

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: P159356

Luminaire Tested: **VST-F07-LED-E-U-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159356
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-T2-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (49) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18302.8 lumens
Efficiency: N/A
Efficacy: 101.4 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



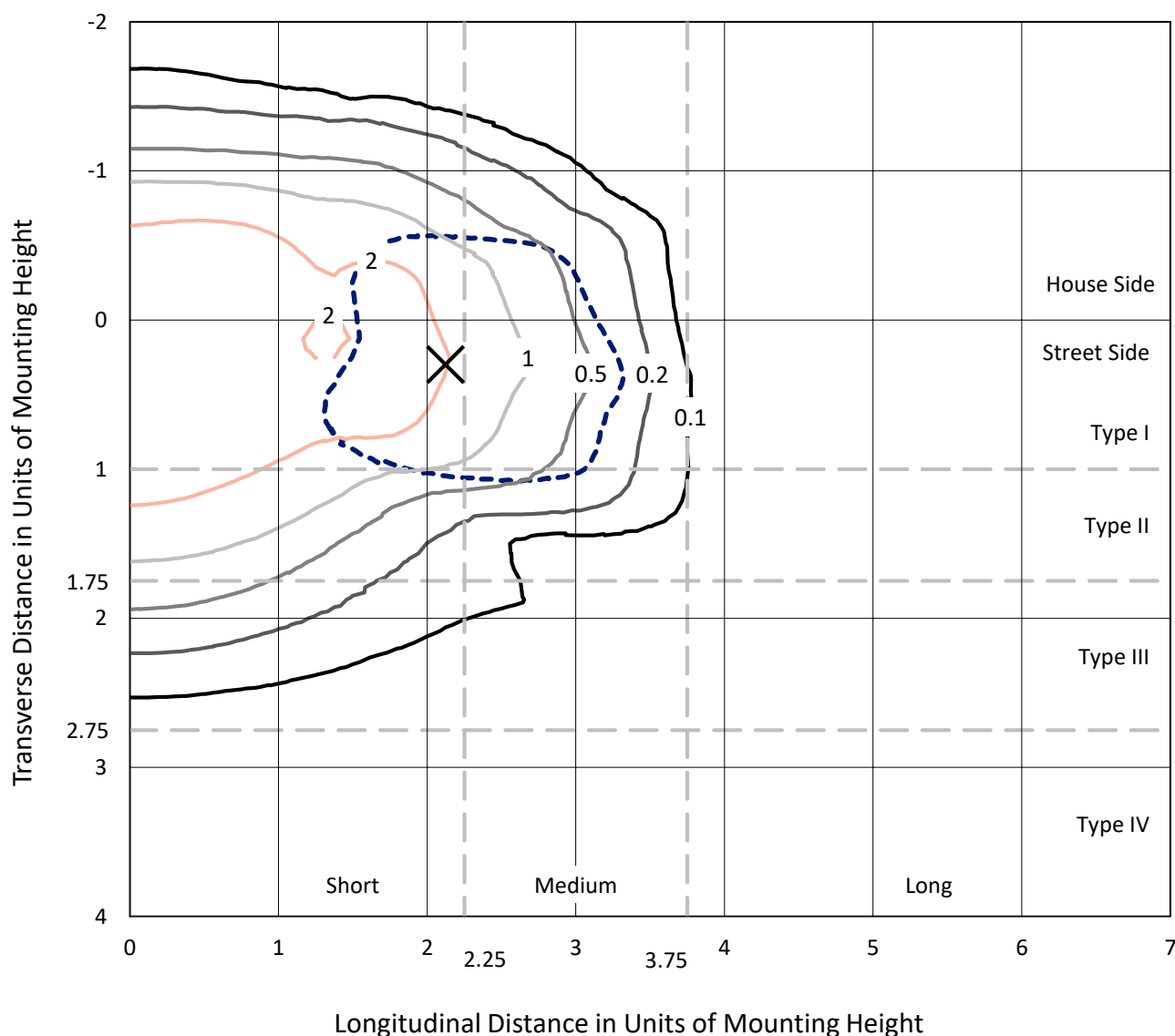
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

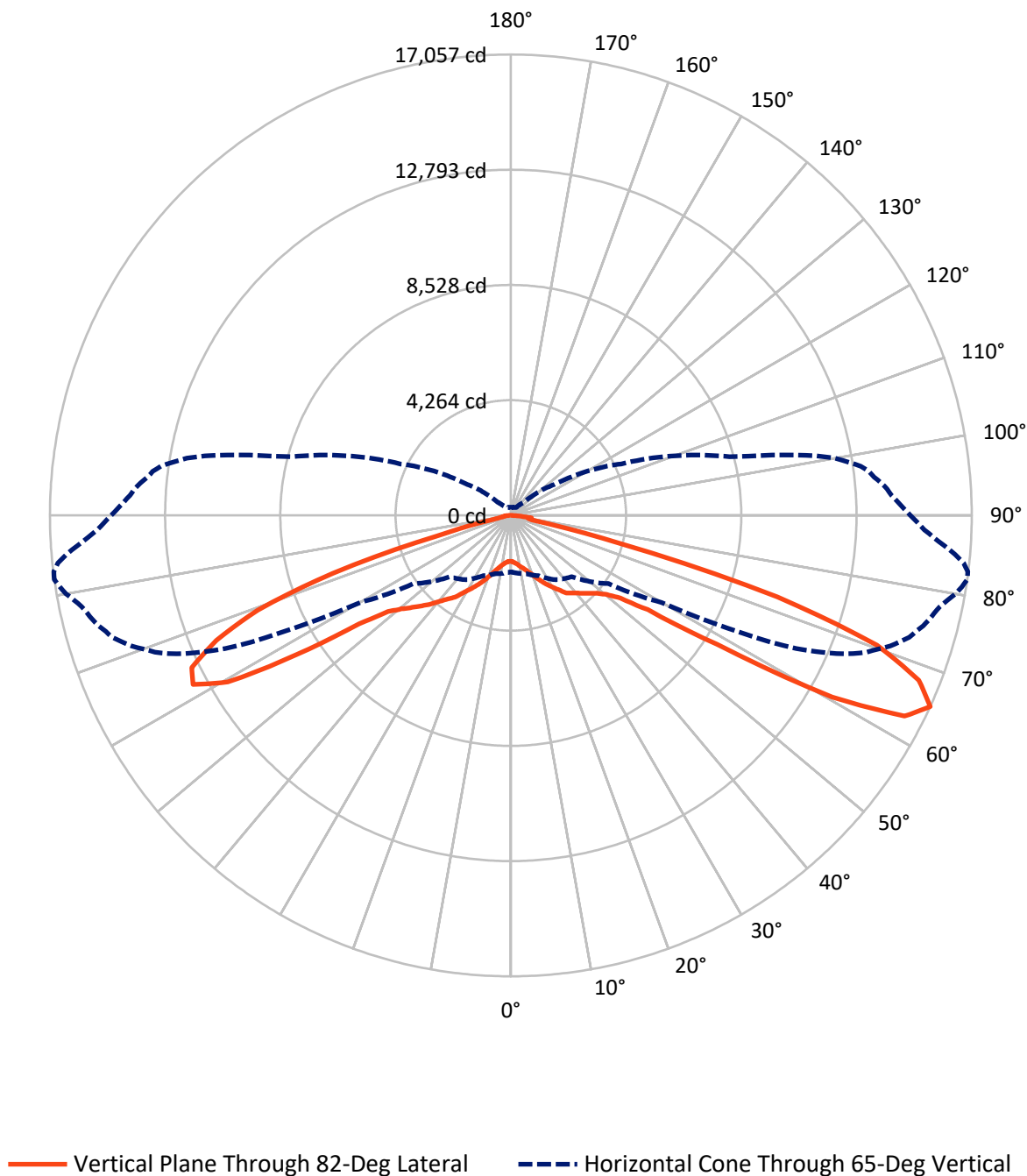


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6814.7	0.0	6814.7
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	11488.1	0.0	11488.1
	% Fixture	62.8	0.0	62.8
Total	Lumens	18302.8	0.0	18302.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	0.9
10°-20°	605.8	3.3
20°-30°	1200.3	6.6
30°-40°	2057.6	11.2
40°-50°	3091.0	16.9
50°-60°	4294.4	23.5
60°-70°	4899.3	26.8
70°-80°	1687.7	9.2
80°-90°	294.2	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°	18302.8	100.0
0°-180°	18302.8	100.0

Coefficient of Utilization



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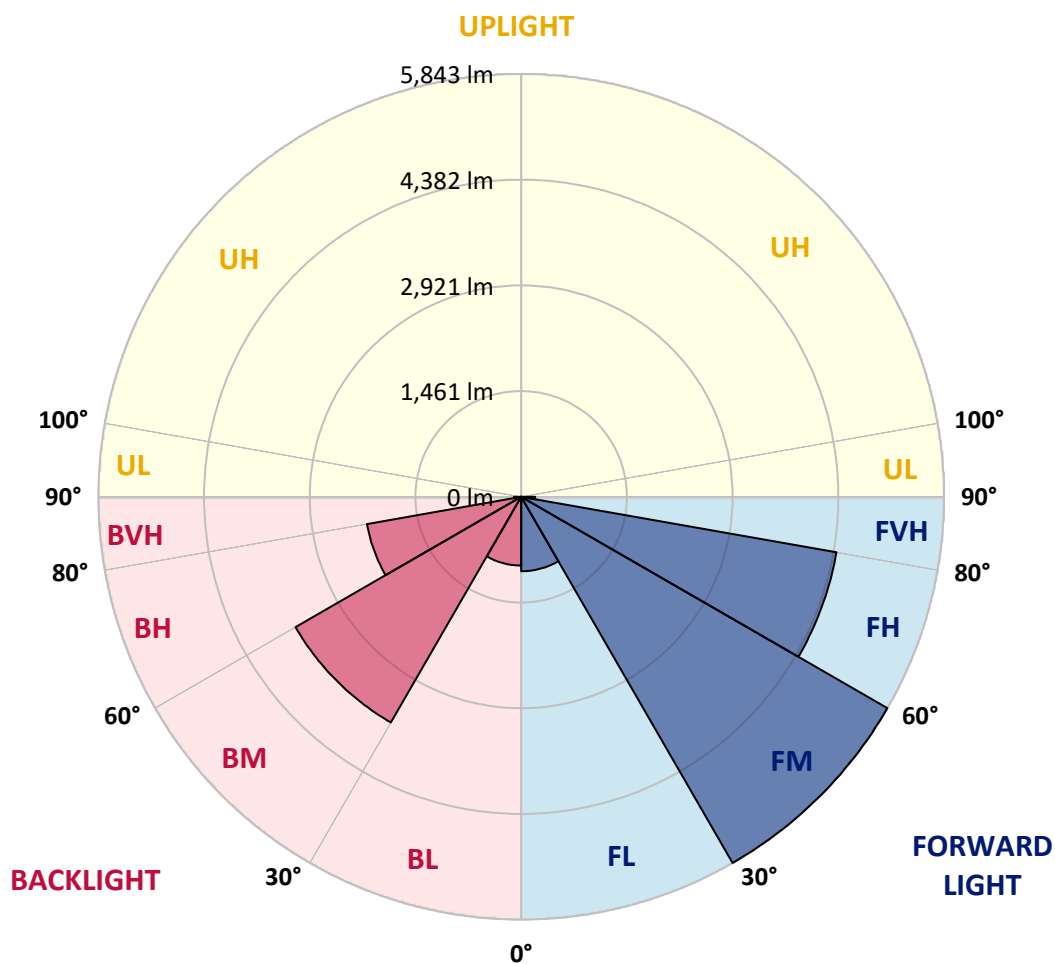
CATALOG NUMBER: VST-F07-LED-E-U-T2-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1028.2	5.6			
FM	(30°-60°)	5842.6	31.9			
FH	(60°-80°)	4423.6	24.2			G2/5000
FVH	(80°-90°)	193.6	1.1			G2/225
BL	(0°-30°)	950.3	5.2	B2/1000		
BM	(30°-60°)	3600.5	19.7	B3/5000		
BH	(60°-80°)	2163.5	11.8	B3/2500		G3/2500
BVH	(80°-90°)	100.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1795.5	1796.6	1795.5	1791.9	1790.7	1780.0	1768.2	1762.3	1761.1	1756.3	1757.5
5°	1906.9	1903.4	1898.6	1892.7	1886.8	1869.0	1848.8	1838.2	1834.6	1831.0	1826.3
7.5°	2006.6	2008.9	2006.6	1998.3	1982.8	1960.3	1934.2	1917.6	1916.4	1912.9	1909.3
10°	2134.6	2140.6	2126.3	2112.1	2090.8	2056.4	2026.7	2005.4	2001.8	1997.1	1994.7
12.5°	2273.4	2274.6	2269.8	2237.8	2202.2	2154.8	2112.1	2090.8	2086.0	2080.1	2077.7
15°	2421.6	2422.8	2396.7	2365.9	2311.3	2254.4	2195.1	2171.4	2165.5	2166.7	2157.2
17.5°	2539.0	2541.4	2516.5	2477.4	2412.1	2344.5	2280.5	2261.5	2258.0	2259.2	2254.4
20°	2590.0	2593.6	2578.2	2548.5	2486.8	2427.5	2381.3	2369.4	2368.3	2365.9	2375.4
22.5°	2587.6	2588.8	2582.9	2571.0	2534.3	2499.9	2494.0	2501.1	2499.9	2502.3	2510.6
25°	2566.3	2569.9	2568.7	2573.4	2567.5	2580.5	2607.8	2632.7	2636.3	2641.0	2656.4
27.5°	2620.9	2628.0	2619.7	2624.4	2633.9	2677.8	2733.5	2771.5	2778.6	2791.6	2804.7
30°	2834.3	2824.8	2814.2	2802.3	2808.2	2835.5	2898.4	2931.6	2935.1	2944.6	2962.4
32.5°	3151.0	3140.3	3130.8	3111.8	3107.1	3095.2	3116.6	3124.9	3123.7	3133.2	3137.9
35°	3507.9	3509.1	3506.7	3521.0	3532.8	3472.3	3397.6	3377.5	3385.8	3375.1	3377.5
37.5°	3812.7	3816.2	3879.1	3957.4	3979.9	3942.0	3778.3	3697.7	3670.4	3666.8	3639.5
40°	4150.7	4150.7	4245.5	4341.6	4404.5	4451.9	4257.4	4115.1	4057.0	4040.4	3972.8
42.5°	4521.9	4502.9	4589.5	4695.0	4811.2	4919.1	4818.3	4658.2	4575.2	4545.6	4427.0
45°	4826.6	4814.8	4857.5	4955.9	5144.5	5355.6	5369.8	5288.0	5238.1	5176.5	5067.4
47.5°	5014.0	5008.1	5033.0	5139.7	5375.7	5717.3	5908.2	5949.7	5920.0	5872.6	5767.1
50°	5087.5	5079.2	5097.0	5215.6	5480.1	5930.7	6352.9	6548.6	6562.8	6573.5	6540.3
52.5°	5061.4	5050.8	5087.5	5187.2	5462.3	6005.4	6700.4	7076.3	7139.2	7192.5	7301.6
55°	4811.2	4794.6	4894.2	5081.6	5385.2	5978.2	6954.2	7583.9	7716.7	7859.0	8100.9
57.5°	4428.2	4413.9	4557.4	4814.8	5248.8	5903.4	7124.9	8225.4	8524.3	8780.4	9467.1
60°	4059.4	4047.5	4131.7	4380.7	4806.5	5539.4	6913.8	8441.3	8942.9	9495.5	10749.1
62.5°	3400.0	3368.0	3480.6	3690.5	3959.7	4582.3	5992.4	7961.0	8734.2	9546.5	11245.9
65°	2089.6	2135.8	2233.1	2465.5	2906.7	3203.1	4400.9	6440.7	7460.5	8479.2	10683.8
67.5°	1327.0	1340.1	1412.4	1573.7	1915.2	2212.9	2667.1	4041.6	4827.8	5829.9	8387.9
70°	1137.3	1145.6	1207.3	1375.7	1611.6	1978.1	2018.4	2110.9	2393.2	3031.2	4931.0
72.5°	896.5	910.8	959.4	1105.3	1389.9	1783.6	2491.6	1668.6	1611.6	1665.0	2406.2
75°	533.7	550.3	590.6	670.0	893.0	1363.8	2610.2	1941.3	1809.7	1706.5	1660.3
77.5°	282.2	270.4	297.7	343.9	458.9	727.0	1961.5	2378.9	2286.4	2163.1	1901.0
80°	139.9	144.7	153.0	162.5	205.2	295.3	980.7	2460.8	2727.6	2846.2	2613.7
82.5°	55.7	62.9	88.9	94.9	112.7	125.7	315.5	1363.8	1953.2	2649.3	3459.3
85°	28.5	27.3	47.4	56.9	66.4	59.3	111.5	508.8	915.5	1426.6	2311.3
87.5°	3.6	4.7	10.7	14.2	20.2	19.0	32.0	110.3	175.5	249.0	349.8
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1751.6	1750.4	1750.4	1745.7	1745.7	1746.8	1743.3	1740.9	1740.9	1742.1	1737.4
5°	1822.7	1819.2	1819.2	1814.4	1808.5	1808.5	1803.8	1802.6	1800.2	1795.5	1791.9
7.5°	1905.8	1902.2	1896.3	1892.7	1890.3	1886.8	1880.8	1878.5	1873.7	1869.0	1864.2
10°	1991.1	1986.4	1984.0	1978.1	1975.7	1968.6	1965.0	1966.2	1956.7	1953.2	1954.4
12.5°	2076.5	2071.8	2063.5	2061.1	2059.9	2052.8	2049.2	2046.9	2039.8	2038.6	2035.0
15°	2152.4	2154.8	2151.2	2145.3	2140.6	2139.4	2135.8	2133.4	2128.7	2124.0	2119.2
17.5°	2250.8	2254.4	2249.7	2241.4	2241.4	2240.2	2241.4	2240.2	2231.9	2235.4	2233.1
20°	2376.6	2378.9	2367.1	2370.6	2373.0	2371.8	2375.4	2378.9	2376.6	2376.6	2380.1
22.5°	2521.2	2524.8	2517.7	2522.4	2529.5	2523.6	2534.3	2533.1	2535.5	2539.0	2540.2
25°	2669.5	2676.6	2670.7	2683.7	2679.0	2683.7	2696.7	2693.2	2699.1	2708.6	2712.2
27.5°	2817.7	2822.5	2823.6	2831.9	2840.2	2847.4	2864.0	2864.0	2868.7	2885.3	2885.3
30°	2973.1	2977.8	2982.6	2994.4	2999.2	3012.2	3028.8	3033.5	3031.2	3054.9	3062.0
32.5°	3152.1	3156.9	3165.2	3179.4	3185.3	3198.4	3198.4	3211.4	3220.9	3241.1	3242.3
35°	3390.5	3394.1	3390.5	3389.3	3397.6	3415.4	3416.6	3435.6	3443.9	3464.0	3470.0
37.5°	3628.9	3627.7	3612.3	3595.7	3596.9	3589.7	3585.0	3593.3	3596.9	3598.0	3611.1
40°	3950.3	3919.4	3895.7	3854.2	3835.2	3805.6	3787.8	3786.6	3767.6	3765.3	3768.8
42.5°	4371.2	4335.7	4279.9	4210.0	4156.6	4102.0	4061.7	4038.0	3996.5	3975.2	3957.4
45°	4959.5	4871.7	4805.3	4722.3	4619.1	4524.2	4424.6	4379.6	4300.1	4251.5	4196.9
47.5°	5678.1	5591.5	5489.6	5404.2	5269.0	5137.3	5001.0	4881.2	4742.4	4632.1	4542.0
50°	6458.4	6407.4	6333.9	6254.5	6080.1	5993.6	5821.6	5659.1	5509.7	5312.9	5140.9
52.5°	7258.9	7288.6	7272.0	7243.5	7133.2	7100.0	6951.8	6753.7	6603.1	6467.9	6169.1
55°	8245.6	8281.2	8352.3	8393.8	8380.8	8465.0	8428.2	8274.1	8213.6	8150.7	7938.5
57.5°	9755.3	10009.0	10280.6	10519.0	10574.7	10873.6	10809.5	10963.7	11072.8	10994.5	10925.8
60°	11364.5	11876.8	12338.2	12820.8	13213.4	13507.5	13896.4	14158.5	14323.4	14619.8	14643.6
62.5°	12013.2	12709.4	13295.2	13854.9	14321.0	14729.0	15080.0	15441.7	15738.2	16006.2	16199.5
65°	11657.5	12384.4	13094.8	13662.8	14111.1	14462.1	14844.0	15131.0	15422.7	15594.7	15797.5
67.5°	9691.2	10654.2	11528.2	12168.6	12781.7	13138.7	13590.5	13872.7	14182.2	14363.7	14494.1
70°	6318.5	7572.0	8766.2	9737.5	10565.2	10981.5	11527.0	11912.4	12284.8	12294.3	12511.3
72.5°	3409.5	4457.8	5457.5	6450.1	7394.1	7947.9	8486.3	8954.8	9324.8	9167.1	9382.9
75°	1898.6	2389.6	2936.3	3532.8	4108.0	4424.6	4826.6	4829.0	5019.9	4719.9	4795.8
77.5°	1826.3	1803.8	1812.1	1828.7	1857.1	1796.6	1795.5	1758.7	1701.8	1598.6	1616.4
80°	2399.1	2112.1	1905.8	1582.0	1273.7	1038.9	973.6	989.0	1035.3	1127.8	1245.2
82.5°	3468.8	3226.8	2880.6	2370.6	1860.7	1434.9	1178.8	1046.0	1040.0	1132.5	1310.4
85°	2526.0	2671.8	2649.3	2211.7	1823.9	1481.2	1078.0	910.8	754.2	717.5	780.3
87.5°	372.4	308.3	347.5	290.5	211.1	163.7	143.5	115.0	110.3	112.7	123.3
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1738.5	1733.8	1729.1	1732.6	1729.1	1727.9	1724.3	1721.9	1720.7	1720.7	1720.7
5°	1791.9	1786.0	1782.4	1781.2	1777.7	1774.1	1772.9	1767.0	1765.8	1765.8	1762.3
7.5°	1864.2	1859.5	1853.6	1850.0	1847.6	1841.7	1835.8	1834.6	1833.4	1828.7	1825.1
10°	1948.4	1941.3	1934.2	1934.2	1929.5	1928.3	1922.4	1914.1	1912.9	1905.8	1903.4
12.5°	2027.9	2025.5	2017.2	2014.9	2011.3	2007.7	2004.2	2000.6	1997.1	1991.1	1993.5
15°	2122.8	2116.8	2109.7	2110.9	2109.7	2105.0	2100.2	2096.7	2094.3	2091.9	2091.9
17.5°	2236.6	2234.2	2233.1	2227.1	2222.4	2225.9	2225.9	2225.9	2220.0	2221.2	2222.4
20°	2381.3	2383.7	2381.3	2376.6	2375.4	2378.9	2370.6	2383.7	2376.6	2371.8	2374.2
22.5°	2541.4	2549.7	2540.2	2541.4	2547.3	2549.7	2541.4	2552.1	2548.5	2541.4	2547.3
25°	2715.7	2721.7	2716.9	2715.7	2719.3	2727.6	2726.4	2725.2	2733.5	2726.4	2730.0
27.5°	2894.8	2898.4	2900.7	2904.3	2906.7	2905.5	2910.2	2910.2	2915.0	2906.7	2910.2
30°	3072.7	3072.7	3077.4	3082.2	3082.2	3082.2	3091.7	3092.8	3085.7	3088.1	3079.8
32.5°	3262.4	3263.6	3268.4	3268.4	3277.8	3279.0	3289.7	3275.5	3289.7	3277.8	3280.2
35°	3485.4	3500.8	3503.2	3515.0	3524.5	3528.1	3528.1	3529.3	3542.3	3532.8	3536.4
37.5°	3615.8	3619.4	3628.9	3634.8	3634.8	3639.5	3643.1	3639.5	3643.1	3641.9	3645.5
40°	3770.0	3766.4	3777.1	3779.5	3774.7	3780.7	3779.5	3775.9	3785.4	3778.3	3783.0
42.5°	3957.4	3937.2	3936.0	3945.5	3936.0	3940.8	3939.6	3931.3	3943.1	3946.7	3943.1
45°	4157.8	4147.1	4125.8	4125.8	4116.3	4112.7	4113.9	4112.7	4113.9	4128.1	4132.9
47.5°	4483.9	4418.7	4381.9	4347.5	4319.1	4317.9	4304.8	4312.0	4321.4	4345.2	4366.5
50°	5030.6	4880.0	4787.5	4702.1	4640.4	4619.1	4594.2	4591.8	4600.1	4627.4	4664.2
52.5°	6005.4	5796.7	5599.8	5417.2	5258.3	5136.2	5075.7	5043.7	5031.8	5059.1	5094.7
55°	7789.0	7395.3	7117.8	6932.8	6537.9	6370.7	6156.0	6057.6	5961.5	5971.0	6031.5
57.5°	10836.8	10624.5	10392.1	10068.3	9826.4	9534.7	8998.7	8699.8	8712.9	8782.8	8564.6
60°	14830.9	14616.3	14520.2	14226.1	14057.7	13940.3	13655.7	13160.0	12984.5	12951.3	12550.4
62.5°	16347.7	16398.7	16474.6	16557.6	16552.9	16603.9	16354.8	16193.5	15990.8	15727.5	15331.4
65°	15951.6	16080.9	16235.1	16458.0	16711.8	16899.2	17056.9	17037.9	16848.2	16497.1	16078.5
67.5°	14610.4	14738.4	14851.1	15149.9	15566.2	15946.9	16283.7	16512.6	16385.7	16095.1	15606.5
70°	12594.3	12686.8	12758.0	13017.7	13474.3	13939.1	14379.1	14763.3	14724.2	14372.0	13981.8
72.5°	9125.5	9349.7	9470.6	9452.9	9735.1	10255.7	10317.4	10645.9	10737.2	10357.7	9736.3
75°	4446.0	4449.5	4309.6	4263.3	4277.6	4367.7	4195.7	4206.4	4147.1	3877.9	3656.1
77.5°	1553.5	1510.8	1408.9	1287.9	1114.8	952.3	787.4	716.3	692.6	622.6	574.0
80°	1338.9	1401.7	1381.6	1282.0	1099.3	876.4	654.6	485.0	413.9	389.0	365.3
82.5°	1520.3	1762.3	1916.4	1908.1	1657.9	1245.2	776.8	445.9	317.8	278.7	256.2
85°	847.9	912.0	929.8	846.7	703.2	480.3	268.0	188.6	160.1	145.9	131.6
87.5°	135.2	123.3	121.0	105.5	99.6	91.3	80.6	75.9	70.0	66.4	66.4
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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CATALOG NUMBER: VST-F07-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1719.6	1718.4	1714.8	1711.3	1708.9	1707.7	1706.5	1704.1	1703.0	1701.8	1699.4
5°	1759.9	1757.5	1751.6	1745.7	1743.3	1739.7	1736.2	1733.8	1731.4	1730.2	1725.5
7.5°	1822.7	1820.4	1813.3	1808.5	1807.3	1797.8	1796.6	1793.1	1787.2	1786.0	1778.9
10°	1898.6	1897.4	1891.5	1888.0	1885.6	1880.8	1873.7	1867.8	1861.9	1861.9	1857.1
12.5°	1986.4	1981.6	1985.2	1976.9	1974.5	1969.8	1966.2	1965.0	1957.9	1952.0	1950.8
15°	2089.6	2083.6	2083.6	2081.3	2078.9	2074.1	2073.0	2074.1	2067.0	2069.4	2062.3
17.5°	2217.6	2220.0	2218.8	2218.8	2212.9	2212.9	2203.4	2215.3	2207.0	2212.9	2210.5
20°	2377.7	2378.9	2376.6	2380.1	2382.5	2381.3	2380.1	2378.9	2382.5	2387.2	2383.7
22.5°	2548.5	2548.5	2547.3	2560.4	2546.1	2556.8	2560.4	2553.3	2572.2	2569.9	2573.4
25°	2733.5	2733.5	2743.0	2753.7	2756.0	2747.7	2752.5	2746.6	2758.4	2767.9	2770.3
27.5°	2905.5	2920.9	2928.0	2920.9	2926.8	2939.9	2938.7	2938.7	2947.0	2944.6	2967.1
30°	3082.2	3091.7	3101.1	3096.4	3098.8	3115.4	3116.6	3117.7	3128.4	3143.8	3160.4
32.5°	3283.8	3293.3	3288.5	3303.9	3302.7	3322.9	3326.5	3330.0	3363.2	3357.3	3391.7
35°	3531.6	3541.1	3536.4	3553.0	3550.6	3557.7	3570.8	3585.0	3590.9	3625.3	3652.6
37.5°	3647.8	3647.8	3658.5	3677.5	3684.6	3696.5	3716.6	3734.4	3764.1	3800.8	3843.5
40°	3787.8	3791.3	3805.6	3825.7	3838.8	3866.1	3902.8	3927.7	3972.8	4013.1	4062.9
42.5°	3957.4	3972.8	3989.4	4016.7	4045.1	4087.8	4140.0	4172.0	4231.3	4283.5	4345.2
45°	4155.4	4170.8	4210.0	4259.8	4301.3	4348.7	4391.4	4467.3	4520.7	4575.2	4628.6
47.5°	4395.0	4440.0	4472.1	4531.3	4582.3	4645.2	4698.6	4769.7	4827.8	4894.2	4939.3
50°	4702.1	4757.9	4799.4	4876.4	4926.3	4996.2	5063.8	5117.2	5176.5	5241.7	5278.5
52.5°	5143.3	5200.2	5252.4	5348.4	5410.1	5457.5	5547.7	5614.1	5668.6	5716.1	5756.4
55°	6099.1	6082.5	6227.2	6413.4	6434.7	6606.7	6638.7	6694.4	6795.2	6809.5	6922.1
57.5°	8830.3	8744.9	8954.8	9227.5	9180.1	9093.5	9455.2	9477.8	9426.8	9563.1	9409.0
60°	12609.7	12460.3	12517.2	12591.9	12484.0	12433.0	12450.8	12501.8	12452.0	12397.5	12248.0
62.5°	15133.3	14903.3	14738.4	14599.7	14424.2	14297.3	14155.0	13979.5	13932.0	13732.8	13565.6
65°	15671.7	15313.6	15052.7	14790.6	14548.7	14324.6	14109.9	13959.3	13760.1	13524.1	13349.7
67.5°	15080.0	14636.5	14254.6	13873.9	13600.0	13270.3	13109.0	12863.5	12618.0	12347.7	12187.6
70°	13360.4	12897.9	12417.6	12045.2	11672.9	11264.9	11185.5	10894.9	10753.8	10385.0	10320.9
72.5°	9221.6	8913.3	8698.6	8238.5	8012.0	7803.3	7736.8	7467.6	7496.1	7091.7	7238.8
75°	3279.0	3235.2	3172.3	2912.6	2866.3	2785.7	2764.3	2745.4	2937.5	2670.7	2864.0
77.5°	563.3	559.7	527.7	512.3	542.0	523.0	527.7	518.2	574.0	582.3	569.2
80°	349.8	340.4	329.7	322.6	323.8	316.6	317.8	320.2	323.8	322.6	326.1
82.5°	239.6	231.3	226.5	221.8	228.9	231.3	237.2	243.1	252.6	258.5	265.6
85°	130.4	119.8	119.8	118.6	128.1	135.2	144.7	156.5	173.1	187.4	202.8
87.5°	66.4	64.0	65.2	67.6	75.9	81.8	93.7	104.4	118.6	134.0	148.2
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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CATALOG NUMBER: VST-F07-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1698.2	1698.2	1697.0	1697.0	1695.8	1694.7	1693.5	1689.9	1676.9	1665.0	1656.7
5°	1724.3	1720.7	1719.6	1716.0	1714.8	1712.4	1708.9	1705.3	1681.6	1660.3	1644.9
7.5°	1777.7	1772.9	1770.6	1767.0	1763.4	1758.7	1754.0	1750.4	1721.9	1697.0	1678.1
10°	1847.6	1845.3	1844.1	1839.3	1839.3	1832.2	1831.0	1822.7	1791.9	1769.4	1752.8
12.5°	1944.9	1940.1	1939.0	1933.0	1935.4	1933.0	1930.7	1925.9	1903.4	1877.3	1854.8
15°	2065.8	2065.8	2059.9	2055.2	2056.4	2054.0	2058.7	2052.8	2038.6	2014.9	1978.1
17.5°	2211.7	2209.3	2211.7	2208.2	2210.5	2212.9	2207.0	2208.2	2201.0	2171.4	2116.8
20°	2381.3	2377.7	2392.0	2386.0	2399.1	2387.2	2389.6	2393.2	2393.2	2354.0	2280.5
22.5°	2575.8	2573.4	2573.4	2585.3	2590.0	2591.2	2595.9	2599.5	2609.0	2559.2	2441.8
25°	2770.3	2778.6	2779.8	2795.2	2802.3	2802.3	2805.9	2818.9	2847.4	2778.6	2626.8
27.5°	2968.3	2988.5	2993.2	3003.9	3014.6	3025.2	3033.5	3043.0	3089.3	3014.6	2816.5
30°	3166.4	3188.9	3205.5	3217.4	3230.4	3256.5	3261.2	3280.2	3357.3	3266.0	2996.8
32.5°	3398.8	3430.8	3452.2	3467.6	3487.7	3512.7	3526.9	3550.6	3625.3	3475.9	3128.4
35°	3676.3	3695.3	3726.1	3752.2	3764.1	3806.8	3829.3	3835.2	3892.1	3657.3	3225.7
37.5°	3868.4	3900.4	3953.8	3990.6	4011.9	4035.6	4073.6	4098.5	4153.0	3822.2	3274.3
40°	4112.7	4161.3	4204.0	4258.6	4293.0	4310.8	4348.7	4368.9	4376.0	3963.3	3258.9
42.5°	4410.4	4454.3	4511.2	4555.1	4581.2	4601.3	4632.1	4640.4	4547.9	4029.7	3175.9
45°	4690.3	4757.9	4806.5	4838.5	4857.5	4868.1	4887.1	4888.3	4690.3	3996.5	3033.5
47.5°	4991.5	5040.1	5085.2	5107.7	5105.3	5107.7	5100.6	5095.8	4761.4	3881.5	2850.9
50°	5324.7	5356.7	5375.7	5386.4	5392.3	5369.8	5337.8	5316.4	4767.3	3717.8	2665.9
52.5°	5771.8	5812.1	5808.6	5807.4	5759.9	5738.6	5653.2	5609.3	4733.0	3525.7	2457.2
55°	6904.3	6865.2	6788.1	6826.1	6632.8	6532.0	6399.1	6275.8	4778.0	3343.1	2215.3
57.5°	9470.6	9486.1	9266.7	9149.3	8823.1	8415.2	8086.7	7767.7	5183.6	3231.6	1899.8
60°	12148.4	11946.8	11668.1	11243.6	10823.8	10217.8	9633.1	9080.5	5588.0	3115.4	1526.3
62.5°	13317.7	13030.7	12609.7	12060.7	11401.3	10660.1	9932.0	9258.4	5392.3	2739.4	1110.0
65°	13080.5	12641.8	12176.9	11534.1	10732.4	9920.1	9069.8	8382.0	4511.2	2043.3	684.3
67.5°	11840.1	11467.7	10976.7	10214.2	9356.8	8511.2	7732.1	6961.3	3351.4	1273.7	383.0
70°	9993.6	9629.6	9131.5	8351.1	7494.9	6686.1	5860.7	5232.2	2135.8	614.3	276.3
72.5°	6932.8	6637.5	6285.3	5729.1	4978.4	4243.2	3684.6	3201.9	1183.5	326.1	252.6
75°	2815.3	2816.5	2752.5	2517.7	2127.5	1834.6	1564.2	1327.0	494.5	277.5	249.0
77.5°	638.0	648.7	709.2	672.4	606.0	566.9	507.6	448.3	301.2	285.8	251.4
80°	322.6	323.8	320.2	321.4	317.8	319.0	314.3	310.7	282.2	294.1	251.4
82.5°	269.2	275.1	273.9	273.9	275.1	275.1	275.1	273.9	292.9	309.5	243.1
85°	213.5	225.3	234.8	244.3	255.0	262.1	265.6	269.2	284.6	304.8	220.6
87.5°	161.3	175.5	187.4	196.9	213.5	213.5	225.3	233.6	233.6	238.4	116.2
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: P159356

CATALOG NUMBER: VST-F07-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1644.9	1640.1	1635.4	1633.0	1628.2
5°	1633.0	1623.5	1617.6	1617.6	1612.8
7.5°	1667.4	1663.8	1655.5	1650.8	1655.5
10°	1740.9	1735.0	1725.5	1718.4	1721.9
12.5°	1839.3	1815.6	1796.6	1788.3	1782.4
15°	1941.3	1893.9	1855.9	1834.6	1828.7
17.5°	2050.4	1967.4	1910.5	1878.5	1872.5
20°	2161.9	2058.7	1978.1	1936.6	1935.4
22.5°	2295.9	2158.3	2055.2	2000.6	1997.1
25°	2437.0	2247.3	2110.9	2040.9	2033.8
27.5°	2559.2	2318.4	2145.3	2062.3	2055.2
30°	2661.2	2371.8	2173.8	2077.7	2068.2
32.5°	2734.7	2402.6	2185.6	2082.5	2071.8
35°	2758.4	2390.8	2152.4	2039.8	2027.9
37.5°	2726.4	2313.7	2059.9	1935.4	1921.2
40°	2630.3	2178.5	1909.3	1781.2	1763.4
42.5°	2483.3	2012.5	1727.9	1605.7	1583.2
45°	2301.8	1825.1	1547.6	1411.2	1400.6
47.5°	2112.1	1628.2	1344.8	1221.5	1208.4
50°	1906.9	1400.6	1146.8	1012.8	1012.8
52.5°	1662.6	1178.8	916.7	815.9	807.6
55°	1381.6	928.6	730.5	653.4	642.8
57.5°	1079.2	713.9	583.5	538.4	526.5
60°	793.4	536.0	469.6	444.7	440.0
62.5°	538.4	408.0	378.3	367.6	366.4
65°	364.1	317.8	309.5	306.0	307.1
67.5°	279.9	264.5	260.9	259.7	259.7
70°	243.1	233.6	230.1	231.3	230.1
72.5°	228.9	215.8	217.0	219.4	218.2
75°	224.1	207.5	212.3	213.5	208.7
77.5°	220.6	198.0	209.9	213.5	200.4
80°	213.5	189.7	218.2	219.4	196.9
82.5°	195.7	168.4	218.2	201.6	177.9
85°	166.0	128.1	246.7	175.5	131.6
87.5°	105.5	75.9	167.2	119.8	79.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)