

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: P159351

Luminaire Tested: **VST-E07-LED-E-U-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159351
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-E07-LED-E-U-T2-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (147) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22171.1 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 172.5
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

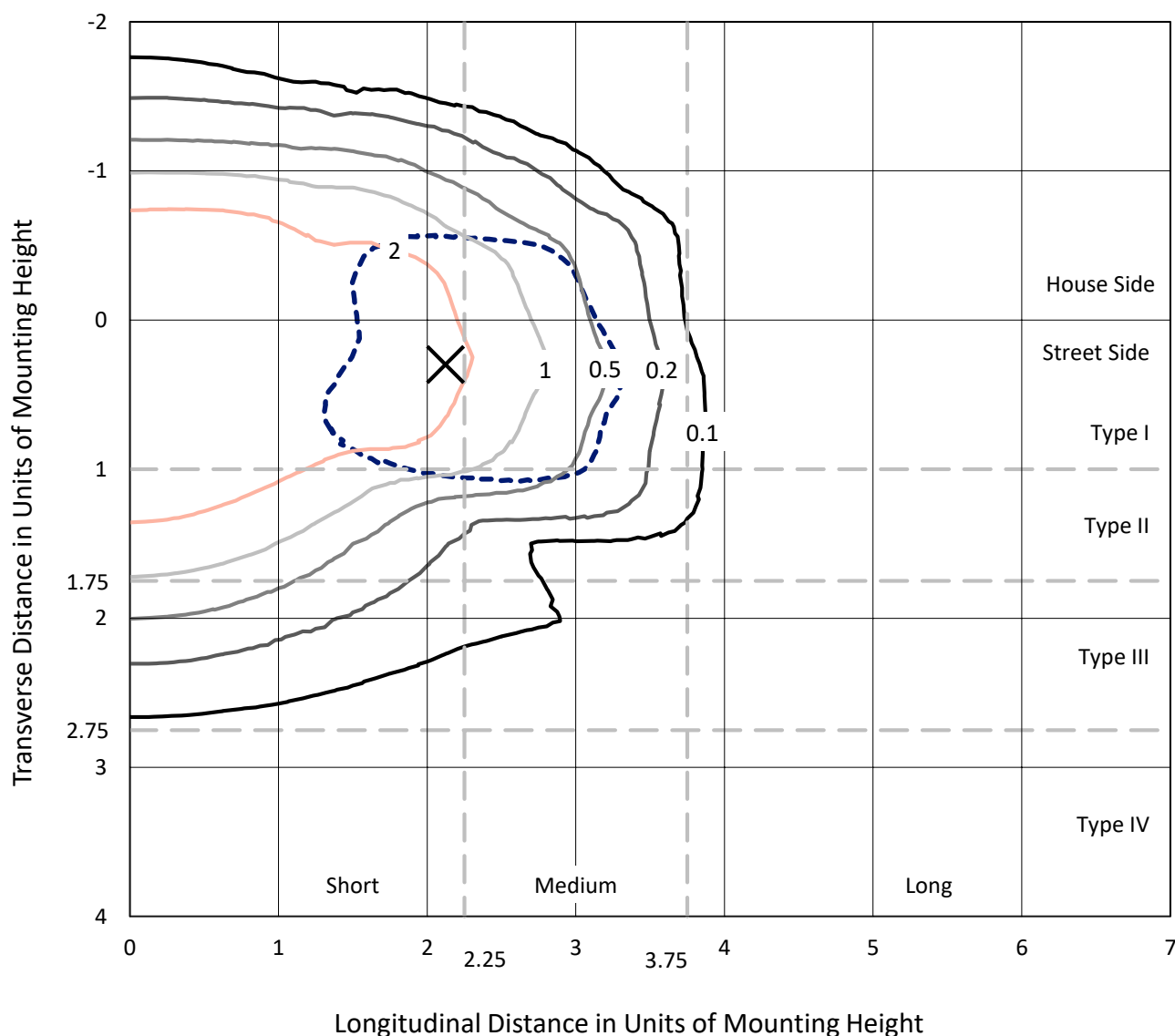


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

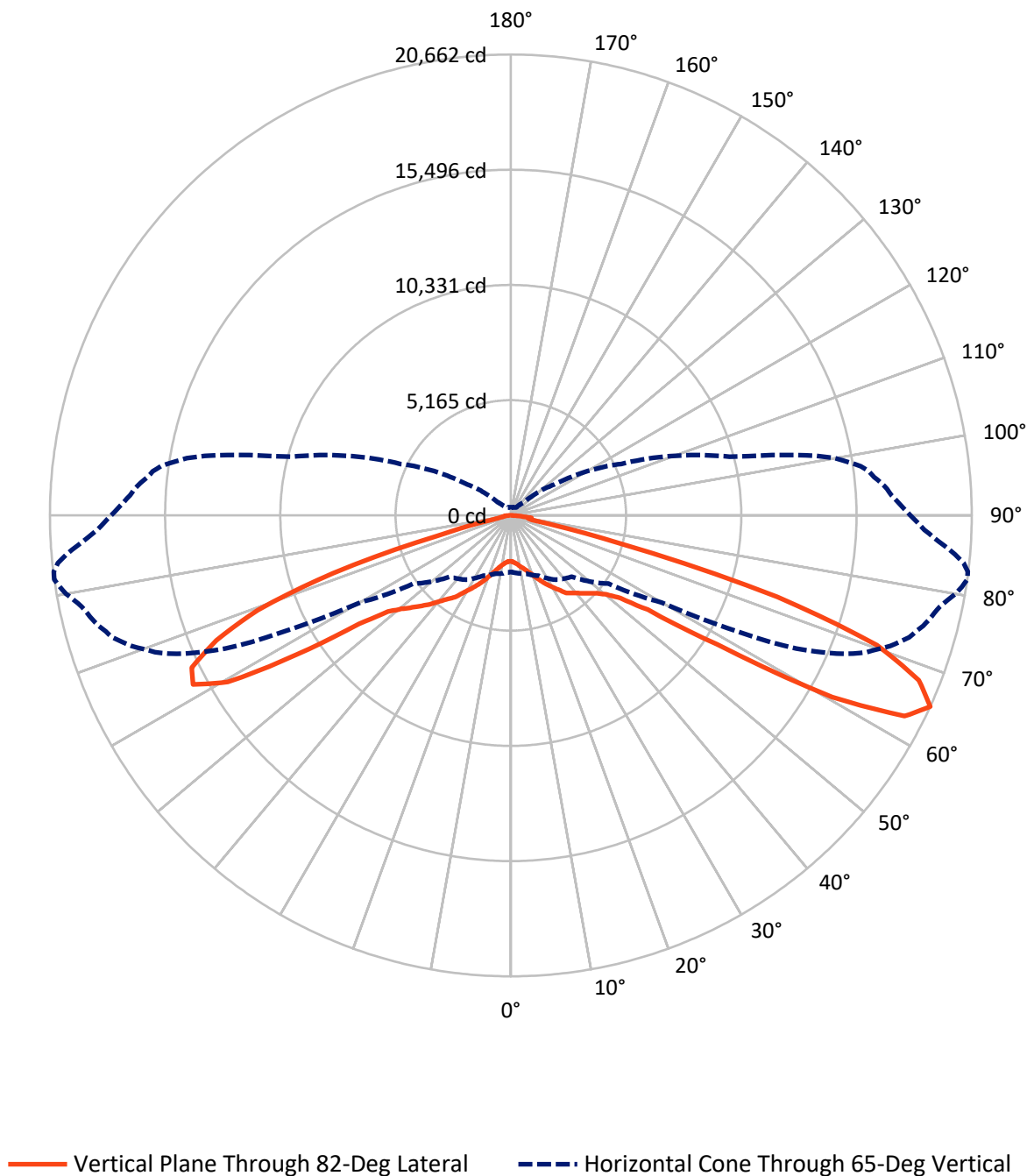


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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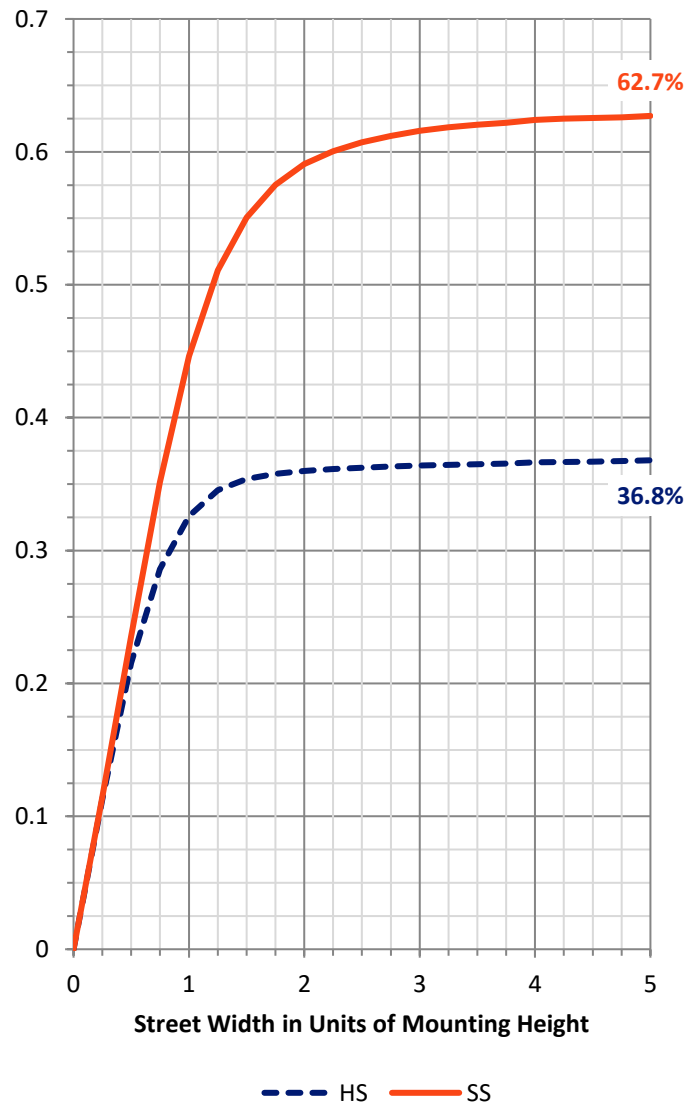
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8255.0	0.0	8255.0
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	13916.1	0.0	13916.1
	% Fixture	62.8	0.0	62.8
Total	Lumens	22171.1	0.0	22171.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	0.9
10°-20°	733.8	3.3
20°-30°	1454.0	6.6
30°-40°	2492.5	11.2
40°-50°	3744.3	16.9
50°-60°	5202.1	23.5
60°-70°	5934.8	26.8
70°-80°	2044.5	9.2
80°-90°	356.3	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°	22171.1	100.0
0°-180°	22171.1	100.0

Coefficient of Utilization



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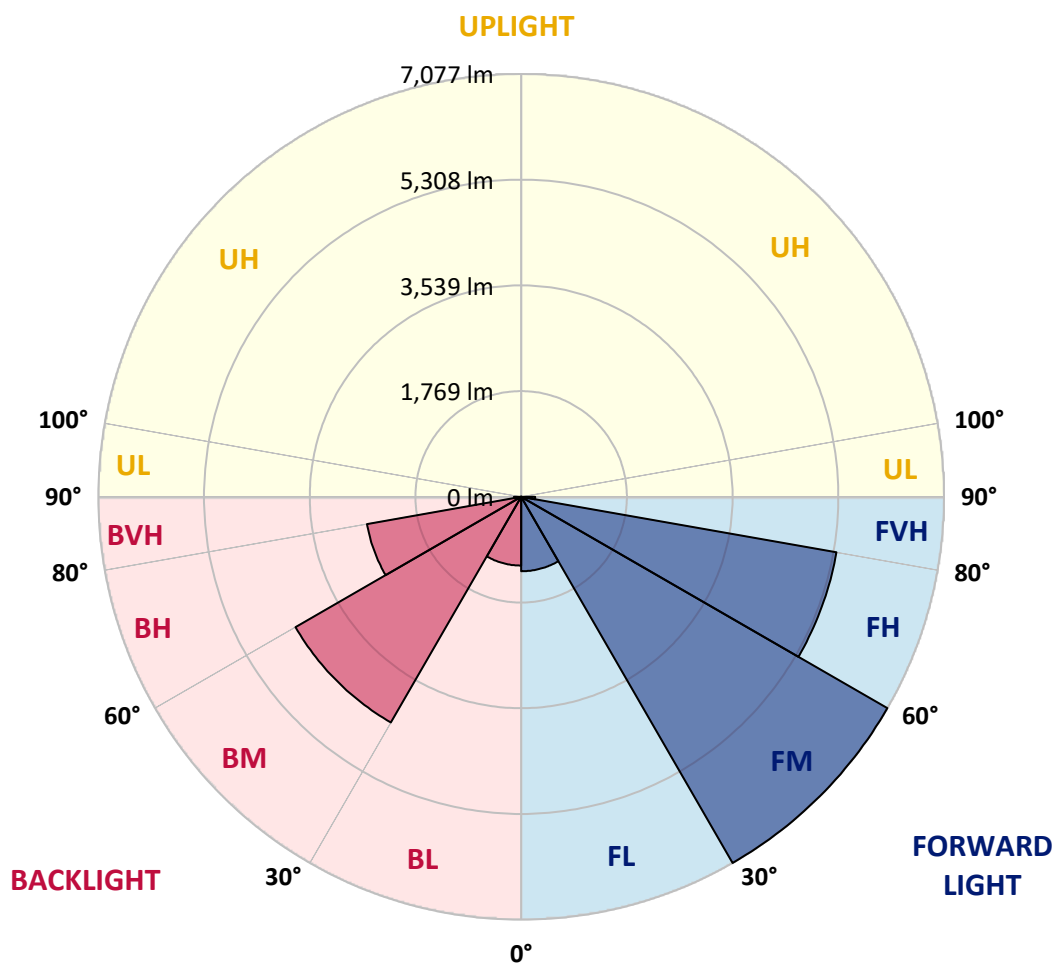
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.5	5.6			
FM	(30°-60°)	7077.5	31.9			
FH	(60°-80°)	5358.5	24.2			G3/7500
FVH	(80°-90°)	234.6	1.1			G3/500
BL	(0°-30°)	1151.1	5.2	B3/2500		
BM	(30°-60°)	4361.4	19.7	B3/5000		
BH	(60°-80°)	2620.7	11.8	B4/5000		G4/5000
BVH	(80°-90°)	121.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9
2.5°	2174.9	2176.4	2174.9	2170.6	2169.2	2156.3	2141.9	2134.7	2133.3	2127.5	2129.0
5°	2310.0	2305.7	2299.9	2292.7	2285.5	2264.0	2239.6	2226.6	2222.3	2218.0	2212.3
7.5°	2430.6	2433.5	2430.6	2420.6	2401.9	2374.6	2343.0	2322.9	2321.5	2317.2	2312.8
10°	2585.8	2593.0	2575.7	2558.5	2532.6	2491.0	2455.1	2429.2	2424.9	2419.1	2416.3
12.5°	2753.9	2755.3	2749.6	2710.8	2667.7	2610.2	2558.5	2532.6	2526.9	2519.7	2516.8
15°	2933.4	2934.9	2903.3	2865.9	2799.8	2730.9	2659.0	2630.3	2623.1	2624.6	2613.1
17.5°	3075.6	3078.5	3048.4	3000.9	2921.9	2840.1	2762.5	2739.5	2735.2	2736.6	2730.9
20°	3137.4	3141.7	3123.1	3087.1	3012.4	2940.6	2884.6	2870.2	2868.8	2865.9	2877.4
22.5°	3134.5	3136.0	3128.8	3114.4	3069.9	3028.2	3021.1	3029.7	3028.2	3031.1	3041.2
25°	3108.7	3113.0	3111.6	3117.3	3110.1	3125.9	3159.0	3189.1	3193.4	3199.2	3217.9
27.5°	3174.8	3183.4	3173.3	3179.1	3190.6	3243.7	3311.2	3357.2	3365.8	3381.6	3397.4
30°	3433.3	3421.9	3408.9	3394.6	3401.7	3434.8	3510.9	3551.1	3555.5	3566.9	3588.5
32.5°	3816.9	3804.0	3792.5	3769.5	3763.8	3749.4	3775.2	3785.3	3783.9	3795.4	3801.1
35°	4249.3	4250.7	4247.9	4265.1	4279.5	4206.2	4115.7	4091.3	4101.3	4088.4	4091.3
37.5°	4618.5	4622.8	4698.9	4793.8	4821.1	4775.1	4576.8	4479.2	4446.1	4441.8	4408.8
40°	5027.9	5027.9	5142.8	5259.2	5335.3	5392.8	5157.2	4984.8	4914.4	4894.3	4812.4
42.5°	5477.6	5454.6	5559.4	5687.3	5828.1	5958.8	5836.7	5642.8	5542.2	5506.3	5362.6
45°	5846.7	5832.4	5884.1	6003.3	6231.7	6487.4	6504.7	6405.6	6345.2	6270.5	6138.4
47.5°	6073.7	6066.5	6096.7	6226.0	6511.9	6925.6	7156.9	7207.2	7171.2	7113.8	6985.9
50°	6162.8	6152.7	6174.3	6317.9	6638.3	7184.2	7695.6	7932.6	7949.9	7962.8	7922.6
52.5°	6131.2	6118.3	6162.8	6283.5	6616.7	7274.7	8116.5	8571.9	8648.0	8712.7	8844.8
55°	5828.1	5808.0	5928.6	6155.6	6523.4	7241.6	8423.9	9186.7	9347.6	9520.0	9813.1
57.5°	5364.1	5346.8	5520.7	5832.4	6358.2	7151.1	8630.8	9963.9	10325.9	10636.2	11468.0
60°	4917.3	4902.9	5004.9	5306.6	5822.3	6710.1	8375.1	10225.3	10833.0	11502.4	13020.9
62.5°	4118.6	4079.8	4216.3	4470.5	4796.6	5550.8	7258.9	9643.5	10580.2	11564.2	13622.8
65°	2531.2	2587.2	2705.0	2986.6	3521.0	3880.1	5331.0	7801.9	9037.3	10271.3	12941.9
67.5°	1607.5	1623.3	1710.9	1906.3	2320.0	2680.6	3230.8	4895.8	5848.2	7062.1	10160.7
70°	1377.6	1387.7	1462.4	1666.4	1952.3	2396.2	2445.0	2557.1	2899.0	3671.8	5973.2
72.5°	1086.0	1103.3	1162.2	1338.9	1683.6	2160.6	3018.2	2021.2	1952.3	2016.9	2914.8
75°	646.4	666.6	715.4	811.6	1081.7	1652.0	3161.8	2351.6	2192.2	2067.2	2011.2
77.5°	341.9	327.5	360.6	416.6	555.9	880.6	2376.0	2881.7	2769.7	2620.3	2302.8
80°	169.5	175.3	185.3	196.8	248.5	357.7	1188.0	2980.8	3304.1	3447.7	3166.2
82.5°	67.5	76.1	107.7	114.9	136.5	152.3	382.1	1652.0	2366.0	3209.2	4190.4
85°	34.5	33.0	57.5	69.0	80.4	71.8	135.0	616.3	1109.0	1728.2	2799.8
87.5°	4.3	5.7	12.9	17.2	24.4	23.0	38.8	133.6	212.6	301.7	423.8
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°	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9
2.5°	2121.8	2120.3	2120.3	2114.6	2114.6	2116.0	2111.7	2108.9	2108.9	2110.3	2104.5
5°	2208.0	2203.7	2203.7	2197.9	2190.7	2190.7	2185.0	2183.6	2180.7	2174.9	2170.6
7.5°	2308.5	2304.2	2297.0	2292.7	2289.9	2285.5	2278.4	2275.5	2269.7	2264.0	2258.3
10°	2412.0	2406.2	2403.3	2396.2	2393.3	2384.7	2380.4	2381.8	2370.3	2366.0	2367.4
12.5°	2515.4	2509.6	2499.6	2496.7	2495.3	2486.7	2482.4	2479.5	2470.9	2469.4	2465.1
15°	2607.3	2610.2	2605.9	2598.7	2593.0	2591.5	2587.2	2584.3	2578.6	2572.9	2567.1
17.5°	2726.6	2730.9	2725.1	2715.1	2715.1	2713.6	2715.1	2713.6	2703.6	2707.9	2705.0
20°	2878.8	2881.7	2867.3	2871.7	2874.5	2873.1	2877.4	2881.7	2878.8	2878.8	2883.2
22.5°	3054.1	3058.4	3049.8	3055.5	3064.2	3057.0	3069.9	3068.5	3071.3	3075.6	3077.1
25°	3233.7	3242.3	3235.1	3250.9	3245.2	3250.9	3266.7	3262.4	3269.6	3281.1	3285.4
27.5°	3413.2	3419.0	3420.4	3430.5	3440.5	3449.2	3469.3	3469.3	3475.0	3495.1	3495.1
30°	3601.4	3607.2	3612.9	3627.3	3633.0	3648.8	3668.9	3674.7	3671.8	3700.5	3709.2
32.5°	3818.3	3824.1	3834.1	3851.4	3858.6	3874.4	3874.4	3890.2	3901.7	3926.1	3927.5
35°	4107.1	4111.4	4107.1	4105.7	4115.7	4137.3	4138.7	4161.7	4171.7	4196.2	4203.3
37.5°	4395.8	4394.4	4375.7	4355.6	4357.0	4348.4	4342.7	4352.7	4357.0	4358.5	4374.3
40°	4785.1	4747.8	4719.1	4668.8	4645.8	4609.9	4588.3	4586.9	4563.9	4561.0	4565.3
42.5°	5295.1	5252.0	5184.5	5099.7	5035.1	4969.0	4920.2	4891.4	4841.2	4815.3	4793.8
45°	6007.6	5901.3	5820.9	5720.3	5595.4	5480.4	5359.8	5305.2	5208.9	5150.0	5083.9
47.5°	6878.2	6773.3	6649.8	6546.3	6382.6	6223.1	6057.9	5912.8	5744.8	5611.2	5502.0
50°	7823.4	7761.7	7672.6	7576.4	7365.2	7260.3	7052.0	6855.2	6674.2	6435.7	6227.4
52.5°	8793.1	8829.0	8808.9	8774.4	8640.8	8600.6	8421.0	8181.1	7998.7	7834.9	7472.9
55°	9988.3	10031.4	10117.6	10167.9	10152.1	10254.1	10209.5	10022.8	9949.5	9873.4	9616.2
57.5°	11817.0	12124.5	12453.4	12742.2	12809.7	13171.7	13094.1	13280.9	13413.0	13318.2	13234.9
60°	13766.4	14387.0	14945.8	15530.5	16006.0	16362.3	16833.5	17150.9	17350.6	17709.8	17738.5
62.5°	14552.2	15395.5	16105.1	16783.2	17347.7	17841.9	18267.1	18705.3	19064.4	19389.1	19623.2
65°	14121.3	15001.9	15862.4	16550.5	17093.5	17518.7	17981.3	18328.9	18682.3	18890.6	19136.3
67.5°	11739.5	12905.9	13964.7	14740.4	15483.1	15915.5	16462.8	16804.7	17179.7	17399.5	17557.5
70°	7653.9	9172.4	10619.0	11795.5	12798.2	13302.4	13963.2	14430.1	14881.2	14892.7	15155.6
72.5°	4130.1	5400.0	6611.0	7813.4	8956.9	9627.7	10279.9	10847.4	11295.6	11104.5	11366.0
75°	2299.9	2894.6	3556.9	4279.5	4976.2	5359.8	5846.7	5849.6	6080.9	5717.5	5809.4
77.5°	2212.3	2185.0	2195.0	2215.2	2249.6	2176.4	2174.9	2130.4	2061.4	1936.5	1958.0
80°	2906.1	2558.5	2308.5	1916.4	1542.9	1258.4	1179.4	1198.1	1254.1	1366.2	1508.4
82.5°	4201.9	3908.8	3489.4	2871.7	2253.9	1738.2	1427.9	1267.0	1259.9	1371.9	1587.4
85°	3059.8	3236.5	3209.2	2679.2	2209.4	1794.2	1305.8	1103.3	913.6	869.1	945.2
87.5°	451.1	373.5	420.9	352.0	255.7	198.2	173.8	139.3	133.6	136.5	149.4
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°	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9
2.5°	2106.0	2100.2	2094.5	2098.8	2094.5	2093.0	2088.7	2085.9	2084.4	2084.4	2084.4
5°	2170.6	2163.4	2159.1	2157.7	2153.4	2149.1	2147.6	2140.5	2139.0	2139.0	2134.7
7.5°	2258.3	2252.5	2245.3	2241.0	2238.1	2231.0	2223.8	2222.3	2220.9	2215.2	2210.8
10°	2360.2	2351.6	2343.0	2343.0	2337.3	2335.8	2328.6	2318.6	2317.2	2308.5	2305.7
12.5°	2456.5	2453.6	2443.6	2440.7	2436.4	2432.1	2427.8	2423.5	2419.1	2412.0	2414.8
15°	2571.4	2564.2	2555.6	2557.1	2555.6	2549.9	2544.1	2539.8	2536.9	2534.1	2534.1
17.5°	2709.3	2706.5	2705.0	2697.8	2692.1	2696.4	2696.4	2696.4	2689.2	2690.7	2692.1
20°	2884.6	2887.5	2884.6	2878.8	2877.4	2881.7	2871.7	2887.5	2878.8	2873.1	2876.0
22.5°	3078.5	3088.6	3077.1	3078.5	3085.7	3088.6	3078.5	3091.5	3087.1	3078.5	3085.7
25°	3289.7	3296.9	3291.1	3289.7	3294.0	3304.1	3302.6	3301.2	3311.2	3302.6	3306.9
27.5°	3506.6	3510.9	3513.8	3518.1	3521.0	3519.5	3525.3	3525.3	3531.0	3521.0	3525.3
30°	3722.1	3722.1	3727.8	3733.6	3733.6	3733.6	3745.1	3746.5	3737.9	3740.8	3730.7
32.5°	3951.9	3953.4	3959.1	3959.1	3970.6	3972.1	3985.0	3967.7	3985.0	3970.6	3973.5
35°	4222.0	4240.7	4243.6	4257.9	4269.4	4273.7	4273.7	4275.2	4291.0	4279.5	4283.8
37.5°	4380.0	4384.3	4395.8	4403.0	4403.0	4408.8	4413.1	4408.8	4413.1	4411.6	4415.9
40°	4566.8	4562.5	4575.4	4578.3	4572.5	4579.7	4578.3	4574.0	4585.5	4576.8	4582.6
42.5°	4793.8	4769.3	4767.9	4779.4	4767.9	4773.6	4772.2	4762.2	4776.5	4780.8	4776.5
45°	5036.5	5023.6	4997.7	4997.7	4986.3	4981.9	4983.4	4981.9	4983.4	5000.6	5006.4
47.5°	5431.6	5352.6	5308.0	5266.4	5231.9	5230.5	5214.7	5223.3	5234.8	5263.5	5289.4
50°	6093.8	5911.4	5799.3	5695.9	5621.2	5595.4	5565.2	5562.3	5572.4	5605.4	5649.9
52.5°	7274.7	7021.8	6783.4	6562.1	6369.7	6221.7	6148.4	6109.6	6095.3	6128.3	6171.4
55°	9435.2	8958.3	8622.2	8398.1	7919.7	7717.1	7457.1	7337.9	7221.5	7233.0	7306.3
57.5°	13127.2	12870.0	12588.5	12196.3	11903.2	11549.8	10900.5	10538.5	10554.3	10639.1	10374.7
60°	17965.5	17705.4	17589.1	17232.8	17028.8	16886.6	16541.8	15941.4	15728.8	15688.5	15203.0
62.5°	19802.8	19864.6	19956.5	20057.1	20051.3	20113.1	19811.4	19616.1	19370.4	19051.5	18571.7
65°	19323.0	19479.6	19666.3	19936.4	20243.8	20470.8	20661.9	20638.9	20409.0	19983.8	19476.7
67.5°	17698.3	17853.4	17989.9	18351.9	18856.1	19317.3	19725.2	20002.5	19848.8	19496.8	18905.0
70°	15256.1	15368.2	15454.4	15769.0	16322.1	16885.2	17418.1	17883.6	17836.2	17409.5	16936.9
72.5°	11054.2	11325.7	11472.3	11450.7	11792.6	12423.3	12498.0	12895.9	13006.5	12546.8	11794.1
75°	5385.6	5389.9	5220.4	5164.4	5181.6	5290.8	5082.5	5095.4	5023.6	4697.5	4428.9
77.5°	1881.9	1830.2	1706.6	1560.1	1350.4	1153.5	953.9	867.7	838.9	754.2	695.3
80°	1621.9	1698.0	1673.6	1552.9	1331.7	1061.6	793.0	587.5	501.4	471.2	442.5
82.5°	1841.7	2134.7	2321.5	2311.4	2008.3	1508.4	940.9	540.1	385.0	337.6	310.3
85°	1027.1	1104.7	1126.3	1025.7	851.9	581.8	324.7	228.4	193.9	176.7	159.5
87.5°	163.8	149.4	146.5	127.9	120.7	110.6	97.7	91.9	84.8	80.4	80.4
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-E07-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9
2.5°	2083.0	2081.6	2077.2	2072.9	2070.1	2068.6	2067.2	2064.3	2062.9	2061.4	2058.6
5°	2131.8	2129.0	2121.8	2114.6	2111.7	2107.4	2103.1	2100.2	2097.4	2095.9	2090.2
7.5°	2208.0	2205.1	2196.5	2190.7	2189.3	2177.8	2176.4	2172.1	2164.9	2163.4	2154.8
10°	2299.9	2298.5	2291.3	2287.0	2284.1	2278.4	2269.7	2262.6	2255.4	2255.4	2249.6
12.5°	2406.2	2400.5	2404.8	2394.7	2391.9	2386.1	2381.8	2380.4	2371.7	2364.6	2363.1
15°	2531.2	2524.0	2524.0	2521.1	2518.3	2512.5	2511.1	2512.5	2503.9	2506.8	2498.2
17.5°	2686.3	2689.2	2687.8	2687.8	2680.6	2680.6	2669.1	2683.5	2673.4	2680.6	2677.7
20°	2880.3	2881.7	2878.8	2883.2	2886.0	2884.6	2883.2	2881.7	2886.0	2891.8	2887.5
22.5°	3087.1	3087.1	3085.7	3101.5	3084.3	3097.2	3101.5	3092.9	3115.9	3113.0	3117.3
25°	3311.2	3311.2	3322.7	3335.7	3338.5	3328.5	3334.2	3327.0	3341.4	3352.9	3355.8
27.5°	3519.5	3538.2	3546.8	3538.2	3545.4	3561.2	3559.8	3559.8	3569.8	3566.9	3594.2
30°	3733.6	3745.1	3756.6	3750.8	3753.7	3773.8	3775.2	3776.7	3789.6	3808.3	3828.4
32.5°	3977.8	3989.3	3983.5	4002.2	4000.8	4025.2	4029.5	4033.8	4074.0	4066.9	4108.5
35°	4278.0	4289.5	4283.8	4303.9	4301.0	4309.6	4325.4	4342.7	4349.9	4391.5	4424.6
37.5°	4418.8	4418.8	4431.7	4454.7	4463.4	4477.7	4502.1	4523.7	4559.6	4604.1	4655.9
40°	4588.3	4592.6	4609.9	4634.3	4650.1	4683.1	4727.7	4757.8	4812.4	4861.3	4921.6
42.5°	4793.8	4812.4	4832.5	4865.6	4900.1	4951.8	5015.0	5053.8	5125.6	5188.8	5263.5
45°	5033.7	5052.3	5099.7	5160.1	5210.4	5267.8	5319.5	5411.5	5476.1	5542.2	5606.8
47.5°	5323.8	5378.4	5417.2	5489.0	5550.8	5627.0	5691.6	5777.8	5848.2	5928.6	5983.2
50°	5695.9	5763.4	5813.7	5907.1	5967.4	6052.2	6134.1	6198.7	6270.5	6349.5	6394.1
52.5°	6230.3	6299.3	6362.5	6478.8	6553.5	6611.0	6720.2	6800.6	6866.7	6924.2	6973.0
55°	7388.2	7368.1	7543.3	7768.8	7794.7	8003.0	8041.8	8109.3	8231.4	8248.7	8385.1
57.5°	10696.5	10593.1	10847.4	11177.8	11120.3	11015.4	11453.6	11480.9	11419.1	11584.3	11397.6
60°	15274.8	15093.8	15162.8	15253.3	15122.5	15060.8	15082.3	15144.1	15083.7	15017.7	14836.7
62.5°	18331.8	18053.1	17853.4	17685.3	17472.7	17319.0	17146.6	16934.0	16876.6	16635.2	16432.7
65°	18984.0	18550.1	18234.1	17916.6	17623.6	17352.1	17092.0	16909.6	16668.3	16382.4	16171.2
67.5°	18267.1	17729.9	17267.3	16806.2	16474.3	16075.0	15879.6	15582.2	15284.9	14957.3	14763.4
70°	16184.1	15623.9	15042.1	14591.0	14139.9	13645.8	13549.5	13197.6	13026.6	12579.8	12502.3
72.5°	11170.6	10797.1	10537.1	9979.7	9705.3	9452.5	9372.0	9045.9	9080.4	8590.6	8768.7
75°	3972.1	3918.9	3842.8	3528.2	3472.1	3374.5	3348.6	3325.6	3558.3	3235.1	3469.3
77.5°	682.4	678.1	639.3	620.6	656.5	633.5	639.3	627.8	695.3	705.3	689.5
80°	423.8	412.3	399.4	390.7	392.2	383.6	385.0	387.9	392.2	390.7	395.1
82.5°	290.2	280.1	274.4	268.6	277.3	280.1	287.3	294.5	306.0	313.2	321.8
85°	158.0	145.1	145.1	143.7	155.1	163.8	175.3	189.6	209.7	227.0	245.6
87.5°	80.4	77.6	79.0	81.9	91.9	99.1	113.5	126.4	143.7	162.3	179.6
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-E07-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9	2062.9
2.5°	2057.1	2057.1	2055.7	2055.7	2054.3	2052.8	2051.4	2047.1	2031.3	2016.9	2006.9
5°	2088.7	2084.4	2083.0	2078.7	2077.2	2074.4	2070.1	2065.8	2037.0	2011.2	1992.5
7.5°	2153.4	2147.6	2144.8	2140.5	2136.1	2130.4	2124.7	2120.3	2085.9	2055.7	2032.7
10°	2238.1	2235.3	2233.8	2228.1	2228.1	2219.5	2218.0	2208.0	2170.6	2143.3	2123.2
12.5°	2355.9	2350.2	2348.8	2341.6	2344.4	2341.6	2338.7	2333.0	2305.7	2274.1	2246.8
15°	2502.5	2502.5	2495.3	2489.5	2491.0	2488.1	2493.8	2486.7	2469.4	2440.7	2396.2
17.5°	2679.2	2676.3	2679.2	2674.9	2677.7	2680.6	2673.4	2674.9	2666.2	2630.3	2564.2
20°	2884.6	2880.3	2897.5	2890.3	2906.1	2891.8	2894.6	2899.0	2899.0	2851.5	2762.5
22.5°	3120.2	3117.3	3117.3	3131.7	3137.4	3138.9	3144.6	3148.9	3160.4	3100.1	2957.9
25°	3355.8	3365.8	3367.3	3385.9	3394.6	3394.6	3398.9	3414.7	3449.2	3365.8	3182.0
27.5°	3595.7	3620.1	3625.8	3638.8	3651.7	3664.6	3674.7	3686.2	3742.2	3651.7	3411.8
30°	3835.6	3862.9	3883.0	3897.4	3913.2	3944.8	3950.5	3973.5	4066.9	3956.3	3630.2
32.5°	4117.1	4155.9	4181.8	4200.5	4224.9	4255.1	4272.3	4301.0	4391.5	4210.5	3789.6
35°	4453.3	4476.3	4513.6	4545.2	4559.6	4611.3	4638.6	4645.8	4714.7	4430.3	3907.4
37.5°	4686.0	4724.8	4789.4	4834.0	4859.8	4888.6	4934.5	4964.7	5030.8	4630.0	3966.3
40°	4981.9	5040.8	5092.6	5158.6	5200.3	5221.9	5267.8	5292.2	5300.9	4800.9	3947.6
42.5°	5342.5	5395.7	5464.6	5517.8	5549.4	5573.8	5611.2	5621.2	5509.2	4881.4	3847.1
45°	5681.5	5763.4	5822.3	5861.1	5884.1	5897.0	5920.0	5921.4	5681.5	4841.2	3674.7
47.5°	6046.4	6105.3	6159.9	6187.2	6184.3	6187.2	6178.6	6172.8	5767.7	4701.8	3453.5
50°	6450.1	6488.9	6511.9	6524.8	6532.0	6504.7	6465.9	6440.0	5774.9	4503.6	3229.4
52.5°	6991.7	7040.5	7036.2	7034.8	6977.3	6951.5	6848.0	6794.9	5733.3	4270.9	2976.5
55°	8363.6	8316.2	8222.8	8268.8	8034.6	7912.5	7751.6	7602.2	5787.9	4049.6	2683.5
57.5°	11472.3	11490.9	11225.2	11083.0	10687.9	10193.7	9795.8	9409.4	6279.1	3914.6	2301.3
60°	14716.0	14471.8	14134.2	13619.9	13111.4	12377.3	11669.1	10999.6	6769.0	3773.8	1848.8
62.5°	16132.4	15784.8	15274.8	14609.7	13811.0	12913.1	12031.1	11215.1	6532.0	3318.4	1344.6
65°	15845.1	15313.6	14750.5	13971.9	13000.8	12016.7	10986.7	10153.5	5464.6	2475.2	828.9
67.5°	14342.5	13891.4	13296.7	12373.0	11334.4	10310.1	9366.3	8432.5	4059.7	1542.9	464.0
70°	12105.8	11664.8	11061.4	10116.2	9079.0	8099.3	7099.4	6338.0	2587.2	744.1	334.7
72.5°	8398.1	8040.4	7613.7	6940.0	6030.6	5140.0	4463.4	3878.7	1433.7	395.1	306.0
75°	3410.4	3411.8	3334.2	3049.8	2577.2	2222.3	1894.8	1607.5	599.0	336.2	301.7
77.5°	772.9	785.8	859.1	814.5	734.1	686.7	614.8	543.0	364.9	346.2	304.5
80°	390.7	392.2	387.9	389.3	385.0	386.4	380.7	376.4	341.9	356.3	304.5
82.5°	326.1	333.3	331.8	331.8	333.3	333.3	333.3	331.8	354.8	374.9	294.5
85°	258.6	272.9	284.4	295.9	308.9	317.5	321.8	326.1	344.8	369.2	267.2
87.5°	195.4	212.6	227.0	238.5	258.6	258.6	272.9	283.0	283.0	288.7	140.8
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: P159351

CATALOG NUMBER: VST-E07-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	2062.9	2062.9	2062.9	2062.9	2062.9
2.5°	1992.5	1986.7	1981.0	1978.1	1972.4
5°	1978.1	1966.6	1959.5	1959.5	1953.7
7.5°	2019.8	2015.5	2005.4	1999.7	2005.4
10°	2108.9	2101.7	2090.2	2081.6	2085.9
12.5°	2228.1	2199.4	2176.4	2166.3	2159.1
15°	2351.6	2294.2	2248.2	2222.3	2215.2
17.5°	2483.8	2383.2	2314.3	2275.5	2268.3
20°	2618.8	2493.8	2396.2	2345.9	2344.4
22.5°	2781.2	2614.5	2489.5	2423.5	2419.1
25°	2952.1	2722.3	2557.1	2472.3	2463.7
27.5°	3100.1	2808.5	2598.7	2498.2	2489.5
30°	3223.6	2873.1	2633.2	2516.8	2505.3
32.5°	3312.7	2910.4	2647.6	2522.6	2509.6
35°	3341.4	2896.1	2607.3	2470.9	2456.5
37.5°	3302.6	2802.7	2495.3	2344.4	2327.2
40°	3186.3	2638.9	2312.8	2157.7	2136.1
42.5°	3008.1	2437.8	2093.0	1945.1	1917.8
45°	2788.3	2210.8	1874.7	1709.5	1696.6
47.5°	2558.5	1972.4	1629.0	1479.6	1463.8
50°	2310.0	1696.6	1389.1	1226.8	1226.8
52.5°	2014.0	1427.9	1110.5	988.3	978.3
55°	1673.6	1124.8	884.9	791.5	778.6
57.5°	1307.3	864.8	706.8	652.2	637.8
60°	961.1	649.3	568.9	538.7	533.0
62.5°	652.2	494.2	458.3	445.3	443.9
65°	441.0	385.0	374.9	370.6	372.1
67.5°	339.0	320.4	316.0	314.6	314.6
70°	294.5	283.0	278.7	280.1	278.7
72.5°	277.3	261.5	262.9	265.8	264.3
75°	271.5	251.4	257.1	258.6	252.8
77.5°	267.2	239.9	254.3	258.6	242.8
80°	258.6	229.8	264.3	265.8	238.5
82.5°	237.0	204.0	264.3	244.2	215.5
85°	201.1	155.1	298.8	212.6	159.5
87.5°	127.9	91.9	202.6	145.1	96.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)