

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: P158476

Luminaire Tested: **VST-F07-LED-E-U-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158476
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
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-SL3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (49) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17888.6 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type III - 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



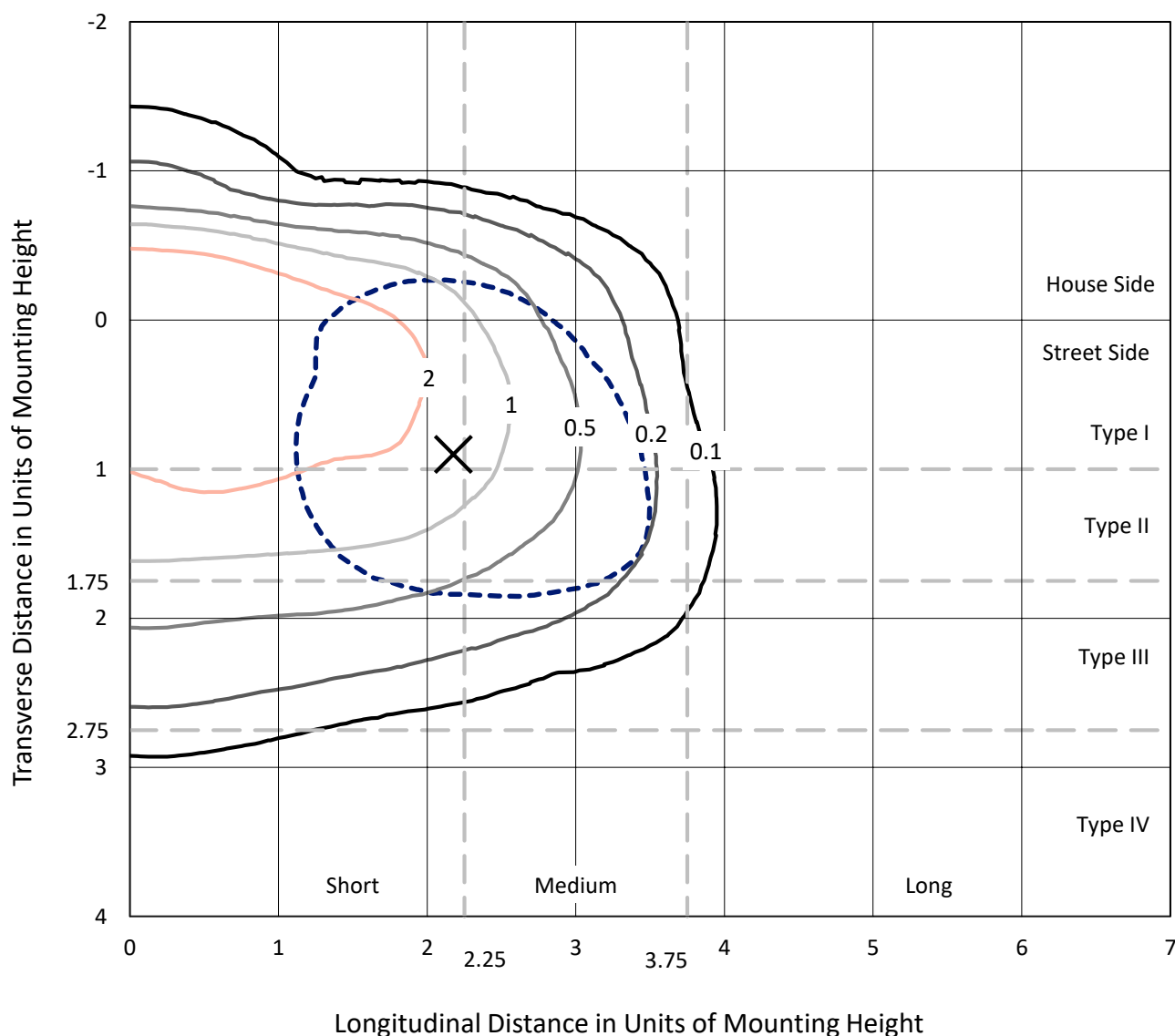
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

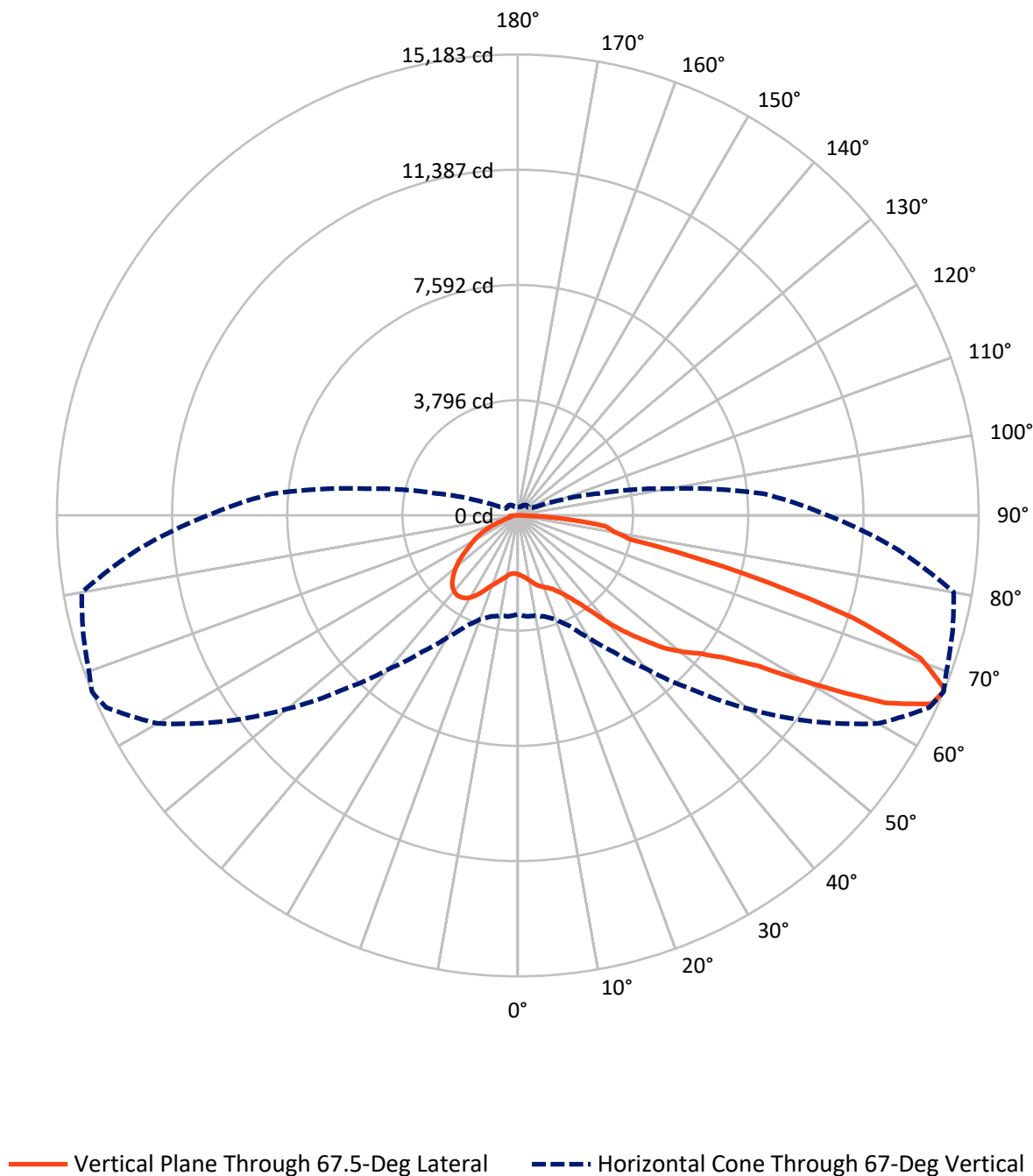


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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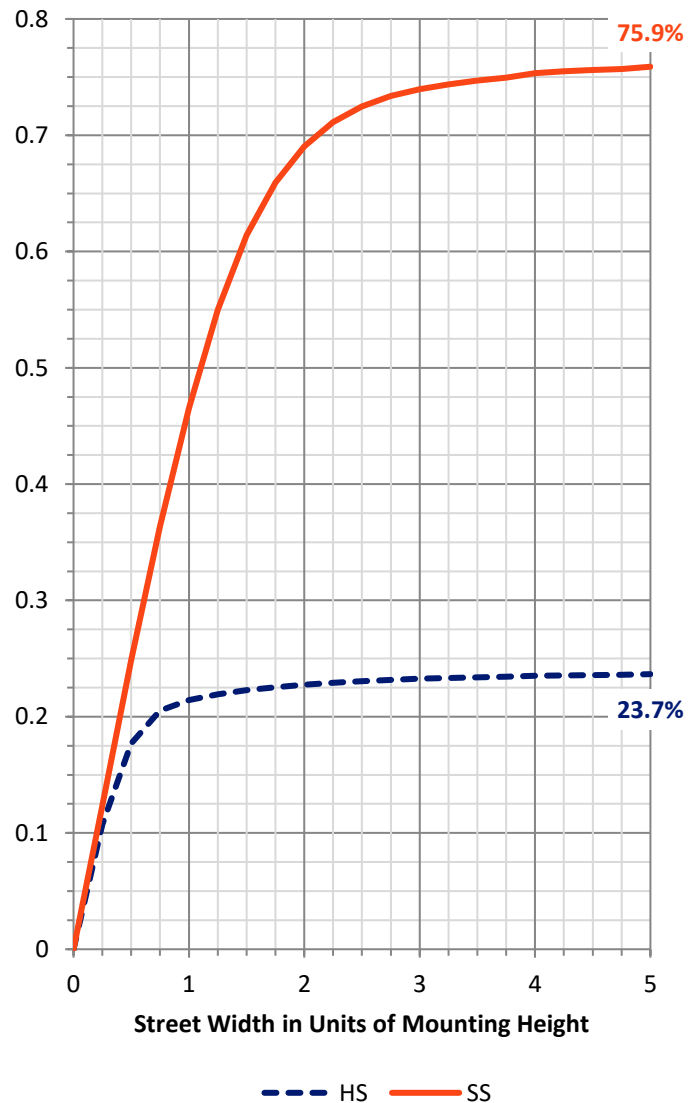
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4291.5	0.0	4291.5
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	13597.1	0.0	13597.1
	% Fixture	76.0	0.0	76.0
Total	Lumens	17888.6	0.0	17888.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	1.1
10°-20°	656.6	3.7
20°-30°	1172.2	6.6
30°-40°	1717.9	9.6
40°-50°	2654.4	14.8
50°-60°	3865.2	21.6
60°-70°	5035.1	28.1
70°-80°	2253.9	12.6
80°-90°	340.8	1.9
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°	17888.6	100.0
0°-180°	17888.6	100.0

Coefficient of Utilization



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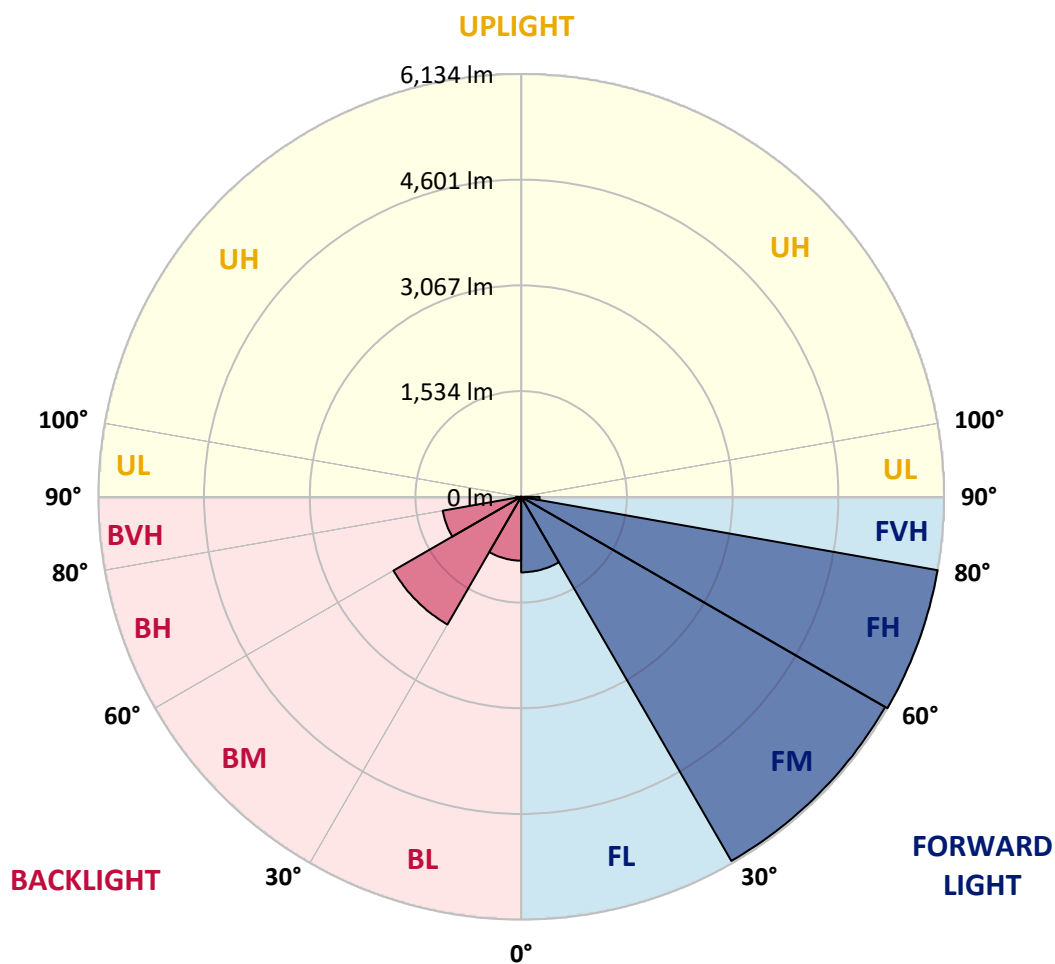
CATALOG NUMBER: VST-F07-LED-E-U-SL3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1096.0	6.1			
FM	(30°-60°)	6099.1	34.1			
FH	(60°-80°)	6134.4	34.3			G3/7500
FVH	(80°-90°)	267.6	1.5			G3/500
BL	(0°-30°)	925.4	5.2	B2/1000		
BM	(30°-60°)	2138.4	12.0	B2/2500		
BH	(60°-80°)	1154.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	73.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0
2.5°	2014.9	2019.6	2020.8	2019.6	2020.8	2016.0	2014.9	2007.7	2011.3	2001.8	1999.4
5°	2124.0	2127.5	2129.9	2120.4	2122.8	2118.0	2112.1	2105.0	2095.5	2082.5	2074.1
7.5°	2230.7	2236.6	2235.4	2231.9	2223.6	2218.8	2207.0	2196.3	2179.7	2164.3	2153.6
10°	2374.2	2373.0	2373.0	2352.8	2341.0	2330.3	2309.0	2292.4	2275.8	2253.2	2241.4
12.5°	2540.2	2531.9	2528.4	2514.1	2489.2	2470.2	2439.4	2407.4	2377.7	2354.0	2335.0
15°	2700.3	2700.3	2690.8	2668.3	2644.6	2619.7	2575.8	2529.5	2480.9	2443.0	2424.0
17.5°	2846.2	2833.1	2824.8	2795.2	2770.3	2730.0	2681.3	2631.5	2571.0	2517.7	2480.9
20°	2952.9	2942.2	2924.4	2887.7	2845.0	2797.6	2740.6	2682.5	2617.3	2559.2	2517.7
22.5°	3014.6	3001.5	2974.3	2925.6	2867.5	2801.1	2734.7	2680.1	2620.9	2577.0	2542.6
25°	3046.6	3033.5	2996.8	2932.7	2854.5	2766.7	2690.8	2637.5	2603.1	2592.4	2587.6
27.5°	3045.4	3034.7	2995.6	2922.1	2821.3	2720.5	2638.6	2593.6	2590.0	2631.5	2662.4
30°	3014.6	3007.5	2971.9	2898.4	2792.8	2687.3	2611.4	2587.6	2624.4	2712.2	2788.1
32.5°	2983.7	2980.2	2955.3	2888.9	2798.7	2709.8	2657.6	2660.0	2735.9	2871.1	2993.2
35°	2987.3	2992.0	2988.5	2952.9	2896.0	2849.7	2824.8	2877.0	2995.6	3159.3	3322.9
37.5°	3018.1	3035.9	3058.5	3062.0	3063.2	3056.1	3108.3	3218.5	3391.7	3605.2	3861.3
40°	3085.7	3105.9	3171.1	3228.0	3301.6	3389.3	3494.9	3647.8	3862.5	4125.8	4440.0
42.5°	3295.6	3324.1	3404.7	3510.3	3645.5	3783.0	3940.8	4149.5	4412.8	4690.3	5019.9
45°	3569.6	3628.9	3717.8	3835.2	4038.0	4231.3	4435.3	4668.9	4948.8	5296.3	5628.3
47.5°	3911.1	3970.4	4099.7	4225.4	4464.9	4705.7	4928.6	5172.9	5476.5	5832.3	6199.9
50°	4210.0	4277.6	4392.6	4562.2	4839.7	5135.0	5381.6	5646.1	5901.1	6275.8	6647.0
52.5°	4444.8	4493.4	4603.7	4759.0	5068.6	5392.3	5704.2	5998.3	6300.7	6675.5	7019.4
55°	4474.4	4519.5	4627.4	4805.3	5119.6	5478.9	5838.2	6186.9	6615.0	7024.1	7479.5
57.5°	4346.3	4383.1	4492.2	4651.1	4957.1	5366.2	5820.4	6267.5	6815.4	7368.0	7924.2
60°	4164.9	4201.7	4287.0	4413.9	4690.3	5131.4	5661.5	6273.4	7001.6	7799.7	8618.0
62.5°	3965.7	3997.7	4066.5	4156.6	4399.7	4806.5	5413.7	6234.3	7153.4	8229.0	9490.8
65°	3630.1	3707.1	3736.8	3829.3	4072.4	4456.6	5074.5	5969.9	7091.7	8419.9	10038.7
67°	3258.9	3337.1	3352.6	3446.2	3640.7	4009.5	4638.1	5480.1	6603.1	8090.2	9917.7
67.5°	3140.3	3206.7	3230.4	3324.1	3507.9	3855.4	4451.9	5303.4	6453.7	7910.0	9771.9
70°	2309.0	2382.5	2408.6	2447.7	2579.3	2868.7	3263.6	4002.4	5145.6	6454.9	8243.2
72.5°	1235.7	1295.0	1319.9	1378.0	1445.6	1603.3	1905.8	2435.9	3158.1	4319.1	5864.3
75°	836.1	859.8	877.6	917.9	987.9	1113.6	1246.4	1432.6	1869.0	2437.0	3337.1
77.5°	476.7	487.4	489.8	496.9	552.6	672.4	890.6	1206.1	1546.4	1765.8	2134.6
80°	206.3	227.7	244.3	233.6	230.1	255.0	319.0	475.5	932.1	1480.0	1756.3
82.5°	111.5	121.0	135.2	136.4	143.5	151.8	164.8	195.7	275.1	555.0	1210.8
85°	58.1	60.5	80.6	92.5	98.4	103.2	105.5	117.4	135.2	172.0	301.2
87.5°	8.3	11.9	14.2	19.0	21.3	22.5	26.1	33.2	39.1	47.4	80.6
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-SL3-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0
2.5°	1988.8	1986.4	1979.3	1974.5	1969.8	1965.0	1959.1	1954.4	1946.1	1940.1	1933.0
5°	2062.3	2048.1	2038.6	2025.5	2023.2	2007.7	1992.3	1985.2	1971.0	1959.1	1944.9
7.5°	2137.0	2120.4	2105.0	2094.3	2088.4	2067.0	2051.6	2033.8	2017.2	2001.8	1985.2
10°	2224.8	2208.2	2191.6	2184.4	2173.8	2153.6	2140.6	2118.0	2101.4	2082.5	2059.9
12.5°	2316.1	2304.2	2292.4	2282.9	2278.1	2268.6	2249.7	2230.7	2208.2	2189.2	2163.1
15°	2396.7	2388.4	2383.7	2381.3	2381.3	2375.4	2357.6	2339.8	2316.1	2294.7	2266.3
17.5°	2453.6	2450.1	2453.6	2457.2	2461.9	2457.2	2453.6	2433.5	2418.1	2392.0	2363.5
20°	2486.8	2494.0	2511.7	2523.6	2534.3	2542.6	2546.1	2529.5	2509.4	2490.4	2471.4
22.5°	2522.4	2542.6	2573.4	2591.2	2609.0	2638.6	2645.8	2633.9	2618.5	2606.6	2586.5
25°	2581.7	2611.4	2664.7	2693.2	2718.1	2762.0	2767.9	2770.3	2766.7	2757.2	2732.3
27.5°	2674.2	2732.3	2803.5	2840.2	2867.5	2924.4	2947.0	2947.0	2937.5	2948.2	2948.2
30°	2835.5	2912.6	3005.1	3026.4	3069.1	3118.9	3155.7	3160.4	3161.6	3184.2	3217.4
32.5°	3083.4	3156.9	3260.1	3283.8	3320.5	3368.0	3409.5	3404.7	3415.4	3464.0	3507.9
35°	3443.9	3518.6	3586.2	3618.2	3634.8	3677.5	3692.9	3719.0	3751.0	3811.5	3805.6
37.5°	3977.5	4043.9	4053.4	4073.6	4053.4	4061.7	4073.6	4104.4	4189.8	4244.4	4156.6
40°	4620.3	4730.6	4719.9	4696.2	4651.1	4590.6	4612.0	4659.4	4751.9	4704.5	4468.5
42.5°	5226.3	5340.1	5318.8	5291.5	5191.9	5169.4	5167.0	5206.1	5255.9	5120.7	4712.8
45°	5822.8	5939.0	5902.3	5886.8	5820.4	5771.8	5812.1	5814.5	5801.5	5512.1	4926.3
47.5°	6438.3	6545.0	6521.3	6534.3	6465.6	6433.5	6437.1	6420.5	6298.3	5844.1	5092.3
50°	6935.2	7078.7	7092.9	7063.3	7026.5	6977.9	7102.4	7057.3	6785.8	6166.7	5252.4
52.5°	7321.8	7515.1	7588.6	7569.6	7540.0	7545.9	7779.5	7830.5	7381.1	6573.5	5429.1
55°	7779.5	8084.3	8204.1	8275.3	8244.4	8363.0	8897.9	8923.9	8208.8	7104.8	5659.1
57.5°	8440.1	8876.5	9254.8	9355.6	9452.9	9838.3	10706.4	10441.9	9283.3	7908.8	5950.9
60°	9444.6	10400.4	11014.7	11337.3	11565.0	12103.4	12928.7	12258.7	10622.2	8865.8	6317.3
62.5°	10851.0	12248.0	13275.0	13598.8	13692.5	14002.0	14599.7	13317.7	11351.5	9295.1	6349.3
65°	11898.2	13573.9	14803.7	14969.7	14858.2	14864.1	15020.7	13262.0	11079.9	8920.4	5799.1
67°	11829.4	13705.5	14964.9	15183.2	15029.0	14826.2	14581.9	12506.6	10207.1	8135.3	5078.0
67.5°	11723.9	13578.6	14895.0	15125.0	14983.9	14752.7	14395.7	12213.6	9935.5	7891.0	4931.0
70°	10134.8	11976.5	13749.4	14073.1	14132.4	13921.3	12919.3	10298.4	8066.5	6419.3	3829.3
72.5°	7888.6	9528.8	11282.7	11563.8	11791.5	11183.1	9403.0	7113.1	5879.7	4626.2	2772.6
75°	5208.5	6877.1	7761.8	7803.3	7512.7	6386.1	4594.2	3562.5	3279.0	2719.3	1716.0
77.5°	2786.9	4043.9	4068.8	3767.6	3630.1	2706.2	1098.1	606.0	674.8	766.1	683.1
80°	2078.9	2575.8	2984.9	3209.1	3275.5	2320.8	568.0	321.4	281.1	256.2	252.6
82.5°	1874.9	2488.0	2789.3	2911.4	2880.6	1909.3	319.0	215.8	179.1	194.5	221.8
85°	735.3	1328.2	1746.8	1691.1	1420.7	711.5	174.3	116.2	116.2	168.4	218.2
87.5°	150.6	272.8	370.0	353.4	317.8	137.6	85.4	70.0	71.2	136.4	206.3
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0
2.5°	1925.9	1918.8	1914.1	1909.3	1904.6	1902.2	1898.6	1898.6	1891.5	1889.1	1886.8
5°	1934.2	1922.4	1914.1	1903.4	1895.1	1888.0	1878.5	1876.1	1867.8	1861.9	1859.5
7.5°	1969.8	1952.0	1934.2	1921.2	1909.3	1893.9	1883.2	1873.7	1865.4	1859.5	1852.4
10°	2037.4	2018.4	1993.5	1969.8	1954.4	1930.7	1914.1	1897.4	1888.0	1880.8	1871.4
12.5°	2137.0	2109.7	2080.1	2051.6	2025.5	1994.7	1978.1	1957.9	1946.1	1940.1	1933.0
15°	2239.0	2209.3	2172.6	2145.3	2115.7	2091.9	2076.5	2058.7	2049.2	2042.1	2037.4
17.5°	2343.3	2309.0	2282.9	2255.6	2241.4	2223.6	2203.4	2180.9	2153.6	2137.0	2114.5
20°	2450.1	2424.0	2408.6	2393.2	2376.6	2351.7	2311.3	2265.1	2214.1	2165.5	2119.2
22.5°	2574.6	2559.2	2556.8	2542.6	2508.2	2448.9	2374.2	2287.6	2201.0	2120.4	2057.5
25°	2750.1	2750.1	2738.3	2680.1	2599.5	2492.8	2367.1	2242.5	2127.5	2017.2	1934.2
27.5°	2970.7	2962.4	2904.3	2784.5	2639.8	2473.8	2305.4	2147.7	2000.6	1879.7	1772.9
30°	3213.8	3155.7	3031.2	2842.6	2625.6	2412.1	2205.8	2023.2	1850.0	1701.8	1576.1
32.5°	3466.4	3325.3	3101.1	2842.6	2575.8	2319.6	2081.3	1857.1	1659.1	1493.1	1343.6
35°	3695.3	3437.9	3117.7	2796.4	2478.5	2183.3	1906.9	1653.2	1416.0	1236.9	1073.2
37.5°	3902.8	3512.7	3100.0	2706.2	2337.4	1991.1	1667.4	1387.5	1119.5	946.4	806.4
40°	4038.0	3528.1	3026.4	2565.1	2135.8	1731.4	1373.3	1060.2	847.9	690.2	596.5
42.5°	4122.2	3498.4	2907.8	2371.8	1864.2	1405.3	1030.6	760.2	602.4	514.7	479.1
45°	4169.6	3421.3	2732.3	2107.4	1535.7	1068.5	731.7	549.1	463.7	432.9	421.0
47.5°	4167.3	3296.8	2512.9	1801.4	1172.9	744.7	518.2	428.1	404.4	394.9	392.5
50°	4142.4	3143.8	2255.6	1469.3	846.7	519.4	410.3	384.2	378.3	372.4	370.0
52.5°	4108.0	2954.1	1971.0	1145.6	601.3	415.1	372.4	365.3	360.5	354.6	352.2
55°	4043.9	2720.5	1662.6	862.2	470.8	374.7	359.3	357.0	351.0	342.7	338.0
57.5°	3965.7	2483.3	1367.3	673.6	416.3	365.3	357.0	353.4	345.1	335.6	326.1
60°	3937.2	2287.6	1136.1	568.0	403.2	368.8	362.9	358.1	346.3	332.1	321.4
62.5°	3759.3	2067.0	970.1	526.5	410.3	384.2	381.9	374.7	357.0	340.4	323.8
65°	3299.2	1748.0	821.8	498.1	424.6	410.3	412.7	402.0	384.2	361.7	332.1
67°	2790.4	1425.5	684.3	470.8	435.2	437.6	445.9	437.6	415.1	383.0	342.7
67.5°	2655.2	1343.6	649.9	462.5	437.6	444.7	454.2	448.3	425.7	389.0	347.5
70°	1973.3	946.4	485.0	418.6	437.6	466.1	487.4	493.3	468.4	417.4	357.0
72.5°	1389.9	610.7	372.4	362.9	397.3	435.2	475.5	495.7	467.2	411.5	343.9
75°	834.9	381.9	302.4	308.3	334.4	373.6	405.6	413.9	378.3	342.7	297.7
77.5°	386.6	253.8	237.2	245.5	270.4	288.2	288.2	271.6	244.3	223.0	213.5
80°	227.7	207.5	206.3	221.8	238.4	225.3	205.2	182.6	168.4	161.3	157.7
82.5°	213.5	221.8	236.0	239.6	226.5	194.5	169.6	147.1	139.9	136.4	132.8
85°	251.4	269.2	245.5	226.5	200.4	163.7	132.8	113.8	110.3	106.7	102.0
87.5°	232.4	221.8	193.3	166.0	137.6	99.6	72.3	65.2	70.0	68.8	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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CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1939.0	1939.0	1939.0	1939.0	1939.0
2.5°	1888.0	1888.0	1883.2	1880.8	1886.8
5°	1854.8	1855.9	1852.4	1851.2	1852.4
7.5°	1847.6	1846.5	1844.1	1841.7	1844.1
10°	1869.0	1867.8	1864.2	1866.6	1863.1
12.5°	1933.0	1940.1	1939.0	1941.3	1946.1
15°	2037.4	2036.2	2032.6	2035.0	2038.6
17.5°	2096.7	2087.2	2078.9	2075.3	2075.3
20°	2082.5	2055.2	2040.9	2032.6	2030.3
22.5°	1998.3	1959.1	1929.5	1922.4	1916.4
25°	1860.7	1812.1	1774.1	1765.8	1750.4
27.5°	1700.6	1635.4	1590.3	1580.8	1572.5
30°	1490.7	1416.0	1363.8	1330.6	1341.3
32.5°	1234.5	1163.4	1102.9	1049.5	1041.2
35°	953.5	875.2	821.8	798.1	782.7
37.5°	711.5	646.3	610.7	588.2	589.4
40°	544.3	509.9	491.0	475.5	476.7
42.5°	454.2	438.8	434.0	426.9	423.4
45°	411.5	406.8	408.0	400.8	398.5
47.5°	387.8	384.2	385.4	380.7	379.5
50°	368.8	366.4	367.6	364.1	362.9
52.5°	349.8	351.0	349.8	347.5	347.5
55°	333.2	332.1	334.4	330.9	330.9
57.5°	320.2	319.0	319.0	317.8	317.8
60°	313.1	308.3	307.1	307.1	308.3
62.5°	309.5	301.2	300.0	300.0	301.2
65°	310.7	297.7	292.9	291.7	290.5
67°	311.9	292.9	283.4	278.7	277.5
67.5°	313.1	290.5	279.9	275.1	272.8
70°	306.0	273.9	258.5	250.2	247.9
72.5°	288.2	253.8	234.8	224.1	221.8
75°	256.2	230.1	213.5	201.6	196.9
77.5°	198.0	186.2	180.3	173.1	170.8
80°	154.2	148.2	145.9	141.1	139.9
82.5°	128.1	122.1	118.6	112.7	109.1
85°	99.6	92.5	90.1	85.4	83.0
87.5°	65.2	61.7	60.5	54.6	52.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)