

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: P159365

Luminaire Tested: **VST-F08-LED-E-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159365
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-F08-LED-E-U-T2
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (56) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20385.3 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 204.4
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



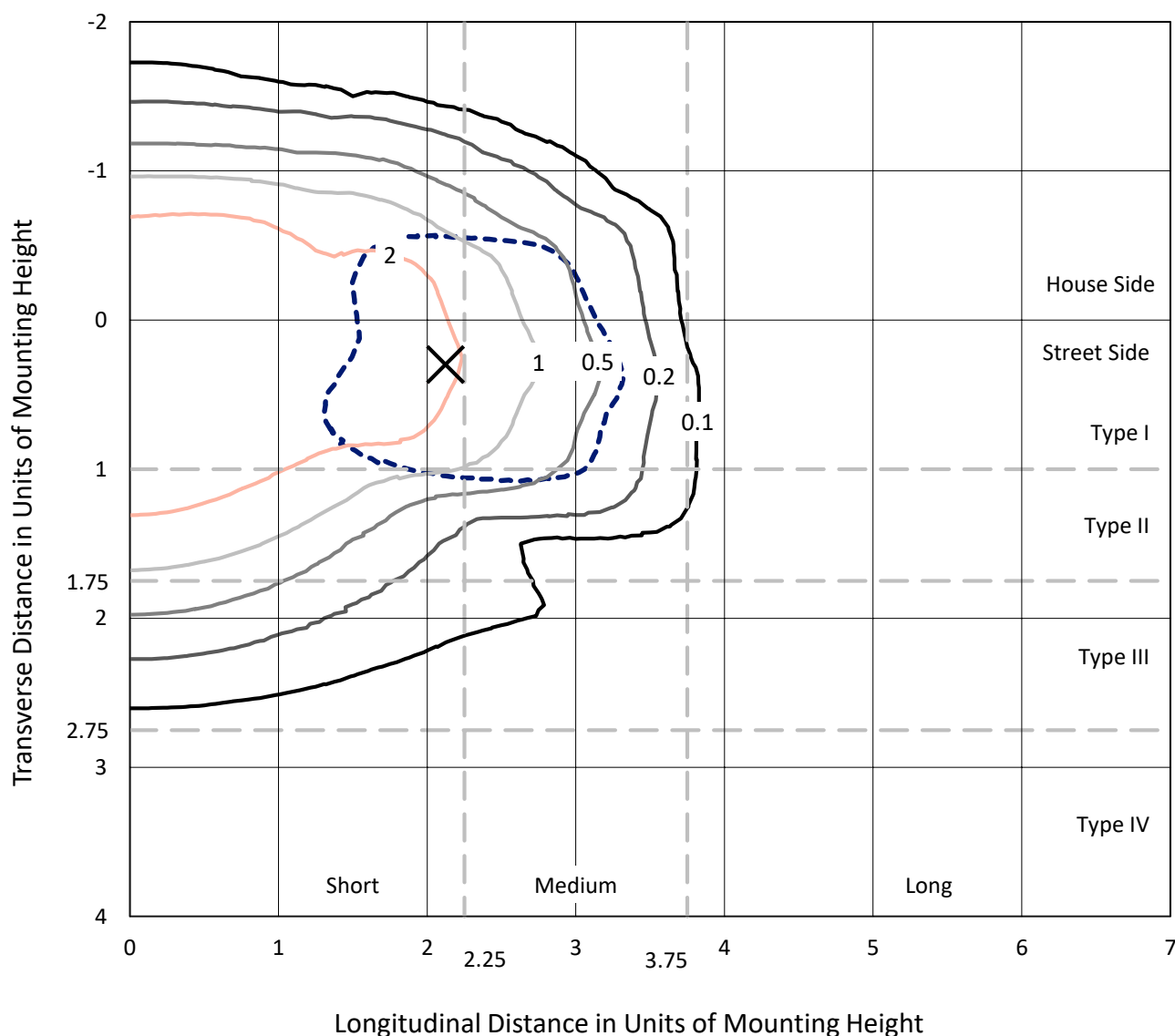
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

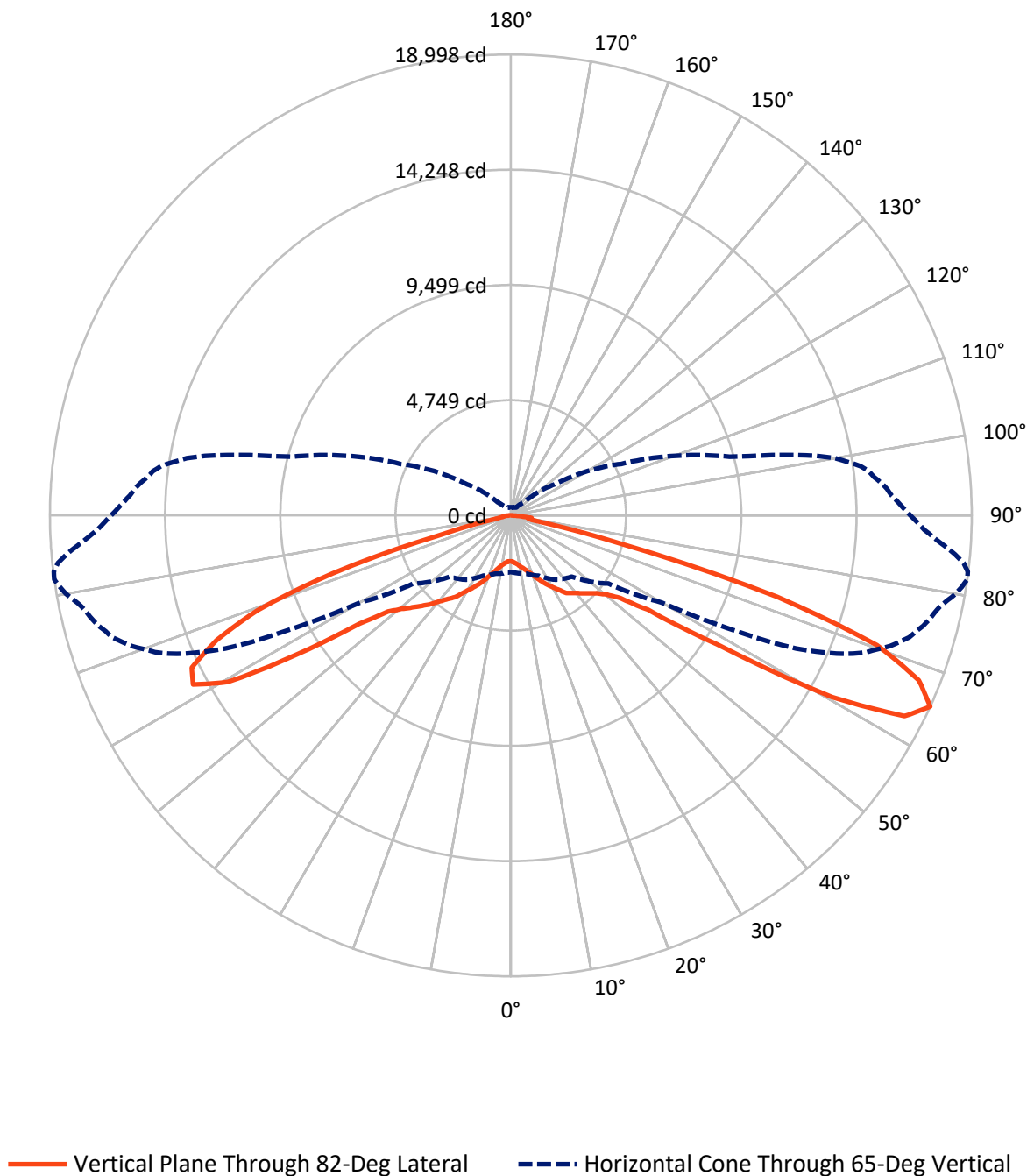


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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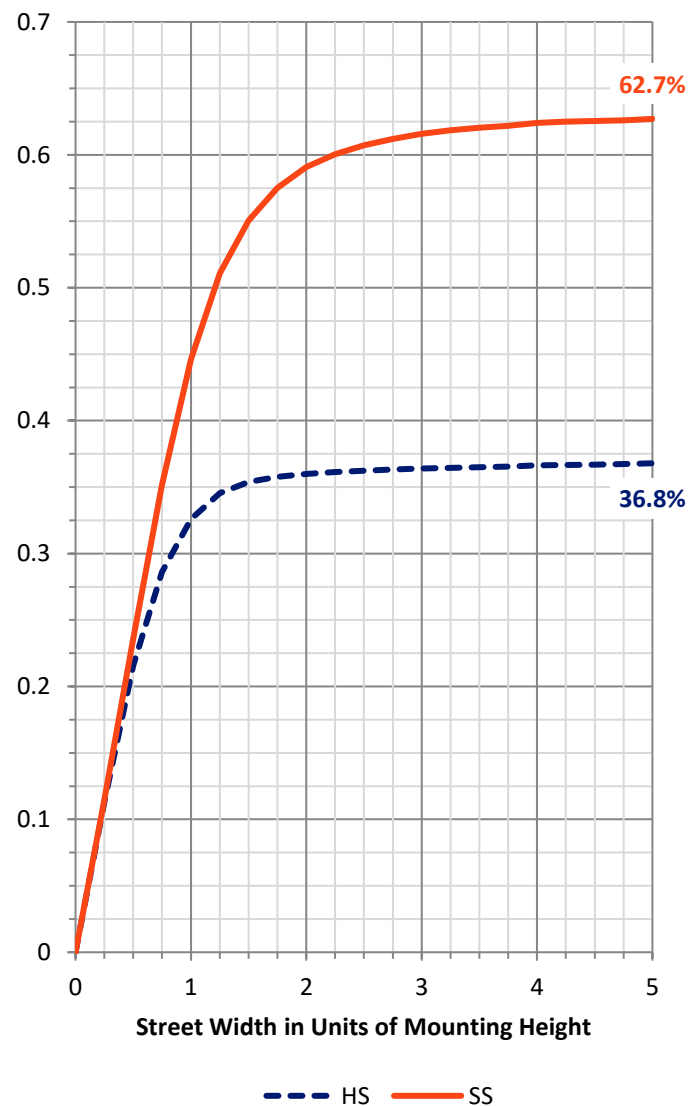
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7590.1	0.0	7590.1
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	12795.2	0.0	12795.2
	% Fixture	62.8	0.0	62.8
Total	Lumens	20385.3	0.0	20385.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	0.9
10°-20°	674.7	3.3
20°-30°	1336.9	6.6
30°-40°	2291.7	11.2
40°-50°	3442.7	16.9
50°-60°	4783.1	23.5
60°-70°	5456.7	26.8
70°-80°	1879.8	9.2
80°-90°	327.6	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°	20385.3	100.0
0°-180°	20385.3	100.0

Coefficient of Utilization



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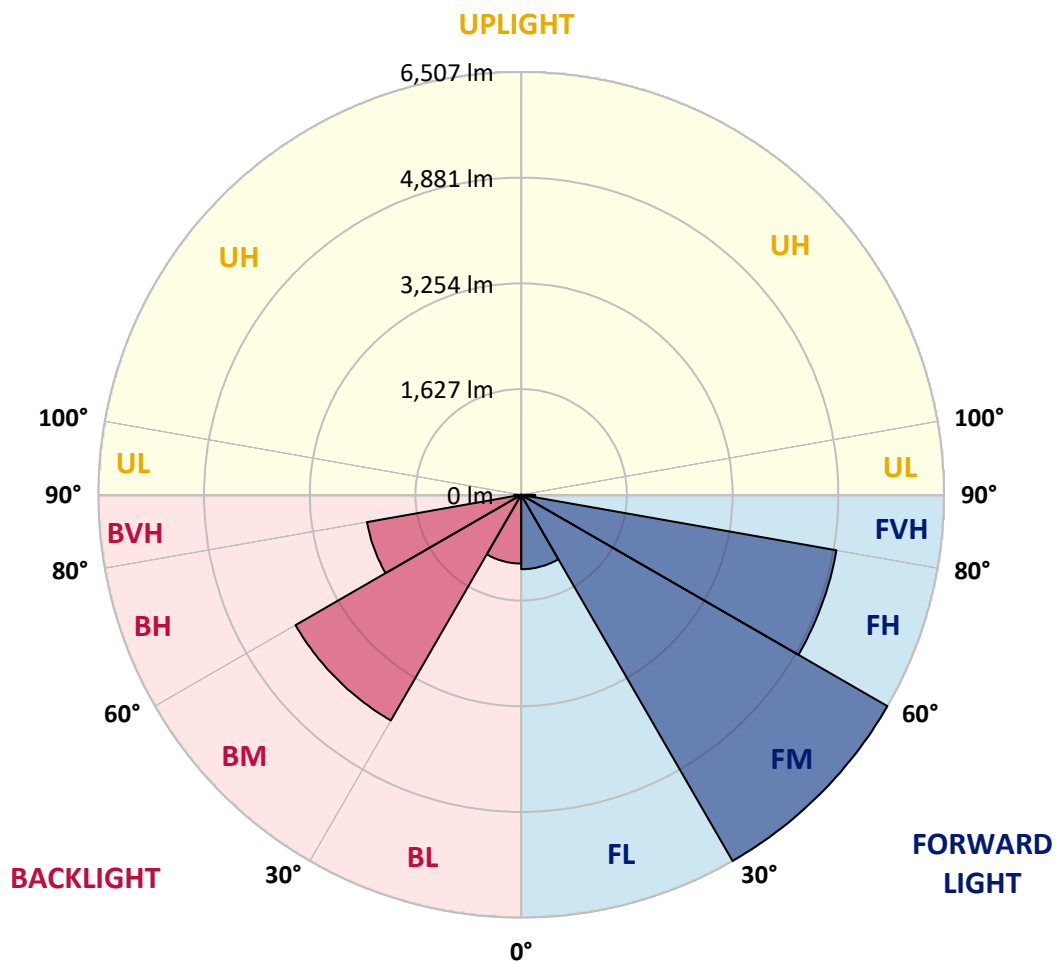
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1145.2	5.6			
FM	(30°-60°)	6507.4	31.9			
FH	(60°-80°)	4926.9	24.2			G2/5000
FVH	(80°-90°)	215.7	1.1			G2/225
BL	(0°-30°)	1058.4	5.2	B3/2500		
BM	(30°-60°)	4010.1	19.7	B3/5000		
BH	(60°-80°)	2409.6	11.8	B3/2500		G3/2500
BVH	(80°-90°)	112.0	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°	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7
2.5°	1999.8	2001.1	1999.8	1995.8	1994.5	1982.6	1969.4	1962.8	1961.4	1956.2	1957.5
5°	2123.9	2119.9	2114.7	2108.1	2101.5	2081.6	2059.2	2047.3	2043.3	2039.4	2034.1
7.5°	2234.9	2237.5	2234.9	2225.6	2208.4	2183.3	2154.3	2135.8	2134.5	2130.5	2126.6
10°	2377.5	2384.1	2368.3	2352.4	2328.6	2290.3	2257.3	2233.5	2229.6	2224.3	2221.7
12.5°	2532.1	2533.4	2528.1	2492.4	2452.8	2400.0	2352.4	2328.6	2323.4	2316.8	2314.1
15°	2697.2	2698.5	2669.4	2635.1	2574.3	2510.9	2444.9	2418.5	2411.9	2413.2	2402.6
17.5°	2827.9	2830.6	2802.8	2759.2	2686.6	2611.3	2540.0	2518.8	2514.9	2516.2	2510.9
20°	2884.7	2888.7	2871.5	2838.5	2769.8	2703.8	2652.2	2639.0	2637.7	2635.1	2645.6
22.5°	2882.1	2883.4	2876.8	2863.6	2822.6	2784.3	2777.7	2785.7	2784.3	2787.0	2796.2
25°	2858.3	2862.3	2860.9	2866.2	2859.6	2874.1	2904.5	2932.3	2936.2	2941.5	2958.7
27.5°	2919.1	2927.0	2917.7	2923.0	2933.6	2982.5	3044.5	3086.8	3094.7	3109.3	3123.8
30°	3156.8	3146.2	3134.4	3121.1	3127.7	3158.1	3228.1	3265.1	3269.1	3279.6	3299.5
32.5°	3509.5	3497.6	3487.0	3465.9	3460.6	3447.4	3471.2	3480.4	3479.1	3489.7	3494.9
35°	3907.0	3908.4	3905.7	3921.6	3934.8	3867.4	3784.2	3761.8	3771.0	3759.1	3761.8
37.5°	4246.5	4250.5	4320.5	4407.6	4432.7	4390.5	4208.2	4118.4	4088.0	4084.0	4053.7
40°	4622.9	4622.9	4728.6	4835.6	4905.6	4958.4	4741.8	4583.3	4518.6	4500.1	4424.8
42.5°	5036.4	5015.2	5111.7	5229.2	5358.6	5478.8	5366.6	5188.3	5095.8	5062.8	4930.7
45°	5375.8	5362.6	5410.2	5519.8	5729.8	5964.9	5980.8	5889.6	5834.1	5765.5	5643.9
47.5°	5584.5	5577.9	5605.6	5724.5	5987.4	6367.8	6580.4	6626.7	6593.6	6540.8	6423.2
50°	5666.4	5657.2	5677.0	5809.1	6103.6	6605.5	7075.7	7293.7	7309.5	7321.4	7284.4
52.5°	5637.3	5625.5	5666.4	5777.4	6083.8	6688.7	7462.7	7881.5	7951.5	8010.9	8132.4
55°	5358.6	5340.2	5451.1	5659.8	5997.9	6658.4	7745.4	8446.8	8594.7	8753.2	9022.7
57.5°	4932.0	4916.2	5076.0	5362.6	5846.0	6575.1	7935.6	9161.3	9494.2	9779.5	10544.3
60°	4521.2	4508.0	4601.8	4879.2	5353.4	6169.6	7700.5	9401.7	9960.5	10576.0	11972.1
62.5°	3786.8	3751.2	3876.7	4110.5	4410.3	5103.7	6674.2	8866.8	9728.0	10632.8	12525.5
65°	2327.3	2378.8	2487.1	2746.0	3237.4	3567.6	4901.6	7173.5	8309.4	9444.0	11899.4
67.5°	1478.0	1492.5	1573.1	1752.8	2133.2	2464.7	2970.6	4501.4	5377.1	6493.2	9342.3
70°	1266.7	1275.9	1344.6	1532.2	1795.0	2203.2	2248.1	2351.1	2665.5	3376.1	5492.1
72.5°	998.6	1014.4	1068.6	1231.0	1548.0	1986.5	2775.1	1858.4	1795.0	1854.5	2680.0
75°	594.4	612.9	657.8	746.3	994.6	1519.0	2907.2	2162.2	2015.6	1900.7	1849.2
77.5°	314.4	301.2	331.5	383.0	511.2	809.7	2184.7	2649.6	2546.6	2409.2	2117.3
80°	155.9	161.1	170.4	181.0	228.5	328.9	1092.3	2740.7	3037.9	3170.0	2911.1
82.5°	62.1	70.0	99.1	105.7	125.5	140.0	351.3	1519.0	2175.4	2950.8	3852.9
85°	31.7	30.4	52.8	63.4	74.0	66.0	124.2	566.6	1019.7	1589.0	2574.3
87.5°	4.0	5.3	11.9	15.9	22.5	21.1	35.7	122.8	195.5	277.4	389.6
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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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7
2.5°	1950.9	1949.6	1949.6	1944.3	1944.3	1945.6	1941.6	1939.0	1939.0	1940.3	1935.0
5°	2030.1	2026.2	2026.2	2020.9	2014.3	2014.3	2009.0	2007.7	2005.0	1999.8	1995.8
7.5°	2122.6	2118.6	2112.0	2108.1	2105.4	2101.5	2094.9	2092.2	2086.9	2081.6	2076.4
10°	2217.7	2212.4	2209.8	2203.2	2200.5	2192.6	2188.6	2190.0	2179.4	2175.4	2176.7
12.5°	2312.8	2307.5	2298.3	2295.6	2294.3	2286.4	2282.4	2279.8	2271.8	2270.5	2266.6
15°	2397.3	2400.0	2396.0	2389.4	2384.1	2382.8	2378.8	2376.2	2370.9	2365.6	2360.3
17.5°	2507.0	2510.9	2505.6	2496.4	2496.4	2495.1	2496.4	2495.1	2485.8	2489.8	2487.1
20°	2647.0	2649.6	2636.4	2640.4	2643.0	2641.7	2645.6	2649.6	2647.0	2647.0	2650.9
22.5°	2808.1	2812.1	2804.1	2809.4	2817.4	2810.7	2822.6	2821.3	2824.0	2827.9	2829.2
25°	2973.2	2981.1	2974.5	2989.1	2983.8	2989.1	3003.6	2999.6	3006.2	3016.8	3020.8
27.5°	3138.3	3143.6	3144.9	3154.2	3163.4	3171.3	3189.8	3189.8	3195.1	3213.6	3213.6
30°	3311.3	3316.6	3321.9	3335.1	3340.4	3354.9	3373.4	3378.7	3376.1	3402.5	3410.4
32.5°	3510.8	3516.1	3525.3	3541.2	3547.8	3562.3	3562.3	3576.8	3587.4	3609.9	3611.2
35°	3776.3	3780.2	3776.3	3775.0	3784.2	3804.0	3805.3	3826.5	3835.7	3858.2	3864.8
37.5°	4041.8	4040.4	4023.3	4004.8	4006.1	3998.2	3992.9	4002.1	4006.1	4007.4	4022.0
40°	4399.7	4365.4	4339.0	4292.7	4271.6	4238.6	4218.8	4217.4	4196.3	4193.7	4197.6
42.5°	4868.6	4829.0	4766.9	4689.0	4629.5	4568.8	4523.9	4497.5	4451.2	4427.5	4407.6
45°	5523.8	5426.0	5352.0	5259.6	5144.7	5039.0	4928.1	4877.9	4789.4	4735.2	4674.5
47.5°	6324.2	6227.8	6114.2	6019.1	5868.5	5721.9	5570.0	5436.6	5282.0	5159.2	5058.8
50°	7193.3	7136.5	7054.6	6966.1	6771.9	6675.5	6484.0	6303.0	6136.6	5917.4	5725.8
52.5°	8084.9	8117.9	8099.4	8067.7	7944.9	7907.9	7742.8	7522.2	7354.4	7203.9	6871.0
55°	9183.8	9223.4	9302.7	9348.9	9334.4	9428.2	9387.2	9215.5	9148.1	9078.1	8841.7
57.5°	10865.2	11147.9	11450.4	11715.8	11777.9	12110.8	12039.5	12211.2	12332.7	12245.5	12168.9
60°	12657.6	13228.2	13742.0	14279.6	14716.8	15044.4	15477.6	15769.5	15953.1	16283.3	16309.7
62.5°	13380.1	14155.4	14807.9	15431.4	15950.5	16404.8	16795.8	17198.7	17528.9	17827.4	18042.7
65°	12983.9	13793.5	14584.7	15217.4	15716.7	16107.6	16533.0	16852.6	17177.5	17369.0	17594.9
67.5°	10793.9	11866.4	12839.9	13553.1	14236.0	14633.6	15136.8	15451.2	15795.9	15998.0	16143.3
70°	7037.4	8433.6	9763.6	10845.4	11767.4	12231.0	12838.6	13267.8	13682.6	13693.1	13934.9
72.5°	3797.4	4965.0	6078.5	7184.0	8235.4	8852.3	9451.9	9973.7	10385.8	10210.1	10450.5
75°	2114.7	2661.5	3270.4	3934.8	4575.4	4928.1	5375.8	5378.5	5591.1	5256.9	5341.5
77.5°	2034.1	2009.0	2018.2	2036.7	2068.4	2001.1	1999.8	1958.8	1895.4	1780.5	1800.3
80°	2672.1	2352.4	2122.6	1762.0	1418.6	1157.1	1084.4	1101.6	1153.1	1256.1	1386.9
82.5°	3863.5	3594.0	3208.3	2640.4	2072.4	1598.2	1312.9	1165.0	1158.4	1261.4	1459.5
85°	2813.4	2975.9	2950.8	2463.4	2031.5	1649.7	1200.6	1014.4	840.1	799.1	869.1
87.5°	414.7	343.4	387.0	323.6	235.1	182.3	159.8	128.1	122.8	125.5	137.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7
2.5°	1936.4	1931.1	1925.8	1929.7	1925.8	1924.5	1920.5	1917.9	1916.5	1916.5	1916.5
5°	1995.8	1989.2	1985.2	1983.9	1979.9	1976.0	1974.7	1968.1	1966.7	1966.7	1962.8
7.5°	2076.4	2071.1	2064.5	2060.5	2057.9	2051.3	2044.7	2043.3	2042.0	2036.7	2032.8
10°	2170.1	2162.2	2154.3	2154.3	2149.0	2147.7	2141.1	2131.8	2130.5	2122.6	2119.9
12.5°	2258.6	2256.0	2246.7	2244.1	2240.1	2236.2	2232.2	2228.3	2224.3	2217.7	2220.3
15°	2364.3	2357.7	2349.8	2351.1	2349.8	2344.5	2339.2	2335.2	2332.6	2330.0	2330.0
17.5°	2491.1	2488.5	2487.1	2480.5	2475.3	2479.2	2479.2	2479.2	2472.6	2473.9	2475.3
20°	2652.2	2654.9	2652.2	2647.0	2645.6	2649.6	2640.4	2654.9	2647.0	2641.7	2644.3
22.5°	2830.6	2839.8	2829.2	2830.6	2837.2	2839.8	2830.6	2842.4	2838.5	2830.6	2837.2
25°	3024.7	3031.3	3026.0	3024.7	3028.7	3037.9	3036.6	3035.3	3044.5	3036.6	3040.6
27.5°	3224.2	3228.1	3230.8	3234.7	3237.4	3236.1	3241.3	3241.3	3246.6	3237.4	3241.3
30°	3422.3	3422.3	3427.6	3432.9	3432.9	3432.9	3443.4	3444.8	3436.8	3439.5	3430.2
32.5°	3633.6	3635.0	3640.2	3640.2	3650.8	3652.1	3664.0	3648.2	3664.0	3650.8	3653.4
35°	3881.9	3899.1	3901.8	3915.0	3925.5	3929.5	3929.5	3930.8	3945.3	3934.8	3938.7
37.5°	4027.2	4031.2	4041.8	4048.4	4048.4	4053.7	4057.6	4053.7	4057.6	4056.3	4060.3
40°	4198.9	4195.0	4206.9	4209.5	4204.2	4210.8	4209.5	4205.6	4216.1	4208.2	4213.5
42.5°	4407.6	4385.2	4383.9	4394.4	4383.9	4389.2	4387.8	4378.6	4391.8	4395.8	4391.8
45°	4630.9	4619.0	4595.2	4595.2	4584.6	4580.7	4582.0	4580.7	4582.0	4597.8	4603.1
47.5°	4994.1	4921.4	4880.5	4842.2	4810.5	4809.2	4794.6	4802.6	4813.1	4839.6	4863.3
50°	5603.0	5435.3	5332.2	5237.1	5168.4	5144.7	5116.9	5114.3	5123.5	5153.9	5194.9
52.5°	6688.7	6456.3	6237.0	6033.6	5856.6	5720.6	5653.2	5617.5	5604.3	5634.7	5674.3
55°	8675.3	8236.8	7927.7	7721.6	7281.8	7095.6	6856.5	6746.9	6639.9	6650.4	6717.8
57.5°	12069.8	11833.4	11574.5	11213.9	10944.5	10619.6	10022.5	9689.7	9704.2	9782.1	9539.1
60°	16518.4	16279.4	16172.4	15844.8	15657.2	15526.5	15209.5	14657.4	14461.9	14424.9	13978.4
62.5°	18207.8	18264.6	18349.1	18441.6	18436.3	18493.1	18215.7	18036.1	17810.2	17517.0	17075.8
65°	17766.6	17910.6	18082.3	18330.6	18613.3	18822.0	18997.6	18976.5	18765.2	18374.2	17907.9
67.5°	16272.7	16415.4	16540.9	16873.7	17337.3	17761.3	18136.5	18391.4	18250.0	17926.4	17382.3
70°	14027.3	14130.3	14209.6	14498.9	15007.4	15525.2	16015.2	16443.1	16399.5	16007.3	15572.7
72.5°	10163.9	10413.5	10548.2	10528.4	10842.8	11422.6	11491.3	11857.2	11958.9	11536.2	10844.1
75°	4951.8	4955.8	4799.9	4748.4	4764.3	4864.7	4673.1	4685.0	4619.0	4319.1	4072.1
77.5°	1730.3	1682.8	1569.2	1434.4	1241.6	1060.6	877.0	797.8	771.4	693.4	639.3
80°	1491.2	1561.2	1538.8	1427.8	1224.4	976.1	729.1	540.2	461.0	433.2	406.8
82.5°	1693.3	1962.8	2134.5	2125.2	1846.5	1386.9	865.2	496.6	354.0	310.4	285.3
85°	944.4	1015.7	1035.5	943.1	783.3	534.9	298.5	210.0	178.3	162.5	146.6
87.5°	150.6	137.4	134.7	117.6	111.0	101.7	89.8	84.5	77.9	74.0	74.0
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: P159365

CATALOG NUMBER: VST-F08-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7
2.5°	1915.2	1913.9	1909.9	1906.0	1903.3	1902.0	1900.7	1898.0	1896.7	1895.4	1892.8
5°	1960.1	1957.5	1950.9	1944.3	1941.6	1937.7	1933.7	1931.1	1928.4	1927.1	1921.8
7.5°	2030.1	2027.5	2019.6	2014.3	2013.0	2002.4	2001.1	1997.1	1990.5	1989.2	1981.3
10°	2114.7	2113.3	2106.7	2102.8	2100.1	2094.9	2086.9	2080.3	2073.7	2073.7	2068.4
12.5°	2212.4	2207.1	2211.1	2201.8	2199.2	2193.9	2190.0	2188.6	2180.7	2174.1	2172.8
15°	2327.3	2320.7	2320.7	2318.1	2315.4	2310.1	2308.8	2310.1	2302.2	2304.9	2296.9
17.5°	2470.0	2472.6	2471.3	2471.3	2464.7	2464.7	2454.1	2467.3	2458.1	2464.7	2462.0
20°	2648.3	2649.6	2647.0	2650.9	2653.6	2652.2	2650.9	2649.6	2653.6	2658.9	2654.9
22.5°	2838.5	2838.5	2837.2	2851.7	2835.8	2847.7	2851.7	2843.8	2864.9	2862.3	2866.2
25°	3044.5	3044.5	3055.1	3067.0	3069.6	3060.4	3065.7	3059.1	3072.3	3082.8	3085.5
27.5°	3236.1	3253.2	3261.2	3253.2	3259.8	3274.4	3273.0	3273.0	3282.3	3279.6	3304.7
30°	3432.9	3443.4	3454.0	3448.7	3451.4	3469.8	3471.2	3472.5	3484.4	3501.5	3520.0
32.5°	3657.4	3668.0	3662.7	3679.9	3678.5	3701.0	3705.0	3708.9	3745.9	3739.3	3777.6
35°	3933.5	3944.0	3938.7	3957.2	3954.6	3962.5	3977.0	3992.9	3999.5	4037.8	4068.2
37.5°	4062.9	4062.9	4074.8	4095.9	4103.8	4117.1	4139.5	4159.3	4192.3	4233.3	4280.8
40°	4218.8	4222.7	4238.6	4261.0	4275.6	4305.9	4346.9	4374.6	4424.8	4469.7	4525.2
42.5°	4407.6	4424.8	4443.3	4473.7	4505.4	4552.9	4611.1	4646.7	4712.8	4770.9	4839.6
45°	4628.2	4645.4	4689.0	4744.5	4790.7	4843.5	4891.1	4975.6	5035.0	5095.8	5155.2
47.5°	4895.0	4945.2	4980.9	5046.9	5103.7	5173.7	5233.2	5312.4	5377.1	5451.1	5501.3
50°	5237.1	5299.2	5345.4	5431.3	5486.8	5564.7	5640.0	5699.4	5765.5	5838.1	5879.1
52.5°	5728.5	5791.9	5850.0	5957.0	6025.7	6078.5	6178.9	6252.9	6313.6	6366.4	6411.4
55°	6793.1	6774.6	6935.7	7143.1	7166.9	7358.4	7394.1	7456.1	7568.4	7584.3	7709.7
57.5°	9835.0	9739.9	9973.7	10277.5	10224.6	10128.2	10531.1	10556.2	10499.4	10651.3	10479.5
60°	14044.5	13878.1	13941.5	14024.7	13904.5	13847.7	13867.5	13924.3	13868.8	13808.1	13641.6
62.5°	16855.2	16599.0	16415.4	16260.9	16065.4	15924.0	15765.5	15570.1	15517.2	15295.3	15109.1
65°	17454.9	17056.0	16765.4	16473.5	16204.1	15954.4	15715.4	15547.6	15325.7	15062.9	14868.7
67.5°	16795.8	16301.8	15876.5	15452.5	15147.4	14780.2	14600.6	14327.2	14053.7	13752.6	13574.3
70°	14880.6	14365.5	13830.5	13415.8	13001.0	12546.7	12458.2	12134.6	11977.4	11566.6	11495.3
72.5°	10270.9	9927.4	9688.4	9175.9	8923.6	8691.1	8617.2	8317.3	8349.0	7898.6	8062.4
75°	3652.1	3603.3	3533.2	3244.0	3192.5	3102.7	3078.9	3057.7	3271.7	2974.5	3189.8
77.5°	627.4	623.4	587.8	570.6	603.6	582.5	587.8	577.2	639.3	648.5	634.0
80°	389.6	379.1	367.2	359.3	360.6	352.7	354.0	356.6	360.6	359.3	363.2
82.5°	266.8	257.6	252.3	247.0	254.9	257.6	264.2	270.8	281.3	287.9	295.9
85°	145.3	133.4	133.4	132.1	142.7	150.6	161.1	174.4	192.8	208.7	225.9
87.5°	74.0	71.3	72.6	75.3	84.5	91.1	104.3	116.2	132.1	149.3	165.1
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: P159365

CATALOG NUMBER: VST-F08-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7
2.5°	1891.4	1891.4	1890.1	1890.1	1888.8	1887.5	1886.2	1882.2	1867.7	1854.5	1845.2
5°	1920.5	1916.5	1915.2	1911.3	1909.9	1907.3	1903.3	1899.4	1873.0	1849.2	1832.0
7.5°	1979.9	1974.7	1972.0	1968.1	1964.1	1958.8	1953.5	1949.6	1917.9	1890.1	1869.0
10°	2057.9	2055.2	2053.9	2048.6	2048.6	2040.7	2039.4	2030.1	1995.8	1970.7	1952.2
12.5°	2166.2	2160.9	2159.6	2153.0	2155.6	2153.0	2150.3	2145.0	2119.9	2090.9	2065.8
15°	2300.9	2300.9	2294.3	2289.0	2290.3	2287.7	2293.0	2286.4	2270.5	2244.1	2203.2
17.5°	2463.4	2460.7	2463.4	2459.4	2462.0	2464.7	2458.1	2459.4	2451.5	2418.5	2357.7
20°	2652.2	2648.3	2664.1	2657.5	2672.1	2658.9	2661.5	2665.5	2665.5	2621.9	2540.0
22.5°	2868.9	2866.2	2866.2	2879.4	2884.7	2886.0	2891.3	2895.3	2905.8	2850.4	2719.6
25°	3085.5	3094.7	3096.0	3113.2	3121.1	3121.1	3125.1	3139.6	3171.3	3094.7	2925.7
27.5°	3306.1	3328.5	3333.8	3345.7	3357.6	3369.5	3378.7	3389.3	3440.8	3357.6	3137.0
30°	3526.6	3551.7	3570.2	3583.4	3598.0	3627.0	3632.3	3653.4	3739.3	3637.6	3337.8
32.5°	3785.5	3821.2	3845.0	3862.1	3884.6	3912.3	3928.2	3954.6	4037.8	3871.4	3484.4
35°	4094.6	4115.7	4150.1	4179.1	4192.3	4239.9	4265.0	4271.6	4335.0	4073.5	3592.7
37.5°	4308.6	4344.2	4403.7	4444.6	4468.4	4494.8	4537.1	4564.8	4625.6	4257.1	3646.8
40°	4580.7	4634.8	4682.4	4743.1	4781.4	4801.3	4843.5	4866.0	4873.9	4414.2	3629.7
42.5°	4912.2	4961.1	5024.5	5073.3	5102.4	5124.9	5159.2	5168.4	5065.4	4488.2	3537.2
45°	5223.9	5299.2	5353.4	5389.0	5410.2	5422.0	5443.2	5444.5	5223.9	4451.2	3378.7
47.5°	5559.4	5613.6	5663.8	5688.9	5686.2	5688.9	5680.9	5675.6	5303.2	4323.1	3175.3
50°	5930.6	5966.2	5987.4	5999.3	6005.9	5980.8	5945.1	5921.3	5309.8	4140.8	2969.2
52.5°	6428.5	6473.4	6469.5	6468.2	6415.3	6391.5	6296.4	6247.6	5271.5	3926.9	2736.8
55°	7689.9	7646.3	7560.5	7602.8	7387.5	7275.2	7127.3	6989.9	5321.7	3723.4	2467.3
57.5°	10548.2	10565.4	10321.0	10190.3	9827.0	9372.7	9006.8	8651.5	5773.4	3599.3	2116.0
60°	13530.7	13306.1	12995.7	12522.9	12055.3	11380.4	10729.2	10113.7	6223.8	3469.8	1699.9
62.5°	14833.0	14513.4	14044.5	13432.9	12698.6	11873.0	11062.0	10311.8	6005.9	3051.1	1236.3
65°	14568.9	14080.2	13562.4	12846.5	11953.6	11048.8	10101.8	9335.7	5024.5	2275.8	762.1
67.5°	13187.3	12772.5	12225.7	11376.4	10421.4	9479.7	8611.9	7753.3	3732.7	1418.6	426.6
70°	11130.7	10725.2	10170.5	9301.4	8347.7	7446.9	6527.6	5827.5	2378.8	684.2	307.8
72.5°	7721.6	7392.7	7000.5	6381.0	5544.9	4726.0	4103.8	3566.3	1318.2	363.2	281.3
75°	3135.7	3137.0	3065.7	2804.1	2369.6	2043.3	1742.2	1478.0	550.8	309.1	277.4
77.5°	710.6	722.5	789.9	748.9	674.9	631.4	565.3	499.3	335.5	318.3	280.0
80°	359.3	360.6	356.6	357.9	354.0	355.3	350.0	346.1	314.4	327.6	280.0
82.5°	299.8	306.4	305.1	305.1	306.4	306.4	306.4	305.1	326.2	344.7	270.8
85°	237.8	251.0	261.5	272.1	284.0	291.9	295.9	299.8	317.0	339.5	245.7
87.5°	179.6	195.5	208.7	219.3	237.8	237.8	251.0	260.2	260.2	265.5	129.4
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: P159365

CATALOG NUMBER: VST-F08-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1896.7	1896.7	1896.7	1896.7	1896.7
2.5°	1832.0	1826.7	1821.4	1818.8	1813.5
5°	1818.8	1808.2	1801.6	1801.6	1796.3
7.5°	1857.1	1853.1	1843.9	1838.6	1843.9
10°	1939.0	1932.4	1921.8	1913.9	1917.9
12.5°	2048.6	2022.2	2001.1	1991.8	1985.2
15°	2162.2	2109.4	2067.1	2043.3	2036.7
17.5°	2283.7	2191.3	2127.9	2092.2	2085.6
20°	2407.9	2293.0	2203.2	2156.9	2155.6
22.5°	2557.1	2403.9	2289.0	2228.3	2224.3
25°	2714.3	2503.0	2351.1	2273.2	2265.2
27.5°	2850.4	2582.2	2389.4	2296.9	2289.0
30°	2964.0	2641.7	2421.1	2314.1	2303.5
32.5°	3045.9	2676.0	2434.3	2319.4	2307.5
35°	3072.3	2662.8	2397.3	2271.8	2258.6
37.5°	3036.6	2577.0	2294.3	2155.6	2139.8
40°	2929.6	2426.4	2126.6	1983.9	1964.1
42.5°	2765.8	2241.5	1924.5	1788.4	1763.3
45°	2563.8	2032.8	1723.7	1571.8	1559.9
47.5°	2352.4	1813.5	1497.8	1360.5	1345.9
50°	2123.9	1559.9	1277.3	1128.0	1128.0
52.5°	1851.8	1312.9	1021.0	908.7	899.5
55°	1538.8	1034.2	813.6	727.8	715.9
57.5°	1202.0	795.1	649.9	599.7	586.5
60°	883.6	597.0	523.1	495.3	490.0
62.5°	599.7	454.4	421.3	409.5	408.1
65°	405.5	354.0	344.7	340.8	342.1
67.5°	311.7	294.5	290.6	289.3	289.3
70°	270.8	260.2	256.2	257.6	256.2
72.5°	254.9	240.4	241.7	244.4	243.0
75°	249.6	231.1	236.4	237.8	232.5
77.5°	245.7	220.6	233.8	237.8	223.2
80°	237.8	211.3	243.0	244.4	219.3
82.5°	217.9	187.6	243.0	224.5	198.1
85°	184.9	142.7	274.7	195.5	146.6
87.5°	117.6	84.5	186.2	133.4	88.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)