

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: P158013

Luminaire Tested: **VST-F05-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158013
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33711)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F05-LED-E-U-RW-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10853.1 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 133.3
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

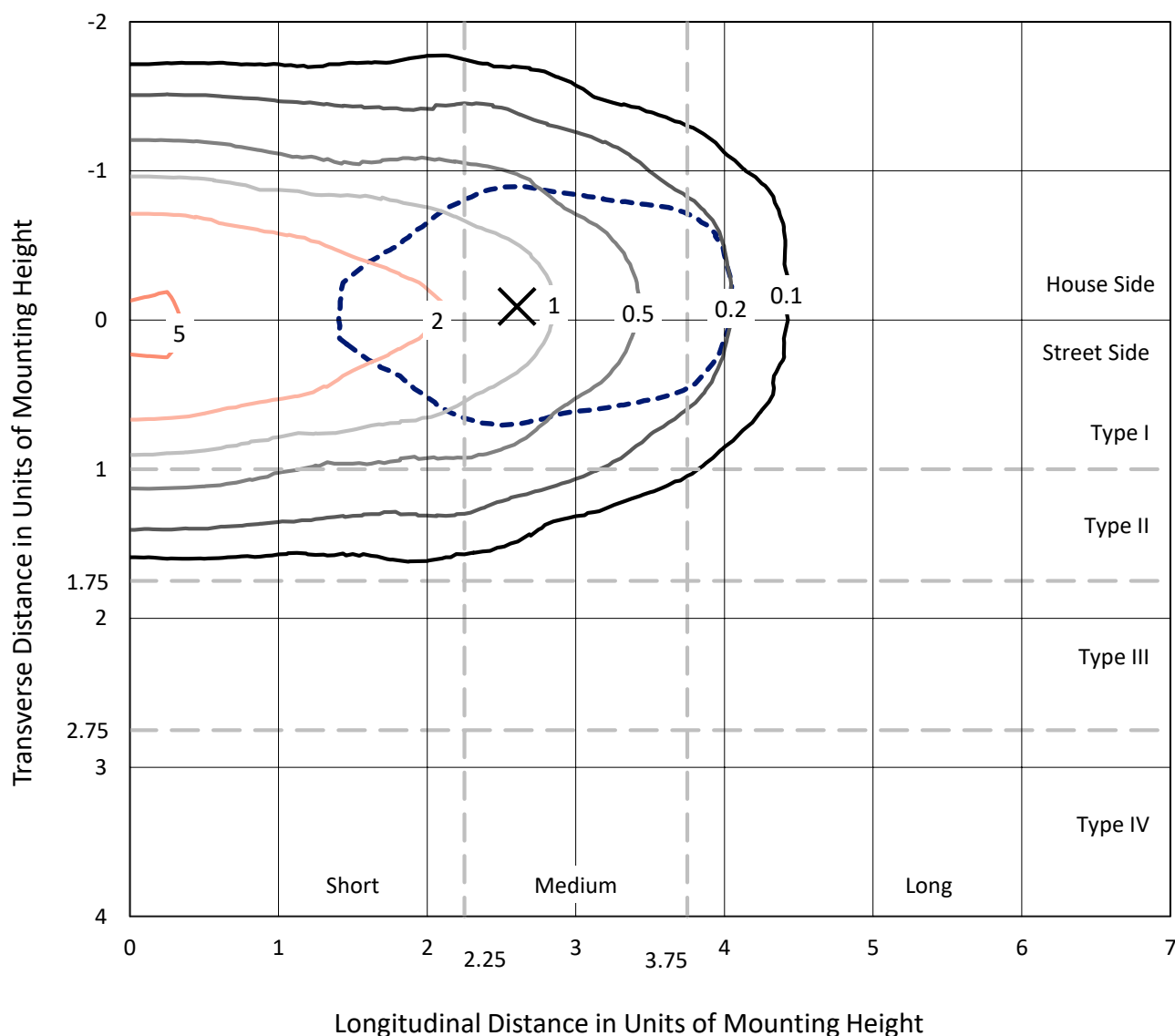


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

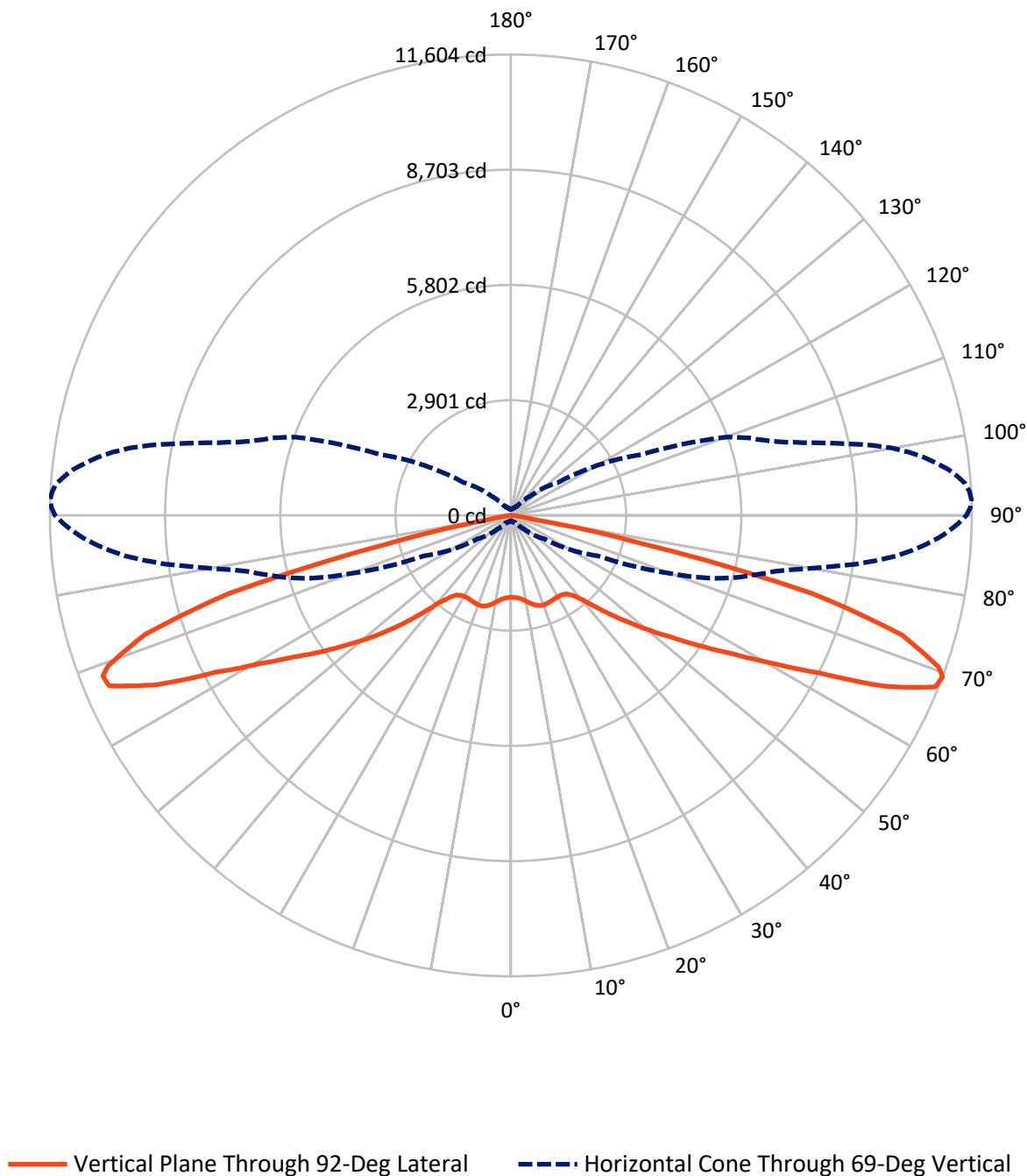


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5756.0	0.0	5756.0
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	5097.1	0.0	5097.1
	% Fixture	47.0	0.0	47.0
Total	Lumens	10853.1	0.0	10853.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	1.9
10°-20°	637.3	5.9
20°-30°	1033.9	9.5
30°-40°	1288.6	11.9
40°-50°	1604.4	14.8
50°-60°	1978.6	18.2
60°-70°	2457.3	22.6
70°-80°	1509.9	13.9
80°-90°	141.5	1.3
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°	10853.1	100.0
0°-180°	10853.1	100.0

Coefficient of Utilization



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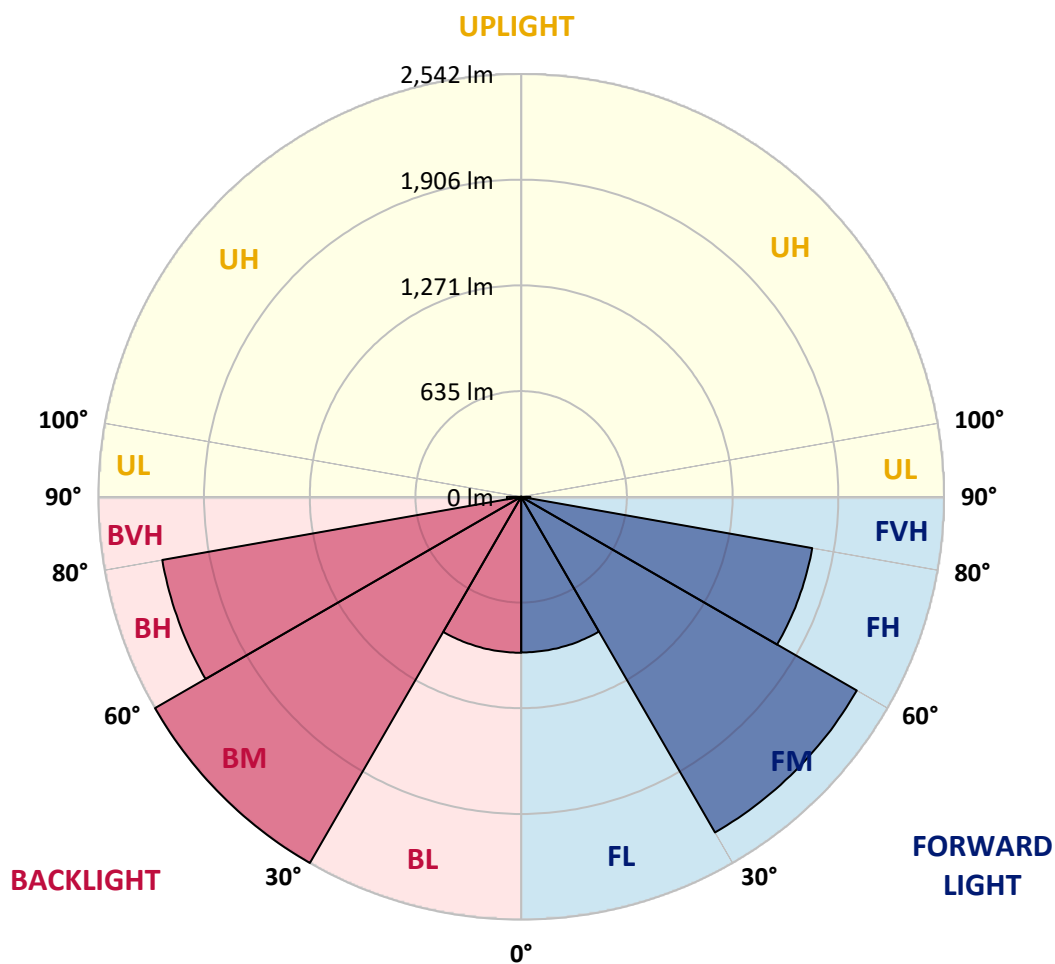
CATALOG NUMBER: VST-F05-LED-E-U-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	935.5	8.6			
FM	(30°-60°)	2329.7	21.5			
FH	(60°-80°)	1776.5	16.4			G1/1800
FVH	(80°-90°)	55.4	0.5			G1/100
BL	(0°-30°)	937.5	8.6	B2/1000		
BM	(30°-60°)	2541.8	23.4	B3/5000		
BH	(60°-80°)	2190.6	20.2	B3/2500		G3/2500
BVH	(80°-90°)	86.1	0.8			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 I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6
2.5°	2094.4	2088.8	2093.7	2094.4	2093.7	2093.7	2087.4	2086.0	2077.7	2079.8	2079.1
5°	2123.0	2120.9	2124.3	2125.7	2127.1	2124.3	2119.5	2117.4	2111.8	2109.7	2109.0
7.5°	2149.4	2145.9	2151.5	2156.4	2159.9	2160.6	2161.3	2157.8	2157.8	2155.0	2155.0
10°	2171.7	2168.9	2178.0	2184.3	2195.4	2201.7	2208.7	2213.5	2216.3	2217.0	2216.3
12.5°	2181.5	2179.4	2194.0	2212.8	2233.7	2248.4	2265.8	2278.3	2281.8	2281.1	2284.6
15°	2164.8	2166.2	2188.4	2225.4	2270.0	2306.9	2331.3	2341.7	2344.5	2345.9	2346.6
17.5°	2119.5	2122.3	2154.3	2214.2	2292.3	2359.1	2395.4	2395.4	2389.8	2389.8	2389.1
20°	2047.0	2049.8	2091.6	2178.0	2293.0	2395.4	2446.9	2436.5	2415.6	2411.4	2407.2
22.5°	1946.7	1957.8	2003.8	2104.1	2263.0	2405.8	2479.0	2463.7	2430.9	2421.9	2415.6
25°	1833.1	1831.7	1886.8	1999.6	2190.5	2380.7	2488.0	2485.3	2450.4	2440.7	2429.5
27.5°	1703.5	1707.7	1758.6	1872.8	2079.8	2308.3	2472.7	2509.6	2481.1	2471.3	2460.9
30°	1570.4	1574.6	1622.7	1755.8	1953.6	2204.5	2441.4	2533.3	2522.2	2514.5	2507.6
32.5°	1436.7	1438.1	1495.2	1638.0	1847.0	2080.5	2394.0	2554.9	2570.3	2566.8	2564.0
35°	1311.3	1312.6	1374.7	1519.6	1741.8	1974.5	2336.9	2586.3	2635.8	2639.9	2642.7
37.5°	1189.3	1191.4	1254.8	1406.7	1638.0	1894.4	2273.4	2634.4	2727.7	2743.0	2745.8
40°	1068.1	1070.2	1130.8	1291.7	1532.8	1824.1	2224.7	2701.9	2851.7	2872.6	2894.2
42.5°	952.4	960.1	1011.7	1165.6	1415.8	1737.0	2203.8	2784.2	2998.7	3031.5	3055.9
45°	844.4	845.1	903.7	1047.9	1277.1	1619.2	2189.8	2877.5	3163.2	3212.6	3246.1
47.5°	728.8	737.1	798.5	938.5	1147.5	1473.6	2145.2	2986.9	3342.2	3400.1	3467.7
50°	616.6	628.5	687.7	826.3	1029.1	1323.1	2025.4	3115.1	3543.6	3618.8	3696.9
52.5°	508.6	507.9	570.6	714.9	909.9	1195.6	1831.0	3249.6	3776.3	3857.1	3941.4
55°	384.6	384.6	446.6	578.3	781.0	1082.0	1622.7	3333.2	3992.3	4089.8	4181.8
57.5°	264.1	271.0	329.6	443.1	646.6	978.2	1463.1	3285.1	4157.4	4278.7	4388.0
60°	195.8	202.8	245.9	318.4	505.8	855.6	1343.3	3058.7	4257.1	4418.0	4560.1
62.5°	169.3	174.2	215.3	255.0	364.4	725.3	1237.4	2770.9	4400.6	4620.8	4818.6
65°	151.2	156.1	197.2	220.2	285.0	583.2	1178.2	2606.5	4572.0	4908.5	5195.6
67.5°	140.0	145.6	180.5	197.2	248.7	527.4	1132.2	2568.2	4570.6	4978.9	5345.4
69°	134.5	138.7	167.2	185.3	240.4	510.7	1032.6	2401.6	4268.9	4707.1	5075.0
70°	131.0	135.2	159.6	177.7	237.6	480.7	940.6	2181.5	3925.4	4366.4	4739.9
72.5°	119.8	124.0	142.1	158.9	197.9	321.2	655.6	1396.3	2805.1	3120.0	3547.1
75°	105.9	110.8	124.7	138.7	149.8	186.0	378.3	724.6	1603.9	1842.9	2223.3
77.5°	86.4	91.3	105.9	128.2	126.8	141.4	245.9	445.2	751.1	931.5	1072.3
80°	71.1	74.6	87.1	129.6	103.8	118.4	199.3	365.1	528.8	584.6	618.0
82.5°	47.4	52.3	67.6	101.7	79.4	84.3	149.1	341.4	447.3	490.5	530.9
85°	22.3	24.4	41.1	54.3	48.1	45.3	85.0	241.1	333.0	353.2	368.6
87.5°	0.0	0.0	2.1	4.2	6.3	6.3	15.3	50.9	93.4	112.9	111.5
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6
2.5°	2076.3	2077.0	2076.3	2076.3	2075.6	2074.2	2074.2	2072.8	2073.5	2072.8	2074.2
5°	2108.3	2108.3	2106.2	2104.8	2106.9	2104.8	2105.5	2102.1	2102.1	2100.0	2097.2
7.5°	2154.3	2154.3	2155.0	2150.8	2153.6	2154.3	2152.2	2150.8	2149.4	2145.9	2146.6
10°	2215.6	2215.6	2217.7	2212.1	2214.9	2216.3	2217.0	2217.0	2215.6	2209.3	2210.0
12.5°	2283.9	2282.5	2283.2	2280.4	2283.2	2284.6	2286.0	2284.6	2284.6	2283.2	2282.5
15°	2345.9	2345.2	2346.6	2344.5	2345.2	2346.6	2350.8	2350.1	2349.4	2345.2	2345.2
17.5°	2388.4	2386.3	2384.9	2384.2	2384.2	2383.5	2384.2	2384.2	2382.1	2381.4	2381.4
20°	2404.4	2398.9	2395.4	2393.3	2390.5	2389.1	2387.7	2388.4	2387.0	2384.9	2385.6
22.5°	2407.2	2399.6	2392.6	2386.3	2380.7	2377.3	2373.8	2372.4	2368.9	2366.8	2366.8
25°	2420.5	2408.6	2397.5	2387.0	2378.7	2371.0	2363.3	2357.8	2353.6	2348.7	2347.3
27.5°	2449.7	2437.2	2423.9	2410.7	2399.6	2384.2	2373.8	2362.6	2352.9	2345.2	2339.6
30°	2495.0	2482.5	2469.2	2453.9	2439.3	2423.2	2405.8	2392.6	2378.7	2363.3	2355.0
32.5°	2554.9	2546.6	2533.3	2518.7	2505.5	2488.7	2467.8	2447.6	2434.4	2416.3	2403.0
35°	2640.6	2630.9	2626.7	2620.4	2607.2	2596.7	2573.7	2554.9	2542.4	2517.3	2507.6
37.5°	2757.7	2757.0	2760.5	2758.4	2760.5	2747.2	2736.8	2736.1	2718.0	2693.6	2669.9
40°	2917.2	2925.6	2944.4	2957.6	2970.2	2971.6	2986.2	2970.9	2973.0	2969.5	2945.1
42.5°	3099.1	3127.6	3149.9	3189.0	3218.9	3246.8	3265.6	3291.4	3310.9	3328.3	3332.5
45°	3301.8	3344.3	3395.9	3430.7	3489.3	3535.9	3600.0	3649.5	3701.1	3751.9	3770.0
47.5°	3522.0	3575.0	3632.1	3696.9	3770.7	3843.9	3942.8	4018.8	4101.7	4170.7	4232.0
50°	3765.2	3820.2	3896.8	3971.4	4073.1	4157.4	4287.0	4386.6	4520.4	4612.4	4691.8
52.5°	4018.8	4087.7	4173.4	4255.7	4359.5	4467.5	4611.7	4758.7	4919.6	5059.0	5174.7
55°	4266.8	4351.8	4434.0	4530.2	4645.1	4770.5	4933.6	5127.3	5327.9	5487.5	5640.8
57.5°	4487.7	4585.9	4682.8	4780.3	4898.1	5043.7	5226.9	5435.9	5665.9	5878.4	6088.8
60°	4692.5	4810.3	4928.7	5050.6	5185.8	5365.6	5585.7	5842.8	6140.3	6430.9	6706.1
62.5°	5016.5	5171.2	5318.2	5475.6	5638.7	5849.8	6109.7	6446.9	6788.3	7151.3	7433.5
65°	5455.4	5672.8	5865.1	6069.3	6280.4	6562.6	6873.3	7276.7	7765.8	8137.9	8590.7
67.5°	5673.5	5959.9	6207.2	6434.4	6695.6	6980.6	7349.9	7827.1	8349.0	8888.3	9393.4
69°	5417.1	5712.5	5986.4	6240.7	6504.7	6781.3	7167.3	7657.1	8208.9	8792.1	9285.4
70°	5084.8	5380.2	5672.1	5962.0	6203.0	6472.7	6860.1	7365.2	7916.3	8522.5	9011.6
72.5°	3895.4	4250.8	4514.8	4786.6	5066.0	5294.5	5741.8	6167.5	6741.6	7356.8	7895.4
75°	2492.2	2819.0	3107.4	3338.8	3611.9	3885.7	4215.9	4689.0	5048.5	5553.7	5990.5
77.5°	1280.6	1377.4	1655.4	1738.4	1927.9	2077.0	2258.8	2377.3	2669.9	2731.9	2989.7
80°	606.9	546.9	514.9	485.6	494.0	490.5	475.9	456.4	480.7	470.3	466.1
82.5°	528.8	471.7	376.2	319.8	276.6	234.8	202.1	185.3	187.4	193.0	195.1
85°	370.7	348.4	271.7	206.2	160.9	124.7	100.3	96.1	98.9	106.6	103.8
87.5°	107.3	112.2	98.9	69.0	48.1	34.8	27.2	30.7	29.3	28.6	30.0
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6
2.5°	2074.2	2073.5	2071.4	2069.3	2069.3	2067.9	2069.3	2070.0	2069.3	2069.3	2067.9
5°	2097.9	2098.6	2100.7	2096.5	2095.8	2096.5	2093.7	2093.0	2093.0	2093.0	2090.2
7.5°	2143.2	2145.2	2145.2	2142.5	2141.8	2143.9	2139.7	2138.3	2136.2	2135.5	2134.8
10°	2210.7	2212.8	2209.3	2207.3	2205.2	2208.0	2204.5	2204.5	2202.4	2200.3	2199.6
12.5°	2286.0	2284.6	2283.2	2284.6	2282.5	2282.5	2280.4	2279.0	2278.3	2277.6	2276.2
15°	2344.5	2349.4	2349.4	2350.8	2349.4	2349.4	2346.6	2347.3	2345.9	2345.2	2345.9
17.5°	2382.1	2383.5	2387.0	2389.1	2389.1	2389.8	2388.4	2389.8	2388.4	2388.4	2391.2
20°	2387.0	2388.4	2391.9	2395.4	2397.5	2398.9	2398.9	2401.0	2402.3	2403.7	2407.2
22.5°	2367.5	2369.6	2373.8	2380.0	2383.5	2384.9	2387.7	2391.2	2394.7	2397.5	2402.3
25°	2347.3	2348.0	2352.2	2358.4	2362.6	2366.1	2371.0	2375.2	2380.0	2385.6	2391.2
27.5°	2336.2	2335.5	2338.9	2345.2	2348.7	2353.6	2357.8	2364.0	2369.6	2376.6	2381.4
30°	2345.9	2340.3	2341.0	2343.8	2346.6	2350.1	2355.0	2360.5	2366.8	2373.1	2378.7
32.5°	2389.1	2376.6	2368.2	2366.1	2366.8	2367.5	2370.3	2373.8	2378.7	2383.5	2385.6
35°	2482.5	2460.9	2449.7	2440.7	2433.0	2426.7	2428.1	2427.4	2427.4	2431.6	2426.7
37.5°	2660.1	2633.0	2621.1	2605.1	2596.0	2573.0	2566.8	2565.4	2556.3	2556.3	2545.9
40°	2938.8	2922.8	2913.7	2899.1	2855.2	2860.8	2829.4	2830.1	2804.4	2807.1	2789.0
42.5°	3335.3	3337.4	3326.2	3316.5	3282.3	3267.0	3237.7	3195.9	3163.2	3162.5	3126.3
45°	3793.7	3818.8	3783.3	3795.8	3765.9	3724.7	3690.6	3637.0	3586.1	3570.1	3533.1
47.5°	4273.1	4314.2	4287.0	4291.9	4277.3	4218.7	4172.7	4106.6	4040.4	3995.8	3973.5
50°	4785.2	4812.4	4811.7	4798.4	4791.5	4734.3	4660.5	4610.3	4561.5	4501.6	4482.1
52.5°	5249.2	5312.6	5355.1	5345.4	5325.1	5291.0	5225.5	5182.3	5110.6	5102.2	5110.6
55°	5746.0	5828.2	5871.4	5923.6	5924.3	5918.1	5890.9	5874.9	5808.0	5815.7	5805.9
57.5°	6216.3	6336.8	6403.0	6514.5	6552.8	6603.7	6584.8	6605.7	6565.3	6591.8	6584.2
60°	6853.8	7021.0	7131.1	7283.7	7354.7	7482.2	7507.3	7522.7	7544.9	7599.3	7568.6
62.5°	7655.7	7901.0	8129.5	8337.1	8405.4	8597.0	8628.4	8748.2	8754.5	8791.4	8723.8
65°	8968.4	9267.3	9518.8	9767.5	9911.1	10135.4	10226.0	10458.7	10387.6	10417.6	10273.4
67.5°	9828.2	10175.8	10513.0	10748.5	10986.8	11216.0	11381.2	11531.7	11530.3	11501.0	11372.8
69°	9752.2	10139.6	10471.9	10787.6	11038.4	11273.9	11472.4	11570.0	11604.1	11561.6	11470.4
70°	9489.5	9887.4	10294.3	10554.2	10827.3	11085.8	11290.6	11397.2	11420.9	11390.9	11312.2
72.5°	8275.8	8657.6	9106.3	9342.5	9672.8	9859.5	10141.7	10279.6	10304.0	10265.7	10214.1
75°	6458.7	6527.7	6984.8	7135.3	7374.9	7590.2	7765.8	7721.2	7845.9	7821.6	7802.0
77.5°	3042.6	2858.7	3154.8	3292.8	3220.3	3027.3	3308.1	3105.4	3239.8	3414.7	3370.1
80°	501.6	500.3	513.5	542.8	507.9	539.3	538.6	523.2	524.6	562.3	542.8
82.5°	193.0	197.2	199.3	204.8	204.8	205.5	209.0	213.2	209.7	216.7	215.3
85°	104.5	111.5	105.2	100.3	103.8	105.9	108.7	112.2	108.7	119.1	113.6
87.5°	27.2	28.6	25.1	25.1	24.4	22.3	22.3	23.7	25.8	30.7	33.4
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-F05-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6
2.5°	2065.1	2065.8	2066.5	2064.4	2063.0	2063.0	2062.3	2060.9	2060.2	2060.2	2060.2
5°	2088.8	2090.2	2086.7	2086.0	2084.6	2083.2	2083.2	2081.8	2082.5	2082.5	2079.1
7.5°	2136.2	2134.1	2129.9	2127.1	2129.9	2125.0	2123.0	2124.3	2123.0	2123.6	2122.3
10°	2199.6	2199.6	2194.7	2197.5	2194.0	2188.4	2190.5	2188.4	2187.1	2182.2	2185.0
12.5°	2278.3	2276.2	2273.4	2267.2	2265.1	2264.4	2258.1	2258.8	2256.7	2255.3	2253.2
15°	2347.3	2346.6	2340.3	2336.9	2336.2	2333.4	2330.6	2329.2	2325.7	2325.0	2323.6
17.5°	2393.3	2391.2	2388.4	2384.9	2384.9	2380.7	2379.4	2375.9	2375.2	2373.1	2371.0
20°	2408.6	2409.3	2406.5	2403.7	2402.3	2399.6	2397.5	2394.7	2393.3	2390.5	2388.4
22.5°	2405.1	2405.1	2402.3	2401.6	2398.9	2394.7	2391.9	2388.4	2384.9	2381.4	2377.3
25°	2394.0	2393.3	2391.2	2387.7	2384.2	2378.0	2372.4	2366.8	2361.9	2357.8	2351.5
27.5°	2384.2	2382.8	2378.7	2373.8	2366.8	2359.8	2349.4	2341.7	2335.5	2329.9	2322.9
30°	2380.7	2375.9	2369.6	2361.9	2353.6	2343.1	2332.0	2322.2	2315.3	2309.7	2306.9
32.5°	2384.9	2378.7	2368.9	2359.1	2348.7	2336.2	2325.0	2316.6	2310.4	2309.0	2309.0
35°	2423.2	2412.8	2399.6	2385.6	2372.4	2361.9	2354.3	2353.6	2349.4	2354.3	2361.9
37.5°	2535.4	2526.4	2506.2	2488.0	2479.0	2474.1	2467.1	2468.5	2458.8	2474.1	2486.6
40°	2773.7	2762.6	2738.9	2724.2	2706.1	2688.7	2702.6	2698.5	2705.4	2702.6	2715.9
42.5°	3121.4	3110.2	3072.6	3067.0	3059.4	3052.4	3052.4	3046.8	3044.0	3053.8	3042.6
45°	3544.3	3522.0	3508.1	3524.8	3501.8	3508.8	3533.1	3500.4	3508.1	3462.8	3421.0
47.5°	3983.2	3981.1	3977.7	3997.9	4001.4	4011.8	4025.0	3991.6	3931.0	3896.8	3811.8
50°	4488.4	4510.0	4518.3	4537.8	4546.2	4553.9	4533.0	4483.5	4381.1	4290.5	4190.2
52.5°	5102.2	5064.6	5116.1	5134.9	5126.6	5095.9	5020.7	4960.1	4818.6	4688.3	4533.0
55°	5817.0	5826.1	5789.9	5775.2	5746.7	5661.7	5557.9	5421.3	5242.2	5072.2	4875.8
57.5°	6545.1	6541.7	6485.2	6405.8	6308.9	6206.5	6051.8	5856.1	5647.0	5418.5	5180.9
60°	7430.7	7427.2	7312.9	7177.1	7039.1	6874.0	6631.5	6396.0	6115.9	5815.7	5532.8
62.5°	8594.2	8444.4	8332.3	8129.5	7916.3	7700.3	7372.2	7059.3	6685.2	6306.2	5975.9
65°	10085.2	9838.6	9711.1	9417.1	9086.8	8749.6	8415.9	8004.8	7501.1	7042.6	6639.2
67.5°	11188.2	10962.4	10729.0	10435.7	10073.4	9697.2	9240.1	8722.4	8150.4	7636.2	7196.6
69°	11285.0	11073.9	10793.8	10499.8	10157.0	9748.0	9249.2	8669.5	8089.8	7569.3	7136.7
70°	11138.0	10913.7	10618.9	10313.1	9929.9	9543.9	9021.3	8417.3	7836.9	7315.0	6892.8
72.5°	10041.4	9822.6	9509.0	9143.3	8750.3	8420.0	7924.0	7294.1	6662.9	6180.7	5851.9
75°	7635.5	7587.5	7365.2	7152.0	6842.6	6474.1	6020.5	5596.9	5079.2	4569.2	4262.6
77.5°	3257.9	3368.7	3484.4	3501.1	3512.2	3398.7	3328.3	3221.7	2875.4	2718.0	2555.6
80°	602.0	537.9	574.1	578.3	602.0	614.5	660.5	783.1	797.1	827.0	864.0
82.5°	213.9	217.4	223.0	225.0	227.1	235.5	266.8	319.8	367.9	430.6	514.2
85°	121.2	123.3	128.2	132.4	135.2	143.5	160.9	192.3	239.7	311.4	422.2
87.5°	36.9	41.8	44.6	50.2	52.3	53.6	61.3	82.2	105.9	156.8	228.5
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-F05-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6
2.5°	2060.2	2059.6	2058.2	2056.8	2057.5	2056.1	2051.9	2050.5	2045.6	2042.1	2039.3
5°	2079.1	2078.4	2075.6	2076.3	2075.6	2068.6	2063.7	2055.4	2050.5	2042.8	2040.0
7.5°	2118.1	2117.4	2112.5	2114.6	2113.2	2102.7	2094.4	2081.1	2074.2	2064.4	2056.8
10°	2176.6	2176.6	2171.0	2171.7	2171.7	2157.8	2143.2	2120.9	2104.8	2089.5	2076.3
12.5°	2247.7	2244.9	2244.2	2240.7	2237.9	2222.6	2200.3	2170.3	2140.4	2115.3	2097.2
15°	2319.4	2315.3	2313.2	2309.0	2305.5	2291.6	2261.6	2224.7	2184.3	2143.9	2113.9
17.5°	2366.1	2363.3	2359.1	2357.8	2352.9	2338.9	2318.0	2281.1	2230.9	2174.5	2129.2
20°	2383.5	2378.7	2375.9	2373.1	2370.3	2360.5	2360.5	2336.9	2281.1	2201.7	2132.7
22.5°	2372.4	2369.6	2365.4	2363.3	2360.5	2361.9	2389.1	2385.6	2321.5	2208.0	2107.6
25°	2346.6	2343.1	2339.6	2339.6	2338.9	2353.6	2419.1	2428.1	2333.4	2177.3	2052.6
27.5°	2320.1	2315.3	2316.6	2317.3	2320.8	2352.2	2451.8	2439.3	2301.3	2103.4	1957.8
30°	2304.1	2304.1	2307.6	2313.2	2320.1	2375.2	2477.6	2414.2	2218.4	1992.0	1832.4
32.5°	2311.1	2318.0	2325.7	2339.6	2350.1	2426.0	2486.6	2349.4	2097.9	1854.0	1701.4
35°	2373.1	2381.4	2396.1	2417.7	2430.2	2499.2	2486.6	2254.6	1957.8	1735.6	1566.3
37.5°	2508.2	2516.6	2534.0	2550.7	2563.3	2591.2	2476.2	2134.1	1840.8	1612.9	1445.0
40°	2725.6	2737.5	2750.0	2747.2	2738.9	2711.7	2455.3	2021.9	1732.8	1505.6	1325.9
42.5°	3031.5	3020.3	3019.0	2991.8	2963.9	2847.6	2440.0	1948.8	1640.1	1392.8	1207.4
45°	3384.7	3339.5	3292.8	3256.5	3214.0	2996.7	2435.8	1889.5	1537.7	1267.4	1078.5
47.5°	3740.1	3667.6	3577.0	3520.6	3451.6	3155.5	2448.3	1810.1	1406.0	1130.8	958.0
50°	4088.4	3970.0	3857.8	3790.2	3712.2	3338.1	2468.5	1676.3	1248.6	1006.8	847.9
52.5°	4411.0	4258.4	4143.5	4064.1	3968.6	3550.6	2450.4	1500.8	1112.0	887.6	743.4
55°	4717.6	4549.0	4429.8	4346.2	4234.1	3763.8	2319.4	1341.2	981.7	771.3	625.7
57.5°	4985.8	4824.2	4700.2	4586.6	4491.9	3949.1	2060.9	1209.5	856.3	638.2	498.2
60°	5299.4	5117.5	4970.5	4849.3	4737.8	4044.5	1771.1	1092.5	722.5	494.0	360.2
62.5°	5722.3	5513.3	5343.3	5204.6	5059.0	4065.5	1573.2	975.4	573.4	357.4	262.0
65°	6349.4	6091.6	5879.1	5688.1	5491.0	3979.1	1475.7	847.9	426.4	265.5	219.5
67.5°	6847.5	6580.0	6334.0	6088.8	5836.6	3818.8	1454.1	730.2	327.5	225.7	197.2
69°	6786.9	6531.9	6306.2	6040.7	5761.3	3617.5	1432.5	684.9	298.9	209.7	186.7
70°	6553.5	6311.7	6082.5	5866.5	5524.4	3393.1	1375.4	659.8	287.8	202.1	179.1
72.5°	5537.7	5257.6	5035.3	4766.4	4406.2	2521.5	1043.0	533.7	264.1	184.6	161.6
75°	4039.0	3807.0	3585.4	3287.9	2937.4	1459.0	649.4	305.2	193.7	167.2	146.3
77.5°	2358.4	2306.2	2092.3	1896.5	1549.5	742.7	372.8	182.5	150.5	151.9	128.9
80°	887.6	945.5	967.1	899.5	831.2	512.8	271.0	148.4	131.0	149.8	109.4
82.5°	647.3	751.1	763.6	731.6	680.7	478.0	216.7	119.1	106.6	160.9	94.1
85°	540.0	597.8	606.9	573.4	556.7	404.8	151.2	83.6	78.0	115.7	70.4
87.5°	273.1	287.8	295.4	267.5	268.9	188.8	60.6	35.5	42.5	49.5	39.0
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: P158013

CATALOG NUMBER: VST-F05-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	2061.6	2061.6
2.5°	2033.1	2037.3
5°	2035.9	2035.9
7.5°	2051.9	2051.9
10°	2069.3	2070.0
12.5°	2085.3	2084.6
15°	2097.9	2095.8
17.5°	2105.5	2103.4
20°	2097.9	2094.4
22.5°	2058.9	2049.1
25°	1987.8	1975.2
27.5°	1893.7	1885.4
30°	1771.1	1758.6
32.5°	1627.6	1621.3
35°	1490.3	1482.7
37.5°	1364.9	1362.8
40°	1259.0	1247.9
42.5°	1135.0	1130.1
45°	1008.9	1006.1
47.5°	890.4	887.6
50°	781.0	775.5
52.5°	673.7	664.7
55°	554.6	548.3
57.5°	425.7	420.1
60°	299.6	293.3
62.5°	213.2	206.2
65°	177.7	172.1
67.5°	160.9	154.7
69°	153.3	147.7
70°	148.4	144.2
72.5°	138.0	135.2
75°	126.1	124.0
77.5°	110.8	107.3
80°	92.7	89.2
82.5°	78.0	74.6
85°	52.3	47.4
87.5°	23.7	20.9
90°	0.0	0.0

(END OF REPORT)