

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: P158058

Luminaire Tested: **VST-E10-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158058
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-E10-LED-E-U-RW-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (210) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26293.8 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 247.7
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

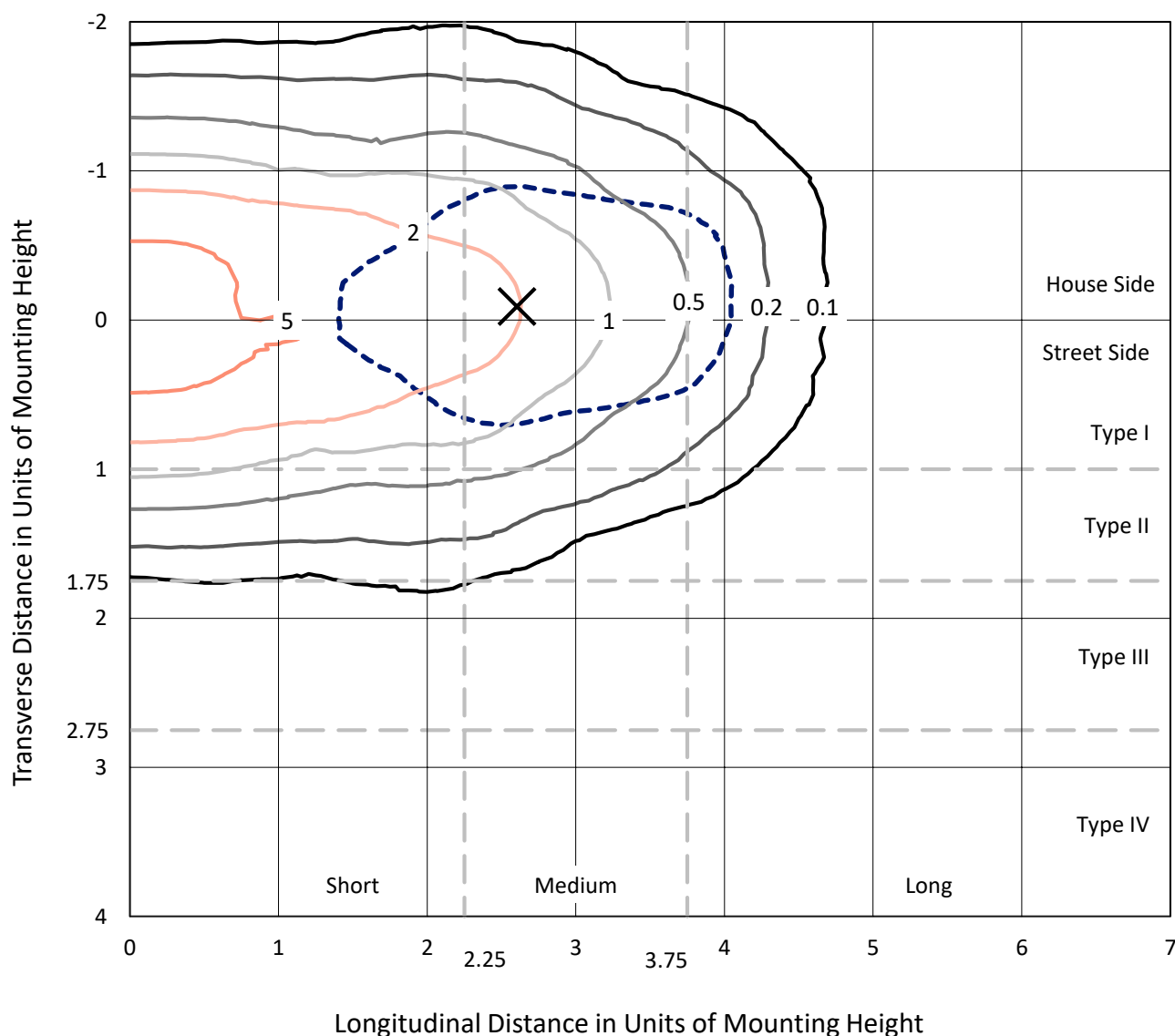


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

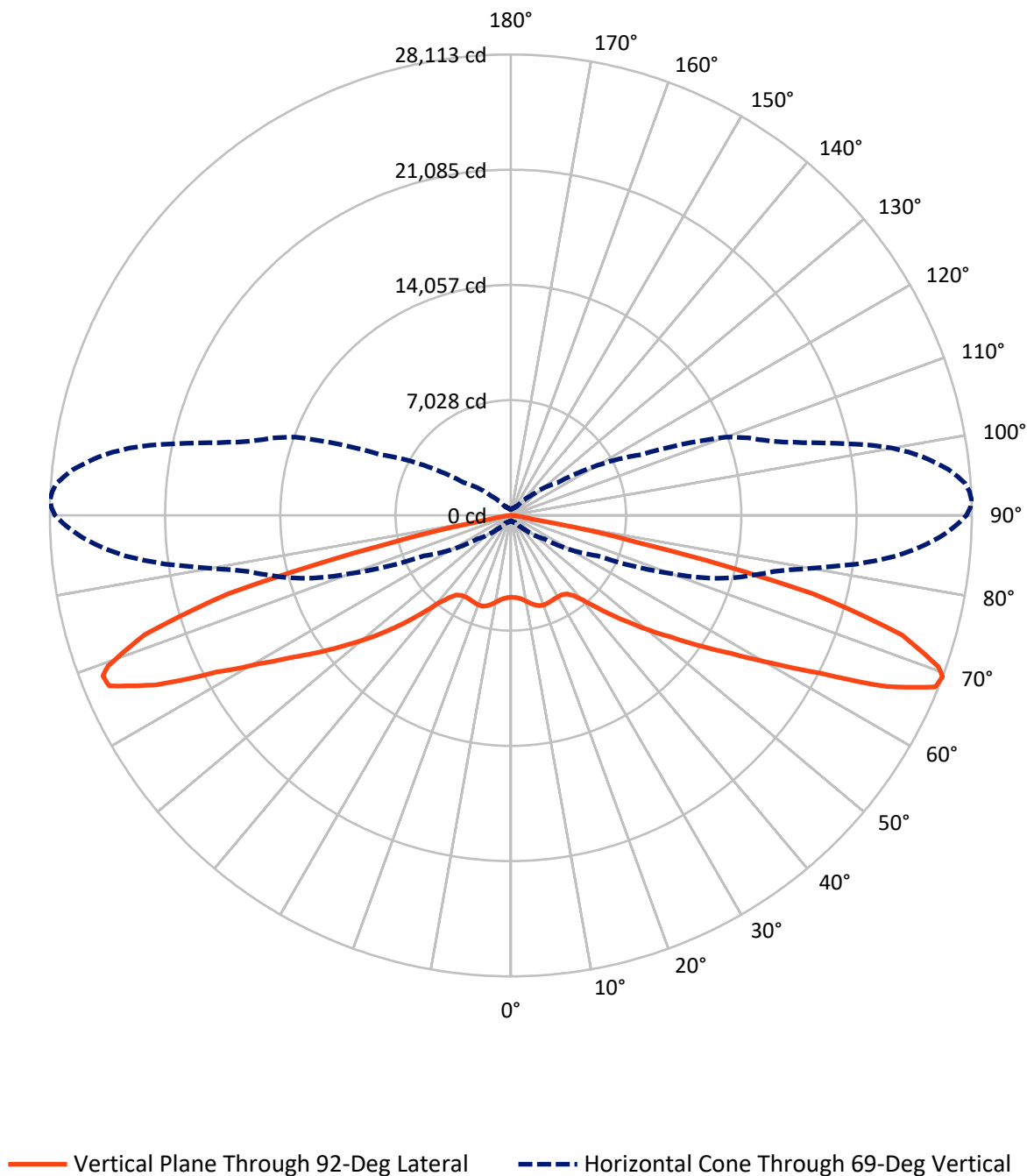


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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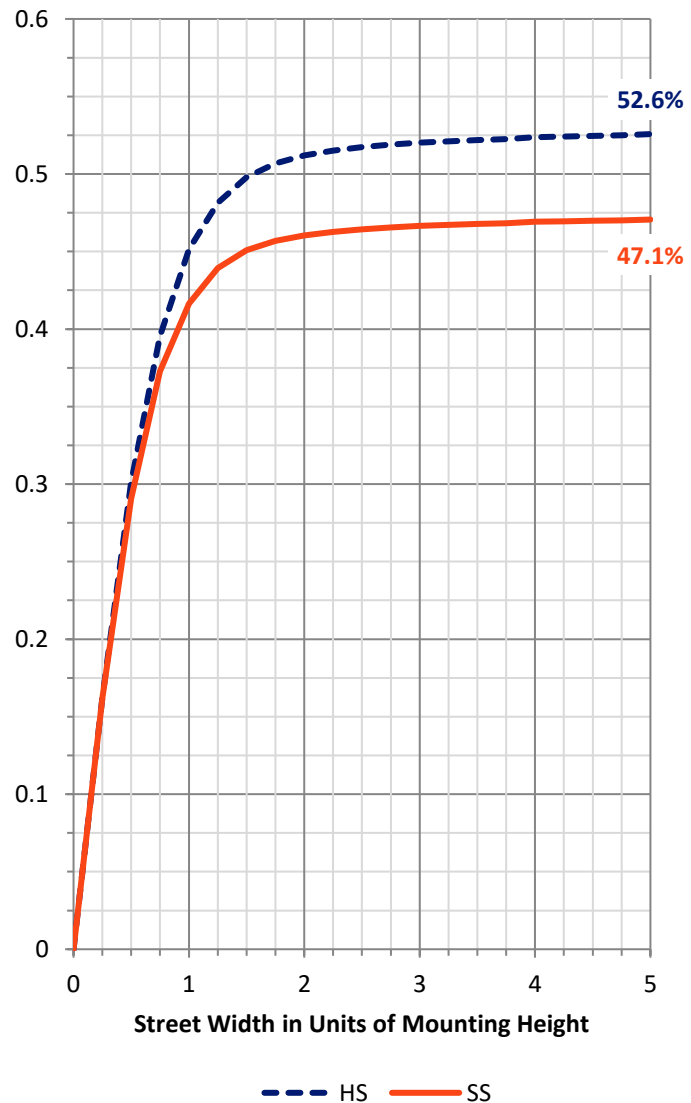
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13945.0	0.0	13945.0
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	12348.8	0.0	12348.8
	% Fixture	47.0	0.0	47.0
Total	Lumens	26293.8	0.0	26293.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.7	1.9
10°-20°	1543.9	5.9
20°-30°	2504.9	9.5
30°-40°	3121.8	11.9
40°-50°	3886.9	14.8
50°-60°	4793.5	18.2
60°-70°	5953.3	22.6
70°-80°	3657.9	13.9
80°-90°	342.8	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°	26293.8	100.0
0°-180°	26293.8	100.0

Coefficient of Utilization



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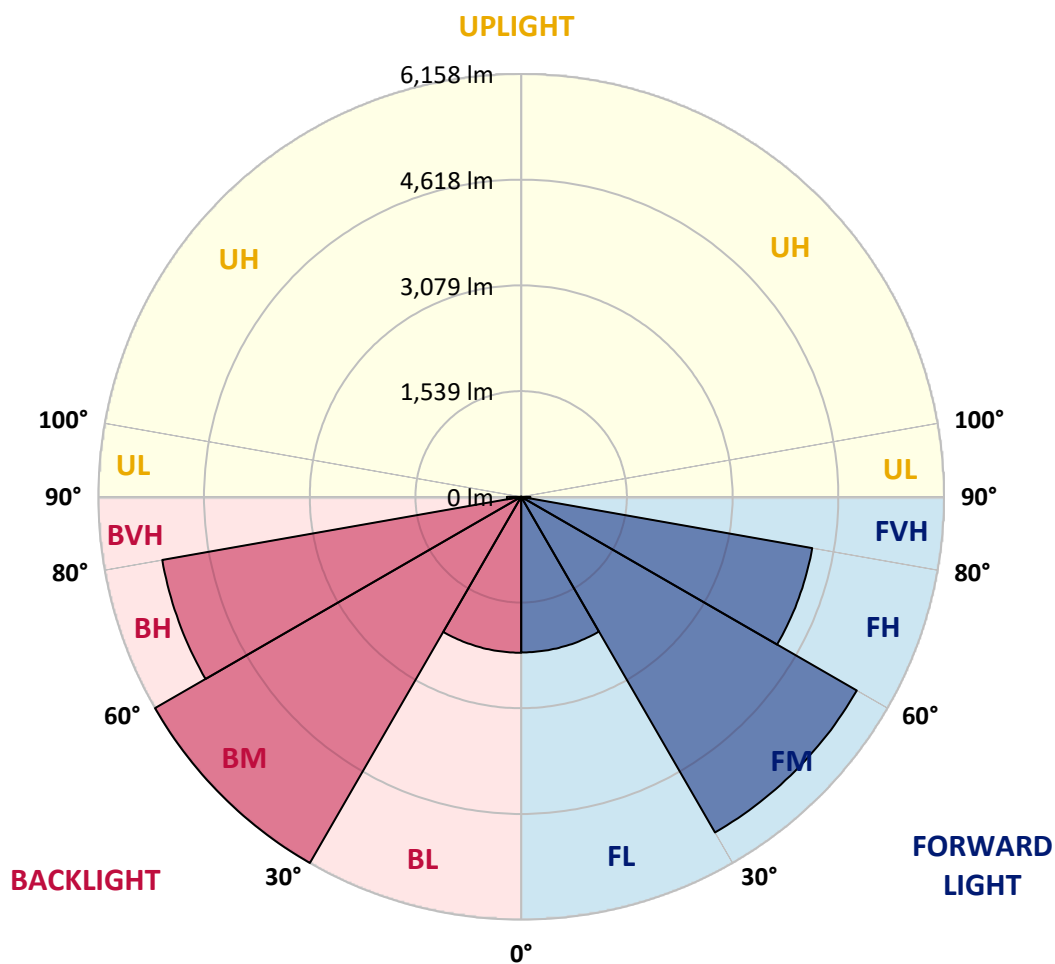
CATALOG NUMBER: VST-E10-LED-E-U-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2266.4	8.6			
FM	(30°-60°)	5644.3	21.5			
FH	(60°-80°)	4304.0	16.4			G2/5000
FVH	(80°-90°)	134.2	0.5			G2/225
BL	(0°-30°)	2271.2	8.6	B3/2500		
BM	(30°-60°)	6158.0	23.4	B4/8500		
BH	(60°-80°)	5307.2	20.2	B5		G5
BVH	(80°-90°)	208.6	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°	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7
2.5°	5074.1	5060.6	5072.4	5074.1	5072.4	5072.4	5057.2	5053.8	5033.6	5038.6	5036.9
5°	5143.3	5138.2	5146.7	5150.0	5153.4	5146.7	5134.8	5129.8	5116.3	5111.2	5109.5
7.5°	5207.4	5199.0	5212.5	5224.3	5232.7	5234.4	5236.1	5227.7	5227.7	5220.9	5220.9
10°	5261.4	5254.7	5276.6	5291.8	5318.8	5334.0	5350.9	5362.7	5369.5	5371.2	5369.5
12.5°	5285.1	5280.0	5315.5	5361.0	5411.7	5447.1	5489.3	5519.7	5528.1	5526.5	5534.9
15°	5244.6	5247.9	5302.0	5391.4	5499.4	5588.9	5648.0	5673.3	5680.1	5683.4	5685.1
17.5°	5134.8	5141.6	5219.2	5364.4	5553.5	5715.5	5803.3	5803.3	5789.8	5789.8	5788.1
20°	4959.3	4966.0	5067.3	5276.6	5555.1	5803.3	5928.2	5902.9	5852.2	5842.1	5832.0
22.5°	4716.2	4743.2	4854.6	5097.7	5482.6	5828.6	6005.8	5968.7	5889.4	5867.4	5852.2
25°	4441.1	4437.7	4571.1	4844.5	5307.0	5767.8	6027.8	6021.0	5936.6	5913.0	5886.0
27.5°	4127.1	4137.2	4260.5	4537.3	5038.6	5592.3	5990.6	6080.1	6010.9	5987.3	5962.0
30°	3804.7	3814.8	3931.3	4253.7	4733.1	5340.8	5914.7	6137.5	6110.5	6091.9	6075.0
32.5°	3480.6	3484.0	3622.4	3968.4	4474.8	5040.3	5799.9	6189.8	6227.0	6218.5	6211.8
35°	3176.8	3180.2	3330.4	3681.5	4220.0	4783.7	5661.5	6265.8	6385.6	6395.8	6402.5
37.5°	2881.4	2886.4	3040.1	3408.0	3968.4	4589.6	5507.9	6382.3	6608.4	6645.6	6652.3
40°	2587.7	2592.7	2739.6	3129.5	3713.6	4419.1	5389.7	6546.0	6908.9	6959.5	7011.9
42.5°	2307.5	2326.0	2450.9	2824.0	3430.0	4208.1	5339.1	6745.2	7265.1	7344.4	7403.5
45°	2045.8	2047.5	2189.3	2538.7	3094.1	3922.9	5305.3	6971.4	7663.4	7783.3	7864.3
47.5°	1765.6	1785.9	1934.4	2273.7	2780.1	3570.1	5197.3	7236.4	8097.2	8237.4	8401.1
50°	1493.9	1522.6	1666.0	2001.9	2493.1	3205.5	4907.0	7547.0	8585.1	8767.4	8956.4
52.5°	1232.2	1230.5	1382.5	1731.9	2204.5	2896.6	4436.0	7872.7	9148.9	9344.7	9548.9
55°	931.8	931.8	1082.0	1401.0	1892.2	2621.4	3931.3	8075.3	9672.1	9908.5	10131.3
57.5°	639.7	656.6	798.4	1073.6	1566.4	2369.9	3544.8	7958.8	10072.2	10365.9	10630.9
60°	474.3	491.2	595.9	771.4	1225.5	2072.8	3254.4	7410.2	10313.6	10703.5	11047.8
62.5°	410.2	422.0	521.6	617.8	882.8	1757.2	2997.9	6713.1	10661.3	11194.7	11674.1
65°	366.3	378.1	477.7	533.4	690.4	1412.8	2854.4	6314.7	11076.5	11891.8	12587.3
67.5°	339.3	352.8	437.2	477.7	602.6	1277.8	2743.0	6221.9	11073.2	12062.3	12950.2
69°	325.8	335.9	405.1	449.0	582.4	1237.3	2501.6	5818.5	10342.3	11404.0	12295.3
70°	317.3	327.5	386.5	430.4	575.6	1164.7	2278.8	5285.1	9510.1	10578.6	11483.3
72.5°	290.3	300.5	344.3	384.9	479.4	778.2	1588.4	3382.7	6795.8	7558.8	8593.5
75°	256.6	268.4	302.1	335.9	362.9	450.7	916.6	1755.5	3885.7	4464.7	5386.4
77.5°	209.3	221.1	256.6	310.6	307.2	342.7	595.9	1078.6	1819.6	2256.8	2597.8
80°	172.2	180.6	211.0	314.0	251.5	287.0	482.8	884.5	1281.2	1416.2	1497.2
82.5°	114.8	126.6	163.7	246.4	192.4	204.2	361.2	827.1	1083.7	1188.3	1286.2
85°	54.0	59.1	99.6	131.7	116.5	109.7	205.9	584.0	806.9	855.8	892.9
87.5°	0.0	0.0	5.1	10.1	15.2	15.2	37.1	123.2	226.2	273.5	270.1
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-E10-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7
2.5°	5030.2	5031.9	5030.2	5030.2	5028.5	5025.1	5025.1	5021.7	5023.4	5021.7	5025.1
5°	5107.8	5107.8	5102.8	5099.4	5104.5	5099.4	5101.1	5092.6	5092.6	5087.6	5080.8
7.5°	5219.2	5219.2	5220.9	5210.8	5217.6	5219.2	5214.2	5210.8	5207.4	5199.0	5200.7
10°	5367.8	5367.8	5372.8	5359.3	5366.1	5369.5	5371.2	5371.2	5367.8	5352.6	5354.3
12.5°	5533.2	5529.8	5531.5	5524.8	5531.5	5534.9	5538.3	5534.9	5534.9	5531.5	5529.8
15°	5683.4	5681.7	5685.1	5680.1	5681.7	5685.1	5695.3	5693.6	5691.9	5681.7	5681.7
17.5°	5786.4	5781.3	5778.0	5776.3	5776.3	5774.6	5776.3	5776.3	5771.2	5769.5	5769.5
20°	5825.2	5811.7	5803.3	5798.2	5791.5	5788.1	5784.7	5786.4	5783.0	5778.0	5779.6
22.5°	5832.0	5813.4	5796.5	5781.3	5767.8	5759.4	5751.0	5747.6	5739.1	5734.1	5734.1
25°	5864.0	5835.4	5808.3	5783.0	5762.8	5744.2	5725.6	5712.1	5702.0	5690.2	5686.8
27.5°	5934.9	5904.6	5872.5	5840.4	5813.4	5776.3	5751.0	5723.9	5700.3	5681.7	5668.2
30°	6044.7	6014.3	5982.2	5945.1	5909.6	5870.8	5828.6	5796.5	5762.8	5725.6	5705.4
32.5°	6189.8	6169.6	6137.5	6102.1	6070.0	6029.5	5978.8	5929.9	5897.8	5853.9	5821.8
35°	6397.5	6373.8	6363.7	6348.5	6316.4	6291.1	6235.4	6189.8	6159.4	6098.7	6075.0
37.5°	6681.0	6679.3	6687.8	6682.7	6687.8	6655.7	6630.4	6628.7	6584.8	6525.7	6468.3
40°	7067.6	7087.8	7133.4	7165.5	7195.9	7199.2	7234.7	7197.6	7202.6	7194.2	7135.1
42.5°	7508.1	7577.4	7631.4	7725.9	7798.5	7866.0	7911.6	7974.0	8021.3	8063.5	8073.6
45°	7999.3	8102.3	8227.2	8311.6	8453.4	8566.5	8721.8	8841.6	8966.6	9089.8	9133.7
47.5°	8532.7	8661.0	8799.4	8956.4	9135.4	9312.6	9552.3	9736.3	9937.1	10104.3	10252.8
50°	9121.9	9255.2	9440.9	9621.5	9867.9	10072.2	10386.2	10627.5	10951.6	11174.4	11366.9
52.5°	9736.3	9903.4	10111.0	10310.2	10561.7	10823.3	11172.8	11528.9	11918.8	12256.4	12536.6
55°	10337.2	10543.1	10742.3	10975.3	11253.8	11557.6	11952.6	12421.9	12908.0	13294.5	13665.9
57.5°	10872.3	11110.3	11344.9	11581.2	11866.5	12219.3	12663.2	13169.6	13726.7	14241.5	14751.3
60°	11368.6	11653.8	11940.8	12236.2	12563.6	12999.1	13532.6	14155.4	14876.2	15580.1	16246.8
62.5°	12153.5	12528.2	12884.4	13265.8	13660.8	14172.3	14801.9	15618.9	16446.0	17325.4	18009.1
65°	13216.9	13743.5	14209.4	14704.0	15215.5	15899.1	16651.9	17629.3	18814.2	19715.6	20812.8
67.5°	13745.2	14439.0	15038.2	15588.5	16221.5	16911.9	17806.5	18962.8	20227.1	21533.6	22757.4
69°	13124.1	13839.8	14503.1	15119.3	15759.0	16429.1	17364.3	18550.9	19887.8	21300.6	22495.7
70°	12318.9	13034.6	13741.9	14444.1	15028.1	15681.4	16619.9	17843.7	19178.8	20647.4	21832.4
72.5°	9437.5	10298.4	10938.1	11596.4	12273.3	12827.0	13910.7	14942.0	16332.9	17823.4	19128.2
75°	6037.9	6829.6	7528.4	8088.8	8750.5	9413.9	10214.0	11360.1	12231.1	13454.9	14513.3
77.5°	3102.5	3337.1	4010.6	4211.5	4670.6	5031.9	5472.4	5759.4	6468.3	6618.6	7243.1
80°	1470.2	1325.1	1247.4	1176.5	1196.8	1188.3	1152.9	1105.6	1164.7	1139.4	1129.3
82.5°	1281.2	1142.8	911.5	774.8	670.1	568.8	489.5	449.0	454.1	467.6	472.6
85°	898.0	844.0	658.3	499.6	389.9	302.1	243.1	232.9	239.7	258.3	251.5
87.5°	259.9	271.8	239.7	167.1	116.5	84.4	65.8	74.3	70.9	69.2	72.6
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7
2.5°	5025.1	5023.4	5018.4	5013.3	5013.3	5009.9	5013.3	5015.0	5013.3	5013.3	5009.9
5°	5082.5	5084.2	5089.3	5079.1	5077.4	5079.1	5072.4	5070.7	5065.6	5070.7	5063.9
7.5°	5192.2	5197.3	5197.3	5190.5	5188.9	5193.9	5183.8	5180.4	5175.4	5173.7	5172.0
10°	5356.0	5361.0	5352.6	5347.5	5342.5	5349.2	5340.8	5340.8	5335.7	5330.6	5329.0
12.5°	5538.3	5534.9	5531.5	5534.9	5529.8	5529.8	5524.8	5521.4	5519.7	5518.0	5514.6
15°	5680.1	5691.9	5691.9	5695.3	5691.9	5691.9	5685.1	5686.8	5683.4	5681.7	5683.4
17.5°	5771.2	5774.6	5783.0	5788.1	5788.1	5789.8	5786.4	5789.8	5786.4	5786.4	5793.2
20°	5783.0	5786.4	5794.8	5803.3	5808.3	5811.7	5811.7	5816.8	5820.2	5823.5	5832.0
22.5°	5735.8	5740.8	5751.0	5766.1	5774.6	5778.0	5784.7	5793.2	5801.6	5808.3	5820.2
25°	5686.8	5688.5	5698.6	5713.8	5723.9	5732.4	5744.2	5754.3	5766.1	5779.6	5793.2
27.5°	5659.8	5658.1	5666.6	5681.7	5690.2	5702.0	5712.1	5727.3	5740.8	5757.7	5769.5
30°	5683.4	5669.9	5671.6	5678.4	5685.1	5693.6	5705.4	5718.9	5734.1	5749.3	5762.8
32.5°	5788.1	5757.7	5737.5	5732.4	5734.1	5735.8	5742.5	5751.0	5762.8	5774.6	5779.6
35°	6014.3	5962.0	5934.9	5913.0	5894.4	5879.2	5882.6	5880.9	5880.9	5891.1	5879.2
37.5°	6444.7	6378.9	6350.2	6311.4	6289.4	6233.7	6218.5	6215.1	6193.2	6193.2	6167.9
40°	7119.9	7081.1	7059.1	7023.7	6917.3	6930.9	6854.9	6856.6	6794.1	6800.9	6757.0
42.5°	8080.4	8085.4	8058.4	8034.8	7952.1	7914.9	7844.1	7742.8	7663.4	7661.7	7574.0
45°	9191.1	9251.8	9165.7	9196.1	9123.5	9024.0	8941.2	8811.3	8688.0	8649.2	8559.8
47.5°	10352.4	10452.0	10386.2	10398.0	10362.5	10220.7	10109.3	9949.0	9788.6	9680.6	9626.6
50°	11593.1	11658.9	11657.2	11625.1	11608.3	11469.8	11290.9	11169.4	11051.2	10906.1	10858.8
52.5°	12717.3	12870.9	12973.8	12950.2	12901.2	12818.5	12659.9	12555.2	12381.3	12361.1	12381.3
55°	13920.8	14120.0	14224.6	14351.2	14352.9	14337.7	14271.9	14233.1	14071.0	14089.6	14066.0
57.5°	15060.2	15352.2	15512.6	15782.6	15875.5	15998.7	15953.1	16003.8	15905.9	15970.0	15951.4
60°	16604.7	17009.8	17276.5	17646.2	17818.3	18127.2	18188.0	18225.1	18279.2	18410.8	18336.5
62.5°	18547.5	19141.7	19695.4	20198.4	20363.8	20828.0	20904.0	21194.3	21209.5	21299.0	21135.2
65°	21727.7	22451.8	23061.2	23663.8	24011.5	24555.1	24774.5	25338.3	25166.1	25238.7	24889.3
67.5°	23810.7	24653.0	25470.0	26040.5	26617.8	27173.1	27573.2	27937.8	27934.4	27863.5	27552.9
69°	23626.7	24565.2	25370.4	26135.0	26742.7	27313.2	27794.3	28030.6	28113.3	28010.4	27789.2
70°	22990.3	23954.2	24939.9	25569.5	26231.2	26857.5	27353.7	27612.0	27669.4	27596.8	27406.1
72.5°	20049.8	20974.9	22061.9	22634.1	23434.3	23886.6	24570.3	24904.5	24963.6	24870.7	24745.8
75°	15647.6	15814.7	16922.0	17286.6	17867.3	18388.9	18814.2	18706.2	19008.4	18949.3	18902.0
77.5°	7371.4	6925.8	7643.2	7977.4	7801.9	7334.3	8014.5	7523.3	7849.1	8272.8	8164.8
80°	1215.3	1212.0	1244.0	1314.9	1230.5	1306.5	1304.8	1267.7	1271.1	1362.2	1314.9
82.5°	467.6	477.7	482.8	496.3	496.3	498.0	506.4	516.5	508.1	525.0	521.6
85°	253.2	270.1	254.9	243.1	251.5	256.6	263.3	271.8	263.3	288.6	275.1
87.5°	65.8	69.2	60.8	60.8	59.1	54.0	54.0	57.4	62.5	74.3	81.0
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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CATALOG NUMBER: VST-E10-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7
2.5°	5003.2	5004.9	5006.6	5001.5	4998.1	4998.1	4996.4	4993.1	4991.4	4991.4	4991.4
5°	5060.6	5063.9	5055.5	5053.8	5050.4	5047.1	5047.1	5043.7	5045.4	5045.4	5036.9
7.5°	5175.4	5170.3	5160.2	5153.4	5160.2	5148.3	5143.3	5146.7	5143.3	5145.0	5141.6
10°	5329.0	5329.0	5317.1	5323.9	5315.5	5302.0	5307.0	5302.0	5298.6	5286.8	5293.5
12.5°	5519.7	5514.6	5507.9	5492.7	5487.6	5485.9	5470.7	5472.4	5467.4	5464.0	5458.9
15°	5686.8	5685.1	5669.9	5661.5	5659.8	5653.1	5646.3	5642.9	5634.5	5632.8	5629.4
17.5°	5798.2	5793.2	5786.4	5778.0	5778.0	5767.8	5764.5	5756.0	5754.3	5749.3	5744.2
20°	5835.4	5837.0	5830.3	5823.5	5820.2	5813.4	5808.3	5801.6	5798.2	5791.5	5786.4
22.5°	5826.9	5826.9	5820.2	5818.5	5811.7	5801.6	5794.8	5786.4	5778.0	5769.5	5759.4
25°	5799.9	5798.2	5793.2	5784.7	5776.3	5761.1	5747.6	5734.1	5722.3	5712.1	5696.9
27.5°	5776.3	5772.9	5762.8	5751.0	5734.1	5717.2	5691.9	5673.3	5658.1	5644.6	5627.7
30°	5767.8	5756.0	5740.8	5722.3	5702.0	5676.7	5649.7	5626.0	5609.2	5595.7	5588.9
32.5°	5778.0	5762.8	5739.1	5715.5	5690.2	5659.8	5632.8	5612.5	5597.3	5594.0	5594.0
35°	5870.8	5845.5	5813.4	5779.6	5747.6	5722.3	5703.7	5702.0	5691.9	5703.7	5722.3
37.5°	6142.6	6120.6	6071.7	6027.8	6005.8	5994.0	5977.1	5980.5	5956.9	5994.0	6024.4
40°	6719.9	6692.8	6635.5	6600.0	6556.1	6513.9	6547.7	6537.6	6554.4	6547.7	6579.8
42.5°	7562.2	7535.2	7444.0	7430.5	7411.9	7395.0	7395.0	7381.5	7374.8	7398.4	7371.4
45°	8586.8	8532.7	8499.0	8539.5	8483.8	8500.7	8559.8	8480.4	8499.0	8389.3	8288.0
47.5°	9650.2	9645.1	9636.7	9685.6	9694.1	9719.4	9751.5	9670.4	9523.6	9440.9	9234.9
50°	10874.0	10926.3	10946.6	10993.8	11014.1	11032.6	10982.0	10862.2	10614.0	10394.6	10151.5
52.5°	12361.1	12269.9	12394.9	12440.4	12420.2	12345.9	12163.6	12016.7	11674.1	11358.4	10982.0
55°	14093.0	14114.9	14027.1	13991.7	13922.5	13716.5	13465.0	13134.2	12700.4	12288.5	11812.5
57.5°	15856.9	15848.5	15711.7	15519.3	15284.7	15036.5	14661.8	14187.5	13681.1	13127.4	12551.8
60°	18002.3	17993.9	17717.1	17387.9	17053.7	16653.6	16066.2	15495.7	14817.1	14089.6	13404.3
62.5°	20821.3	20458.3	20186.6	19695.4	19178.8	18655.6	17860.5	17102.6	16196.2	15277.9	14477.8
65°	24433.5	23836.0	23527.1	22814.8	22014.7	21197.7	20389.1	19393.2	18172.8	17062.1	16084.8
67.5°	27105.6	26558.7	25993.2	25282.6	24404.8	23493.3	22386.0	21131.8	19746.0	18500.3	17435.2
69°	27340.2	26828.8	26150.2	25437.9	24607.4	23616.6	22408.0	21003.6	19599.2	18338.2	17290.0
70°	26984.1	26440.5	25726.5	24985.5	24057.1	23122.0	21856.0	20392.5	18986.4	17722.1	16699.2
72.5°	24327.2	23797.2	23037.6	22151.4	21199.4	20399.3	19197.4	17671.5	16142.2	14974.1	14177.4
75°	18498.6	18382.1	17843.7	17327.1	16577.7	15684.7	14585.9	13559.6	12305.4	11069.8	10327.1
77.5°	7893.0	8161.4	8441.6	8482.1	8509.1	8234.0	8063.5	7805.2	6966.3	6584.8	6191.5
80°	1458.4	1303.1	1390.9	1401.0	1458.4	1488.8	1600.2	1897.3	1931.1	2003.6	2093.1
82.5°	518.2	526.7	540.2	545.2	550.3	570.5	646.5	774.8	891.3	1043.2	1245.7
85°	293.7	298.8	310.6	320.7	327.5	347.7	389.9	465.9	580.7	754.5	1022.9
87.5°	89.5	101.3	108.0	121.5	126.6	130.0	148.5	199.2	256.6	379.8	553.7
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-E10-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7	4994.7
2.5°	4991.4	4989.7	4986.3	4982.9	4984.6	4981.2	4971.1	4967.7	4955.9	4947.5	4940.7
5°	5036.9	5035.2	5028.5	5030.2	5028.5	5011.6	4999.8	4979.5	4967.7	4949.2	4942.4
7.5°	5131.5	5129.8	5118.0	5123.0	5119.6	5094.3	5074.1	5042.0	5025.1	5001.5	4982.9
10°	5273.3	5273.3	5259.8	5261.4	5261.4	5227.7	5192.2	5138.2	5099.4	5062.3	5030.2
12.5°	5445.4	5438.7	5437.0	5428.5	5421.8	5384.7	5330.6	5258.1	5185.5	5124.7	5080.8
15°	5619.3	5609.2	5604.1	5594.0	5585.5	5551.8	5479.2	5389.7	5291.8	5193.9	5121.3
17.5°	5732.4	5725.6	5715.5	5712.1	5700.3	5666.6	5615.9	5526.5	5404.9	5268.2	5158.5
20°	5774.6	5762.8	5756.0	5749.3	5742.5	5718.9	5718.9	5661.5	5526.5	5334.0	5166.9
22.5°	5747.6	5740.8	5730.7	5725.6	5718.9	5722.3	5788.1	5779.6	5624.4	5349.2	5106.1
25°	5685.1	5676.7	5668.2	5668.2	5666.6	5702.0	5860.7	5882.6	5653.1	5274.9	4972.8
27.5°	5621.0	5609.2	5612.5	5614.2	5622.7	5698.6	5940.0	5909.6	5575.4	5096.0	4743.2
30°	5582.2	5582.2	5590.6	5604.1	5621.0	5754.3	6002.5	5848.9	5374.5	4825.9	4439.4
32.5°	5599.0	5615.9	5634.5	5668.2	5693.6	5877.6	6024.4	5691.9	5082.5	4491.7	4122.1
35°	5749.3	5769.5	5805.0	5857.3	5887.7	6054.8	6024.4	5462.3	4743.2	4204.8	3794.6
37.5°	6076.7	6097.0	6139.2	6179.7	6210.1	6277.6	5999.1	5170.3	4459.6	3907.7	3500.9
40°	6603.4	6632.1	6662.5	6655.7	6635.5	6569.6	5948.4	4898.5	4198.0	3647.7	3212.2
42.5°	7344.4	7317.4	7314.0	7248.2	7180.7	6898.8	5911.3	4721.3	3973.5	3374.3	2925.3
45°	8200.2	8090.5	7977.4	7889.6	7786.7	7260.0	5901.2	4577.8	3725.4	3070.4	2613.0
47.5°	9061.1	8885.5	8666.1	8529.4	8362.3	7644.9	5931.6	4385.4	3406.3	2739.6	2321.0
50°	9905.1	9618.1	9346.4	9182.6	8993.6	8087.1	5980.5	4061.3	3024.9	2439.1	2054.3
52.5°	10686.6	10316.9	10038.4	9846.0	9614.7	8602.0	5936.6	3635.9	2694.0	2150.5	1801.1
55°	11429.3	11020.8	10732.2	10529.6	10257.9	9118.5	5619.3	3249.4	2378.4	1868.6	1515.8
57.5°	12079.2	11687.6	11387.1	11112.0	10882.4	9567.5	4993.1	2930.3	2074.5	1546.2	1206.9
60°	12838.8	12398.2	12042.1	11748.4	11478.3	9798.7	4290.8	2646.8	1750.4	1196.8	872.7
62.5°	13863.4	13357.0	12945.1	12609.2	12256.4	9849.4	3811.5	2363.2	1389.2	865.9	634.7
65°	15382.6	14758.0	14243.2	13780.7	13303.0	9640.1	3575.1	2054.3	1033.0	643.1	531.7
67.5°	16589.5	15941.3	15345.4	14751.3	14140.2	9251.8	3522.8	1769.0	793.4	546.9	477.7
69°	16442.6	15824.8	15277.9	14634.8	13957.9	8764.0	3470.5	1659.3	724.1	508.1	452.4
70°	15877.2	15291.4	14736.1	14212.8	13384.0	8220.5	3332.1	1598.5	697.1	489.5	433.8
72.5°	13416.1	12737.5	12199.0	11547.5	10674.8	6108.8	2526.9	1293.0	639.7	447.3	391.6
75°	9785.2	9223.1	8686.4	7965.6	7116.5	3534.6	1573.2	739.3	469.3	405.1	354.5
77.5°	5713.8	5587.2	5069.0	4594.7	3754.1	1799.4	903.1	442.3	364.6	368.0	312.3
80°	2150.5	2290.6	2342.9	2179.2	2013.8	1242.4	656.6	359.5	317.3	362.9	265.0
82.5°	1568.1	1819.6	1850.0	1772.4	1649.2	1158.0	525.0	288.6	258.3	389.9	227.9
85°	1308.2	1448.3	1470.2	1389.2	1348.7	980.7	366.3	202.6	189.1	280.2	170.5
87.5°	661.7	697.1	715.7	648.2	651.6	457.4	146.9	86.1	103.0	119.8	94.5
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):

	175°	180°
0°	4994.7	4994.7
2.5°	4925.5	4935.7
5°	4932.3	4932.3
7.5°	4971.1	4971.1
10°	5013.3	5015.0
12.5°	5052.1	5050.4
15°	5082.5	5077.4
17.5°	5101.1	5096.0
20°	5082.5	5074.1
22.5°	4988.0	4964.4
25°	4815.8	4785.4
27.5°	4587.9	4567.7
30°	4290.8	4260.5
32.5°	3943.1	3927.9
35°	3610.6	3592.0
37.5°	3306.8	3301.7
40°	3050.2	3023.2
42.5°	2749.7	2737.9
45°	2444.2	2437.4
47.5°	2157.2	2150.5
50°	1892.2	1878.7
52.5°	1632.3	1610.3
55°	1343.6	1328.4
57.5°	1031.4	1017.9
60°	725.8	710.6
62.5°	516.5	499.6
65°	430.4	416.9
67.5°	389.9	374.7
69°	371.4	357.9
70°	359.5	349.4
72.5°	334.2	327.5
75°	305.5	300.5
77.5°	268.4	259.9
80°	224.5	216.1
82.5°	189.1	180.6
85°	126.6	114.8
87.5°	57.4	50.6
90°	0.0	0.0

(END OF REPORT)