

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: P158066

Luminaire Tested: **VST-F10-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158066
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-F10-LED-E-U-RW-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (70) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26389.9 lumens
Efficiency: N/A
Efficacy: 102.0 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): 258.7
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

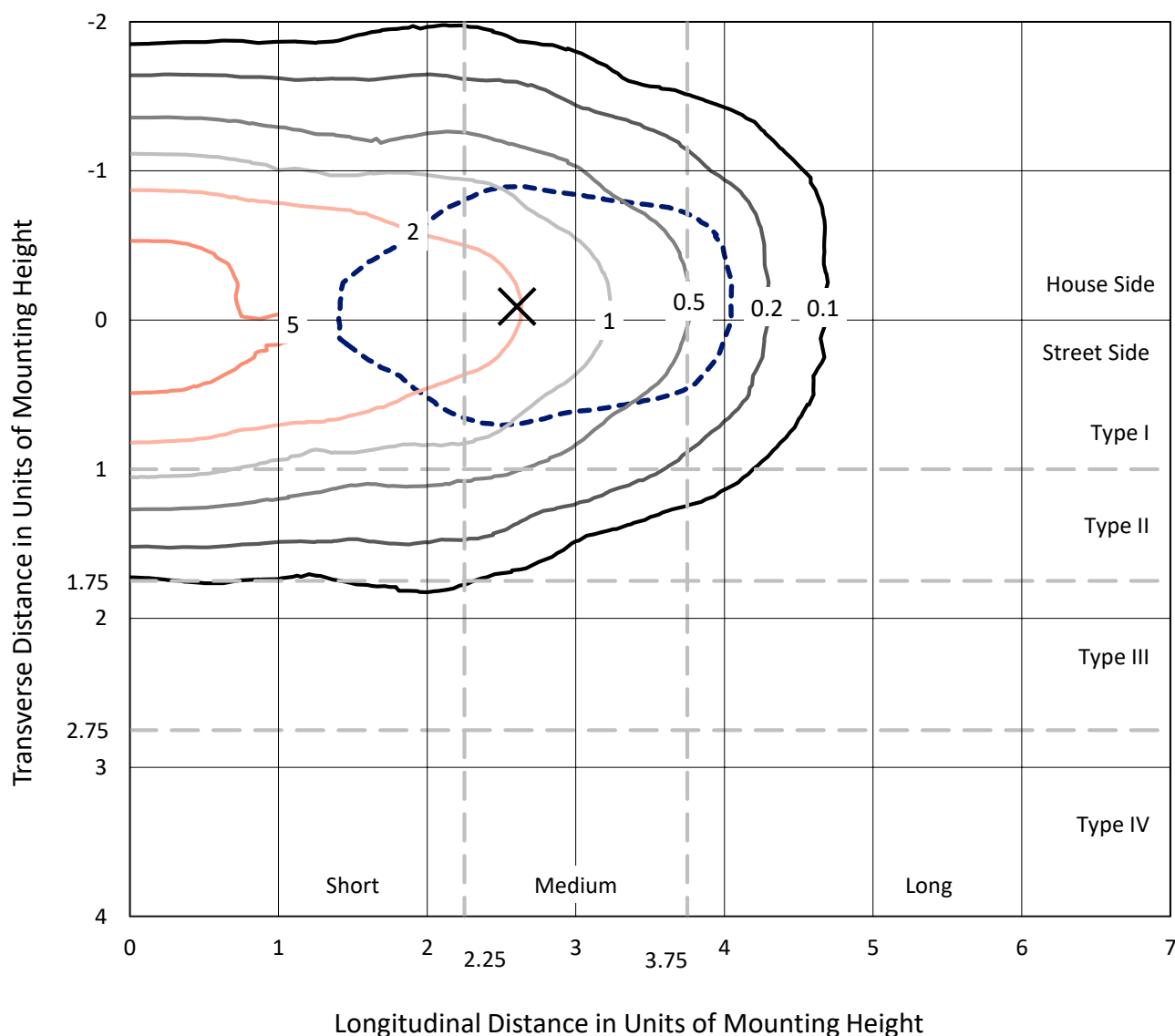


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

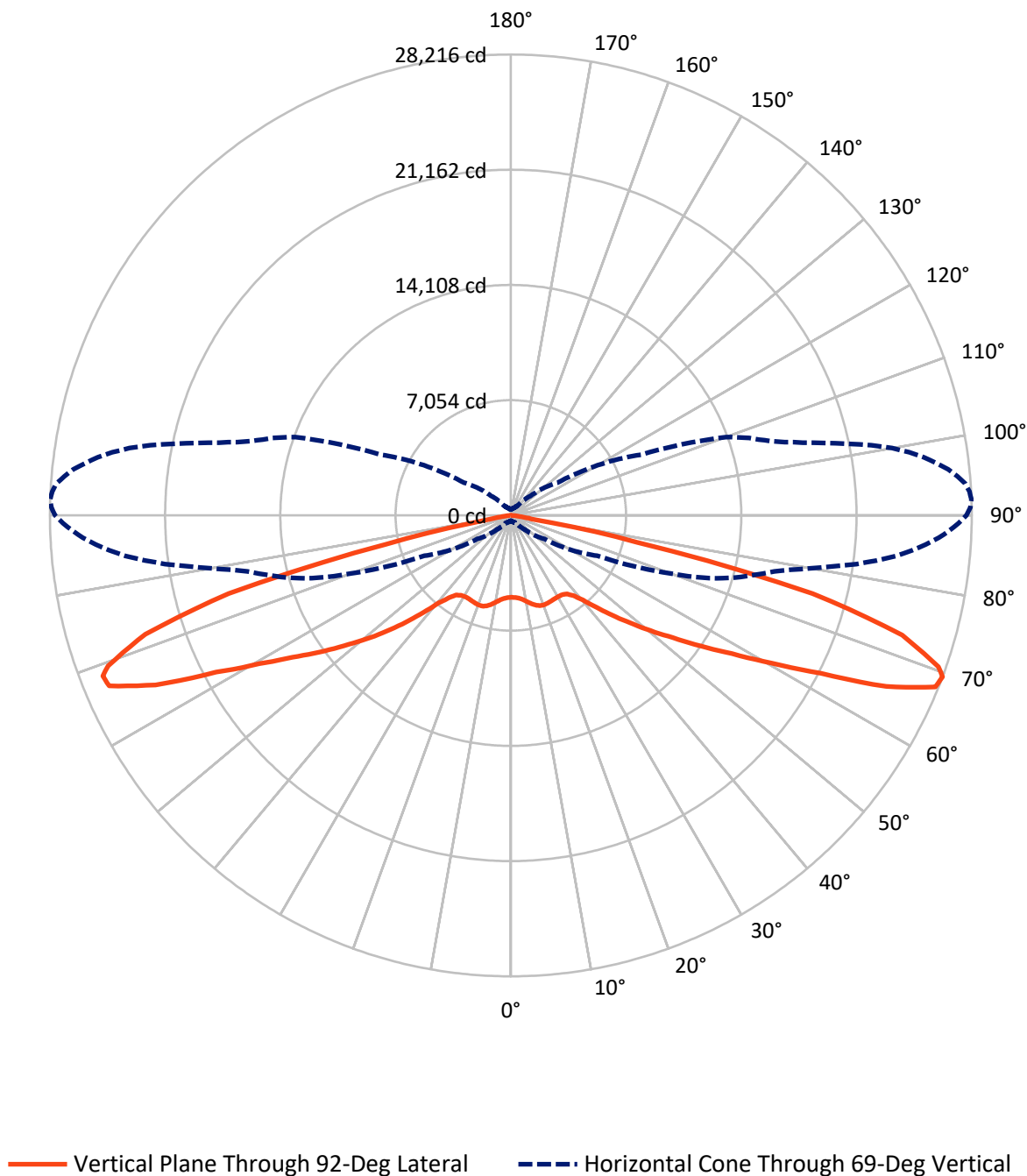


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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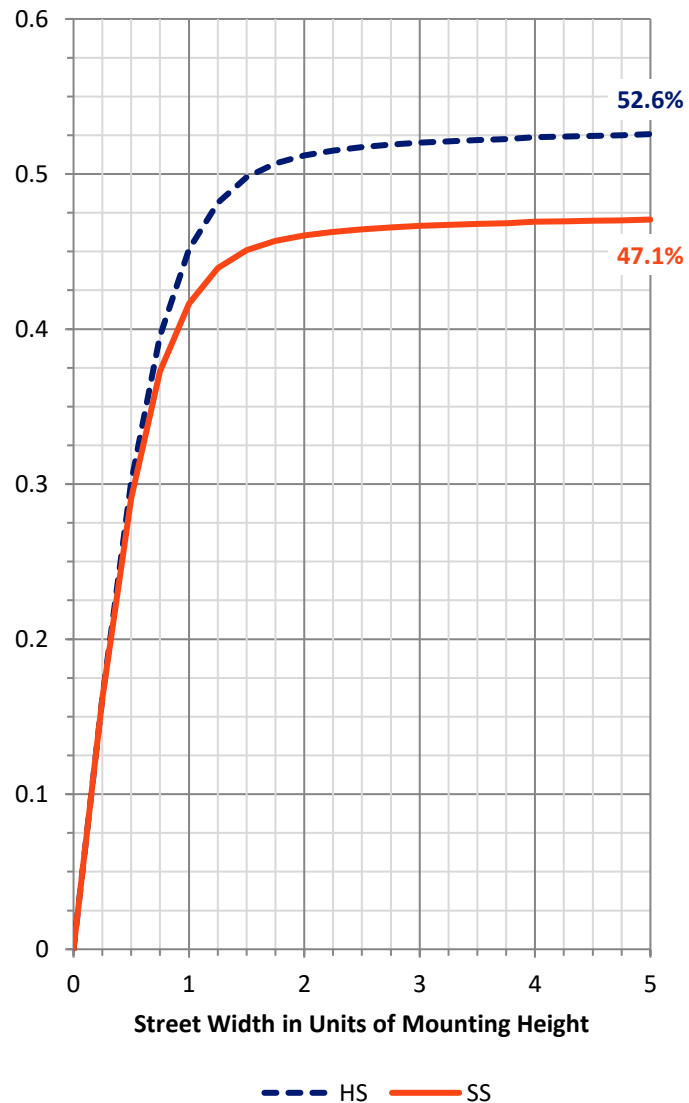
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13995.9	0.0	13995.9
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	12394.0	0.0	12394.0
	% Fixture	47.0	0.0	47.0
Total	Lumens	26389.9	0.0	26389.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.5	1.9
10°-20°	1549.6	5.9
20°-30°	2514.0	9.5
30°-40°	3133.2	11.9
40°-50°	3901.1	14.8
50°-60°	4811.1	18.2
60°-70°	5975.0	22.6
70°-80°	3671.3	13.9
80°-90°	344.1	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°	26389.9	100.0
0°-180°	26389.9	100.0

Coefficient of Utilization



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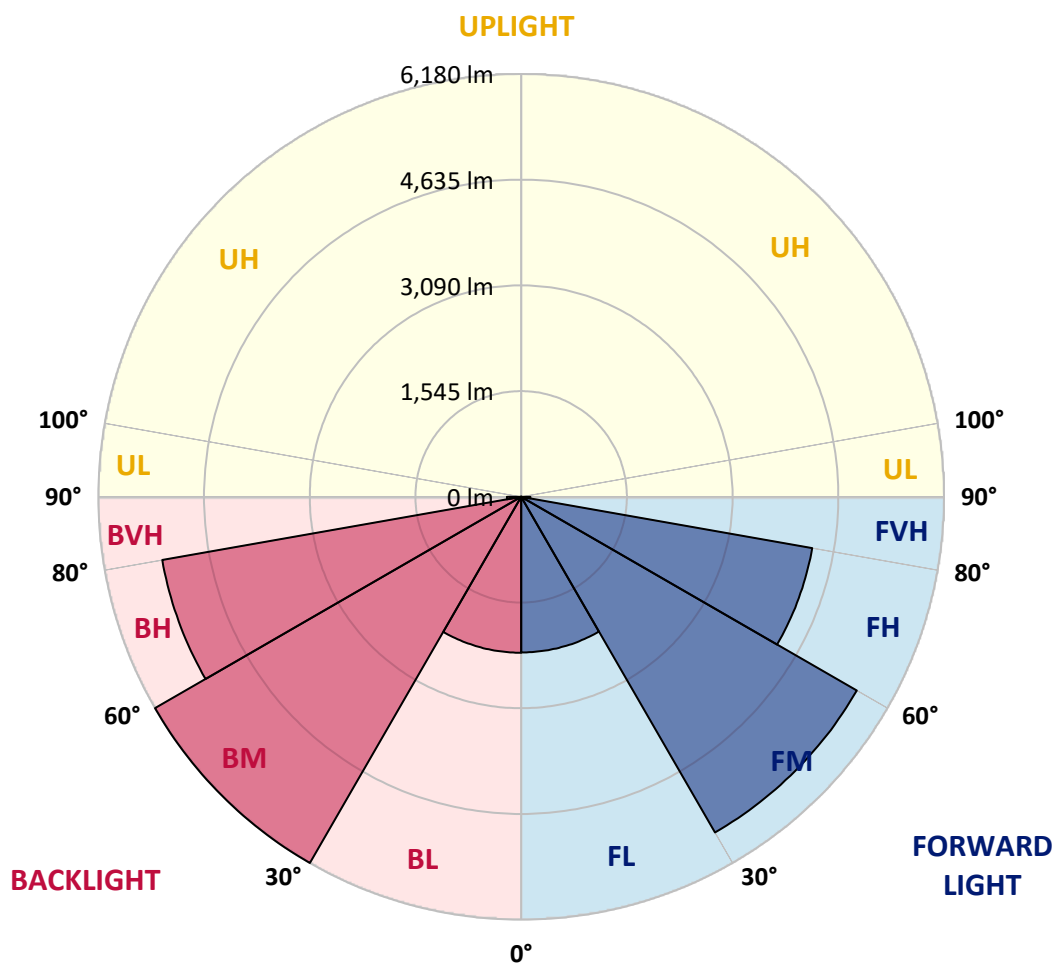
CATALOG NUMBER: VST-F10-LED-E-U-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2274.7	8.6			
FM	(30°-60°)	5664.9	21.5			
FH	(60°-80°)	4319.7	16.4			G2/5000
FVH	(80°-90°)	134.7	0.5			G2/225
BL	(0°-30°)	2279.5	8.6	B3/2500		
BM	(30°-60°)	6180.5	23.4	B4/8500		
BH	(60°-80°)	5326.6	20.2	B5		G5
BVH	(80°-90°)	209.4	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°	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0
2.5°	5092.6	5079.1	5090.9	5092.6	5090.9	5090.9	5075.7	5072.3	5052.0	5057.0	5055.3
5°	5162.1	5157.0	5165.5	5168.9	5172.2	5165.5	5153.6	5148.5	5135.0	5129.9	5128.2
7.5°	5226.5	5218.0	5231.5	5243.4	5251.9	5253.6	5255.3	5246.8	5246.8	5240.0	5240.0
10°	5280.7	5273.9	5295.9	5311.2	5338.3	5353.5	5370.5	5382.3	5389.1	5390.8	5389.1
12.5°	5304.4	5299.3	5334.9	5380.6	5431.4	5467.0	5509.4	5539.9	5548.3	5546.7	5555.1
15°	5263.7	5267.1	5321.3	5411.1	5519.5	5609.3	5668.6	5694.0	5700.8	5704.2	5705.9
17.5°	5153.6	5160.4	5238.3	5384.0	5573.8	5736.4	5824.5	5824.5	5810.9	5810.9	5809.2
20°	4977.4	4984.2	5085.8	5295.9	5575.5	5824.5	5949.9	5924.4	5873.6	5863.5	5853.3
22.5°	4733.5	4760.6	4872.4	5116.3	5502.6	5849.9	6027.8	5990.5	5910.9	5888.9	5873.6
25°	4457.3	4453.9	4587.8	4862.2	5326.4	5788.9	6049.8	6043.0	5958.3	5934.6	5907.5
27.5°	4142.2	4152.4	4276.0	4553.9	5057.0	5612.7	6012.5	6102.3	6032.9	6009.2	5983.7
30°	3818.6	3828.8	3945.7	4269.3	4750.4	5360.3	5936.3	6159.9	6132.8	6114.2	6097.3
32.5°	3493.3	3496.7	3635.6	3982.9	4491.2	5058.7	5821.1	6212.5	6249.7	6241.3	6234.5
35°	3188.4	3191.8	3342.6	3694.9	4235.4	4801.2	5682.2	6288.7	6409.0	6419.1	6425.9
37.5°	2891.9	2897.0	3051.2	3420.5	3982.9	4606.4	5528.0	6405.6	6632.6	6669.9	6676.7
40°	2597.1	2602.2	2749.6	3141.0	3727.1	4435.3	5409.4	6569.9	6934.2	6985.0	7037.5
42.5°	2315.9	2334.5	2459.9	2834.3	3442.5	4223.5	5358.6	6769.8	7291.6	7371.3	7430.5
45°	2053.3	2055.0	2197.3	2548.0	3105.4	3937.2	5324.7	6996.8	7691.4	7811.7	7893.1
47.5°	1772.1	1792.4	1941.5	2282.0	2790.3	3583.1	5216.3	7262.8	8126.8	8267.5	8431.8
50°	1499.3	1528.1	1672.1	2009.3	2502.3	3217.2	4924.9	7574.6	8616.5	8799.4	8989.2
52.5°	1236.7	1235.0	1387.5	1738.2	2212.6	2907.2	4452.2	7901.5	9182.3	9378.8	9583.8
55°	935.2	935.2	1086.0	1406.1	1899.1	2631.0	3945.7	8104.8	9707.5	9944.7	10168.3
57.5°	642.1	659.0	801.3	1077.5	1572.2	2378.6	3557.7	7987.9	10109.0	10403.8	10669.8
60°	476.1	493.0	598.0	774.2	1230.0	2080.4	3266.3	7437.3	10351.3	10742.6	11088.2
62.5°	411.7	423.5	523.5	620.1	886.0	1763.6	3008.8	6737.6	10700.3	11235.6	11716.7
65°	367.6	379.5	479.4	535.4	692.9	1418.0	2864.8	6337.8	11117.0	11935.3	12633.3
67.5°	340.5	354.1	438.8	479.4	604.8	1282.5	2753.0	6244.6	11113.6	12106.4	12997.5
69°	327.0	337.1	406.6	450.6	584.5	1241.8	2510.7	5839.7	10380.1	11445.7	12340.2
70°	318.5	328.7	388.0	432.0	577.7	1169.0	2287.1	5304.4	9544.8	10617.2	11525.3
72.5°	291.4	301.6	345.6	386.3	481.1	781.0	1594.2	3395.1	6820.7	7586.4	8624.9
75°	257.5	269.4	303.3	337.1	364.2	452.3	919.9	1761.9	3899.9	4481.0	5406.0
77.5°	210.1	221.9	257.5	311.7	308.3	343.9	598.0	1082.6	1826.3	2265.1	2607.3
80°	172.8	181.3	211.8	315.1	252.4	288.0	484.5	887.7	1285.9	1421.4	1502.7
82.5°	115.2	127.1	164.3	247.3	193.1	205.0	362.5	830.1	1087.6	1192.7	1290.9
85°	54.2	59.3	100.0	132.1	116.9	110.1	206.7	586.2	809.8	858.9	896.2
87.5°	0.0	0.0	5.1	10.2	15.2	15.2	37.3	123.7	227.0	274.5	271.1
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-F10-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0
2.5°	5048.6	5050.3	5048.6	5048.6	5046.9	5043.5	5043.5	5040.1	5041.8	5040.1	5043.5
5°	5126.5	5126.5	5121.4	5118.0	5123.1	5118.0	5119.7	5111.3	5111.3	5106.2	5099.4
7.5°	5238.3	5238.3	5240.0	5229.8	5236.6	5238.3	5233.2	5229.8	5226.5	5218.0	5219.7
10°	5387.4	5387.4	5392.5	5378.9	5385.7	5389.1	5390.8	5390.8	5387.4	5372.2	5373.8
12.5°	5553.4	5550.0	5551.7	5545.0	5551.7	5555.1	5558.5	5555.1	5555.1	5551.7	5550.0
15°	5704.2	5702.5	5705.9	5700.8	5702.5	5705.9	5716.1	5714.4	5712.7	5702.5	5702.5
17.5°	5807.6	5802.5	5799.1	5797.4	5797.4	5795.7	5797.4	5797.4	5792.3	5790.6	5790.6
20°	5846.5	5833.0	5824.5	5819.4	5812.6	5809.2	5805.9	5807.6	5804.2	5799.1	5800.8
22.5°	5853.3	5834.7	5817.7	5802.5	5788.9	5780.4	5772.0	5768.6	5760.1	5755.0	5755.0
25°	5885.5	5856.7	5829.6	5804.2	5783.8	5765.2	5746.6	5733.0	5722.8	5711.0	5707.6
27.5°	5956.6	5926.1	5894.0	5861.8	5834.7	5797.4	5772.0	5744.9	5721.1	5702.5	5689.0
30°	6066.8	6036.3	6004.1	5966.8	5931.2	5892.3	5849.9	5817.7	5783.8	5746.6	5726.2
32.5°	6212.5	6192.1	6159.9	6124.4	6092.2	6051.5	6000.7	5951.6	5919.4	5875.3	5843.1
35°	6420.8	6397.1	6387.0	6371.7	6339.5	6314.1	6258.2	6212.5	6182.0	6121.0	6097.3
37.5°	6705.5	6703.8	6712.2	6707.1	6712.2	6680.0	6654.6	6652.9	6608.9	6549.6	6492.0
40°	7093.4	7113.7	7159.5	7191.7	7222.2	7225.6	7261.1	7223.9	7228.9	7220.5	7161.2
42.5°	7535.6	7605.0	7659.3	7754.1	7827.0	7894.7	7940.5	8003.2	8050.6	8093.0	8103.1
45°	8028.6	8131.9	8257.3	8342.0	8484.3	8597.8	8753.7	8874.0	8999.3	9123.0	9167.1
47.5°	8563.9	8692.7	8831.6	8989.2	9168.7	9346.6	9587.2	9771.9	9973.5	10141.2	10290.3
50°	9155.2	9289.0	9475.4	9656.7	9904.0	10109.0	10424.1	10666.4	10991.7	11215.3	11408.4
52.5°	9771.9	9939.6	10148.0	10347.9	10600.3	10862.9	11213.6	11571.1	11962.4	12301.2	12582.5
55°	10375.0	10581.7	10781.6	11015.4	11294.9	11599.9	11996.3	12467.3	12955.2	13343.1	13715.8
57.5°	10912.0	11150.9	11386.4	11623.6	11909.9	12264.0	12709.5	13217.8	13776.8	14293.6	14805.2
60°	11410.1	11696.4	11984.4	12280.9	12609.6	13046.7	13582.0	14207.2	14930.6	15637.0	16306.2
62.5°	12197.9	12574.0	12931.5	13314.3	13710.8	14224.1	14856.0	15676.0	16506.1	17388.8	18074.9
65°	13265.2	13793.8	14261.4	14757.8	15271.1	15957.2	16712.8	17693.7	18883.0	19787.7	20888.9
67.5°	13795.5	14491.8	15093.2	15645.5	16280.8	16973.7	17871.6	19032.1	20301.0	21612.3	22840.5
69°	13172.0	13890.3	14556.1	15174.5	15816.6	16489.2	17427.7	18618.7	19960.5	21378.5	22578.0
70°	12363.9	13082.2	13792.1	14496.9	15083.0	15738.7	16680.6	17908.9	19248.9	20722.9	21912.2
72.5°	9472.0	10336.0	10978.1	11638.8	12318.2	12873.9	13961.5	14996.6	16392.6	17888.5	19198.1
75°	6060.0	6854.5	7555.9	8118.4	8782.5	9448.3	10251.3	11401.6	12275.8	13504.1	14566.3
77.5°	3113.8	3349.3	4025.3	4226.9	4687.7	5050.3	5492.4	5780.4	6492.0	6642.8	7269.6
80°	1475.6	1329.9	1252.0	1180.8	1201.2	1192.7	1157.1	1109.7	1169.0	1143.6	1133.4
82.5°	1285.9	1146.9	914.8	777.6	672.6	570.9	491.3	450.6	455.7	469.3	474.4
85°	901.3	847.1	660.7	501.5	391.3	303.3	244.0	233.8	240.6	259.2	252.4
87.5°	260.9	272.8	240.6	167.7	116.9	84.7	66.1	74.5	71.2	69.5	72.8
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°	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0
2.5°	5043.5	5041.8	5036.7	5031.6	5031.6	5028.2	5031.6	5033.3	5031.6	5031.6	5028.2
5°	5101.1	5102.8	5107.9	5097.7	5096.0	5097.7	5090.9	5089.2	5084.1	5089.2	5082.5
7.5°	5211.2	5216.3	5216.3	5209.5	5207.8	5212.9	5202.7	5199.4	5194.3	5192.6	5190.9
10°	5375.5	5380.6	5372.2	5367.1	5362.0	5368.8	5360.3	5360.3	5355.2	5350.1	5348.4
12.5°	5558.5	5555.1	5551.7	5555.1	5550.0	5550.0	5545.0	5541.6	5539.9	5538.2	5534.8
15°	5700.8	5712.7	5712.7	5716.1	5712.7	5712.7	5705.9	5707.6	5704.2	5702.5	5704.2
17.5°	5792.3	5795.7	5804.2	5809.2	5809.2	5810.9	5807.6	5810.9	5807.6	5807.6	5814.3
20°	5804.2	5807.6	5816.0	5824.5	5829.6	5833.0	5833.0	5838.0	5841.4	5844.8	5853.3
22.5°	5756.7	5761.8	5772.0	5787.2	5795.7	5799.1	5805.9	5814.3	5822.8	5829.6	5841.4
25°	5707.6	5709.3	5719.5	5734.7	5744.9	5753.3	5765.2	5775.4	5787.2	5800.8	5814.3
27.5°	5680.5	5678.8	5687.3	5702.5	5711.0	5722.8	5733.0	5748.3	5761.8	5778.7	5790.6
30°	5704.2	5690.7	5692.3	5699.1	5705.9	5714.4	5726.2	5739.8	5755.0	5770.3	5783.8
32.5°	5809.2	5778.7	5758.4	5753.3	5755.0	5756.7	5763.5	5772.0	5783.8	5795.7	5800.8
35°	6036.3	5983.7	5956.6	5934.6	5916.0	5900.7	5904.1	5902.4	5902.4	5912.6	5900.7
37.5°	6468.3	6402.2	6373.4	6334.4	6312.4	6256.5	6241.3	6237.9	6215.8	6215.8	6190.4
40°	7145.9	7107.0	7084.9	7049.4	6942.6	6956.2	6879.9	6881.6	6819.0	6825.7	6781.7
42.5°	8109.9	8115.0	8087.9	8064.2	7981.1	7943.9	7872.7	7771.1	7691.4	7689.8	7601.7
45°	9224.7	9285.6	9199.2	9229.7	9156.9	9056.9	8973.9	8843.5	8719.8	8680.8	8591.0
47.5°	10390.2	10490.2	10424.1	10436.0	10400.4	10258.1	10146.3	9985.3	9824.4	9716.0	9661.7
50°	11635.4	11701.5	11699.8	11667.6	11650.7	11511.8	11332.2	11210.2	11091.6	10945.9	10898.5
52.5°	12763.7	12917.9	13021.2	12997.5	12948.4	12865.4	12706.1	12601.1	12426.6	12406.3	12426.6
55°	13971.7	14171.6	14276.6	14403.7	14405.4	14390.1	14324.0	14285.1	14122.4	14141.1	14117.4
57.5°	15115.2	15408.3	15569.2	15840.3	15933.5	16057.2	16011.4	16062.2	15964.0	16028.4	16009.7
60°	16665.4	17072.0	17339.6	17710.7	17883.5	18193.5	18254.5	18291.8	18346.0	18478.1	18403.6
62.5°	18615.3	19211.7	19767.4	20272.2	20438.2	20904.1	20980.4	21271.8	21287.0	21376.8	21212.5
65°	21807.1	22533.9	23145.5	23750.3	24099.3	24644.8	24865.1	25430.9	25258.1	25330.9	24980.3
67.5°	23897.7	24743.1	25563.0	26135.7	26715.1	27272.4	27674.0	28039.9	28036.5	27965.4	27653.6
69°	23713.0	24655.0	25463.1	26230.5	26840.4	27413.1	27895.9	28133.1	28216.1	28112.7	27890.8
70°	23074.3	24041.7	25031.1	25663.0	26327.1	26955.6	27453.7	27712.9	27770.5	27697.7	27506.2
72.5°	20123.1	21051.5	22142.6	22716.9	23519.9	23973.9	24660.1	24995.5	25054.8	24961.6	24836.3
75°	15704.8	15872.5	16983.9	17349.8	17932.6	18456.1	18883.0	18774.6	19077.8	19018.5	18971.1
77.5°	7398.4	6951.1	7671.1	8006.6	7830.4	7361.1	8043.8	7550.8	7877.8	8303.0	8194.6
80°	1219.8	1216.4	1248.6	1319.7	1235.0	1311.3	1309.6	1272.3	1275.7	1367.2	1319.7
82.5°	469.3	479.4	484.5	498.1	498.1	499.8	508.2	518.4	509.9	526.9	523.5
85°	254.1	271.1	255.8	244.0	252.4	257.5	264.3	272.8	264.3	289.7	276.1
87.5°	66.1	69.5	61.0	61.0	59.3	54.2	54.2	57.6	62.7	74.5	81.3
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-F10-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0
2.5°	5021.5	5023.2	5024.9	5019.8	5016.4	5016.4	5014.7	5011.3	5009.6	5009.6	5009.6
5°	5079.1	5082.5	5074.0	5072.3	5068.9	5065.5	5065.5	5062.1	5063.8	5063.8	5055.3
7.5°	5194.3	5189.2	5179.0	5172.2	5179.0	5167.2	5162.1	5165.5	5162.1	5163.8	5160.4
10°	5348.4	5348.4	5336.6	5343.4	5334.9	5321.3	5326.4	5321.3	5317.9	5306.1	5312.9
12.5°	5539.9	5534.8	5528.0	5512.8	5507.7	5506.0	5490.7	5492.4	5487.4	5484.0	5478.9
15°	5707.6	5705.9	5690.7	5682.2	5680.5	5673.7	5666.9	5663.5	5655.1	5653.4	5650.0
17.5°	5819.4	5814.3	5807.6	5799.1	5799.1	5788.9	5785.5	5777.1	5775.4	5770.3	5765.2
20°	5856.7	5858.4	5851.6	5844.8	5841.4	5834.7	5829.6	5822.8	5819.4	5812.6	5807.6
22.5°	5848.2	5848.2	5841.4	5839.7	5833.0	5822.8	5816.0	5807.6	5799.1	5790.6	5780.4
25°	5821.1	5819.4	5814.3	5805.9	5797.4	5782.1	5768.6	5755.0	5743.2	5733.0	5717.8
27.5°	5797.4	5794.0	5783.8	5772.0	5755.0	5738.1	5712.7	5694.0	5678.8	5665.2	5648.3
30°	5788.9	5777.1	5761.8	5743.2	5722.8	5697.4	5670.3	5646.6	5629.7	5616.1	5609.3
32.5°	5799.1	5783.8	5760.1	5736.4	5711.0	5680.5	5653.4	5633.1	5617.8	5614.4	5614.4
35°	5892.3	5866.8	5834.7	5800.8	5768.6	5743.2	5724.5	5722.8	5712.7	5724.5	5743.2
37.5°	6165.0	6143.0	6093.9	6049.8	6027.8	6015.9	5999.0	6002.4	5978.7	6015.9	6046.4
40°	6744.4	6717.3	6659.7	6624.1	6580.1	6537.7	6571.6	6561.4	6578.4	6571.6	6603.8
42.5°	7589.8	7562.7	7471.2	7457.7	7439.0	7422.1	7422.1	7408.5	7401.7	7425.5	7398.4
45°	8618.1	8563.9	8530.1	8570.7	8514.8	8531.7	8591.0	8511.4	8530.1	8419.9	8318.3
47.5°	9685.5	9680.4	9671.9	9721.0	9729.5	9754.9	9787.1	9705.8	9558.4	9475.4	9268.7
50°	10913.7	10966.2	10986.6	11034.0	11054.3	11073.0	11022.1	10901.9	10652.8	10432.6	10188.6
52.5°	12406.3	12314.8	12440.2	12485.9	12465.6	12391.0	12208.1	12060.7	11716.7	11399.9	11022.1
55°	14144.5	14166.5	14078.4	14042.8	13973.4	13766.7	13514.2	13182.2	12746.8	12333.4	11855.7
57.5°	15914.9	15906.4	15769.2	15576.0	15340.5	15091.5	14715.4	14239.3	13731.1	13175.4	12597.7
60°	18068.1	18059.7	17781.8	17451.5	17116.0	16714.5	16124.9	15552.3	14871.3	14141.1	13453.3
62.5°	20897.4	20533.1	20260.4	19767.4	19248.9	18723.8	17925.8	17165.1	16255.4	15333.8	14530.7
65°	24522.8	23923.1	23613.1	22898.1	22095.1	21275.2	20463.7	19464.1	18239.2	17124.5	16143.6
67.5°	27204.7	26655.8	26088.2	25375.0	24494.0	23579.2	22467.8	21209.1	19818.2	18567.9	17498.9
69°	27440.2	26926.8	26245.8	25530.9	24697.3	23702.9	22489.9	21080.3	19670.8	18405.3	17353.2
70°	27082.7	26537.2	25820.6	25076.8	24145.0	23206.5	21935.9	20467.0	19055.8	17786.9	16760.2
72.5°	24416.1	23884.1	23121.8	22232.3	21276.8	20473.8	19267.6	17736.1	16201.2	15028.8	14229.2
75°	18566.2	18449.3	17908.9	17390.5	16638.3	15742.1	14639.2	13609.1	12350.4	11110.2	10364.8
77.5°	7921.9	8191.2	8472.5	8513.1	8540.2	8264.1	8093.0	7833.8	6991.8	6608.9	6214.1
80°	1463.7	1307.9	1396.0	1406.1	1463.7	1494.2	1606.1	1904.2	1938.1	2011.0	2100.7
82.5°	520.1	528.6	542.1	547.2	552.3	572.6	648.9	777.6	894.5	1047.0	1250.3
85°	294.8	299.9	311.7	321.9	328.7	349.0	391.3	467.6	582.8	757.3	1026.7
87.5°	89.8	101.6	108.4	122.0	127.1	130.4	149.1	199.9	257.5	381.2	555.7
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: P158066

CATALOG NUMBER: VST-F10-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0
2.5°	5009.6	5007.9	5004.5	5001.1	5002.8	4999.4	4989.3	4985.9	4974.0	4965.6	4958.8
5°	5055.3	5053.7	5046.9	5048.6	5046.9	5029.9	5018.1	4997.7	4985.9	4967.3	4960.5
7.5°	5150.2	5148.5	5136.7	5141.7	5138.4	5112.9	5092.6	5060.4	5043.5	5019.8	5001.1
10°	5292.5	5292.5	5279.0	5280.7	5280.7	5246.8	5211.2	5157.0	5118.0	5080.8	5048.6
12.5°	5465.3	5458.6	5456.9	5448.4	5441.6	5404.3	5350.1	5277.3	5204.4	5143.4	5099.4
15°	5639.8	5629.7	5624.6	5614.4	5605.9	5572.1	5499.2	5409.4	5311.2	5212.9	5140.1
17.5°	5753.3	5746.6	5736.4	5733.0	5721.1	5687.3	5636.4	5546.7	5424.7	5287.4	5177.3
20°	5795.7	5783.8	5777.1	5770.3	5763.5	5739.8	5739.8	5682.2	5546.7	5353.5	5185.8
22.5°	5768.6	5761.8	5751.6	5746.6	5739.8	5743.2	5809.2	5800.8	5644.9	5368.8	5124.8
25°	5705.9	5697.4	5689.0	5689.0	5687.3	5722.8	5882.1	5904.1	5673.7	5294.2	4991.0
27.5°	5641.5	5629.7	5633.1	5634.7	5643.2	5719.5	5961.7	5931.2	5595.8	5114.6	4760.6
30°	5602.6	5602.6	5611.0	5624.6	5641.5	5775.4	6024.4	5870.2	5394.2	4843.6	4455.6
32.5°	5619.5	5636.4	5655.1	5689.0	5714.4	5899.0	6046.4	5712.7	5101.1	4508.1	4137.1
35°	5770.3	5790.6	5826.2	5878.7	5909.2	6076.9	6046.4	5482.3	4760.6	4220.1	3808.5
37.5°	6098.9	6119.3	6161.6	6202.3	6232.8	6300.5	6021.0	5189.2	4475.9	3922.0	3513.7
40°	6627.5	6656.3	6686.8	6680.0	6659.7	6593.6	5970.2	4916.4	4213.4	3661.1	3224.0
42.5°	7371.3	7344.1	7340.8	7274.7	7206.9	6924.0	5932.9	4738.5	3988.0	3386.6	2936.0
45°	8230.2	8120.1	8006.6	7918.5	7815.1	7286.5	5922.8	4594.5	3739.0	3081.7	2622.5
47.5°	9094.2	8918.0	8697.8	8560.5	8392.8	7672.8	5953.2	4401.4	3418.8	2749.6	2329.5
50°	9941.3	9653.3	9380.5	9216.2	9026.4	8116.7	6002.4	4076.1	3035.9	2448.0	2061.8
52.5°	10725.7	10354.7	10075.1	9882.0	9649.9	8633.4	5958.3	3649.2	2703.9	2158.3	1807.7
55°	11471.1	11061.1	10771.4	10568.1	10295.4	9151.8	5639.8	3261.2	2387.1	1875.4	1521.3
57.5°	12123.3	11730.3	11428.7	11152.6	10922.2	9602.4	5011.3	2941.0	2082.1	1551.8	1211.3
60°	12885.7	12443.5	12086.1	11791.3	11520.2	9834.5	4306.5	2656.4	1756.8	1201.2	875.9
62.5°	13914.1	13405.8	12992.4	12655.3	12301.2	9885.4	3825.4	2371.8	1394.3	869.1	637.0
65°	15438.8	14812.0	14295.2	13831.1	13351.6	9675.3	3588.2	2061.8	1036.8	645.5	533.7
67.5°	16650.1	15999.6	15401.5	14805.2	14191.9	9285.6	3535.7	1775.5	796.3	548.9	479.4
69°	16502.7	15882.7	15333.8	14688.3	14008.9	8796.0	3483.2	1665.4	726.8	509.9	454.0
70°	15935.2	15347.3	14789.9	14264.8	13432.9	8250.5	3344.3	1604.4	699.7	491.3	435.4
72.5°	13465.1	12784.1	12243.6	11589.7	10713.8	6131.1	2536.1	1297.7	642.1	449.0	393.0
75°	9821.0	9256.8	8718.1	7994.7	7142.5	3547.6	1578.9	742.0	471.0	406.6	355.8
77.5°	5734.7	5607.6	5087.5	4611.5	3767.8	1806.0	906.4	443.9	365.9	369.3	313.4
80°	2158.3	2299.0	2351.5	2187.1	2021.1	1246.9	659.0	360.9	318.5	364.2	266.0
82.5°	1573.9	1826.3	1856.8	1778.9	1655.2	1162.2	526.9	289.7	259.2	391.3	228.7
85°	1313.0	1453.6	1475.6	1394.3	1353.6	984.3	367.6	203.3	189.7	281.2	171.1
87.5°	664.1	699.7	718.3	650.6	653.9	459.1	147.4	86.4	103.3	120.3	94.9
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: P158066

CATALOG NUMBER: VST-F10-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	5013.0	5013.0
2.5°	4943.5	4953.7
5°	4950.3	4950.3
7.5°	4989.3	4989.3
10°	5031.6	5033.3
12.5°	5070.6	5068.9
15°	5101.1	5096.0
17.5°	5119.7	5114.6
20°	5101.1	5092.6
22.5°	5006.2	4982.5
25°	4833.4	4802.9
27.5°	4604.7	4584.4
30°	4306.5	4276.0
32.5°	3957.5	3942.3
35°	3623.8	3605.2
37.5°	3318.8	3313.8
40°	3061.3	3034.2
42.5°	2759.8	2747.9
45°	2453.1	2446.4
47.5°	2165.1	2158.3
50°	1899.1	1885.6
52.5°	1638.2	1616.2
55°	1348.5	1333.3
57.5°	1035.1	1021.6
60°	728.5	713.2
62.5°	518.4	501.5
65°	432.0	418.5
67.5°	391.3	376.1
69°	372.7	359.2
70°	360.9	350.7
72.5°	335.4	328.7
75°	306.6	301.6
77.5°	269.4	260.9
80°	225.3	216.9
82.5°	189.7	181.3
85°	127.1	115.2
87.5°	57.6	50.8
90°	0.0	0.0

(END OF REPORT)