

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: P158040

Luminaire Tested: **VST-E08-LED-E-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158040
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-E08-LED-E-U-RW
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24923.3 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 194.5
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

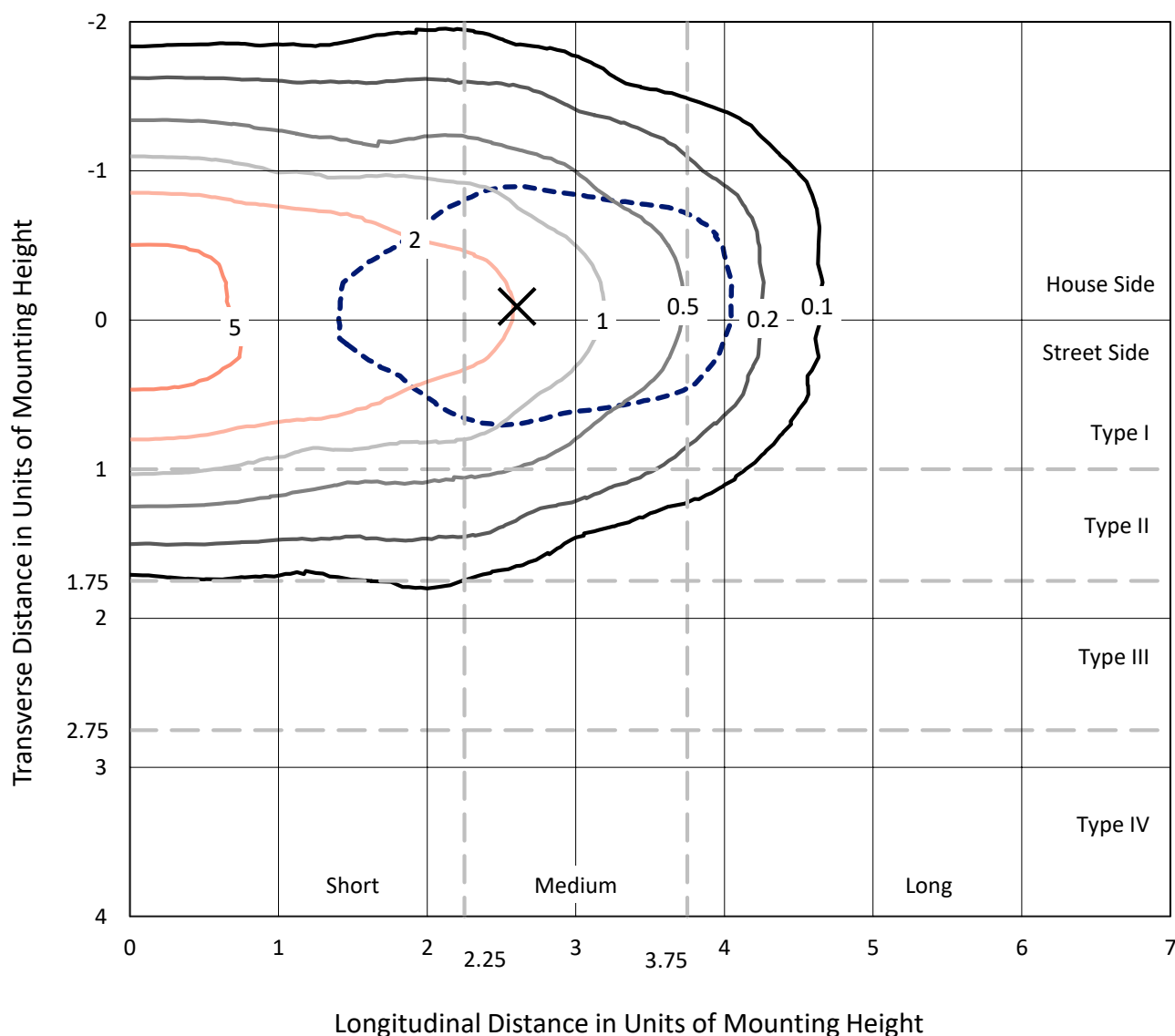


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

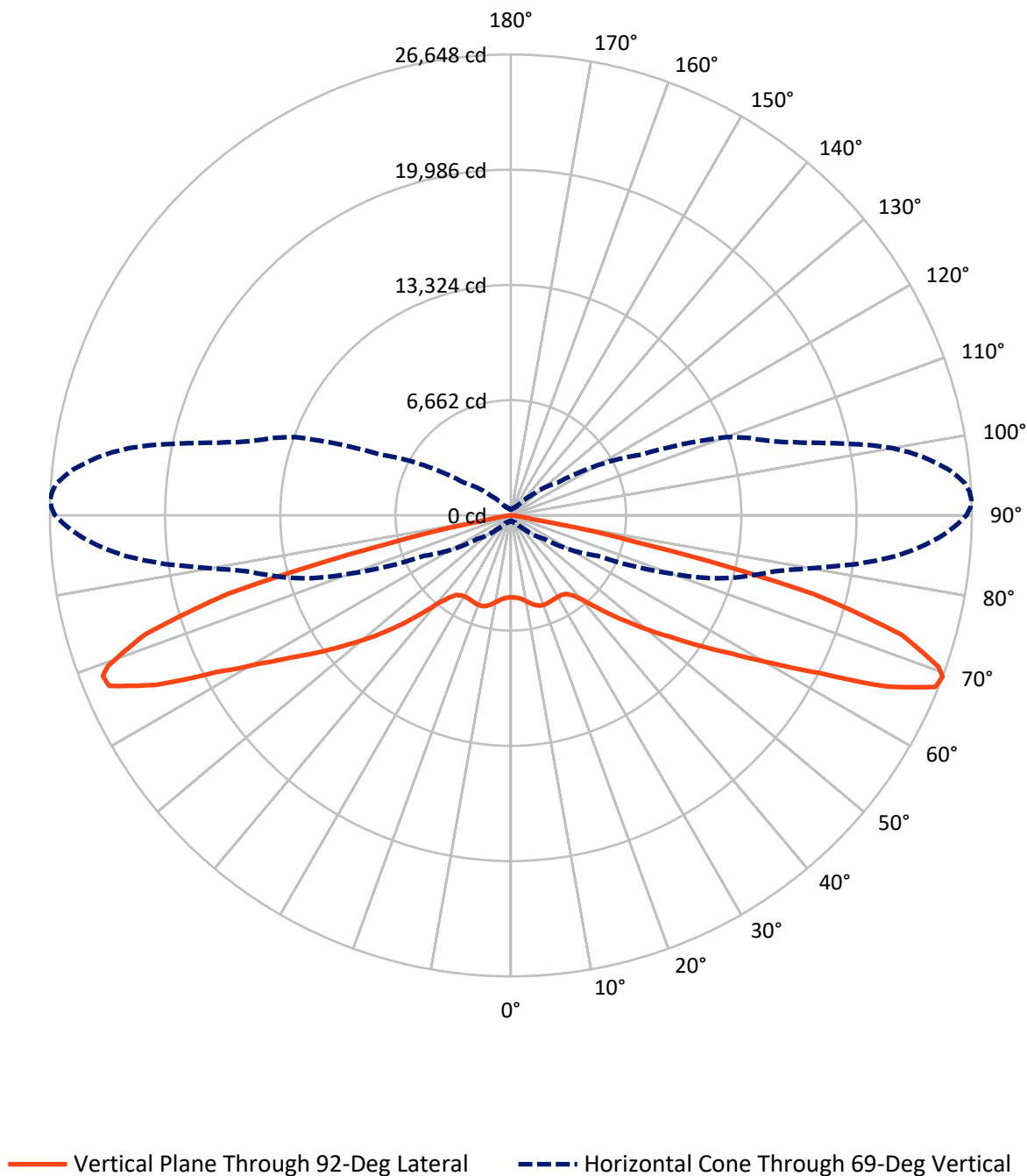


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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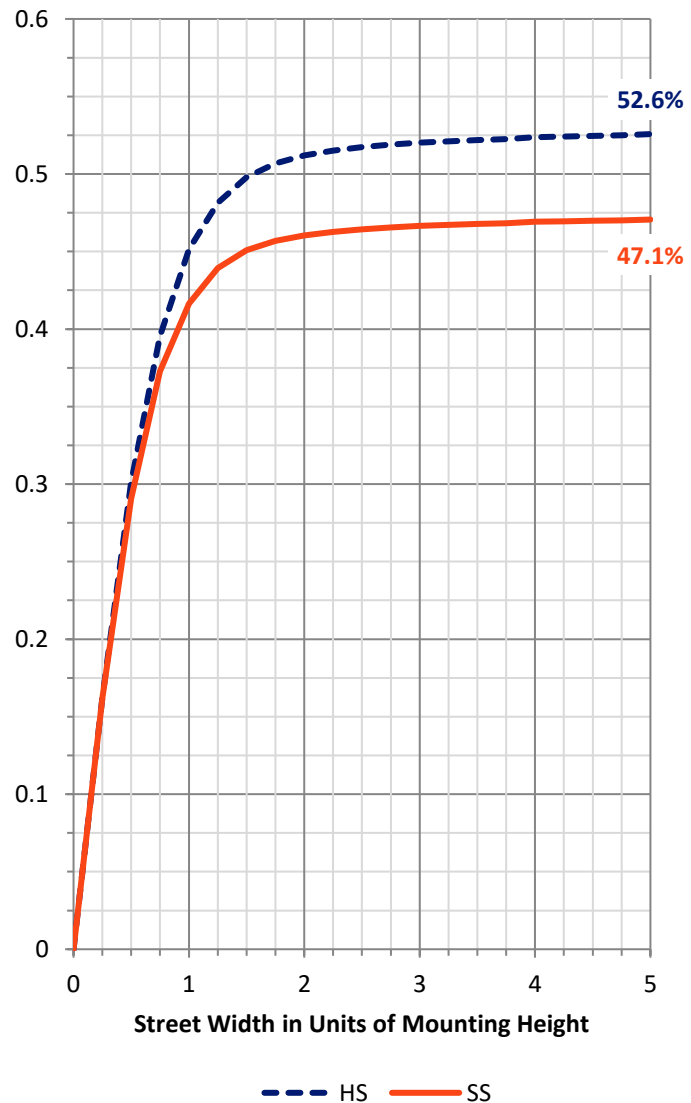
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13218.1	0.0	13218.1
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	11705.2	0.0	11705.2
	% Fixture	47.0	0.0	47.0
Total	Lumens	24923.3	0.0	24923.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.3	1.9
10°-20°	1463.5	5.9
20°-30°	2374.3	9.5
30°-40°	2959.1	11.9
40°-50°	3684.3	14.8
50°-60°	4543.7	18.2
60°-70°	5643.0	22.6
70°-80°	3467.3	13.9
80°-90°	325.0	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°	24923.3	100.0
0°-180°	24923.3	100.0

Coefficient of Utilization



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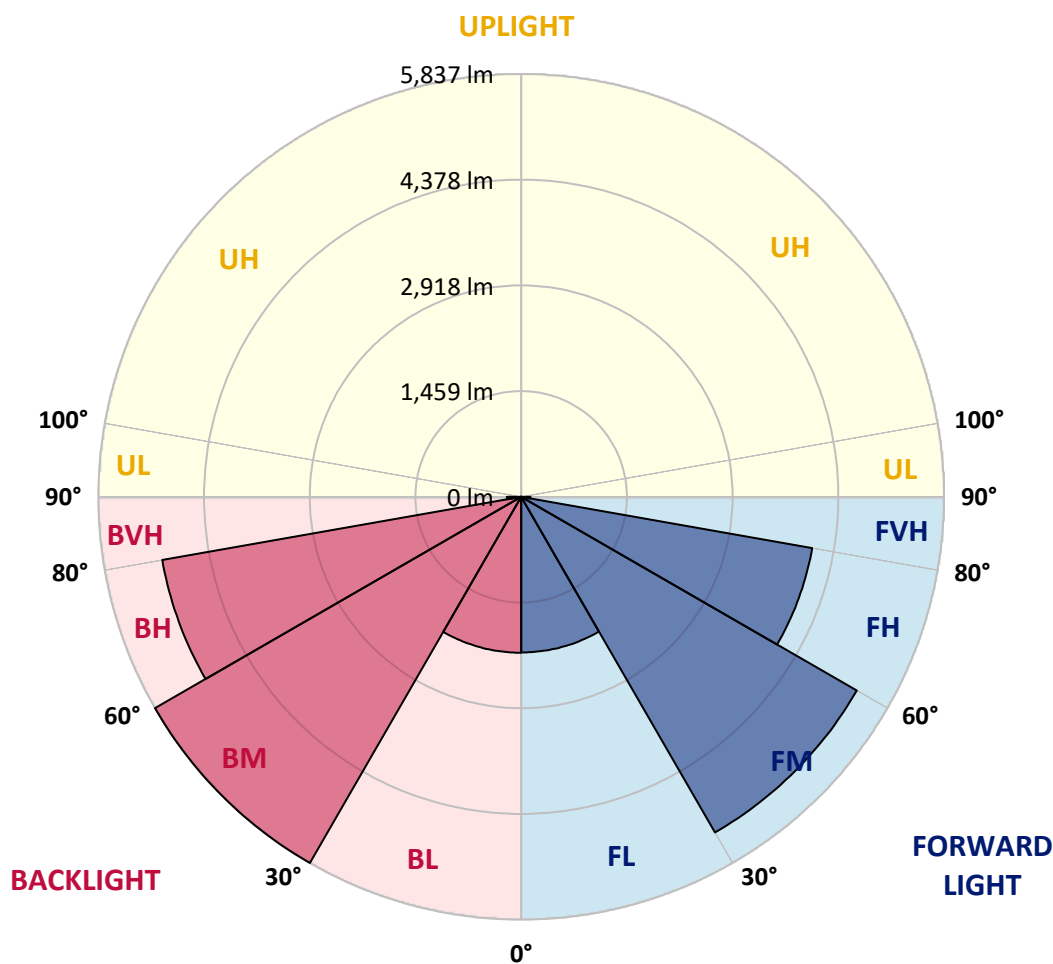
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2148.2	8.6			
FM	(30°-60°)	5350.1	21.5			
FH	(60°-80°)	4079.6	16.4			G2/5000
FVH	(80°-90°)	127.2	0.5			G2/225
BL	(0°-30°)	2152.8	8.6	B3/2500		
BM	(30°-60°)	5837.0	23.4	B4/8500		
BH	(60°-80°)	5030.6	20.2	B5		G5
BVH	(80°-90°)	197.7	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4
2.5°	4809.6	4796.8	4808.0	4809.6	4808.0	4808.0	4793.6	4790.4	4771.2	4776.0	4774.4
5°	4875.2	4870.4	4878.4	4881.6	4884.8	4878.4	4867.2	4862.4	4849.6	4844.8	4843.2
7.5°	4936.0	4928.0	4940.8	4952.0	4960.0	4961.6	4963.2	4955.2	4955.2	4948.8	4948.8
10°	4987.2	4980.8	5001.6	5016.0	5041.6	5056.0	5072.0	5083.2	5089.6	5091.2	5089.6
12.5°	5009.6	5004.8	5038.4	5081.6	5129.6	5163.2	5203.2	5232.0	5240.0	5238.4	5246.4
15°	4971.2	4974.4	5025.6	5110.4	5212.8	5297.6	5353.6	5377.6	5384.0	5387.2	5388.8
17.5°	4867.2	4873.6	4947.2	5084.8	5264.0	5417.6	5500.8	5500.8	5488.0	5488.0	5486.4
20°	4700.8	4707.2	4803.2	5001.6	5265.6	5500.8	5619.2	5595.2	5547.2	5537.6	5528.0
22.5°	4470.4	4496.0	4601.6	4832.0	5196.8	5524.8	5692.8	5657.6	5582.4	5561.6	5547.2
25°	4209.6	4206.4	4332.8	4592.0	5030.4	5467.2	5713.6	5707.2	5627.2	5604.8	5579.2
27.5°	3912.0	3921.6	4038.4	4300.8	4776.0	5300.8	5678.4	5763.2	5697.6	5675.2	5651.2
30°	3606.4	3616.0	3726.4	4032.0	4486.4	5062.4	5606.4	5817.6	5792.0	5774.4	5758.4
32.5°	3299.2	3302.4	3433.6	3761.6	4241.6	4777.6	5497.6	5867.2	5902.4	5894.4	5888.0
35°	3011.2	3014.4	3156.8	3489.6	4000.0	4534.4	5366.4	5939.2	6052.8	6062.4	6068.8
37.5°	2731.2	2736.0	2881.6	3230.4	3761.6	4350.4	5220.8	6049.6	6264.0	6299.2	6305.6
40°	2452.8	2457.6	2596.8	2966.4	3520.0	4188.8	5108.8	6204.8	6548.8	6596.8	6646.4
42.5°	2187.2	2204.8	2323.2	2676.8	3251.2	3988.8	5060.8	6393.6	6886.4	6961.6	7017.6
45°	1939.2	1940.8	2075.2	2406.4	2932.8	3718.4	5028.8	6608.0	7264.0	7377.6	7454.4
47.5°	1673.6	1692.8	1833.6	2155.2	2635.2	3384.0	4926.4	6859.2	7675.2	7808.0	7963.2
50°	1416.0	1443.2	1579.2	1897.6	2363.2	3038.4	4651.2	7153.6	8137.6	8310.4	8489.6
52.5°	1168.0	1166.4	1310.4	1641.6	2089.6	2745.6	4204.8	7462.4	8672.0	8857.6	9051.2
55°	883.2	883.2	1025.6	1328.0	1793.6	2484.8	3726.4	7654.4	9168.0	9392.0	9603.2
57.5°	606.4	622.4	756.8	1017.6	1484.8	2246.4	3360.0	7544.0	9547.2	9825.6	10076.8
60°	449.6	465.6	564.8	731.2	1161.6	1964.8	3084.8	7024.0	9776.0	10145.6	10472.0
62.5°	388.8	400.0	494.4	585.6	836.8	1665.6	2841.6	6363.2	10105.6	10611.2	11065.6
65°	347.2	358.4	452.8	505.6	654.4	1339.2	2705.6	5985.6	10499.2	11272.0	11931.2
67.5°	321.6	334.4	414.4	452.8	571.2	1211.2	2600.0	5897.6	10496.0	11433.6	12275.2
69°	308.8	318.4	384.0	425.6	552.0	1172.8	2371.2	5515.2	9803.2	10809.6	11654.4
70°	300.8	310.4	366.4	408.0	545.6	1104.0	2160.0	5009.6	9014.4	10027.2	10884.8
72.5°	275.2	284.8	326.4	364.8	454.4	737.6	1505.6	3206.4	6441.6	7164.8	8145.6
75°	243.2	254.4	286.4	318.4	344.0	427.2	868.8	1664.0	3683.2	4232.0	5105.6
77.5°	198.4	209.6	243.2	294.4	291.2	324.8	564.8	1022.4	1724.8	2139.2	2462.4
80°	163.2	171.2	200.0	297.6	238.4	272.0	457.6	838.4	1214.4	1342.4	1419.2
82.5°	108.8	120.0	155.2	233.6	182.4	193.6	342.4	784.0	1027.2	1126.4	1219.2
85°	51.2	56.0	94.4	124.8	110.4	104.0	195.2	553.6	764.8	811.2	846.4
87.5°	0.0	0.0	4.8	9.6	14.4	14.4	35.2	116.8	214.4	259.2	256.0
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4
2.5°	4768.0	4769.6	4768.0	4768.0	4766.4	4763.2	4763.2	4760.0	4761.6	4760.0	4763.2
5°	4841.6	4841.6	4836.8	4833.6	4838.4	4833.6	4835.2	4827.2	4827.2	4822.4	4816.0
7.5°	4947.2	4947.2	4948.8	4939.2	4945.6	4947.2	4942.4	4939.2	4936.0	4928.0	4929.6
10°	5088.0	5088.0	5092.8	5080.0	5086.4	5089.6	5091.2	5091.2	5088.0	5073.6	5075.2
12.5°	5244.8	5241.6	5243.2	5236.8	5243.2	5246.4	5249.6	5246.4	5246.4	5243.2	5241.6
15°	5387.2	5385.6	5388.8	5384.0	5385.6	5388.8	5398.4	5396.8	5395.2	5385.6	5385.6
17.5°	5484.8	5480.0	5476.8	5475.2	5475.2	5473.6	5475.2	5475.2	5470.4	5468.8	5468.8
20°	5521.6	5508.8	5500.8	5496.0	5489.6	5486.4	5483.2	5484.8	5481.6	5476.8	5478.4
22.5°	5528.0	5510.4	5494.4	5480.0	5467.2	5459.2	5451.2	5448.0	5440.0	5435.2	5435.2
25°	5558.4	5531.2	5505.6	5481.6	5462.4	5444.8	5427.2	5414.4	5404.8	5393.6	5390.4
27.5°	5625.6	5596.8	5566.4	5536.0	5510.4	5475.2	5451.2	5425.6	5403.2	5385.6	5372.8
30°	5729.6	5700.8	5670.4	5635.2	5601.6	5564.8	5524.8	5494.4	5462.4	5427.2	5408.0
32.5°	5867.2	5848.0	5817.6	5784.0	5753.6	5715.2	5667.2	5620.8	5590.4	5548.8	5518.4
35°	6064.0	6041.6	6032.0	6017.6	5987.2	5963.2	5910.4	5867.2	5838.4	5780.8	5758.4
37.5°	6332.8	6331.2	6339.2	6334.4	6339.2	6308.8	6284.8	6283.2	6241.6	6185.6	6131.2
40°	6699.2	6718.4	6761.6	6792.0	6820.8	6824.0	6857.6	6822.4	6827.2	6819.2	6763.2
42.5°	7116.8	7182.4	7233.6	7323.2	7392.0	7456.0	7499.2	7558.4	7603.2	7643.2	7652.8
45°	7582.4	7680.0	7798.4	7878.4	8012.8	8120.0	8267.2	8380.8	8499.2	8616.0	8657.6
47.5°	8088.0	8209.6	8340.8	8489.6	8659.2	8827.2	9054.4	9228.8	9419.2	9577.6	9718.4
50°	8646.4	8772.8	8948.8	9120.0	9353.6	9547.2	9844.8	10073.6	10380.8	10592.0	10774.4
52.5°	9228.8	9387.2	9584.0	9772.8	10011.2	10259.2	10590.4	10928.0	11297.6	11617.6	11883.2
55°	9798.4	9993.6	10182.4	10403.2	10667.2	10955.2	11329.6	11774.4	12235.2	12601.6	12953.6
57.5°	10305.6	10531.2	10753.6	10977.6	11248.0	11582.4	12003.2	12483.2	13011.2	13499.2	13982.4
60°	10776.0	11046.4	11318.4	11598.4	11908.8	12321.6	12827.2	13417.6	14100.8	14768.0	15400.0
62.5°	11520.0	11875.2	12212.8	12574.4	12948.8	13433.6	14030.4	14804.8	15588.8	16422.4	17070.4
65°	12528.0	13027.2	13468.8	13937.6	14422.4	15070.4	15784.0	16710.4	17833.6	18688.0	19728.0
67.5°	13028.8	13686.4	14254.4	14776.0	15376.0	16030.4	16878.4	17974.4	19172.8	20411.2	21571.2
69°	12440.0	13118.4	13747.2	14331.2	14937.6	15572.8	16459.2	17584.0	18851.2	20190.4	21323.2
70°	11676.8	12355.2	13025.6	13691.2	14244.8	14864.0	15753.6	16913.6	18179.2	19571.2	20694.4
72.5°	8945.6	9761.6	10368.0	10992.0	11633.6	12158.4	13185.6	14163.2	15481.6	16894.4	18131.2
75°	5723.2	6473.6	7136.0	7667.2	8294.4	8923.2	9681.6	10768.0	11593.6	12753.6	13756.8
77.5°	2940.8	3163.2	3801.6	3992.0	4427.2	4769.6	5187.2	5459.2	6131.2	6273.6	6865.6
80°	1393.6	1256.0	1182.4	1115.2	1134.4	1126.4	1092.8	1048.0	1104.0	1080.0	1070.4
82.5°	1214.4	1083.2	864.0	734.4	635.2	539.2	464.0	425.6	430.4	443.2	448.0
85°	851.2	800.0	624.0	473.6	369.6	286.4	230.4	220.8	227.2	244.8	238.4
87.5°	246.4	257.6	227.2	158.4	110.4	80.0	62.4	70.4	67.2	65.6	68.8
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4
2.5°	4763.2	4761.6	4756.8	4752.0	4752.0	4748.8	4752.0	4753.6	4752.0	4752.0	4748.8
5°	4817.6	4819.2	4824.0	4814.4	4812.8	4814.4	4808.0	4806.4	4801.6	4806.4	4800.0
7.5°	4921.6	4926.4	4926.4	4920.0	4918.4	4923.2	4913.6	4910.4	4905.6	4904.0	4902.4
10°	5076.8	5081.6	5073.6	5068.8	5064.0	5070.4	5062.4	5062.4	5057.6	5052.8	5051.2
12.5°	5249.6	5246.4	5243.2	5246.4	5241.6	5241.6	5236.8	5233.6	5232.0	5230.4	5227.2
15°	5384.0	5395.2	5395.2	5398.4	5395.2	5395.2	5388.8	5390.4	5387.2	5385.6	5387.2
17.5°	5470.4	5473.6	5481.6	5486.4	5486.4	5488.0	5484.8	5488.0	5484.8	5484.8	5491.2
20°	5481.6	5484.8	5492.8	5500.8	5505.6	5508.8	5508.8	5513.6	5516.8	5520.0	5528.0
22.5°	5436.8	5441.6	5451.2	5465.6	5473.6	5476.8	5483.2	5491.2	5499.2	5505.6	5516.8
25°	5390.4	5392.0	5401.6	5416.0	5425.6	5433.6	5444.8	5454.4	5465.6	5478.4	5491.2
27.5°	5364.8	5363.2	5371.2	5385.6	5393.6	5404.8	5414.4	5428.8	5441.6	5457.6	5468.8
30°	5387.2	5374.4	5376.0	5382.4	5388.8	5396.8	5408.0	5420.8	5435.2	5449.6	5462.4
32.5°	5486.4	5457.6	5438.4	5433.6	5435.2	5436.8	5443.2	5451.2	5462.4	5473.6	5478.4
35°	5700.8	5651.2	5625.6	5604.8	5587.2	5572.8	5576.0	5574.4	5574.4	5584.0	5572.8
37.5°	6108.8	6046.4	6019.2	5982.4	5961.6	5908.8	5894.4	5891.2	5870.4	5870.4	5846.4
40°	6748.8	6712.0	6691.2	6657.6	6556.8	6569.6	6497.6	6499.2	6440.0	6446.4	6404.8
42.5°	7659.2	7664.0	7638.4	7616.0	7537.6	7502.4	7435.2	7339.2	7264.0	7262.4	7179.2
45°	8712.0	8769.6	8688.0	8716.8	8648.0	8553.6	8475.2	8352.0	8235.2	8198.4	8113.6
47.5°	9812.8	9907.2	9844.8	9856.0	9822.4	9688.0	9582.4	9430.4	9278.4	9176.0	9124.8
50°	10988.8	11051.2	11049.6	11019.2	11003.2	10872.0	10702.4	10587.2	10475.2	10337.6	10292.8
52.5°	12054.4	12200.0	12297.6	12275.2	12228.8	12150.4	12000.0	11900.8	11736.0	11716.8	11736.0
55°	13195.2	13384.0	13483.2	13603.2	13604.8	13590.4	13528.0	13491.2	13337.6	13355.2	13332.8
57.5°	14275.2	14552.0	14704.0	14960.0	15048.0	15164.8	15121.6	15169.6	15076.8	15137.6	15120.0
60°	15739.2	16123.2	16376.0	16726.4	16889.6	17182.4	17240.0	17275.2	17326.4	17451.2	17380.8
62.5°	17580.8	18144.0	18668.8	19145.6	19302.4	19742.4	19814.4	20089.6	20104.0	20188.8	20033.6
65°	20595.2	21281.6	21859.2	22430.4	22760.0	23275.2	23483.2	24017.6	23854.4	23923.2	23592.0
67.5°	22569.6	23368.0	24142.4	24683.2	25230.4	25756.8	26136.0	26481.6	26478.4	26411.2	26116.8
69°	22395.2	23284.8	24048.0	24772.8	25348.8	25889.6	26345.6	26569.6	26648.0	26550.4	26340.8
70°	21792.0	22705.6	23640.0	24236.8	24864.0	25457.6	25928.0	26172.8	26227.2	26158.4	25977.6
72.5°	19004.8	19881.6	20912.0	21454.4	22212.8	22641.6	23289.6	23606.4	23662.4	23574.4	23456.0
75°	14832.0	14990.4	16040.0	16385.6	16936.0	17430.4	17833.6	17731.2	18017.6	17961.6	17916.8
77.5°	6987.2	6564.8	7244.8	7561.6	7395.2	6952.0	7596.8	7131.2	7440.0	7841.6	7739.2
80°	1152.0	1148.8	1179.2	1246.4	1166.4	1238.4	1236.8	1201.6	1204.8	1291.2	1246.4
82.5°	443.2	452.8	457.6	470.4	470.4	472.0	480.0	489.6	481.6	497.6	494.4
85°	240.0	256.0	241.6	230.4	238.4	243.2	249.6	257.6	249.6	273.6	260.8
87.5°	62.4	65.6	57.6	57.6	56.0	51.2	51.2	54.4	59.2	70.4	76.8
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: P158040

CATALOG NUMBER: VST-E08-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4
2.5°	4742.4	4744.0	4745.6	4740.8	4737.6	4737.6	4736.0	4732.8	4731.2	4731.2	4731.2
5°	4796.8	4800.0	4792.0	4790.4	4787.2	4784.0	4784.0	4780.8	4782.4	4782.4	4774.4
7.5°	4905.6	4900.8	4891.2	4884.8	4891.2	4880.0	4875.2	4878.4	4875.2	4876.8	4873.6
10°	5051.2	5051.2	5040.0	5046.4	5038.4	5025.6	5030.4	5025.6	5022.4	5011.2	5017.6
12.5°	5232.0	5227.2	5220.8	5206.4	5201.6	5200.0	5185.6	5187.2	5182.4	5179.2	5174.4
15°	5390.4	5388.8	5374.4	5366.4	5364.8	5358.4	5352.0	5348.8	5340.8	5339.2	5336.0
17.5°	5496.0	5491.2	5484.8	5476.8	5476.8	5467.2	5464.0	5456.0	5454.4	5449.6	5444.8
20°	5531.2	5532.8	5526.4	5520.0	5516.8	5510.4	5505.6	5499.2	5496.0	5489.6	5484.8
22.5°	5523.2	5523.2	5516.8	5515.2	5508.8	5499.2	5492.8	5484.8	5476.8	5468.8	5459.2
25°	5497.6	5496.0	5491.2	5483.2	5475.2	5460.8	5448.0	5435.2	5424.0	5414.4	5400.0
27.5°	5475.2	5472.0	5462.4	5451.2	5435.2	5419.2	5395.2	5377.6	5363.2	5350.4	5334.4
30°	5467.2	5456.0	5441.6	5424.0	5404.8	5380.8	5355.2	5332.8	5316.8	5304.0	5297.6
32.5°	5476.8	5462.4	5440.0	5417.6	5393.6	5364.8	5339.2	5320.0	5305.6	5302.4	5302.4
35°	5564.8	5540.8	5510.4	5478.4	5448.0	5424.0	5406.4	5404.8	5395.2	5406.4	5424.0
37.5°	5822.4	5801.6	5755.2	5713.6	5692.8	5681.6	5665.6	5668.8	5646.4	5681.6	5710.4
40°	6369.6	6344.0	6289.6	6256.0	6214.4	6174.4	6206.4	6196.8	6212.8	6206.4	6236.8
42.5°	7168.0	7142.4	7056.0	7043.2	7025.6	7009.6	7009.6	6996.8	6990.4	7012.8	6987.2
45°	8139.2	8088.0	8056.0	8094.4	8041.6	8057.6	8113.6	8038.4	8056.0	7952.0	7856.0
47.5°	9147.2	9142.4	9134.4	9180.8	9188.8	9212.8	9243.2	9166.4	9027.2	8948.8	8753.6
50°	10307.2	10356.8	10376.0	10420.8	10440.0	10457.6	10409.6	10296.0	10060.8	9852.8	9622.4
52.5°	11716.8	11630.4	11748.8	11792.0	11772.8	11702.4	11529.6	11390.4	11065.6	10766.4	10409.6
55°	13358.4	13379.2	13296.0	13262.4	13196.8	13001.6	12763.2	12449.6	12038.4	11648.0	11196.8
57.5°	15030.4	15022.4	14892.8	14710.4	14488.0	14252.8	13897.6	13448.0	12968.0	12443.2	11897.6
60°	17064.0	17056.0	16793.6	16481.6	16164.8	15785.6	15228.8	14688.0	14044.8	13355.2	12705.6
62.5°	19736.0	19392.0	19134.4	18668.8	18179.2	17683.2	16929.6	16211.2	15352.0	14481.6	13723.2
65°	23160.0	22593.6	22300.8	21625.6	20867.2	20092.8	19326.4	18382.4	17225.6	16172.8	15246.4
67.5°	25692.8	25174.4	24638.4	23964.8	23132.8	22268.8	21219.2	20030.4	18716.8	17536.0	16526.4
69°	25915.2	25430.4	24787.2	24112.0	23324.8	22385.6	21240.0	19908.8	18577.6	17382.4	16388.8
70°	25577.6	25062.4	24385.6	23683.2	22803.2	21916.8	20716.8	19329.6	17996.8	16798.4	15828.8
72.5°	23059.2	22556.8	21836.8	20996.8	20094.4	19336.0	18196.8	16750.4	15300.8	14193.6	13438.4
75°	17534.4	17424.0	16913.6	16424.0	15713.6	14867.2	13825.6	12852.8	11664.0	10492.8	9788.8
77.5°	7481.6	7736.0	8001.6	8040.0	8065.6	7804.8	7643.2	7398.4	6603.2	6241.6	5868.8
80°	1382.4	1235.2	1318.4	1328.0	1382.4	1411.2	1516.8	1798.4	1830.4	1899.2	1984.0
82.5°	491.2	499.2	512.0	516.8	521.6	540.8	612.8	734.4	844.8	988.8	1180.8
85°	278.4	283.2	294.4	304.0	310.4	329.6	369.6	441.6	550.4	715.2	969.6
87.5°	84.8	96.0	102.4	115.2	120.0	123.2	140.8	188.8	243.2	360.0	524.8
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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CATALOG NUMBER: VST-E08-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4	4734.4
2.5°	4731.2	4729.6	4726.4	4723.2	4724.8	4721.6	4712.0	4708.8	4697.6	4689.6	4683.2
5°	4774.4	4772.8	4766.4	4768.0	4766.4	4750.4	4739.2	4720.0	4708.8	4691.2	4684.8
7.5°	4864.0	4862.4	4851.2	4856.0	4852.8	4828.8	4809.6	4779.2	4763.2	4740.8	4723.2
10°	4998.4	4998.4	4985.6	4987.2	4987.2	4955.2	4921.6	4870.4	4833.6	4798.4	4768.0
12.5°	5161.6	5155.2	5153.6	5145.6	5139.2	5104.0	5052.8	4984.0	4915.2	4857.6	4816.0
15°	5326.4	5316.8	5312.0	5302.4	5294.4	5262.4	5193.6	5108.8	5016.0	4923.2	4854.4
17.5°	5433.6	5427.2	5417.6	5414.4	5403.2	5371.2	5323.2	5238.4	5123.2	4993.6	4889.6
20°	5473.6	5462.4	5456.0	5449.6	5443.2	5420.8	5420.8	5366.4	5238.4	5056.0	4897.6
22.5°	5448.0	5441.6	5432.0	5427.2	5420.8	5424.0	5486.4	5478.4	5331.2	5070.4	4840.0
25°	5388.8	5380.8	5372.8	5372.8	5371.2	5404.8	5555.2	5576.0	5358.4	5000.0	4713.6
27.5°	5328.0	5316.8	5320.0	5321.6	5329.6	5401.6	5630.4	5601.6	5284.8	4830.4	4496.0
30°	5291.2	5291.2	5299.2	5312.0	5328.0	5454.4	5689.6	5544.0	5094.4	4574.4	4208.0
32.5°	5307.2	5323.2	5340.8	5372.8	5396.8	5571.2	5710.4	5395.2	4817.6	4257.6	3907.2
35°	5449.6	5468.8	5502.4	5552.0	5580.8	5739.2	5710.4	5177.6	4496.0	3985.6	3596.8
37.5°	5760.0	5779.2	5819.2	5857.6	5886.4	5950.4	5686.4	4900.8	4227.2	3704.0	3318.4
40°	6259.2	6286.4	6315.2	6308.8	6289.6	6227.2	5638.4	4643.2	3979.2	3457.6	3044.8
42.5°	6961.6	6936.0	6932.8	6870.4	6806.4	6539.2	5603.2	4475.2	3766.4	3198.4	2772.8
45°	7772.8	7668.8	7561.6	7478.4	7380.8	6881.6	5593.6	4339.2	3531.2	2910.4	2476.8
47.5°	8588.8	8422.4	8214.4	8084.8	7926.4	7246.4	5622.4	4156.8	3228.8	2596.8	2200.0
50°	9388.8	9116.8	8859.2	8704.0	8524.8	7665.6	5668.8	3849.6	2867.2	2312.0	1947.2
52.5°	10129.6	9779.2	9515.2	9332.8	9113.6	8153.6	5627.2	3446.4	2553.6	2038.4	1707.2
55°	10833.6	10446.4	10172.8	9980.8	9723.2	8643.2	5326.4	3080.0	2254.4	1771.2	1436.8
57.5°	11449.6	11078.4	10793.6	10532.8	10315.2	9068.8	4732.8	2777.6	1966.4	1465.6	1144.0
60°	12169.6	11752.0	11414.4	11136.0	10880.0	9288.0	4067.2	2508.8	1659.2	1134.4	827.2
62.5°	13140.8	12660.8	12270.4	11952.0	11617.6	9336.0	3612.8	2240.0	1316.8	820.8	601.6
65°	14580.8	13988.8	13500.8	13062.4	12609.6	9137.6	3388.8	1947.2	979.2	609.6	504.0
67.5°	15724.8	15110.4	14545.6	13982.4	13403.2	8769.6	3339.2	1676.8	752.0	518.4	452.8
69°	15585.6	15000.0	14481.6	13872.0	13230.4	8307.2	3289.6	1572.8	686.4	481.6	428.8
70°	15049.6	14494.4	13968.0	13472.0	12686.4	7792.0	3158.4	1515.2	660.8	464.0	411.2
72.5°	12716.8	12073.6	11563.2	10945.6	10118.4	5790.4	2395.2	1225.6	606.4	424.0	371.2
75°	9275.2	8742.4	8233.6	7550.4	6745.6	3350.4	1491.2	700.8	444.8	384.0	336.0
77.5°	5416.0	5296.0	4804.8	4355.2	3558.4	1705.6	856.0	419.2	345.6	348.8	296.0
80°	2038.4	2171.2	2220.8	2065.6	1908.8	1177.6	622.4	340.8	300.8	344.0	251.2
82.5°	1486.4	1724.8	1753.6	1680.0	1563.2	1097.6	497.6	273.6	244.8	369.6	216.0
85°	1240.0	1372.8	1393.6	1316.8	1278.4	929.6	347.2	192.0	179.2	265.6	161.6
87.5°	627.2	660.8	678.4	614.4	617.6	433.6	139.2	81.6	97.6	113.6	89.6
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: P158040

CATALOG NUMBER: VST-E08-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	4734.4	4734.4
2.5°	4668.8	4678.4
5°	4675.2	4675.2
7.5°	4712.0	4712.0
10°	4752.0	4753.6
12.5°	4788.8	4787.2
15°	4817.6	4812.8
17.5°	4835.2	4830.4
20°	4817.6	4809.6
22.5°	4728.0	4705.6
25°	4564.8	4536.0
27.5°	4348.8	4329.6
30°	4067.2	4038.4
32.5°	3737.6	3723.2
35°	3422.4	3404.8
37.5°	3134.4	3129.6
40°	2891.2	2865.6
42.5°	2606.4	2595.2
45°	2316.8	2310.4
47.5°	2044.8	2038.4
50°	1793.6	1780.8
52.5°	1547.2	1526.4
55°	1273.6	1259.2
57.5°	977.6	964.8
60°	688.0	673.6
62.5°	489.6	473.6
65°	408.0	395.2
67.5°	369.6	355.2
69°	352.0	339.2
70°	340.8	331.2
72.5°	316.8	310.4
75°	289.6	284.8
77.5°	254.4	246.4
80°	212.8	204.8
82.5°	179.2	171.2
85°	120.0	108.8
87.5°	54.4	48.0
90°	0.0	0.0

(END OF REPORT)