.2	1749.6	1748.4	1744.8	1742.4	1741.2	1741.2	1741.2
5°	1813.2	1807.2	1803.6	1802.4	1798.8	1795.2	1794.0	1788.0	1786.8	1786.8	1783.2
7.5°	1886.4	1881.6	1875.6	1872.0	1869.6	1863.6	1857.6	1856.4	1855.2	1850.4	1846.8
10°	1971.6	1964.4	1957.2	1957.2	1952.4	1951.2	1945.2	1936.8	1935.6	1928.4	1926.0
12.5°	2052.0	2049.6	2041.2	2038.8	2035.2	2031.6	2028.0	2024.4	2020.8	2014.8	2017.2
15°	2148.0	2142.0	2134.8	2136.0	2134.8	2130.0	2125.2	2121.6	2119.2	2116.8	2116.8
17.5°	2263.2	2260.8	2259.6	2253.6	2248.8	2252.4	2252.4	2252.4	2246.4	2247.6	2248.8
20°	2409.6	2412.0	2409.6	2404.8	2403.6	2407.2	2398.8	2412.0	2404.8	2400.0	2402.4
22.5°	2571.6	2580.0	2570.4	2571.6	2577.6	2580.0	2571.6	2582.4	2578.8	2571.6	2577.6
25°	2748.0	2754.0	2749.2	2748.0	2751.6	2760.0	2758.8	2757.6	2766.0	2758.8	2762.4
27.5°	2929.2	2932.8	2935.2	2938.8	2941.2	2940.0	2944.8	2944.8	2949.6	2941.2	2944.8
30°	3109.2	3109.2	3114.0	3118.8	3118.8	3118.8	3128.4	3129.6	3122.4	3124.8	3116.4
32.5°	3301.2	3302.4	3307.2	3307.2	3316.8	3318.0	3328.8	3314.4	3328.8	3316.8	3319.2
35°	3526.8	3542.4	3544.8	3556.8	3566.4	3570.0	3570.0	3571.2	3584.4	3574.8	3578.4
37.5°	3658.8	3662.4	3672.0	3678.0	3678.0	3682.8	3686.4	3682.8	3686.4	3685.2	3688.8
40°	3814.8	3811.2	3822.0	3824.4	3819.6	3825.6	3824.4	3820.8	3830.4	3823.2	3828.0
42.5°	4004.4	3984.0	3982.8	3992.4	3982.8	3987.6	3986.4	3978.0	3990.0	3993.6	3990.0
45°	4207.2	4196.4	4174.8	4174.8	4165.2	4161.6	4162.8	4161.6	4162.8	4177.2	4182.0
47.5°	4537.2	4471.2	4434.0	4399.2	4370.4	4369.2	4356.0	4363.2	4372.8	4396.8	4418.4
50°	5090.4	4938.0	4844.4	4758.0	4695.6	4674.0	4648.8	4646.4	4654.8	4682.4	4719.6
52.5°	6076.8	5865.6	5666.4	5481.6	5320.8	5197.2	5136.0	5103.6	5091.6	5119.2	5155.2
55°	7881.6	7483.2	7202.4	7015.2	6615.6	6446.4	6229.2	6129.6	6032.4	6042.0	6103.2
57.5°	10965.6	10750.8	10515.6	10188.0	9943.2	9648.0	9105.6	8803.2	8816.4	8887.2	8666.4
60°	15007.2	14790.0	14692.8	14395.2	14224.8	14106.0	13818.0	13316.4	13138.8	13105.2	12699.6
62.5°	16542.0	16593.6	16670.4	16754.4	16749.6	16801.2	16549.2	16386.0	16180.8	15914.4	15513.6
65°	16141.2	16272.0	16428.0	16653.6	16910.4	17100.0	17259.6	17240.4	17048.4	16693.2	16269.6
67.5°	14784.0	14913.6	15027.6	15330.0	15751.2	16136.4	16477.2	16708.8	16580.4	16286.4	15792.0
70°	12744.0	12837.6	12909.6	13172.4	13634.4	14104.8	14550.0	14938.8	14899.2	14542.8	14148.0
72.5°	9234.0	9460.8	9583.2	9565.2	9850.8	10377.6	10440.0	10772.4	10864.8	10480.8	9852.0
75°	4498.8	4502.4	4360.8	4314.0	4328.4	4419.6	4245.6	4256.4	4196.4	3924.0	3699.6
77.5°	1572.0	1528.8	1425.6	1303.2	1128.0	963.6	796.8	724.8	700.8	630.0	580.8
80°	1354.8	1418.4	1398.0	1297.2	1112.4	886.8	662.4	490.8	418.8	393.6	369.6
82.5°	1538.4	1783.2	1939.2	1930.8	1677.6	1260.0	786.0	451.2	321.6	282.0	259.2
85°	858.0	922.8	940.8	856.8	711.6	486.0	271.2	190.8	162.0	147.6	133.2
87.5°	136.8	124.8	122.4	106.8	100.8	92.4	81.6	76.8	70.8	67.2	67.2
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: P159340

CATALOG NUMBER: VST-E06-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2
2.5°	1740.0	1738.8	1735.2	1731.6	1729.2	1728.0	1726.8	1724.4	1723.2	1722.0	1719.6
5°	1780.8	1778.4	1772.4	1766.4	1764.0	1760.4	1756.8	1754.4	1752.0	1750.8	1746.0
7.5°	1844.4	1842.0	1834.8	1830.0	1828.8	1819.2	1818.0	1814.4	1808.4	1807.2	1800.0
10°	1921.2	1920.0	1914.0	1910.4	1908.0	1903.2	1896.0	1890.0	1884.0	1884.0	1879.2
12.5°	2010.0	2005.2	2008.8	2000.4	1998.0	1993.2	1989.6	1988.4	1981.2	1975.2	1974.0
15°	2114.4	2108.4	2108.4	2106.0	2103.6	2098.8	2097.6	2098.8	2091.6	2094.0	2086.8
17.5°	2244.0	2246.4	2245.2	2245.2	2239.2	2239.2	2229.6	2241.6	2233.2	2239.2	2236.8
20°	2406.0	2407.2	2404.8	2408.4	2410.8	2409.6	2408.4	2407.2	2410.8	2415.6	2412.0
22.5°	2578.8	2578.8	2577.6	2590.8	2576.4	2587.2	2590.8	2583.6	2602.8	2600.4	2604.0
25°	2766.0	2766.0	2775.6	2786.4	2788.8	2780.4	2785.2	2779.2	2791.2	2800.8	2803.2
27.5°	2940.0	2955.6	2962.8	2955.6	2961.6	2974.8	2973.6	2973.6	2982.0	2979.6	3002.4
30°	3118.8	3128.4	3138.0	3133.2	3135.6	3152.4	3153.6	3154.8	3165.6	3181.2	3198.0
32.5°	3322.8	3332.4	3327.6	3343.2	3342.0	3362.4	3366.0	3369.6	3403.2	3397.2	3432.0
35°	3573.6	3583.2	3578.4	3595.2	3592.8	3600.0	3613.2	3627.6	3633.6	3668.4	3696.0
37.5°	3691.2	3691.2	3702.0	3721.2	3728.4	3740.4	3760.8	3778.8	3808.8	3846.0	3889.2
40°	3832.8	3836.4	3850.8	3871.2	3884.4	3912.0	3949.2	3974.4	4020.0	4060.8	4111.2
42.5°	4004.4	4020.0	4036.8	4064.4	4093.2	4136.4	4189.2	4221.6	4281.6	4334.4	4396.8
45°	4204.8	4220.4	4260.0	4310.4	4352.4	4400.4	4443.6	4520.4	4574.4	4629.6	4683.6
47.5°	4447.2	4492.8	4525.2	4585.2	4636.8	4700.4	4754.4	4826.4	4885.2	4952.4	4998.0
50°	4758.0	4814.4	4856.4	4934.4	4984.8	5055.6	5124.0	5178.0	5238.0	5304.0	5341.2
52.5°	5204.4	5262.0	5314.8	5412.0	5474.4	5522.4	5613.6	5680.8	5736.0	5784.0	5824.8
55°	6171.6	6154.8	6301.2	6489.6	6511.2	6685.2	6717.6	6774.0	6876.0	6890.4	7004.4
57.5°	8935.2	8848.8	9061.2	9337.2	9289.2	9201.6	9567.6	9590.4	9538.8	9676.8	9520.8
60°	12759.6	12608.4	12666.0	12741.6	12632.4	12580.8	12598.8	12650.4	12600.0	12544.8	12393.6
62.5°	15313.2	15080.4	14913.6	14773.2	14595.6	14467.2	14323.2	14145.6	14097.6	13896.0	13726.8
65°	15858.0	15495.6	15231.6	14966.4	14721.6	14494.8	14277.6	14125.2	13923.6	13684.8	13508.4
67.5°	15259.2	14810.4	14424.0	14038.8	13761.6	13428.0	13264.8	13016.4	12768.0	12494.4	12332.4
70°	13519.2	13051.2	12565.2	12188.4	11811.6	11398.8	11318.4	11024.4	10881.6	10508.4	10443.6
72.5°	9331.2	9019.2	8802.0	8336.4	8107.2	7896.0	7828.8	7556.4	7585.2	7176.0	7324.8
75°	3318.0	3273.6	3210.0	2947.2	2900.4	2818.8	2797.2	2778.0	2972.4	2702.4	2898.0
77.5°	570.0	566.4	534.0	518.4	548.4	529.2	534.0	524.4	580.8	589.2	576.0
80°	354.0	344.4	333.6	326.4	327.6	320.4	321.6	324.0	327.6	326.4	330.0
82.5°	242.4	234.0	229.2	224.4	231.6	234.0	240.0	246.0	255.6	261.6	268.8
85°	132.0	121.2	121.2	120.0	129.6	136.8	146.4	158.4	175.2	189.6	205.2
87.5°	67.2	64.8	66.0	68.4	76.8	82.8	94.8	105.6	120.0	135.6	150.0
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: P159340

CATALOG NUMBER: VST-E06-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2	1723.2
2.5°	1718.4	1718.4	1717.2	1717.2	1716.0	1714.8	1713.6	1710.0	1696.8	1684.8	1676.4
5°	1744.8	1741.2	1740.0	1736.4	1735.2	1732.8	1729.2	1725.6	1701.6	1680.0	1664.4
7.5°	1798.8	1794.0	1791.6	1788.0	1784.4	1779.6	1774.8	1771.2	1742.4	1717.2	1698.0
10°	1869.6	1867.2	1866.0	1861.2	1861.2	1854.0	1852.8	1844.4	1813.2	1790.4	1773.6
12.5°	1968.0	1963.2	1962.0	1956.0	1958.4	1956.0	1953.6	1948.8	1926.0	1899.6	1876.8
15°	2090.4	2090.4	2084.4	2079.6	2080.8	2078.4	2083.2	2077.2	2062.8	2038.8	2001.6
17.5°	2238.0	2235.6	2238.0	2234.4	2236.8	2239.2	2233.2	2234.4	2227.2	2197.2	2142.0
20°	2409.6	2406.0	2420.4	2414.4	2427.6	2415.6	2418.0	2421.6	2421.6	2382.0	2307.6
22.5°	2606.4	2604.0	2604.0	2616.0	2620.8	2622.0	2626.8	2630.4	2640.0	2589.6	2470.8
25°	2803.2	2811.6	2812.8	2828.4	2835.6	2835.6	2839.2	2852.4	2881.2	2811.6	2658.0
27.5°	3003.6	3024.0	3028.8	3039.6	3050.4	3061.2	3069.6	3079.2	3126.0	3050.4	2850.0
30°	3204.0	3226.8	3243.6	3255.6	3268.8	3295.2	3300.0	3319.2	3397.2	3304.8	3032.4
32.5°	3439.2	3471.6	3493.2	3508.8	3529.2	3554.4	3568.8	3592.8	3668.4	3517.2	3165.6
35°	3720.0	3739.2	3770.4	3796.8	3808.8	3852.0	3874.8	3880.8	3938.4	3700.8	3264.0
37.5°	3914.4	3946.8	4000.8	4038.0	4059.6	4083.6	4122.0	4147.2	4202.4	3867.6	3313.2
40°	4161.6	4210.8	4254.0	4309.2	4344.0	4362.0	4400.4	4420.8	4428.0	4010.4	3297.6
42.5°	4462.8	4507.2	4564.8	4609.2	4635.6	4656.0	4687.2	4695.6	4602.0	4077.6	3213.6
45°	4746.0	4814.4	4863.6	4896.0	4915.2	4926.0	4945.2	4946.4	4746.0	4044.0	3069.6
47.5°	5050.8	5100.0	5145.6	5168.4	5166.0	5168.4	5161.2	5156.4	4818.0	3927.6	2884.8
50°	5388.0	5420.4	5439.6	5450.4	5456.4	5433.6	5401.2	5379.6	4824.0	3762.0	2697.6
52.5°	5840.4	5881.2	5877.6	5876.4	5828.4	5806.8	5720.4	5676.0	4789.2	3567.6	2486.4
55°	6986.4	6946.8	6868.8	6907.2	6711.6	6609.6	6475.2	6350.4	4834.8	3382.8	2241.6
57.5°	9583.2	9598.8	9376.8	9258.0	8928.0	8515.2	8182.8	7860.0	5245.2	3270.0	1922.4
60°	12292.8	12088.8	11806.8	11377.2	10952.4	10339.2	9747.6	9188.4	5654.4	3152.4	1544.4
62.5°	13476.0	13185.6	12759.6	12204.0	11536.8	10786.8	10050.0	9368.4	5456.4	2772.0	1123.2
65°	13236.0	12792.0	12321.6	11671.2	10860.0	10038.0	9177.6	8481.6	4564.8	2067.6	692.4
67.5°	11980.8	11604.0	11107.2	10335.6	9468.0	8612.4	7824.0	7044.0	3391.2	1288.8	387.6
70°	10112.4	9744.0	9240.0	8450.4	7584.0	6765.6	5930.4	5294.4	2161.2	621.6	279.6
72.5°	7015.2	6716.4	6360.0	5797.2	5037.6	4293.6	3728.4	3240.0	1197.6	330.0	255.6
75°	2848.8	2850.0	2785.2	2547.6	2152.8	1856.4	1582.8	1342.8	500.4	280.8	252.0
77.5°	645.6	656.4	717.6	680.4	613.2	573.6	513.6	453.6	304.8	289.2	254.4
80°	326.4	327.6	324.0	325.2	321.6	322.8	318.0	314.4	285.6	297.6	254.4
82.5°	272.4	278.4	277.2	277.2	278.4	278.4	278.4	277.2	296.4	313.2	246.0
85°	216.0	228.0	237.6	247.2	258.0	265.2	268.8	272.4	288.0	308.4	223.2
87.5°	163.2	177.6	189.6	199.2	216.0	216.0	228.0	236.4	236.4	241.2	117.6
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: P159340

CATALOG NUMBER: VST-E06-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1723.2	1723.2	1723.2	1723.2	1723.2
2.5°	1664.4	1659.6	1654.8	1652.4	1647.6
5°	1652.4	1642.8	1636.8	1636.8	1632.0
7.5°	1687.2	1683.6	1675.2	1670.4	1675.2
10°	1761.6	1755.6	1746.0	1738.8	1742.4
12.5°	1861.2	1837.2	1818.0	1809.6	1803.6
15°	1964.4	1916.4	1878.0	1856.4	1850.4
17.5°	2074.8	1990.8	1933.2	1900.8	1894.8
20°	2187.6	2083.2	2001.6	1959.6	1958.4
22.5°	2323.2	2184.0	2079.6	2024.4	2020.8
25°	2466.0	2274.0	2136.0	2065.2	2058.0
27.5°	2589.6	2346.0	2170.8	2086.8	2079.6
30°	2692.8	2400.0	2199.6	2102.4	2092.8
32.5°	2767.2	2431.2	2211.6	2107.2	2096.4
35°	2791.2	2419.2	2178.0	2064.0	2052.0
37.5°	2758.8	2341.2	2084.4	1958.4	1944.0
40°	2661.6	2204.4	1932.0	1802.4	1784.4
42.5°	2512.8	2036.4	1748.4	1624.8	1602.0
45°	2329.2	1846.8	1566.0	1428.0	1417.2
47.5°	2137.2	1647.6	1360.8	1236.0	1222.8
50°	1929.6	1417.2	1160.4	1024.8	1024.8
52.5°	1682.4	1192.8	927.6	825.6	817.2
55°	1398.0	939.6	739.2	661.2	650.4
57.5°	1092.0	722.4	590.4	544.8	532.8
60°	802.8	542.4	475.2	450.0	445.2
62.5°	544.8	412.8	382.8	372.0	370.8
65°	368.4	321.6	313.2	309.6	310.8
67.5°	283.2	267.6	264.0	262.8	262.8
70°	246.0	236.4	232.8	234.0	232.8
72.5°	231.6	218.4	219.6	222.0	220.8
75°	226.8	210.0	214.8	216.0	211.2
77.5°	223.2	200.4	212.4	216.0	202.8
80°	216.0	192.0	220.8	222.0	199.2
82.5°	198.0	170.4	220.8	204.0	180.0
85°	168.0	129.6	249.6	177.6	133.2
87.5°	106.8	76.8	169.2	121.2	80.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)