

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: P159355

Luminaire Tested: **VST-F07-LED-E-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159355
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-F07-LED-E-U-T2
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (49) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17837.1 lumens
Efficiency: N/A
Efficacy: 98.8 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

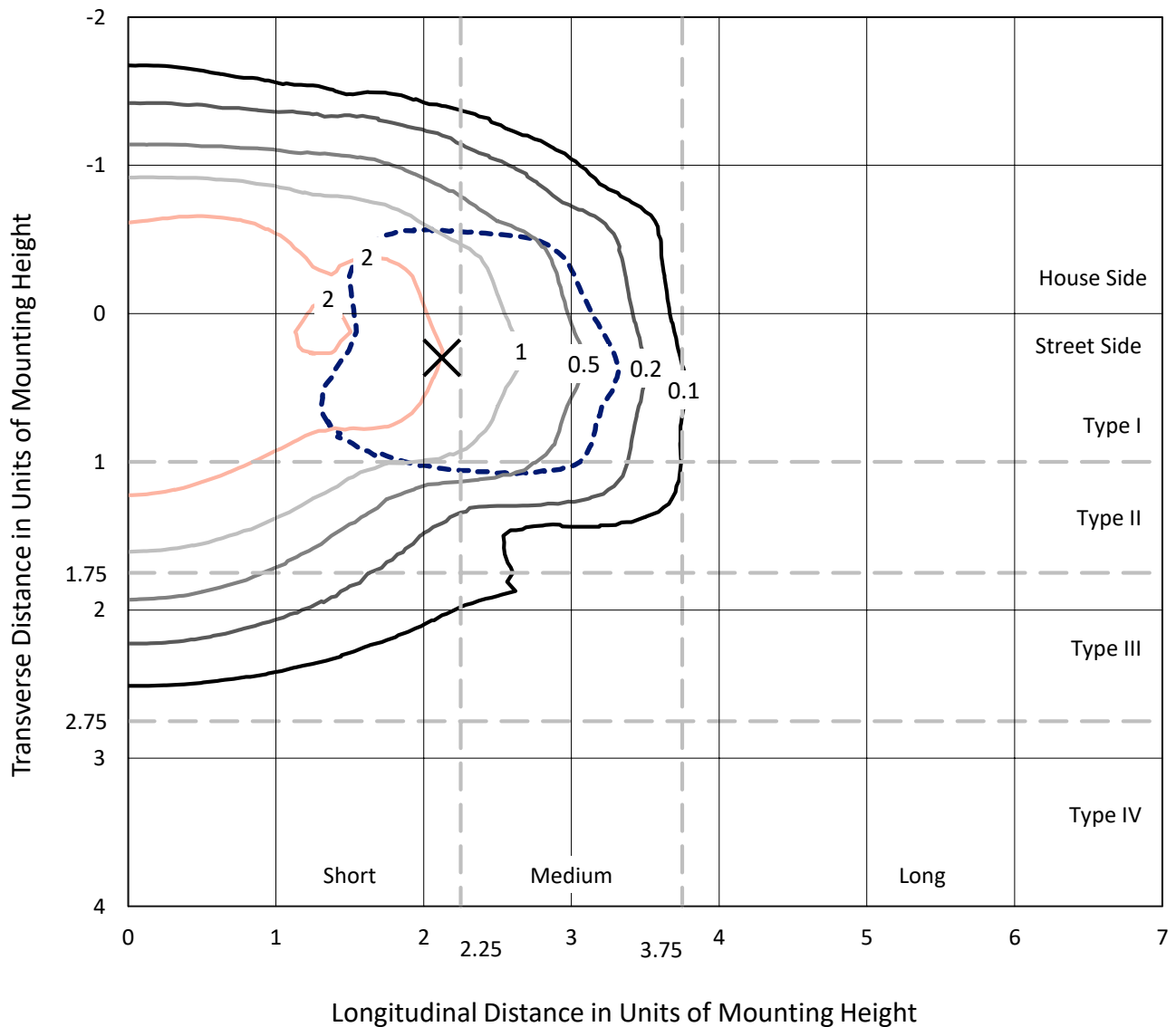
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P159355
 CATALOG NUMBER: VST-F07-LED-E-U-T2

Iso-Footcandle Lines of Horizontal Illumination

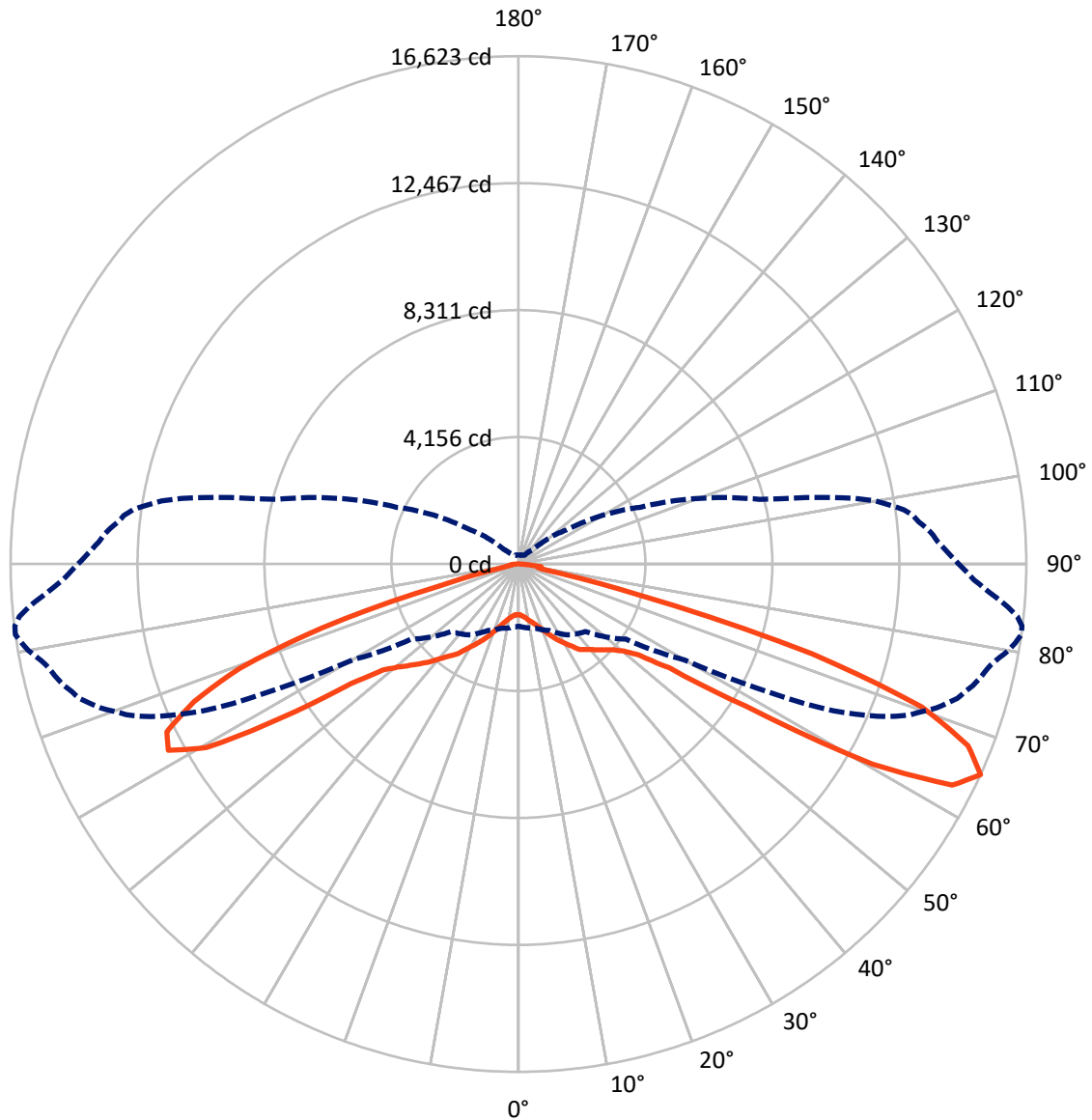
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159355
CATALOG NUMBER: VST-F07-LED-E-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



REPORT NUMBER: P159355

CATALOG NUMBER: VST-F07-LED-E-U-T2

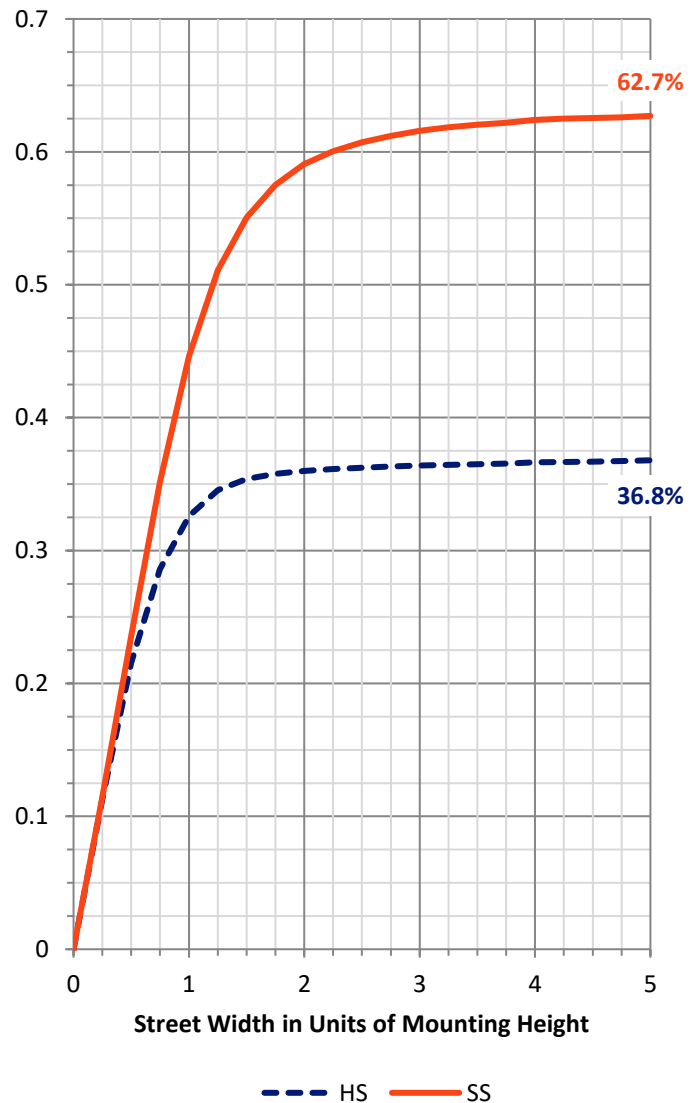
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6641.3	0.0	6641.3
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	11195.8	0.0	11195.8
	% Fixture	62.8	0.0	62.8
Total	Lumens	17837.1	0.0	17837.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	0.9
10°-20°	590.4	3.3
20°-30°	1169.8	6.6
30°-40°	2005.2	11.2
40°-50°	3012.4	16.9
50°-60°	4185.2	23.5
60°-70°	4774.7	26.8
70°-80°	1644.8	9.2
80°-90°	286.7	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°	17837.1	100.0
0°-180°	17837.1	100.0

Coefficient of Utilization



REPORT NUMBER: P159355

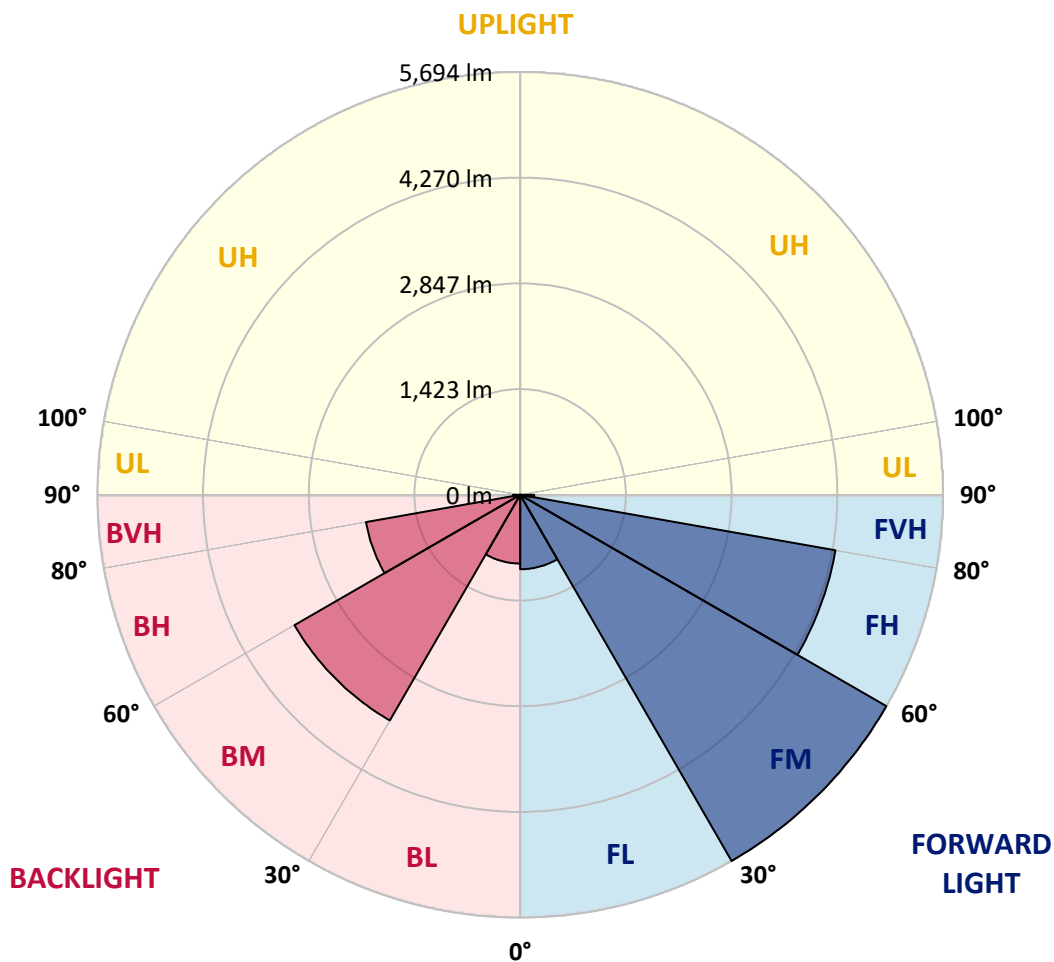
CATALOG NUMBER: VST-F07-LED-E-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1002.1	5.6			
FM	(30°-60°)	5694.0	31.9			
FH	(60°-80°)	4311.0	24.2			G2/5000
FVH	(80°-90°)	188.7	1.1			G2/225
BL	(0°-30°)	926.1	5.2	B2/1000		
BM	(30°-60°)	3508.8	19.7	B3/5000		
BH	(60°-80°)	2108.4	11.8	B3/2500		G3/2500
BVH	(80°-90°)	98.0	0.5			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: P159355

CATALOG NUMBER: VST-F07-LED-E-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	1749.8	1750.9	1749.8	1746.3	1745.2	1734.8	1723.2	1717.4	1716.3	1711.6	1712.8
5°	1858.4	1855.0	1850.3	1844.6	1838.8	1821.4	1801.8	1791.4	1787.9	1784.5	1779.8
7.5°	1955.5	1957.8	1955.5	1947.4	1932.4	1910.4	1885.0	1868.8	1867.7	1864.2	1860.7
10°	2080.3	2086.1	2072.2	2058.4	2037.6	2004.0	1975.2	1954.3	1950.9	1946.3	1943.9
12.5°	2215.5	2216.7	2212.1	2180.9	2146.2	2100.0	2058.4	2037.6	2032.9	2027.2	2024.8
15°	2360.0	2361.2	2335.7	2305.7	2252.5	2197.1	2139.3	2116.2	2110.4	2111.5	2102.3
17.5°	2474.4	2476.7	2452.5	2414.3	2350.8	2284.9	2222.5	2204.0	2200.5	2201.7	2197.1
20°	2524.1	2527.6	2512.6	2483.7	2423.6	2365.8	2320.7	2309.2	2308.0	2305.7	2314.9
22.5°	2521.8	2523.0	2517.2	2505.6	2469.8	2436.3	2430.5	2437.4	2436.3	2438.6	2446.7
25°	2501.0	2504.5	2503.3	2507.9	2502.2	2514.9	2541.5	2565.7	2569.2	2573.8	2588.8
27.5°	2554.2	2561.1	2553.0	2557.6	2566.9	2609.6	2664.0	2701.0	2707.9	2720.6	2733.3
30°	2762.2	2753.0	2742.6	2731.0	2736.8	2763.4	2824.6	2857.0	2860.4	2869.7	2887.0
32.5°	3070.8	3060.4	3051.1	3032.6	3028.0	3016.5	3037.3	3045.4	3044.2	3053.5	3058.1
35°	3418.7	3419.8	3417.5	3431.4	3442.9	3384.0	3311.2	3291.5	3299.6	3289.2	3291.5
37.5°	3715.7	3719.2	3780.4	3856.7	3878.6	3841.7	3682.2	3603.6	3577.0	3573.5	3547.0
40°	4045.1	4045.1	4137.5	4231.1	4292.4	4338.6	4149.1	4010.4	3953.8	3937.6	3871.7
42.5°	4406.8	4388.3	4472.7	4575.6	4688.8	4794.0	4695.8	4539.7	4458.8	4429.9	4314.4
45°	4703.8	4692.3	4733.9	4829.8	5013.6	5219.3	5233.2	5153.4	5104.9	5044.8	4938.5
47.5°	4886.4	4880.7	4904.9	5009.0	5238.9	5571.8	5757.9	5798.3	5769.4	5723.2	5620.3
50°	4958.1	4950.0	4967.3	5082.9	5340.7	5779.8	6191.3	6382.0	6395.8	6406.2	6373.9
52.5°	4932.7	4922.3	4958.1	5055.2	5323.3	5852.6	6529.9	6896.3	6957.5	7009.5	7115.9
55°	4688.8	4672.6	4769.7	4952.3	5248.2	5826.1	6777.2	7390.9	7520.4	7659.1	7894.8
57.5°	4315.5	4301.6	4441.5	4692.3	5115.3	5753.2	6943.7	8016.2	8307.4	8557.1	9226.2
60°	3956.1	3944.5	4026.6	4269.3	4684.2	5398.4	6737.9	8226.5	8715.4	9254.0	10475.6
62.5°	3313.5	3282.3	3392.1	3596.6	3859.0	4465.8	5839.9	7758.4	8512.0	9303.7	10959.8
65°	2036.4	2081.5	2176.2	2402.8	2832.7	3121.6	4288.9	6276.8	7270.7	8263.5	10412.0
67.5°	1293.3	1306.0	1376.5	1533.7	1866.5	2156.6	2599.2	3938.7	4705.0	5681.6	8174.5
70°	1108.3	1116.4	1176.5	1340.7	1570.6	1927.8	1967.1	2057.2	2332.3	2954.1	4805.5
72.5°	873.7	887.6	935.0	1077.1	1354.5	1738.2	2428.2	1626.1	1570.6	1622.7	2345.0
75°	520.1	536.3	575.6	653.0	870.3	1329.1	2543.8	1891.9	1763.7	1663.1	1618.0
77.5°	275.1	263.5	290.1	335.2	447.3	708.5	1911.6	2318.4	2228.3	2108.1	1852.6
80°	136.4	141.0	149.1	158.3	199.9	287.8	955.8	2398.1	2658.2	2773.8	2547.2
82.5°	54.3	61.3	86.7	92.5	109.8	122.5	307.4	1329.1	1903.5	2581.9	3371.3
85°	27.7	26.6	46.2	55.5	64.7	57.8	108.6	495.8	892.2	1390.3	2252.5
87.5°	3.5	4.6	10.4	13.9	19.6	18.5	31.2	107.5	171.0	242.7	340.9
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: P159355

CATALOG NUMBER: VST-F07-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	1707.0	1705.9	1705.9	1701.2	1701.2	1702.4	1698.9	1696.6	1696.6	1697.8	1693.2
5°	1776.4	1772.9	1772.9	1768.3	1762.5	1762.5	1757.9	1756.7	1754.4	1749.8	1746.3
7.5°	1857.3	1853.8	1848.0	1844.6	1842.2	1838.8	1833.0	1830.7	1826.1	1821.4	1816.8
10°	1940.5	1935.9	1933.5	1927.8	1925.5	1918.5	1915.1	1916.2	1907.0	1903.5	1904.7
12.5°	2023.7	2019.1	2011.0	2008.7	2007.5	2000.6	1997.1	1994.8	1987.9	1986.7	1983.2
15°	2097.7	2100.0	2096.5	2090.7	2086.1	2084.9	2081.5	2079.2	2074.5	2069.9	2065.3
17.5°	2193.6	2197.1	2192.4	2184.3	2184.3	2183.2	2184.3	2183.2	2175.1	2178.6	2176.2
20°	2316.1	2318.4	2306.8	2310.3	2312.6	2311.5	2314.9	2318.4	2316.1	2316.1	2319.6
22.5°	2457.1	2460.6	2453.6	2458.2	2465.2	2459.4	2469.8	2468.6	2471.0	2474.4	2475.6
25°	2601.6	2608.5	2602.7	2615.4	2610.8	2615.4	2628.1	2624.7	2630.5	2639.7	2643.2
27.5°	2746.0	2750.6	2751.8	2759.9	2768.0	2774.9	2791.1	2791.1	2795.7	2811.9	2811.9
30°	2897.4	2902.1	2906.7	2918.2	2922.9	2935.6	2951.7	2956.4	2954.1	2977.2	2984.1
32.5°	3071.9	3076.6	3084.7	3098.5	3104.3	3117.0	3117.0	3129.7	3139.0	3158.6	3159.8
35°	3304.2	3307.7	3304.2	3303.1	3311.2	3328.5	3329.7	3348.2	3356.3	3375.9	3381.7
37.5°	3536.5	3535.4	3520.4	3504.2	3505.3	3498.4	3493.8	3501.9	3505.3	3506.5	3519.2
40°	3849.8	3819.7	3796.6	3756.1	3737.6	3708.8	3691.4	3690.3	3671.8	3669.5	3672.9
42.5°	4260.0	4225.4	4171.0	4102.9	4050.9	3997.7	3958.4	3935.3	3894.8	3874.0	3856.7
45°	4833.3	4747.8	4683.0	4602.1	4501.6	4409.1	4312.0	4268.1	4190.7	4143.3	4090.1
47.5°	5533.7	5449.3	5349.9	5266.7	5134.9	5006.6	4873.7	4757.0	4621.8	4514.3	4426.5
50°	6294.1	6244.4	6172.8	6095.3	5925.5	5841.1	5673.5	5515.2	5369.5	5177.7	5010.1
52.5°	7074.3	7103.1	7087.0	7059.2	6951.7	6919.4	6774.9	6581.9	6435.1	6303.4	6012.1
55°	8035.8	8070.5	8139.8	8180.3	8167.6	8249.6	8213.8	8063.6	8004.6	7943.4	7736.5
57.5°	9507.1	9754.4	10019.1	10251.4	10305.7	10596.9	10534.5	10684.8	10791.1	10714.8	10647.8
60°	11075.4	11574.7	12024.3	12494.6	12877.2	13163.8	13542.9	13798.3	13959.0	14247.9	14271.0
62.5°	11707.6	12386.0	12956.9	13502.5	13956.7	14354.2	14696.3	15048.8	15337.8	15599.0	15787.3
65°	11360.9	12069.3	12761.6	13315.2	13752.1	14094.2	14466.3	14746.0	15030.3	15197.9	15395.5
67.5°	9444.7	10383.1	11234.9	11859.0	12456.5	12804.4	13244.7	13519.8	13821.4	13998.3	14125.4
70°	6157.8	7379.4	8543.2	9489.7	10296.4	10702.1	11233.7	11609.4	11972.3	11981.5	12193.0
72.5°	3322.7	4344.4	5318.7	6286.0	7206.0	7745.7	8270.4	8727.0	9087.5	8933.8	9144.2
75°	1850.3	2328.8	2861.6	3442.9	4003.5	4312.0	4703.8	4706.2	4892.2	4599.8	4673.8
77.5°	1779.8	1757.9	1766.0	1782.1	1809.9	1750.9	1749.8	1714.0	1658.5	1557.9	1575.3
80°	2338.1	2058.4	1857.3	1541.8	1241.3	1012.4	948.9	963.9	1009.0	1099.1	1213.5
82.5°	3380.5	3144.8	2807.3	2310.3	1813.3	1398.4	1148.8	1019.4	1013.6	1103.7	1277.1
85°	2461.7	2603.9	2581.9	2155.4	1777.5	1443.5	1050.6	887.6	735.0	699.2	760.5
87.5°	362.9	300.5	338.6	283.2	205.7	159.5	139.8	112.1	107.5	109.8	120.2
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: P159355

CATALOG NUMBER: VST-F07-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	1694.3	1689.7	1685.1	1688.5	1685.1	1683.9	1680.4	1678.1	1677.0	1677.0	1677.0
5°	1746.3	1740.5	1737.1	1735.9	1732.4	1729.0	1727.8	1722.0	1720.9	1720.9	1717.4
7.5°	1816.8	1812.2	1806.4	1802.9	1800.6	1794.9	1789.1	1787.9	1786.8	1782.1	1778.7
10°	1898.9	1891.9	1885.0	1885.0	1880.4	1879.2	1873.4	1865.4	1864.2	1857.3	1855.0
12.5°	1976.3	1974.0	1965.9	1963.6	1960.1	1956.7	1953.2	1949.7	1946.3	1940.5	1942.8
15°	2068.8	2063.0	2056.1	2057.2	2056.1	2051.4	2046.8	2043.3	2041.0	2038.7	2038.7
17.5°	2179.7	2177.4	2176.2	2170.5	2165.8	2169.3	2169.3	2169.3	2163.5	2164.7	2165.8
20°	2320.7	2323.0	2320.7	2316.1	2314.9	2318.4	2310.3	2323.0	2316.1	2311.5	2313.8
22.5°	2476.7	2484.8	2475.6	2476.7	2482.5	2484.8	2476.7	2487.1	2483.7	2476.7	2482.5
25°	2646.6	2652.4	2647.8	2646.6	2650.1	2658.2	2657.0	2655.9	2664.0	2657.0	2660.5
27.5°	2821.1	2824.6	2826.9	2830.4	2832.7	2831.6	2836.2	2836.2	2840.8	2832.7	2836.2
30°	2994.5	2994.5	2999.1	3003.8	3003.8	3003.8	3013.0	3014.2	3007.2	3009.5	3001.4
32.5°	3179.4	3180.6	3185.2	3185.2	3194.5	3195.6	3206.0	3192.1	3206.0	3194.5	3196.8
35°	3396.7	3411.7	3414.0	3425.6	3434.8	3438.3	3438.3	3439.5	3452.2	3442.9	3446.4
37.5°	3523.8	3527.3	3536.5	3542.3	3542.3	3547.0	3550.4	3547.0	3550.4	3549.3	3552.7
40°	3674.1	3670.6	3681.0	3683.3	3678.7	3684.5	3683.3	3679.9	3689.1	3682.2	3686.8
42.5°	3856.7	3837.0	3835.9	3845.1	3835.9	3840.5	3839.4	3831.3	3842.8	3846.3	3842.8
45°	4052.0	4041.6	4020.8	4020.8	4011.6	4008.1	4009.2	4008.1	4009.2	4023.1	4027.7
47.5°	4369.8	4306.3	4270.4	4236.9	4209.2	4208.0	4195.3	4202.3	4211.5	4234.6	4255.4
50°	4902.6	4755.8	4665.7	4582.5	4522.4	4501.6	4477.3	4475.0	4483.1	4509.7	4545.5
52.5°	5852.6	5649.2	5457.4	5279.4	5124.5	5005.5	4946.5	4915.3	4903.8	4930.4	4965.0
55°	7590.9	7207.2	6936.7	6756.4	6371.6	6208.6	5999.4	5903.5	5809.9	5819.1	5878.1
57.5°	10561.1	10354.2	10127.7	9812.2	9576.4	9292.1	8769.7	8478.5	8491.2	8559.4	8346.7
60°	14453.6	14244.4	14150.8	13864.2	13700.1	13585.7	13308.3	12825.2	12654.1	12621.8	12231.1
62.5°	15931.8	15981.5	16055.5	16136.4	16131.7	16181.4	15938.7	15781.6	15583.9	15327.4	14941.3
65°	15545.8	15671.8	15822.0	16039.3	16286.6	16469.2	16622.9	16604.4	16419.5	16077.4	15669.5
67.5°	14238.7	14363.5	14473.3	14764.5	15170.2	15541.2	15869.4	16092.5	15968.8	15685.6	15209.5
70°	12273.9	12364.1	12433.4	12686.5	13131.5	13584.5	14013.3	14387.7	14349.6	14006.4	13626.1
72.5°	8893.4	9111.8	9229.7	9212.4	9487.4	9994.8	10054.9	10375.0	10464.0	10094.2	9488.6
75°	4332.9	4336.3	4199.9	4154.9	4168.7	4256.6	4089.0	4099.4	4041.6	3779.3	3563.1
77.5°	1514.0	1472.4	1373.0	1255.1	1086.4	928.1	767.4	698.1	674.9	606.8	559.4
80°	1304.8	1366.1	1346.4	1249.3	1071.4	854.1	638.0	472.7	403.4	379.1	356.0
82.5°	1481.7	1717.4	1867.7	1859.6	1615.7	1213.5	757.0	434.6	309.7	271.6	249.6
85°	826.4	888.8	906.1	825.2	685.4	468.1	261.2	183.8	156.0	142.2	128.3
87.5°	131.8	120.2	117.9	102.9	97.1	89.0	78.6	74.0	68.2	64.7	64.7
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: P159355

CATALOG NUMBER: VST-F07-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	1675.8	1674.7	1671.2	1667.7	1665.4	1664.3	1663.1	1660.8	1659.6	1658.5	1656.2
5°	1715.1	1712.8	1707.0	1701.2	1698.9	1695.5	1692.0	1689.7	1687.4	1686.2	1681.6
7.5°	1776.4	1774.1	1767.1	1762.5	1761.3	1752.1	1750.9	1747.5	1741.7	1740.5	1733.6
10°	1850.3	1849.2	1843.4	1839.9	1837.6	1833.0	1826.1	1820.3	1814.5	1814.5	1809.9
12.5°	1935.9	1931.2	1934.7	1926.6	1924.3	1919.7	1916.2	1915.1	1908.1	1902.3	1901.2
15°	2036.4	2030.6	2030.6	2028.3	2026.0	2021.4	2020.2	2021.4	2014.4	2016.8	2009.8
17.5°	2161.2	2163.5	2162.4	2162.4	2156.6	2156.6	2147.4	2158.9	2150.8	2156.6	2154.3
20°	2317.2	2318.4	2316.1	2319.6	2321.9	2320.7	2319.6	2318.4	2321.9	2326.5	2323.0
22.5°	2483.7	2483.7	2482.5	2495.2	2481.4	2491.8	2495.2	2488.3	2506.8	2504.5	2507.9
25°	2664.0	2664.0	2673.2	2683.6	2685.9	2677.8	2682.5	2676.7	2688.2	2697.5	2699.8
27.5°	2831.6	2846.6	2853.5	2846.6	2852.4	2865.1	2863.9	2863.9	2872.0	2869.7	2891.6
30°	3003.8	3013.0	3022.2	3017.6	3019.9	3036.1	3037.3	3038.4	3048.8	3063.9	3080.0
32.5°	3200.2	3209.5	3204.9	3219.9	3218.7	3238.4	3241.8	3245.3	3277.7	3271.9	3305.4
35°	3441.8	3451.0	3446.4	3462.6	3460.3	3467.2	3479.9	3493.8	3499.6	3533.1	3559.7
37.5°	3555.0	3555.0	3565.4	3583.9	3590.9	3602.4	3622.1	3639.4	3668.3	3704.1	3745.7
40°	3691.4	3694.9	3708.8	3728.4	3741.1	3767.7	3803.5	3827.8	3871.7	3911.0	3959.5
42.5°	3856.7	3871.7	3887.9	3914.5	3942.2	3983.8	4034.7	4065.9	4123.7	4174.5	4234.6
45°	4049.7	4064.7	4102.9	4151.4	4191.9	4238.1	4279.7	4353.7	4405.7	4458.8	4510.8
47.5°	4283.2	4327.1	4358.3	4416.1	4465.8	4527.0	4579.0	4648.4	4705.0	4769.7	4813.6
50°	4582.5	4636.8	4677.3	4752.4	4800.9	4869.1	4935.0	4987.0	5044.8	5108.3	5144.2
52.5°	5012.4	5067.9	5118.7	5212.4	5272.5	5318.7	5406.5	5471.2	5524.4	5570.6	5609.9
55°	5943.9	5927.8	6068.8	6250.2	6271.0	6438.6	6469.8	6524.1	6622.4	6636.2	6746.0
57.5°	8605.6	8522.4	8727.0	8992.8	8946.5	8862.2	9214.7	9236.6	9186.9	9319.8	9169.6
60°	12288.9	12143.3	12198.8	12271.6	12166.4	12116.7	12134.1	12183.8	12135.2	12082.1	11936.4
62.5°	14748.3	14524.1	14363.5	14228.3	14057.2	13933.5	13794.9	13623.8	13577.6	13383.4	13220.5
65°	15273.0	14924.0	14669.7	14414.3	14178.6	13960.1	13750.9	13604.2	13410.0	13180.0	13010.1
67.5°	14696.3	14264.1	13891.9	13520.9	13254.0	12932.7	12775.5	12536.3	12297.0	12033.5	11877.5
70°	13020.5	12569.8	12101.7	11738.8	11375.9	10978.3	10900.9	10617.7	10480.2	10120.8	10058.4
72.5°	8987.0	8686.5	8477.3	8028.9	7808.1	7604.7	7540.0	7277.7	7305.4	6911.3	7054.6
75°	3195.6	3152.8	3091.6	2838.5	2793.4	2714.8	2694.0	2675.5	2862.8	2602.7	2791.1
77.5°	549.0	545.5	514.3	499.3	528.2	509.7	514.3	505.1	559.4	567.5	554.8
80°	340.9	331.7	321.3	314.4	315.5	308.6	309.7	312.0	315.5	314.4	317.8
82.5°	233.5	225.4	220.7	216.1	223.1	225.4	231.1	236.9	246.2	252.0	258.9
85°	127.1	116.7	116.7	115.6	124.8	131.8	141.0	152.6	168.7	182.6	197.6
87.5°	64.7	62.4	63.6	65.9	74.0	79.7	91.3	101.7	115.6	130.6	144.5
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: P159355

CATALOG NUMBER: VST-F07-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	1655.0	1655.0	1653.9	1653.9	1652.7	1651.5	1650.4	1646.9	1634.2	1622.7	1614.6
5°	1680.4	1677.0	1675.8	1672.3	1671.2	1668.9	1665.4	1661.9	1638.8	1618.0	1603.0
7.5°	1732.4	1727.8	1725.5	1722.0	1718.6	1714.0	1709.3	1705.9	1678.1	1653.9	1635.4
10°	1800.6	1798.3	1797.2	1792.5	1792.5	1785.6	1784.5	1776.4	1746.3	1724.4	1708.2
12.5°	1895.4	1890.8	1889.6	1883.8	1886.2	1883.8	1881.5	1876.9	1855.0	1829.5	1807.6
15°	2013.3	2013.3	2007.5	2002.9	2004.0	2001.7	2006.4	2000.6	1986.7	1963.6	1927.8
17.5°	2155.4	2153.1	2155.4	2152.0	2154.3	2156.6	2150.8	2152.0	2145.0	2116.2	2063.0
20°	2320.7	2317.2	2331.1	2325.3	2338.1	2326.5	2328.8	2332.3	2332.3	2294.1	2222.5
22.5°	2510.3	2507.9	2507.9	2519.5	2524.1	2525.3	2529.9	2533.4	2542.6	2494.1	2379.7
25°	2699.8	2707.9	2709.0	2724.1	2731.0	2731.0	2734.5	2747.2	2774.9	2707.9	2560.0
27.5°	2892.8	2912.5	2917.1	2927.5	2937.9	2948.3	2956.4	2965.6	3010.7	2937.9	2744.9
30°	3085.8	3107.8	3124.0	3135.5	3148.2	3173.6	3178.3	3196.8	3271.9	3182.9	2920.5
32.5°	3312.3	3343.5	3364.3	3379.4	3399.0	3423.3	3437.2	3460.3	3533.1	3387.5	3048.8
35°	3582.8	3601.3	3631.3	3656.7	3668.3	3709.9	3731.9	3737.6	3793.1	3564.3	3143.6
37.5°	3770.0	3801.2	3853.2	3889.0	3909.9	3933.0	3969.9	3994.2	4047.4	3724.9	3191.0
40°	4008.1	4055.5	4097.1	4150.2	4183.8	4201.1	4238.1	4257.7	4264.7	3862.5	3176.0
42.5°	4298.2	4340.9	4396.4	4439.2	4464.6	4484.3	4514.3	4522.4	4432.2	3927.2	3095.1
45°	4570.9	4636.8	4684.2	4715.4	4733.9	4744.3	4762.8	4763.9	4570.9	3894.8	2956.4
47.5°	4864.5	4911.9	4955.8	4977.8	4975.4	4977.8	4970.8	4966.2	4640.3	3782.7	2778.4
50°	5189.2	5220.5	5238.9	5249.3	5255.1	5233.2	5202.0	5181.2	4646.1	3623.2	2598.1
52.5°	5625.0	5664.3	5660.8	5659.6	5613.4	5592.6	5509.4	5466.6	4612.5	3436.0	2394.7
55°	6728.7	6690.5	6615.4	6652.4	6464.0	6365.8	6236.3	6116.1	4656.5	3258.0	2158.9
57.5°	9229.7	9244.7	9030.9	8916.5	8598.7	8201.1	7881.0	7570.1	5051.7	3149.4	1851.5
60°	11839.3	11642.9	11371.3	10957.5	10548.4	9957.8	9388.0	8849.5	5445.8	3036.1	1487.4
62.5°	12978.9	12699.2	12288.9	11753.8	11111.2	10388.9	9679.3	9022.8	5255.1	2669.7	1081.8
65°	12747.8	12320.1	11867.1	11240.7	10459.4	9667.7	8839.1	8168.7	4396.4	1991.3	666.9
67.5°	11538.9	11176.0	10697.5	9954.3	9118.7	8294.7	7535.4	6784.2	3266.1	1241.3	373.3
70°	9739.4	9384.6	8899.2	8138.7	7304.2	6516.0	5711.6	5099.1	2081.5	598.7	269.3
72.5°	6756.4	6468.6	6125.4	5583.4	4851.8	4135.2	3590.9	3120.5	1153.4	317.8	246.2
75°	2743.7	2744.9	2682.5	2453.6	2073.4	1787.9	1524.4	1293.3	481.9	270.4	242.7
77.5°	621.8	632.2	691.1	655.3	590.6	552.4	494.7	436.9	293.6	278.5	245.0
80°	314.4	315.5	312.0	313.2	309.7	310.9	306.3	302.8	275.1	286.6	245.0
82.5°	262.4	268.1	267.0	267.0	268.1	268.1	268.1	267.0	285.5	301.6	236.9
85°	208.0	219.6	228.8	238.1	248.5	255.4	258.9	262.4	277.4	297.0	215.0
87.5°	157.2	171.0	182.6	191.9	208.0	208.0	219.6	227.7	227.7	232.3	113.3
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: P159355

CATALOG NUMBER: VST-F07-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	1603.0	1598.4	1593.8	1591.4	1586.8
5°	1591.4	1582.2	1576.4	1576.4	1571.8
7.5°	1625.0	1621.5	1613.4	1608.8	1613.4
10°	1696.6	1690.8	1681.6	1674.7	1678.1
12.5°	1792.5	1769.4	1750.9	1742.8	1737.1
15°	1891.9	1845.7	1808.7	1787.9	1782.1
17.5°	1998.3	1917.4	1861.9	1830.7	1824.9
20°	2106.9	2006.4	1927.8	1887.3	1886.2
22.5°	2237.5	2103.4	2002.9	1949.7	1946.3
25°	2375.0	2190.1	2057.2	1989.0	1982.1
27.5°	2494.1	2259.5	2090.7	2009.8	2002.9
30°	2593.5	2311.5	2118.5	2024.8	2015.6
32.5°	2665.1	2341.5	2130.0	2029.5	2019.1
35°	2688.2	2330.0	2097.7	1987.9	1976.3
37.5°	2657.0	2254.8	2007.5	1886.2	1872.3
40°	2563.4	2123.1	1860.7	1735.9	1718.6
42.5°	2420.1	1961.3	1683.9	1564.9	1542.9
45°	2243.3	1778.7	1508.2	1375.3	1364.9
47.5°	2058.4	1586.8	1310.6	1190.4	1177.7
50°	1858.4	1364.9	1117.6	987.0	987.0
52.5°	1620.3	1148.8	893.4	795.1	787.1
55°	1346.4	904.9	711.9	636.8	626.4
57.5°	1051.7	695.8	568.6	524.7	513.1
60°	773.2	522.4	457.7	433.4	428.8
62.5°	524.7	397.6	368.7	358.3	357.1
65°	354.8	309.7	301.6	298.2	299.3
67.5°	272.8	257.7	254.3	253.1	253.1
70°	236.9	227.7	224.2	225.4	224.2
72.5°	223.1	210.3	211.5	213.8	212.7
75°	218.4	202.3	206.9	208.0	203.4
77.5°	215.0	193.0	204.6	208.0	195.3
80°	208.0	184.9	212.7	213.8	191.9
82.5°	190.7	164.1	212.7	196.5	173.4
85°	161.8	124.8	240.4	171.0	128.3
87.5°	102.9	74.0	163.0	116.7	77.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)