

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: P158065

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158065
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (70) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25718.5 lumens
Efficiency: N/A
Efficacy: 99.4 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

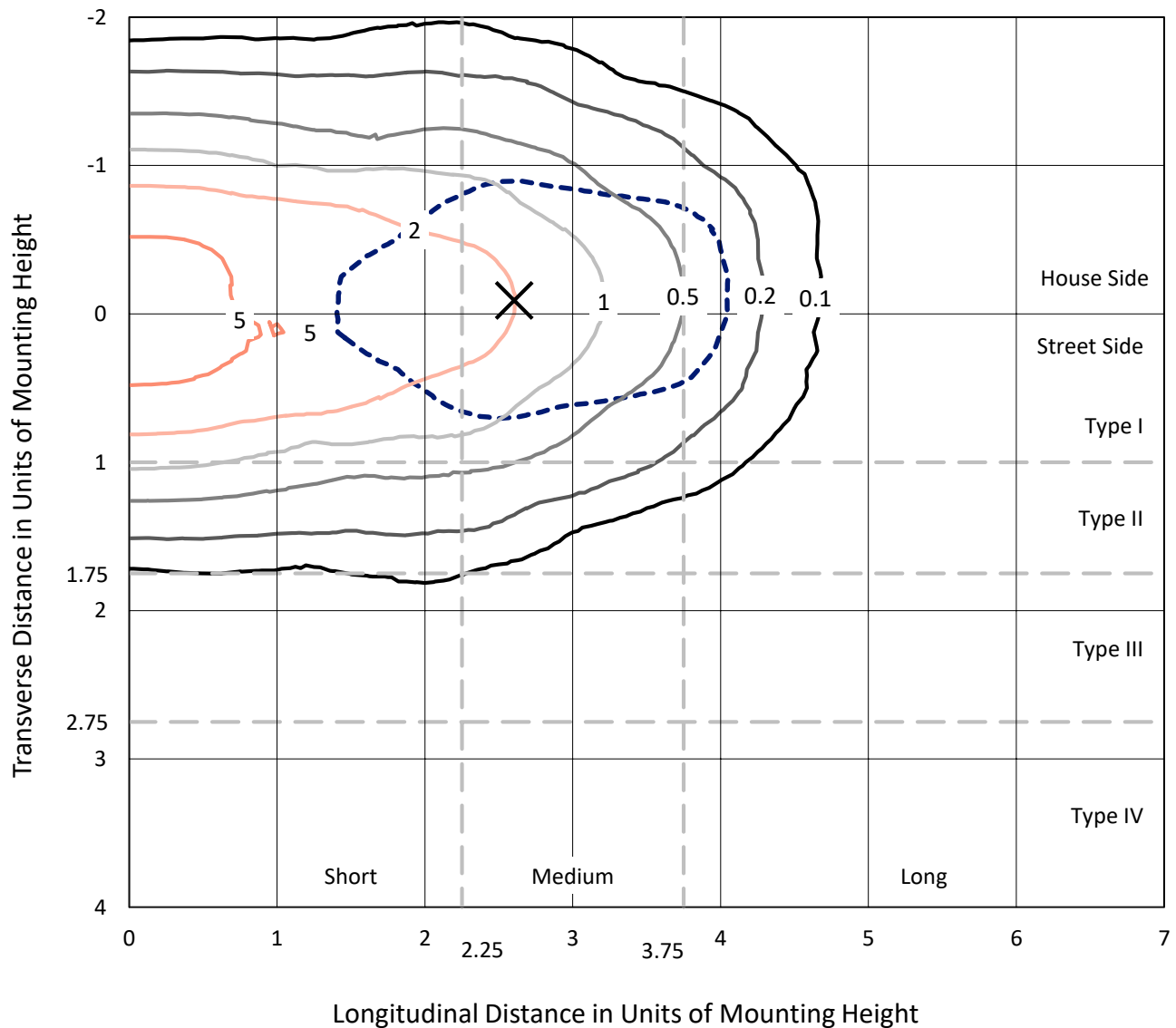


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

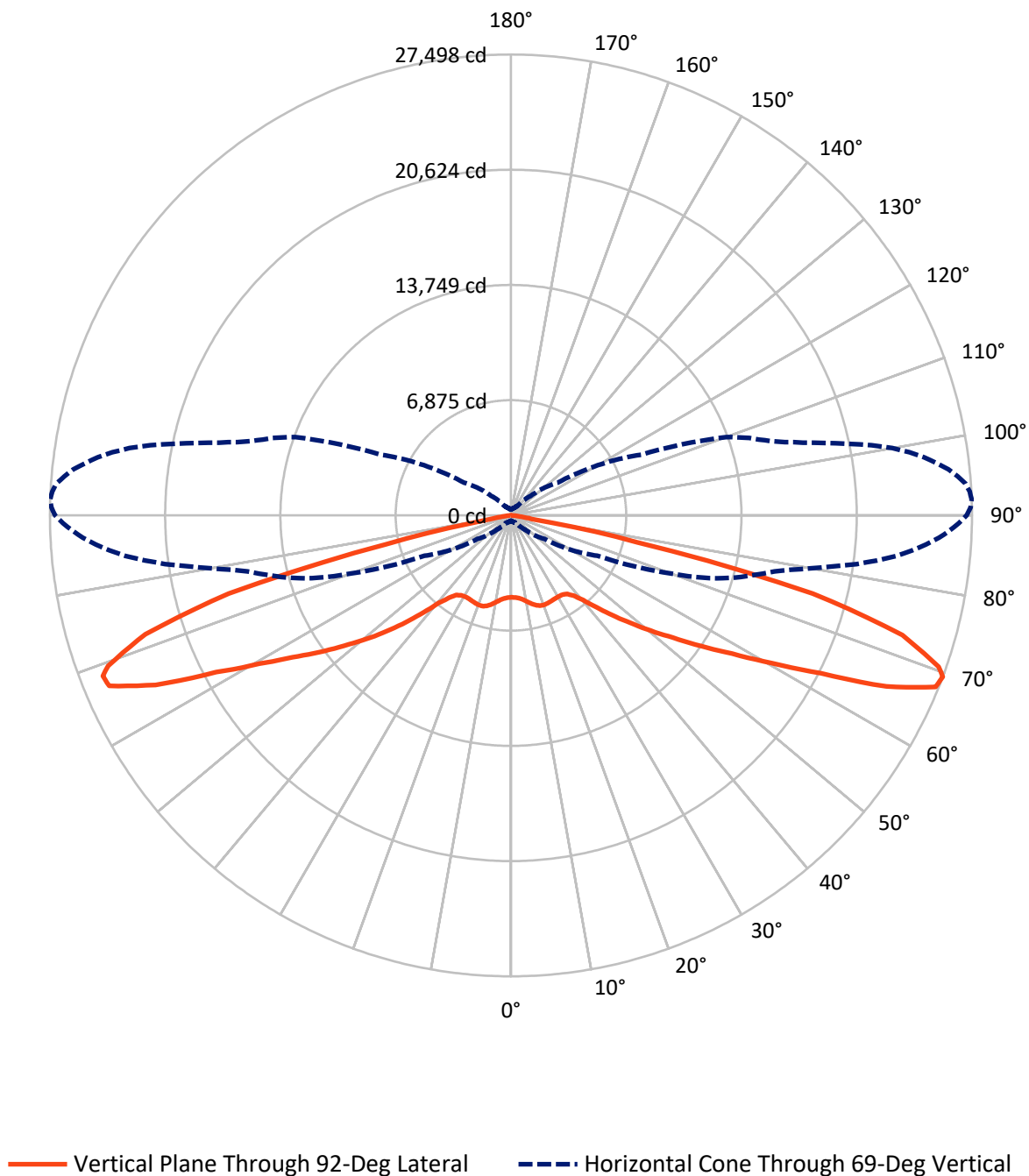


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13639.9	0.0	13639.9
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	12078.7	0.0	12078.7
	% Fixture	47.0	0.0	47.0
Total	Lumens	25718.5	0.0	25718.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.0	1.9
10°-20°	1510.1	5.9
20°-30°	2450.1	9.5
30°-40°	3053.5	11.9
40°-50°	3801.9	14.8
50°-60°	4688.7	18.2
60°-70°	5823.0	22.6
70°-80°	3577.9	13.9
80°-90°	335.3	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°	25718.5	100.0
0°-180°	25718.5	100.0

Coefficient of Utilization



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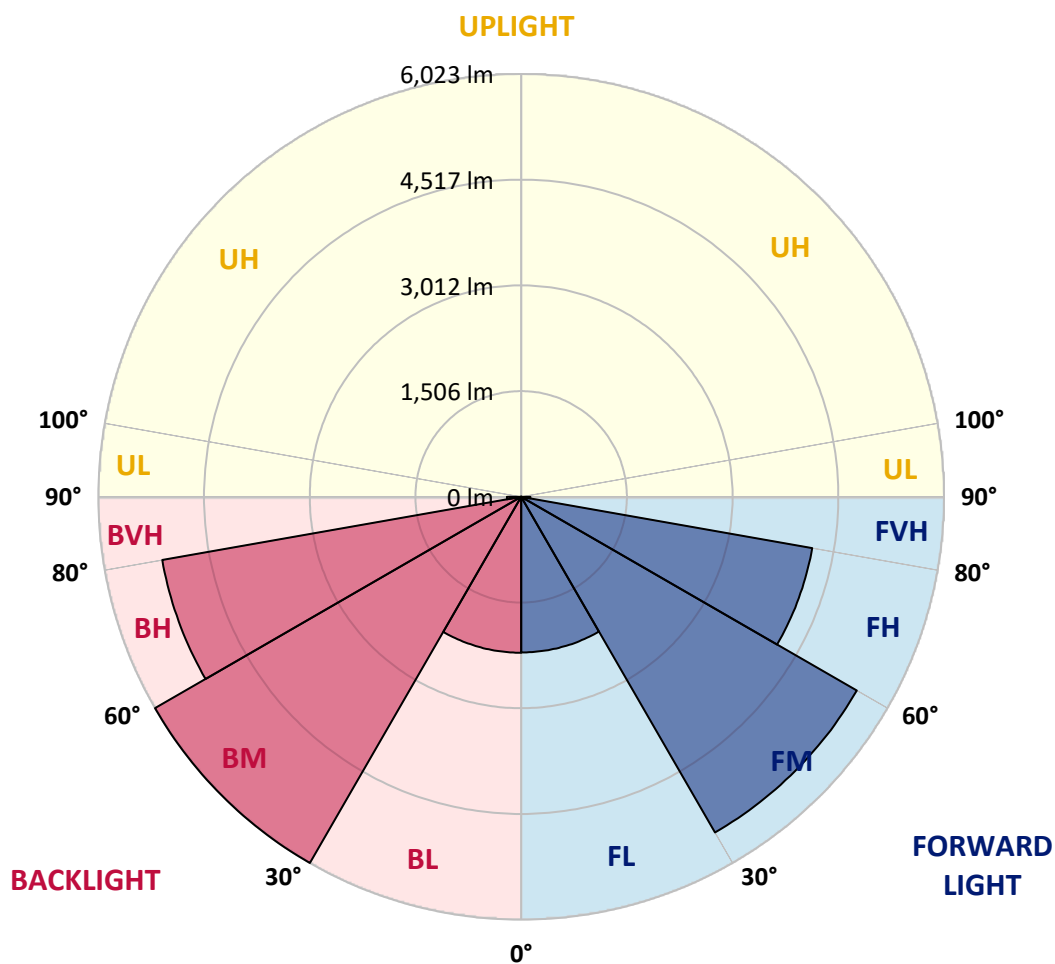
CATALOG NUMBER: VST-F10-LED-E-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2216.8	8.6			
FM	(30°-60°)	5520.8	21.5			
FH	(60°-80°)	4209.8	16.4			G2/5000
FVH	(80°-90°)	131.3	0.5			G2/225
BL	(0°-30°)	2221.5	8.6	B3/2500		
BM	(30°-60°)	6023.2	23.4	B4/8500		
BH	(60°-80°)	5191.1	20.2	B5		G5
BVH	(80°-90°)	204.0	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°	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5
2.5°	4963.1	4949.8	4961.4	4963.1	4961.4	4961.4	4946.5	4943.2	4923.4	4928.4	4926.7
5°	5030.7	5025.8	5034.1	5037.4	5040.7	5034.1	5022.5	5017.5	5004.3	4999.4	4997.7
7.5°	5093.5	5085.2	5098.4	5110.0	5118.3	5119.9	5121.6	5113.3	5113.3	5106.7	5106.7
10°	5146.3	5139.7	5161.2	5176.0	5202.5	5217.3	5233.8	5245.4	5252.0	5253.6	5252.0
12.5°	5169.4	5164.5	5199.2	5243.7	5293.3	5327.9	5369.2	5398.9	5407.2	5405.5	5413.8
15°	5129.8	5133.1	5185.9	5273.5	5379.1	5466.6	5524.4	5549.2	5555.8	5559.1	5560.7
17.5°	5022.5	5029.1	5105.0	5247.0	5432.0	5590.5	5676.3	5676.3	5663.1	5663.1	5661.4
20°	4850.8	4857.4	4956.5	5161.2	5433.6	5676.3	5798.5	5773.7	5724.2	5714.3	5704.4
22.5°	4613.0	4639.5	4748.4	4986.2	5362.6	5701.1	5874.4	5838.1	5760.5	5739.0	5724.2
25°	4343.9	4340.6	4471.0	4738.5	5190.9	5641.6	5895.9	5889.3	5806.7	5783.6	5757.2
27.5°	4036.8	4046.7	4167.2	4438.0	4928.4	5469.9	5859.6	5947.1	5879.4	5856.3	5831.5
30°	3721.5	3731.4	3845.3	4160.6	4629.5	5223.9	5785.3	6003.2	5976.8	5958.6	5942.1
32.5°	3404.5	3407.8	3543.2	3881.6	4376.9	4930.0	5673.0	6054.4	6090.7	6082.5	6075.9
35°	3107.3	3110.6	3257.5	3600.9	4127.6	4679.1	5537.6	6128.7	6245.9	6255.8	6262.4
37.5°	2818.3	2823.3	2973.5	3333.5	3881.6	4489.2	5387.4	6242.6	6463.9	6500.2	6506.8
40°	2531.1	2536.0	2679.7	3061.0	3632.3	4322.4	5271.8	6402.8	6757.7	6807.3	6858.5
42.5°	2257.0	2275.1	2397.3	2762.2	3354.9	4116.1	5222.3	6597.6	7106.1	7183.7	7241.5
45°	2001.1	2002.7	2141.4	2483.2	3026.4	3837.0	5189.2	6818.8	7495.8	7613.0	7692.2
47.5°	1727.0	1746.8	1892.1	2224.0	2719.3	3492.0	5083.6	7078.1	7920.1	8057.1	8217.3
50°	1461.2	1489.2	1629.6	1958.1	2438.6	3135.3	4799.6	7381.8	8397.2	8575.6	8760.5
52.5°	1205.3	1203.6	1352.2	1694.0	2156.3	2833.2	4339.0	7700.5	8948.7	9140.2	9340.0
55°	911.4	911.4	1058.3	1370.4	1850.8	2564.1	3845.3	7898.6	9460.5	9691.7	9909.6
57.5°	625.7	642.3	780.9	1050.1	1532.2	2318.1	3467.2	7784.7	9851.8	10139.1	10398.3
60°	463.9	480.5	582.8	754.5	1198.7	2027.5	3183.2	7248.1	10087.9	10469.3	10806.1
62.5°	401.2	412.8	510.2	604.3	863.5	1718.7	2932.3	6566.2	10428.0	10949.8	11418.7
65°	358.3	369.8	467.2	521.7	675.3	1381.9	2791.9	6176.6	10834.2	11631.6	12311.9
67.5°	331.9	345.1	427.6	467.2	589.4	1249.8	2683.0	6085.8	10830.9	11798.4	12666.9
69°	318.7	328.6	396.3	439.2	569.6	1210.2	2446.9	5691.2	10116.0	11154.5	12026.2
70°	310.4	320.3	378.1	421.0	563.0	1139.2	2228.9	5169.4	9302.0	10347.1	11232.1
72.5°	284.0	293.9	336.8	376.4	468.9	761.1	1553.6	3308.7	6647.1	7393.4	8405.5
75°	251.0	262.5	295.5	328.6	355.0	440.8	896.5	1717.1	3800.7	4367.0	5268.5
77.5°	204.7	216.3	251.0	303.8	300.5	335.2	582.8	1055.0	1779.8	2207.5	2541.0
80°	168.4	176.7	206.4	307.1	246.0	280.7	472.2	865.2	1253.1	1385.2	1464.5
82.5°	112.3	123.8	160.2	241.1	188.2	199.8	353.3	809.0	1060.0	1162.3	1258.1
85°	52.8	57.8	97.4	128.8	113.9	107.3	201.4	571.3	789.2	837.1	873.4
87.5°	0.0	0.0	5.0	9.9	14.9	14.9	36.3	120.5	221.2	267.5	264.2
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

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5
2.5°	4920.1	4921.8	4920.1	4920.1	4918.5	4915.2	4915.2	4911.9	4913.5	4911.9	4915.2
5°	4996.1	4996.1	4991.1	4987.8	4992.8	4987.8	4989.5	4981.2	4981.2	4976.3	4969.7
7.5°	5105.0	5105.0	5106.7	5096.8	5103.4	5105.0	5100.1	5096.8	5093.5	5085.2	5086.9
10°	5250.3	5250.3	5255.3	5242.1	5248.7	5252.0	5253.6	5253.6	5250.3	5235.5	5237.1
12.5°	5412.1	5408.8	5410.5	5403.9	5410.5	5413.8	5417.1	5413.8	5413.8	5410.5	5408.8
15°	5559.1	5557.4	5560.7	5555.8	5557.4	5560.7	5570.6	5569.0	5567.3	5557.4	5557.4
17.5°	5659.8	5654.8	5651.5	5649.9	5649.9	5648.2	5649.9	5649.9	5644.9	5643.3	5643.3
20°	5697.8	5684.6	5676.3	5671.4	5664.8	5661.4	5658.1	5659.8	5656.5	5651.5	5653.2
22.5°	5704.4	5686.2	5669.7	5654.8	5641.6	5633.4	5625.1	5621.8	5613.6	5608.6	5608.6
25°	5735.7	5707.7	5681.3	5656.5	5636.7	5618.5	5600.4	5587.2	5577.2	5565.7	5562.4
27.5°	5805.1	5775.4	5744.0	5712.6	5686.2	5649.9	5625.1	5598.7	5575.6	5557.4	5544.2
30°	5912.4	5882.7	5851.3	5815.0	5780.3	5742.4	5701.1	5669.7	5636.7	5600.4	5580.5
32.5°	6054.4	6034.6	6003.2	5968.5	5937.2	5897.6	5848.0	5800.1	5768.8	5725.8	5694.5
35°	6257.5	6234.4	6224.5	6209.6	6178.2	6153.5	6099.0	6054.4	6024.7	5965.2	5942.1
37.5°	6534.9	6533.2	6541.5	6536.5	6541.5	6510.1	6485.3	6483.7	6440.7	6383.0	6326.8
40°	6912.9	6932.8	6977.3	7008.7	7038.4	7041.7	7076.4	7040.1	7045.0	7036.8	6979.0
42.5°	7343.9	7411.6	7464.4	7556.9	7627.9	7693.9	7738.5	7799.6	7845.8	7887.1	7897.0
45°	7824.3	7925.0	8047.2	8129.8	8268.5	8379.1	8531.0	8648.2	8770.4	8890.9	8933.8
47.5°	8346.1	8471.5	8606.9	8760.5	8935.5	9108.8	9343.3	9523.3	9719.7	9883.2	10028.5
50°	8922.3	9052.7	9234.3	9411.0	9652.0	9851.8	10158.9	10395.0	10712.0	10930.0	11118.2
52.5°	9523.3	9686.7	9889.8	10084.6	10330.6	10586.5	10928.3	11276.7	11658.1	11988.3	12262.3
55°	10111.0	10312.5	10507.3	10735.1	11007.5	11304.7	11691.1	12150.1	12625.6	13003.7	13366.9
57.5°	10634.4	10867.2	11096.7	11327.9	11606.9	11951.9	12386.2	12881.5	13426.3	13929.9	14428.5
60°	11119.8	11398.8	11679.5	11968.5	12288.8	12714.7	13236.5	13845.7	14550.7	15239.2	15891.4
62.5°	11887.6	12254.1	12602.5	12975.6	13361.9	13862.2	14478.1	15277.2	16086.2	16946.4	17615.1
65°	12927.7	13442.8	13898.5	14382.3	14882.6	15551.2	16287.6	17243.6	18402.6	19284.3	20357.4
67.5°	13444.5	14123.1	14709.2	15247.4	15866.6	16541.9	17416.9	18547.9	19784.5	21062.4	22259.5
69°	12836.9	13537.0	14185.8	14788.5	15414.2	16069.7	16984.3	18145.0	19452.7	20834.6	22003.5
70°	12049.4	12749.4	13441.2	14128.0	14699.3	15338.3	16256.2	17453.2	18759.2	20195.6	21354.7
72.5°	9231.0	10073.1	10698.8	11342.7	12004.8	12546.3	13606.3	14615.1	15975.6	17433.4	18709.7
75°	5905.8	6680.1	7363.7	7911.8	8559.0	9207.9	9990.5	11111.6	11963.5	13160.5	14195.7
77.5°	3034.6	3264.1	3922.9	4119.4	4568.5	4921.8	5352.7	5633.4	6326.8	6473.8	7084.7
80°	1438.1	1296.1	1220.1	1150.8	1170.6	1162.3	1127.7	1081.4	1139.2	1114.5	1104.6
82.5°	1253.1	1117.8	891.6	757.8	655.5	556.4	478.8	439.2	444.1	457.3	462.3
85°	878.4	825.5	643.9	488.7	381.4	295.5	237.8	227.8	234.4	252.6	246.0
87.5°	254.3	265.8	234.4	163.5	113.9	82.6	64.4	72.6	69.3	67.7	71.0
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5
2.5°	4915.2	4913.5	4908.6	4903.6	4903.6	4900.3	4903.6	4905.3	4903.6	4903.6	4900.3
5°	4971.3	4973.0	4977.9	4968.0	4966.4	4968.0	4961.4	4959.8	4954.8	4959.8	4953.1
7.5°	5078.6	5083.6	5083.6	5077.0	5075.3	5080.3	5070.4	5067.1	5062.1	5060.5	5058.8
10°	5238.8	5243.7	5235.5	5230.5	5225.6	5232.2	5223.9	5223.9	5219.0	5214.0	5212.4
12.5°	5417.1	5413.8	5410.5	5413.8	5408.8	5408.8	5403.9	5400.6	5398.9	5397.3	5394.0
15°	5555.8	5567.3	5567.3	5570.6	5567.3	5567.3	5560.7	5562.4	5559.1	5557.4	5559.1
17.5°	5644.9	5648.2	5656.5	5661.4	5661.4	5663.1	5659.8	5663.1	5659.8	5659.8	5666.4
20°	5656.5	5659.8	5668.1	5676.3	5681.3	5684.6	5684.6	5689.5	5692.8	5696.1	5704.4
22.5°	5610.3	5615.2	5625.1	5640.0	5648.2	5651.5	5658.1	5666.4	5674.7	5681.3	5692.8
25°	5562.4	5564.0	5573.9	5588.8	5598.7	5607.0	5618.5	5628.4	5640.0	5653.2	5666.4
27.5°	5536.0	5534.3	5542.6	5557.4	5565.7	5577.2	5587.2	5602.0	5615.2	5631.7	5643.3
30°	5559.1	5545.9	5547.5	5554.1	5560.7	5569.0	5580.5	5593.8	5608.6	5623.5	5636.7
32.5°	5661.4	5631.7	5611.9	5607.0	5608.6	5610.3	5616.9	5625.1	5636.7	5648.2	5653.2
35°	5882.7	5831.5	5805.1	5783.6	5765.5	5750.6	5753.9	5752.3	5752.3	5762.2	5750.6
37.5°	6303.7	6239.3	6211.2	6173.3	6151.8	6097.3	6082.5	6079.2	6057.7	6057.7	6032.9
40°	6964.1	6926.2	6904.7	6870.0	6766.0	6779.2	6704.9	6706.6	6645.5	6652.1	6609.2
42.5°	7903.6	7908.5	7882.1	7859.0	7778.1	7741.8	7672.4	7573.4	7495.8	7494.1	7408.3
45°	8990.0	9049.4	8965.2	8994.9	8923.9	8826.5	8745.6	8618.5	8498.0	8460.0	8372.5
47.5°	10125.9	10223.3	10158.9	10170.5	10135.8	9997.1	9888.1	9731.3	9574.4	9468.8	9415.9
50°	11339.4	11403.8	11402.2	11370.8	11354.3	11218.9	11043.9	10925.0	10809.4	10667.4	10621.2
52.5°	12439.0	12589.3	12690.0	12666.9	12619.0	12538.1	12382.9	12280.5	12110.5	12090.6	12110.5
55°	13616.2	13811.0	13913.4	14037.2	14038.9	14024.0	13959.6	13921.7	13763.2	13781.3	13758.2
57.5°	14730.7	15016.3	15173.1	15437.3	15528.1	15648.7	15604.1	15653.6	15557.8	15620.6	15602.4
60°	16241.4	16637.6	16898.5	17260.1	17428.5	17730.6	17790.1	17826.4	17879.2	18008.0	17935.4
62.5°	18141.7	18722.9	19264.4	19756.5	19918.3	20372.3	20446.6	20730.6	20745.4	20832.9	20672.8
65°	21252.3	21960.6	22556.6	23146.1	23486.2	24017.8	24232.5	24783.9	24615.5	24686.5	24344.7
67.5°	23289.7	24113.6	24912.7	25470.7	26035.4	26578.6	26969.9	27326.5	27323.2	27253.9	26950.1
69°	23109.7	24027.7	24815.3	25563.2	26157.6	26715.6	27186.2	27417.3	27498.2	27397.5	27181.2
70°	22487.3	23430.0	24394.3	25010.1	25657.3	26269.9	26755.3	27007.9	27064.0	26993.0	26806.4
72.5°	19611.2	20515.9	21579.2	22138.9	22921.5	23364.0	24032.7	24359.6	24417.4	24326.6	24204.4
75°	15305.2	15468.7	16551.8	16908.4	17476.4	17986.5	18402.6	18296.9	18592.5	18534.7	18488.5
77.5°	7210.1	6774.3	7476.0	7802.9	7631.2	7173.8	7839.2	7358.7	7677.4	8091.8	7986.1
80°	1188.8	1185.5	1216.8	1286.2	1203.6	1277.9	1276.3	1239.9	1243.2	1332.4	1286.2
82.5°	457.3	467.2	472.2	485.4	485.4	487.1	495.3	505.2	497.0	513.5	510.2
85°	247.7	264.2	249.3	237.8	246.0	251.0	257.6	265.8	257.6	282.3	269.1
87.5°	64.4	67.7	59.4	59.4	57.8	52.8	52.8	56.1	61.1	72.6	79.3
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: P158065

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

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5
2.5°	4893.7	4895.4	4897.0	4892.1	4888.8	4888.8	4887.1	4883.8	4882.2	4882.2	4882.2
5°	4949.8	4953.1	4944.9	4943.2	4939.9	4936.6	4936.6	4933.3	4935.0	4935.0	4926.7
7.5°	5062.1	5057.2	5047.3	5040.7	5047.3	5035.7	5030.7	5034.1	5030.7	5032.4	5029.1
10°	5212.4	5212.4	5200.8	5207.4	5199.2	5185.9	5190.9	5185.9	5182.6	5171.1	5177.7
12.5°	5398.9	5394.0	5387.4	5372.5	5367.6	5365.9	5351.1	5352.7	5347.8	5344.4	5339.5
15°	5562.4	5560.7	5545.9	5537.6	5536.0	5529.4	5522.8	5519.5	5511.2	5509.6	5506.3
17.5°	5671.4	5666.4	5659.8	5651.5	5651.5	5641.6	5638.3	5630.1	5628.4	5623.5	5618.5
20°	5707.7	5709.3	5702.7	5696.1	5692.8	5686.2	5681.3	5674.7	5671.4	5664.8	5659.8
22.5°	5699.4	5699.4	5692.8	5691.2	5684.6	5674.7	5668.1	5659.8	5651.5	5643.3	5633.4
25°	5673.0	5671.4	5666.4	5658.1	5649.9	5635.0	5621.8	5608.6	5597.1	5587.2	5572.3
27.5°	5649.9	5646.6	5636.7	5625.1	5608.6	5592.1	5567.3	5549.2	5534.3	5521.1	5504.6
30°	5641.6	5630.1	5615.2	5597.1	5577.2	5552.5	5526.1	5502.9	5486.4	5473.2	5466.6
32.5°	5651.5	5636.7	5613.6	5590.5	5565.7	5536.0	5509.6	5489.7	5474.9	5471.6	5471.6
35°	5742.4	5717.6	5686.2	5653.2	5621.8	5597.1	5578.9	5577.2	5567.3	5578.9	5597.1
37.5°	6008.2	5986.7	5938.8	5895.9	5874.4	5862.9	5846.4	5849.7	5826.6	5862.9	5892.6
40°	6572.8	6546.4	6490.3	6455.6	6412.7	6371.4	6404.4	6394.5	6411.0	6404.4	6435.8
42.5°	7396.7	7370.3	7281.1	7267.9	7249.8	7233.2	7233.2	7220.0	7213.4	7236.6	7210.1
45°	8398.9	8346.1	8313.0	8352.7	8298.2	8314.7	8372.5	8294.9	8313.0	8205.7	8106.7
47.5°	9439.1	9434.1	9425.8	9473.7	9482.0	9506.7	9538.1	9458.9	9315.2	9234.3	9032.9
50°	10636.1	10687.2	10707.1	10753.3	10773.1	10791.3	10741.7	10624.5	10381.8	10167.2	9929.4
52.5°	12090.6	12001.5	12123.7	12168.2	12148.4	12075.8	11897.5	11753.8	11418.7	11109.9	10741.7
55°	13784.6	13806.1	13720.2	13685.6	13617.9	13416.4	13170.4	12846.8	12422.5	12019.6	11554.0
57.5°	15510.0	15501.7	15368.0	15179.8	14950.3	14707.6	14341.0	13877.1	13381.8	12840.2	12277.2
60°	17608.4	17600.2	17329.4	17007.5	16680.6	16289.3	15714.7	15156.6	14492.9	13781.3	13111.0
62.5°	20365.7	20010.7	19744.9	19264.4	18759.2	18247.4	17469.8	16728.4	15841.8	14943.7	14161.1
65°	23898.9	23314.5	23012.3	22315.6	21533.0	20733.9	19943.0	18968.9	17775.2	16688.8	15732.9
67.5°	26512.6	25977.6	25424.5	24729.4	23870.9	22979.3	21896.2	20669.5	19314.0	18095.5	17053.7
69°	26742.1	26241.8	25578.1	24881.3	24069.0	23099.8	21917.7	20544.0	19170.3	17937.0	16911.7
70°	26393.7	25862.0	25163.7	24438.8	23530.8	22616.1	21377.8	19946.3	18571.0	17334.4	16333.8
72.5°	23794.9	23276.5	22533.5	21666.7	20735.5	19952.9	18777.4	17284.8	15789.0	14646.5	13867.2
75°	18093.9	17979.9	17453.2	16948.0	16215.0	15341.6	14266.7	13262.9	12036.2	10827.6	10101.1
77.5°	7720.3	7982.8	8256.9	8296.5	8322.9	8053.8	7887.1	7634.5	6813.9	6440.7	6056.1
80°	1426.5	1274.6	1360.5	1370.4	1426.5	1456.2	1565.2	1855.8	1888.8	1959.8	2047.3
82.5°	506.9	515.1	528.3	533.3	538.2	558.1	632.4	757.8	871.8	1020.3	1218.5
85°	287.3	292.2	303.8	313.7	320.3	340.1	381.4	455.7	568.0	738.0	1000.5
87.5°	87.5	99.1	105.7	118.9	123.8	127.1	145.3	194.8	251.0	371.5	541.5
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: P158065

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

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5	4885.5
2.5°	4882.2	4880.5	4877.2	4873.9	4875.6	4872.2	4862.3	4859.0	4847.5	4839.2	4832.6
5°	4926.7	4925.1	4918.5	4920.1	4918.5	4902.0	4890.4	4870.6	4859.0	4840.9	4834.3
7.5°	5019.2	5017.5	5006.0	5010.9	5007.6	4982.9	4963.1	4931.7	4915.2	4892.1	4873.9
10°	5157.9	5157.9	5144.7	5146.3	5146.3	5113.3	5078.6	5025.8	4987.8	4951.5	4920.1
12.5°	5326.3	5319.7	5318.0	5309.8	5303.2	5266.8	5214.0	5143.0	5072.0	5012.6	4969.7
15°	5496.3	5486.4	5481.5	5471.6	5463.3	5430.3	5359.3	5271.8	5176.0	5080.3	5009.3
17.5°	5607.0	5600.4	5590.5	5587.2	5575.6	5542.6	5493.0	5405.5	5286.7	5152.9	5045.6
20°	5648.2	5636.7	5630.1	5623.5	5616.9	5593.8	5593.8	5537.6	5405.5	5217.3	5053.9
22.5°	5621.8	5615.2	5605.3	5600.4	5593.8	5597.1	5661.4	5653.2	5501.3	5232.2	4994.4
25°	5560.7	5552.5	5544.2	5544.2	5542.6	5577.2	5732.4	5753.9	5529.4	5159.5	4864.0
27.5°	5498.0	5486.4	5489.7	5491.4	5499.6	5573.9	5810.0	5780.3	5453.4	4984.5	4639.5
30°	5460.0	5460.0	5468.3	5481.5	5498.0	5628.4	5871.1	5720.9	5256.9	4720.4	4342.3
32.5°	5476.5	5493.0	5511.2	5544.2	5569.0	5749.0	5892.6	5567.3	4971.3	4393.4	4031.9
35°	5623.5	5643.3	5678.0	5729.1	5758.9	5922.3	5892.6	5342.8	4639.5	4112.8	3711.6
37.5°	5943.8	5963.6	6004.9	6044.5	6074.2	6140.3	5867.8	5057.2	4362.1	3822.2	3424.3
40°	6458.9	6487.0	6516.7	6510.1	6490.3	6425.9	5818.3	4791.3	4106.2	3567.9	3141.9
42.5°	7183.7	7157.3	7154.0	7089.6	7023.6	6747.8	5782.0	4618.0	3886.6	3300.4	2861.3
45°	8020.8	7913.5	7802.9	7717.0	7616.3	7101.2	5772.1	4477.6	3643.9	3003.3	2555.8
47.5°	8862.8	8691.1	8476.5	8342.8	8179.3	7477.6	5801.8	4289.4	3331.8	2679.7	2270.2
50°	9688.4	9407.7	9141.9	8981.7	8796.8	7910.2	5849.7	3972.4	2958.7	2385.8	2009.3
52.5°	10452.8	10091.2	9818.8	9630.6	9404.4	8413.8	5806.7	3556.4	2635.1	2103.4	1761.7
55°	11179.3	10779.7	10497.4	10299.2	10033.4	8919.0	5496.3	3178.3	2326.3	1827.7	1482.6
57.5°	11814.9	11431.9	11138.0	10868.9	10644.3	9358.2	4883.8	2866.2	2029.1	1512.4	1180.5
60°	12557.9	12127.0	11778.6	11491.3	11227.1	9584.3	4197.0	2588.8	1712.1	1170.6	853.6
62.5°	13560.1	13064.8	12661.9	12333.3	11988.3	9633.9	3728.1	2311.5	1358.8	847.0	620.8
65°	15046.0	14435.1	13931.6	13479.2	13011.9	9429.1	3496.9	2009.3	1010.4	629.0	520.1
67.5°	16226.5	15592.5	15009.7	14428.5	13830.8	9049.4	3445.7	1730.3	776.0	534.9	467.2
69°	16082.9	15478.6	14943.7	14314.6	13652.5	8572.3	3394.6	1623.0	708.3	497.0	442.5
70°	15529.8	14956.9	14413.7	13901.8	13091.2	8040.6	3259.2	1563.5	681.9	478.8	424.3
72.5°	13122.5	12458.8	11932.1	11294.8	10441.2	5975.1	2471.6	1264.7	625.7	437.5	383.0
75°	9571.1	9021.3	8496.3	7791.3	6960.8	3457.3	1538.8	723.2	459.0	396.3	346.7
77.5°	5588.8	5465.0	4958.1	4494.2	3671.9	1760.0	883.3	432.6	356.6	359.9	305.4
80°	2103.4	2240.5	2291.7	2131.5	1969.7	1215.2	642.3	351.7	310.4	355.0	259.2
82.5°	1533.8	1779.8	1809.6	1733.6	1613.1	1132.6	513.5	282.3	252.6	381.4	222.9
85°	1279.6	1416.6	1438.1	1358.8	1319.2	959.3	358.3	198.1	184.9	274.1	166.8
87.5°	647.2	681.9	700.0	634.0	637.3	447.4	143.6	84.2	100.7	117.2	92.5
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: P158065

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

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	4885.5	4885.5
2.5°	4817.8	4827.7
5°	4824.4	4824.4
7.5°	4862.3	4862.3
10°	4903.6	4905.3
12.5°	4941.6	4939.9
15°	4971.3	4966.4
17.5°	4989.5	4984.5
20°	4971.3	4963.1
22.5°	4878.9	4855.7
25°	4710.4	4680.7
27.5°	4487.6	4467.7
30°	4197.0	4167.2
32.5°	3856.9	3842.0
35°	3531.6	3513.4
37.5°	3234.4	3229.5
40°	2983.4	2957.0
42.5°	2689.6	2678.0
45°	2390.7	2384.1
47.5°	2110.0	2103.4
50°	1850.8	1837.6
52.5°	1596.6	1575.1
55°	1314.2	1299.4
57.5°	1008.8	995.6
60°	710.0	695.1
62.5°	505.2	488.7
65°	421.0	407.8
67.5°	381.4	366.5
69°	363.2	350.0
70°	351.7	341.8
72.5°	326.9	320.3
75°	298.8	293.9
77.5°	262.5	254.3
80°	219.6	211.3
82.5°	184.9	176.7
85°	123.8	112.3
87.5°	56.1	49.5
90°	0.0	0.0

(END OF REPORT)