

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: P158041

Luminaire Tested: **VST-E08-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158041
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-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (168) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25574 lumens
Efficiency: N/A
Efficacy: 131.5 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

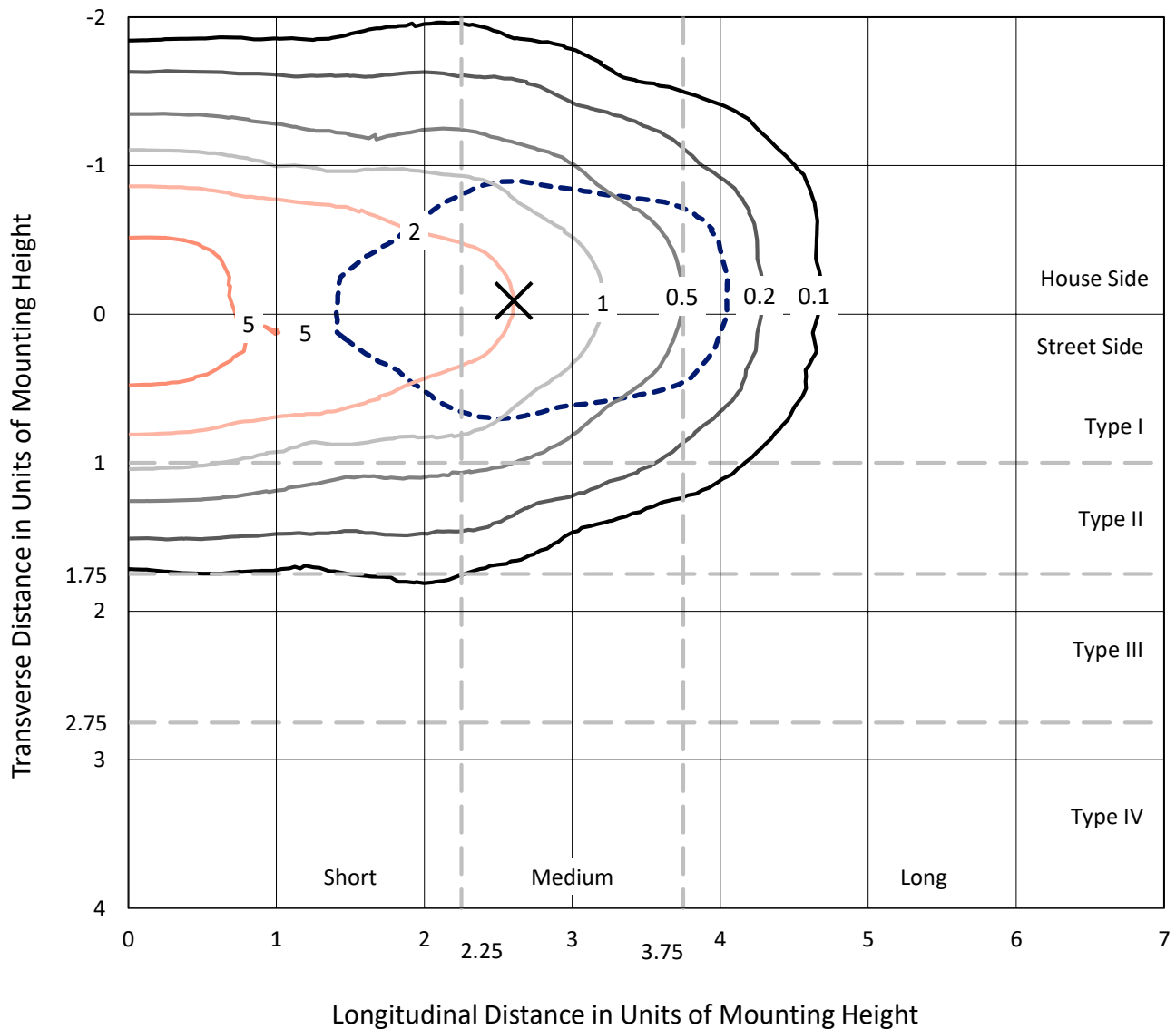


REPORT NUMBER: P158041

CATALOG NUMBER: VST-E08-LED-E-U-RW-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

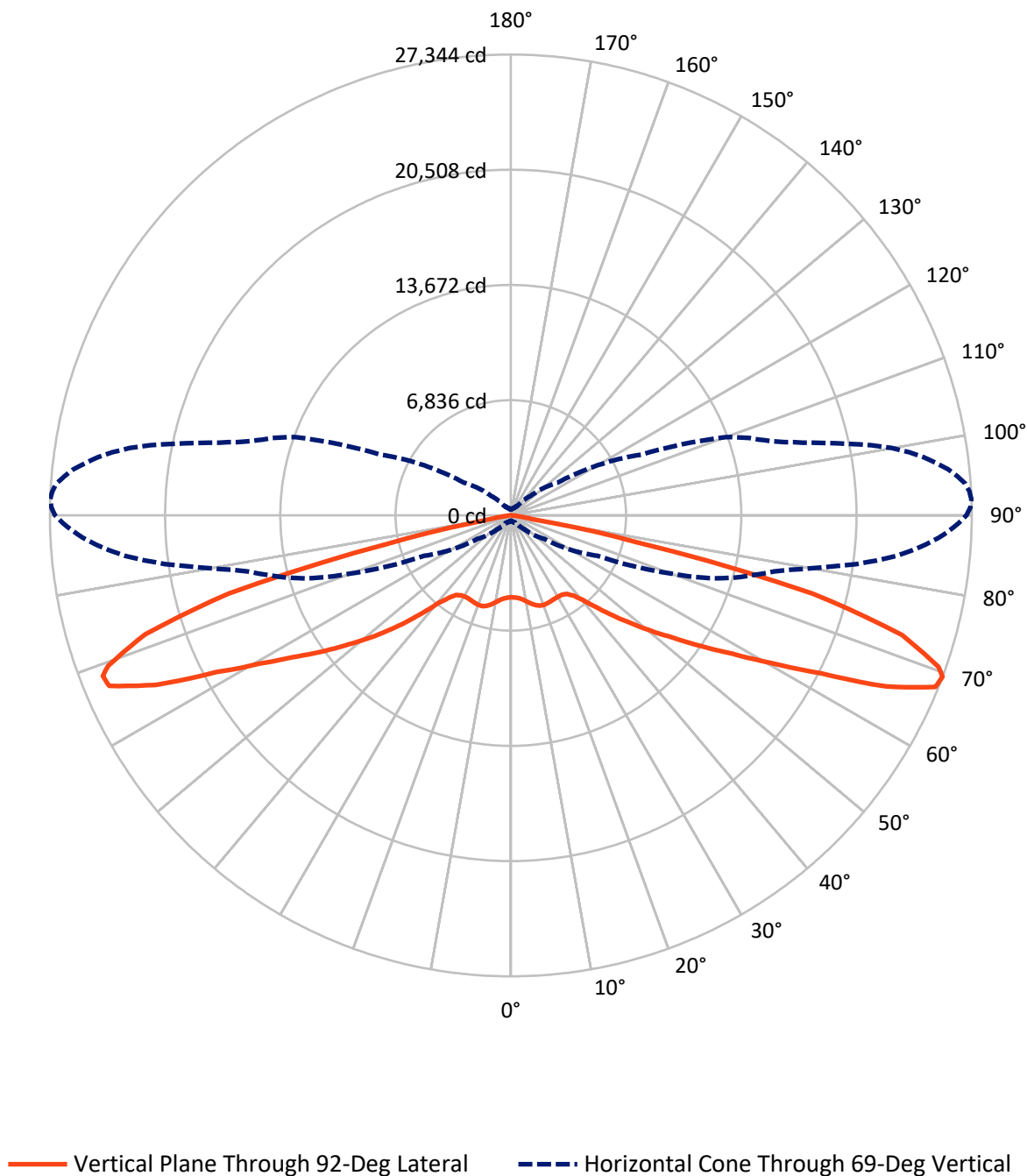


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type I - Medium - Full Cutoff

REPORT NUMBER: P158041

CATALOG NUMBER: VST-E08-LED-E-U-RW-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P158041

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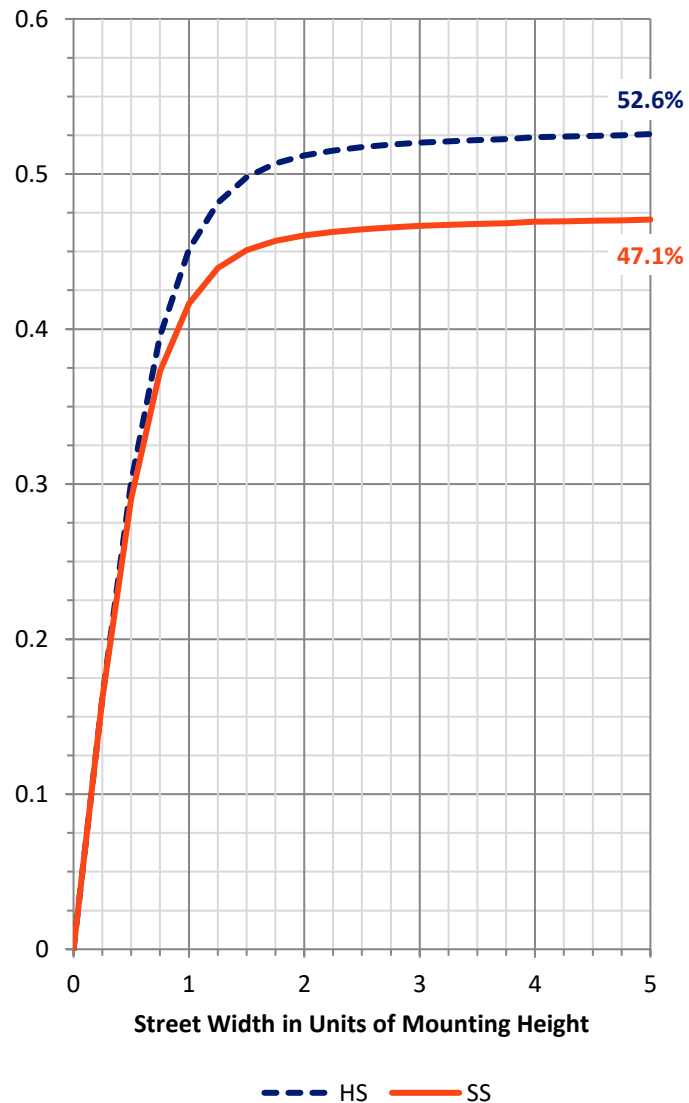
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13563.2	0.0	13563.2
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	12010.8	0.0	12010.8
	% Fixture	47.0	0.0	47.0
Total	Lumens	25574.0	0.0	25574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.4	1.9
10°-20°	1501.7	5.9
20°-30°	2436.3	9.5
30°-40°	3036.3	11.9
40°-50°	3780.5	14.8
50°-60°	4662.3	18.2
60°-70°	5790.3	22.6
70°-80°	3557.8	13.9
80°-90°	333.5	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°	25574.0	100.0
0°-180°	25574.0	100.0

Coefficient of Utilization



REPORT NUMBER: P158041

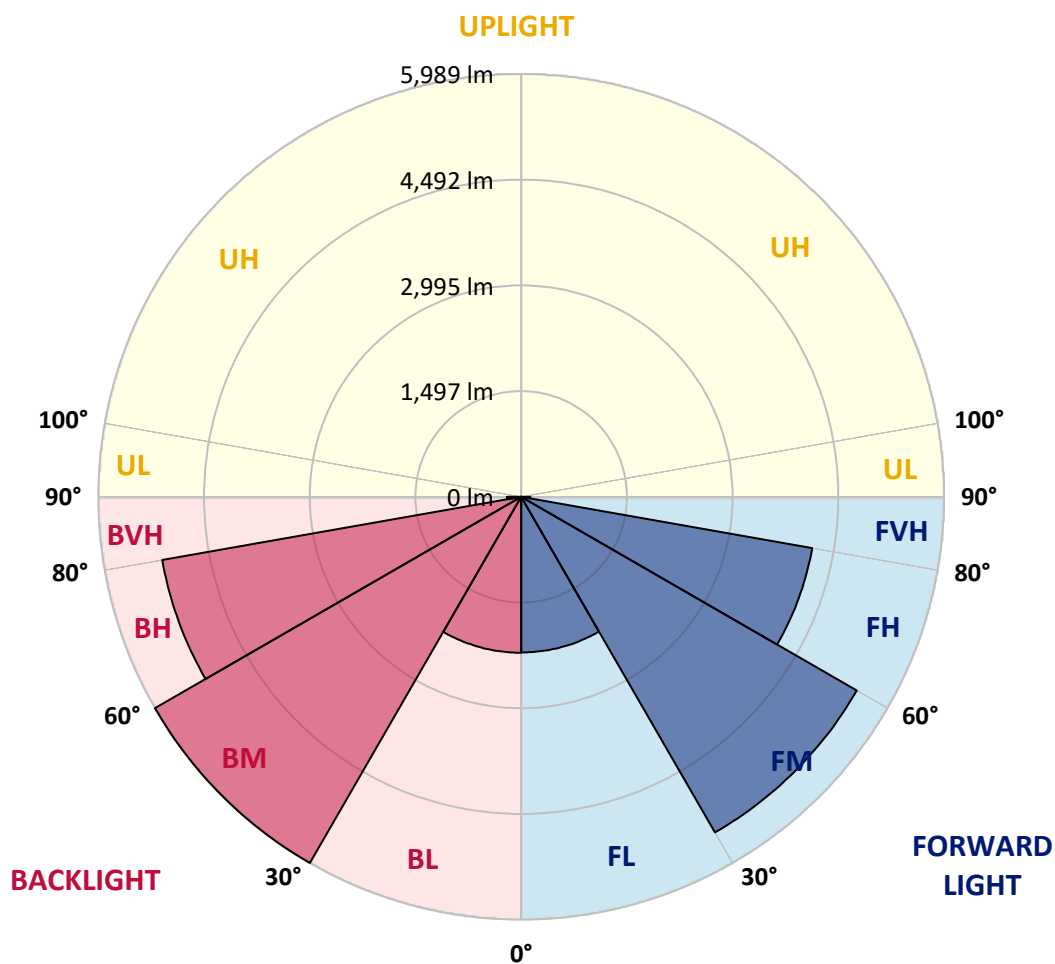
CATALOG NUMBER: VST-E08-LED-E-U-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2204.3	8.6			
FM	(30°-60°)	5489.7	21.5			
FH	(60°-80°)	4186.1	16.4			G2/5000
FVH	(80°-90°)	130.6	0.5			G2/225
BL	(0°-30°)	2209.0	8.6	B3/2500		
BM	(30°-60°)	5989.4	23.4	B4/8500		
BH	(60°-80°)	5161.9	20.2	B5		G5
BVH	(80°-90°)	202.9	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





REPORT NUMBER: P158041

CATALOG NUMBER: VST-E08-LED-E-U-RW-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0
2.5°	4935.2	4922.0	4933.5	4935.2	4933.5	4933.5	4918.7	4915.5	4895.8	4900.7	4899.0
5°	5002.5	4997.5	5005.8	5009.0	5012.3	5005.8	4994.3	4989.3	4976.2	4971.3	4969.6
7.5°	5064.9	5056.6	5069.8	5081.3	5089.5	5091.1	5092.8	5084.6	5084.6	5078.0	5078.0
10°	5117.4	5110.8	5132.2	5146.9	5173.2	5188.0	5204.4	5215.9	5222.5	5224.1	5222.5
12.5°	5140.4	5135.5	5169.9	5214.3	5263.5	5298.0	5339.0	5368.6	5376.8	5375.2	5383.4
15°	5101.0	5104.3	5156.8	5243.8	5348.9	5435.9	5493.4	5518.0	5524.6	5527.8	5529.5
17.5°	4994.3	5000.8	5076.3	5217.5	5401.4	5559.0	5644.4	5644.4	5631.3	5631.3	5629.6
20°	4823.5	4830.1	4928.6	5132.2	5403.1	5644.4	5765.9	5741.3	5692.0	5682.2	5672.3
22.5°	4587.1	4613.4	4721.7	4958.1	5332.5	5669.0	5841.4	5805.3	5728.1	5706.8	5692.0
25°	4319.5	4316.2	4445.9	4711.9	5161.7	5609.9	5862.8	5856.2	5774.1	5751.1	5724.8
27.5°	4014.1	4024.0	4143.8	4413.1	4900.7	5439.2	5826.6	5913.7	5846.3	5823.4	5798.7
30°	3700.5	3710.4	3823.7	4137.3	4603.5	5194.6	5752.8	5969.5	5943.2	5925.1	5908.7
32.5°	3385.3	3388.6	3523.2	3859.8	4352.3	4902.3	5641.1	6020.4	6056.5	6048.3	6041.7
35°	3089.8	3093.1	3239.2	3580.7	4104.4	4652.8	5506.5	6094.2	6210.8	6220.7	6227.2
37.5°	2802.5	2807.4	2956.8	3314.7	3859.8	4464.0	5357.1	6207.5	6427.5	6463.6	6470.2
40°	2516.8	2521.8	2664.6	3043.8	3611.9	4298.2	5242.2	6366.8	6719.8	6769.0	6819.9
42.5°	2244.3	2262.4	2383.8	2746.7	3336.1	4092.9	5192.9	6560.5	7066.2	7143.3	7200.8
45°	1989.8	1991.5	2129.4	2469.2	3009.4	3815.5	5160.1	6780.5	7453.6	7570.2	7649.0
47.5°	1717.3	1737.0	1881.5	2211.5	2704.0	3472.3	5055.0	7038.3	7875.6	8011.8	8171.1
50°	1453.0	1480.9	1620.4	1947.1	2424.9	3117.7	4772.6	7340.3	8350.0	8527.3	8711.2
52.5°	1198.5	1196.8	1344.6	1684.5	2144.1	2817.3	4314.6	7657.2	8898.4	9088.8	9287.5
55°	906.3	906.3	1052.4	1362.7	1840.4	2549.7	3823.7	7854.2	9407.3	9637.2	9853.9
57.5°	622.2	638.6	776.6	1044.2	1523.6	2305.0	3447.7	7740.9	9796.4	10082.1	10339.9
60°	461.3	477.8	579.5	750.3	1191.9	2016.1	3165.3	7207.4	10031.2	10410.5	10745.4
62.5°	398.9	410.4	507.3	600.9	858.6	1709.1	2915.8	6529.3	10369.4	10888.2	11354.5
65°	356.3	367.8	464.6	518.8	671.5	1374.2	2776.2	6141.9	10773.3	11566.3	12242.7
67.5°	330.0	343.1	425.2	464.6	586.1	1242.8	2667.9	6051.6	10770.0	11732.1	12595.6
69°	316.9	326.7	394.0	436.7	566.4	1203.4	2433.1	5659.2	10059.1	11091.8	11958.6
70°	308.7	318.5	376.0	418.7	559.8	1132.8	2216.4	5140.4	9249.7	10289.0	11169.0
72.5°	282.4	292.2	334.9	374.3	466.3	756.9	1544.9	3290.1	6609.8	7351.8	8358.2
75°	249.5	261.0	293.9	326.7	353.0	438.4	891.5	1707.4	3779.4	4342.5	5238.9
77.5°	203.6	215.1	249.5	302.1	298.8	333.3	579.5	1049.1	1769.8	2195.0	2526.7
80°	167.5	175.7	205.2	305.4	244.6	279.1	469.5	860.3	1246.1	1377.4	1456.2
82.5°	111.6	123.1	159.3	239.7	187.2	198.7	351.3	804.5	1054.0	1155.8	1251.0
85°	52.5	57.5	96.9	128.1	113.3	106.7	200.3	568.1	784.8	832.4	868.5
87.5°	0.0	0.0	4.9	9.9	14.8	14.8	36.1	119.8	220.0	266.0	262.7
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: P158041

CATALOG NUMBER: VST-E08-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0
2.5°	4892.5	4894.1	4892.5	4892.5	4890.8	4887.5	4887.5	4884.3	4885.9	4884.3	4887.5
5°	4968.0	4968.0	4963.1	4959.8	4964.7	4959.8	4961.4	4953.2	4953.2	4948.3	4941.7
7.5°	5076.3	5076.3	5078.0	5068.1	5074.7	5076.3	5071.4	5068.1	5064.9	5056.6	5058.3
10°	5220.8	5220.8	5225.7	5212.6	5219.2	5222.5	5224.1	5224.1	5220.8	5206.0	5207.7
12.5°	5381.7	5378.4	5380.1	5373.5	5380.1	5383.4	5386.6	5383.4	5383.4	5380.1	5378.4
15°	5527.8	5526.2	5529.5	5524.6	5526.2	5529.5	5539.3	5537.7	5536.0	5526.2	5526.2
17.5°	5628.0	5623.1	5619.8	5618.1	5618.1	5616.5	5618.1	5618.1	5613.2	5611.6	5611.6
20°	5665.7	5652.6	5644.4	5639.5	5632.9	5629.6	5626.3	5628.0	5624.7	5619.8	5621.4
22.5°	5672.3	5654.3	5637.8	5623.1	5609.9	5601.7	5593.5	5590.2	5582.0	5577.1	5577.1
25°	5703.5	5675.6	5649.3	5624.7	5605.0	5586.9	5568.9	5555.7	5545.9	5534.4	5531.1
27.5°	5772.5	5742.9	5711.7	5680.5	5654.3	5618.1	5593.5	5567.2	5544.3	5526.2	5513.1
30°	5879.2	5849.6	5818.4	5782.3	5747.8	5710.1	5669.0	5637.8	5605.0	5568.9	5549.2
32.5°	6020.4	6000.7	5969.5	5935.0	5903.8	5864.4	5815.1	5767.5	5736.3	5693.7	5662.5
35°	6222.3	6199.3	6189.5	6174.7	6143.5	6118.9	6064.7	6020.4	5990.8	5931.7	5908.7
37.5°	6498.1	6496.5	6504.7	6499.8	6504.7	6473.5	6448.9	6447.2	6404.5	6347.1	6291.3
40°	6874.1	6893.8	6938.1	6969.3	6998.9	7002.1	7036.6	7000.5	7005.4	6997.2	6939.8
42.5°	7302.6	7369.9	7422.4	7514.4	7585.0	7650.6	7695.0	7755.7	7801.7	7842.7	7852.6
45°	7780.3	7880.5	8002.0	8084.1	8222.0	8332.0	8483.0	8599.6	8721.1	8840.9	8883.6
47.5°	8299.1	8423.9	8558.5	8711.2	8885.3	9057.6	9290.8	9469.7	9665.1	9827.6	9972.1
50°	8872.1	9001.8	9182.4	9358.1	9597.8	9796.4	10101.8	10336.6	10651.8	10868.5	11055.7
52.5°	9469.7	9632.3	9834.2	10027.9	10272.5	10527.0	10866.9	11213.3	11592.5	11920.9	12193.4
55°	10054.2	10254.5	10448.2	10674.8	10945.7	11241.2	11625.4	12081.8	12554.6	12930.6	13291.8
57.5°	10574.6	10806.1	11034.3	11264.2	11541.6	11884.8	12316.5	12809.1	13350.9	13851.6	14347.4
60°	11057.3	11334.8	11613.9	11901.2	12219.7	12643.3	13162.1	13767.9	14468.9	15153.5	15802.0
62.5°	11820.7	12185.2	12531.6	12902.7	13286.8	13784.3	14396.7	15191.3	15995.8	16851.1	17516.0
65°	12855.0	13367.3	13820.4	14301.4	14798.9	15463.8	16196.0	17146.6	18299.2	19175.9	20243.0
67.5°	13368.9	14043.7	14626.5	15161.7	15777.4	16448.9	17319.0	18443.6	19673.3	20944.0	22134.3
69°	12764.8	13460.9	14106.1	14705.3	15327.6	15979.3	16888.9	18043.0	19343.3	20717.5	21879.9
70°	11981.6	12677.7	13365.6	14048.6	14616.7	15252.0	16164.9	17355.1	18653.8	20082.1	21234.6
72.5°	9179.1	10016.4	10638.7	11279.0	11937.3	12475.8	13529.8	14532.9	15885.8	17335.4	18604.5
75°	5872.6	6642.6	7322.3	7867.4	8510.9	9156.1	9934.3	11049.1	11896.3	13086.5	14115.9
77.5°	3017.6	3245.8	3900.8	4096.2	4542.8	4894.1	5322.6	5601.7	6291.3	6437.4	7044.8
80°	1430.0	1288.8	1213.3	1144.3	1164.0	1155.8	1121.3	1075.4	1132.8	1108.2	1098.3
82.5°	1246.1	1111.5	886.6	753.6	651.8	553.3	476.1	436.7	441.6	454.8	459.7
85°	873.4	820.9	640.3	486.0	379.2	293.9	236.4	226.6	233.1	251.2	244.6
87.5°	252.8	264.3	233.1	162.5	113.3	82.1	64.0	72.2	69.0	67.3	70.6
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: P158041

CATALOG NUMBER: VST-E08-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0
2.5°	4887.5	4885.9	4881.0	4876.1	4876.1	4872.8	4876.1	4877.7	4876.1	4876.1	4872.8
5°	4943.4	4945.0	4949.9	4940.1	4938.4	4940.1	4933.5	4931.9	4926.9	4931.9	4925.3
7.5°	5050.1	5055.0	5055.0	5048.4	5046.8	5051.7	5041.9	5038.6	5033.7	5032.0	5030.4
10°	5209.3	5214.3	5206.0	5201.1	5196.2	5202.8	5194.6	5194.6	5189.6	5184.7	5183.1
12.5°	5386.6	5383.4	5380.1	5383.4	5378.4	5378.4	5373.5	5370.2	5368.6	5366.9	5363.7
15°	5524.6	5536.0	5536.0	5539.3	5536.0	5536.0	5529.5	5531.1	5527.8	5526.2	5527.8
17.5°	5613.2	5616.5	5624.7	5629.6	5629.6	5631.3	5628.0	5631.3	5628.0	5628.0	5634.6
20°	5624.7	5628.0	5636.2	5644.4	5649.3	5652.6	5652.6	5657.5	5660.8	5664.1	5672.3
22.5°	5578.7	5583.7	5593.5	5608.3	5616.5	5619.8	5626.3	5634.6	5642.8	5649.3	5660.8
25°	5531.1	5532.8	5542.6	5557.4	5567.2	5575.4	5586.9	5596.8	5608.3	5621.4	5634.6
27.5°	5504.9	5503.2	5511.4	5526.2	5534.4	5545.9	5555.7	5570.5	5583.7	5600.1	5611.6
30°	5527.8	5514.7	5516.3	5522.9	5529.5	5537.7	5549.2	5562.3	5577.1	5591.9	5605.0
32.5°	5629.6	5600.1	5580.4	5575.4	5577.1	5578.7	5585.3	5593.5	5605.0	5616.5	5621.4
35°	5849.6	5798.7	5772.5	5751.1	5733.1	5718.3	5721.6	5719.9	5719.9	5729.8	5718.3
37.5°	6268.3	6204.2	6176.3	6138.6	6117.2	6063.1	6048.3	6045.0	6023.6	6023.6	5999.0
40°	6925.0	6887.2	6865.9	6831.4	6728.0	6741.1	6667.2	6668.9	6608.1	6614.7	6572.0
42.5°	7859.1	7864.1	7837.8	7814.8	7734.4	7698.3	7629.3	7530.8	7453.6	7452.0	7366.6
45°	8939.4	8998.5	8914.8	8944.4	8873.8	8776.9	8696.4	8570.0	8450.2	8412.4	8325.4
47.5°	10069.0	10165.8	10101.8	10113.3	10078.8	9940.9	9832.6	9676.6	9520.6	9415.5	9363.0
50°	11275.7	11339.7	11338.1	11306.9	11290.4	11155.8	10981.8	10863.6	10748.7	10607.5	10561.5
52.5°	12369.1	12518.5	12618.6	12595.6	12548.0	12467.6	12313.3	12211.5	12042.4	12022.7	12042.4
55°	13539.7	13733.4	13835.2	13958.3	13960.0	13945.2	13881.2	13843.4	13685.8	13703.8	13680.9
57.5°	14647.9	14931.9	15087.9	15350.5	15440.8	15560.7	15516.4	15565.6	15470.4	15532.8	15514.7
60°	16150.1	16544.1	16803.5	17163.1	17330.5	17631.0	17690.1	17726.2	17778.7	17906.8	17834.5
62.5°	18039.8	18617.7	19156.2	19645.4	19806.3	20257.8	20331.7	20614.0	20628.8	20715.8	20556.6
65°	21132.8	21837.2	22429.8	23016.0	23354.2	23882.8	24096.2	24644.6	24477.1	24547.7	24207.9
67.5°	23158.8	23978.0	24772.6	25327.6	25889.1	26429.2	26818.3	27172.9	27169.6	27100.7	26798.6
69°	22979.8	23892.7	24675.8	25419.5	26010.5	26565.5	27033.4	27263.2	27343.7	27243.5	27028.4
70°	22360.9	23298.3	24257.1	24869.5	25513.1	26122.2	26604.9	26856.1	26911.9	26841.3	26655.8
72.5°	19500.9	20400.6	21457.9	22014.5	22792.7	23232.7	23897.6	24222.7	24280.1	24189.8	24068.3
75°	15219.2	15381.7	16458.7	16813.4	17378.1	17885.4	18299.2	18194.1	18488.0	18430.5	18384.5
77.5°	7169.6	6736.2	7433.9	7759.0	7588.3	7133.5	7795.1	7317.4	7634.2	8046.3	7941.2
80°	1182.1	1178.8	1210.0	1278.9	1196.8	1270.7	1269.1	1233.0	1236.3	1324.9	1278.9
82.5°	454.8	464.6	469.5	482.7	482.7	484.3	492.5	502.4	494.2	510.6	507.3
85°	246.3	262.7	247.9	236.4	244.6	249.5	256.1	264.3	256.1	280.7	267.6
87.5°	64.0	67.3	59.1	59.1	57.5	52.5	52.5	55.8	60.7	72.2	78.8
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: P158041

CATALOG NUMBER: VST-E08-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0
2.5°	4866.2	4867.8	4869.5	4864.6	4861.3	4861.3	4859.6	4856.4	4854.7	4854.7	4854.7
5°	4922.0	4925.3	4917.1	4915.5	4912.2	4908.9	4908.9	4905.6	4907.2	4907.2	4899.0
7.5°	5033.7	5028.7	5018.9	5012.3	5018.9	5007.4	5002.5	5005.8	5002.5	5004.1	5000.8
10°	5183.1	5183.1	5171.6	5178.1	5169.9	5156.8	5161.7	5156.8	5153.5	5142.0	5148.6
12.5°	5368.6	5363.7	5357.1	5342.3	5337.4	5335.7	5321.0	5322.6	5317.7	5314.4	5309.5
15°	5531.1	5529.5	5514.7	5506.5	5504.9	5498.3	5491.7	5488.4	5480.2	5478.6	5475.3
17.5°	5639.5	5634.6	5628.0	5619.8	5619.8	5609.9	5606.6	5598.4	5596.8	5591.9	5586.9
20°	5675.6	5677.2	5670.7	5664.1	5660.8	5654.3	5649.3	5642.8	5639.5	5632.9	5628.0
22.5°	5667.4	5667.4	5660.8	5659.2	5652.6	5642.8	5636.2	5628.0	5619.8	5611.6	5601.7
25°	5641.1	5639.5	5634.6	5626.3	5618.1	5603.4	5590.2	5577.1	5565.6	5555.7	5541.0
27.5°	5618.1	5614.8	5605.0	5593.5	5577.1	5560.7	5536.0	5518.0	5503.2	5490.1	5473.7
30°	5609.9	5598.4	5583.7	5565.6	5545.9	5521.3	5495.0	5472.0	5455.6	5442.5	5435.9
32.5°	5619.8	5605.0	5582.0	5559.0	5534.4	5504.9	5478.6	5458.9	5444.1	5440.8	5440.8
35°	5710.1	5685.4	5654.3	5621.4	5590.2	5565.6	5547.5	5545.9	5536.0	5547.5	5565.6
37.5°	5974.4	5953.1	5905.4	5862.8	5841.4	5829.9	5813.5	5816.8	5793.8	5829.9	5859.5
40°	6535.9	6509.6	6453.8	6419.3	6376.6	6335.6	6368.4	6358.6	6375.0	6368.4	6399.6
42.5°	7355.1	7328.9	7240.2	7227.1	7209.0	7192.6	7192.6	7179.5	7172.9	7195.9	7169.6
45°	8351.7	8299.1	8266.3	8305.7	8251.5	8267.9	8325.4	8248.2	8266.3	8159.6	8061.1
47.5°	9386.0	9381.1	9372.9	9420.5	9428.7	9453.3	9484.5	9405.7	9262.9	9182.4	8982.1
50°	10576.3	10627.2	10646.9	10692.8	10712.5	10730.6	10681.3	10564.8	10323.4	10110.0	9873.6
52.5°	12022.7	11934.0	12055.5	12099.8	12080.1	12007.9	11830.6	11687.8	11354.5	11047.5	10681.3
55°	13707.1	13728.5	13643.1	13608.6	13541.3	13341.0	13096.4	12774.6	12352.7	11952.1	11489.1
57.5°	15422.8	15414.6	15281.6	15094.4	14866.2	14624.9	14260.4	13799.1	13306.5	12768.0	12208.2
60°	17509.5	17501.3	17232.0	16911.9	16586.8	16197.7	15626.4	15071.4	14411.4	13703.8	13037.3
62.5°	20251.2	19898.2	19633.9	19156.2	18653.8	18144.8	17371.6	16634.4	15752.8	14859.6	14081.5
65°	23764.6	23183.4	22883.0	22190.1	21411.9	20617.3	19830.9	18862.3	17675.3	16595.0	15644.4
67.5°	26363.5	25831.6	25281.6	24590.4	23736.7	22850.1	21773.1	20553.3	19205.4	17993.8	16957.8
69°	26591.7	26094.3	25434.3	24741.5	23933.7	22970.0	21794.5	20428.5	19062.6	17836.2	16816.6
70°	26245.3	25716.7	25022.2	24301.5	23398.5	22488.9	21257.6	19834.2	18466.6	17236.9	16242.0
72.5°	23661.2	23145.7	22406.9	21544.9	20619.0	19840.8	18671.8	17187.7	15700.2	14564.1	13789.2
75°	17992.1	17878.9	17355.1	16852.8	16123.8	15255.3	14186.5	13188.3	11968.5	10766.7	10044.3
77.5°	7676.9	7938.0	8210.5	8249.9	8276.2	8008.5	7842.7	7591.5	6775.6	6404.5	6022.0
80°	1418.5	1267.4	1352.8	1362.7	1418.5	1448.0	1556.4	1845.3	1878.2	1948.8	2035.8
82.5°	504.0	512.2	525.4	530.3	535.2	554.9	628.8	753.6	866.9	1014.6	1211.6
85°	285.7	290.6	302.1	311.9	318.5	338.2	379.2	453.1	564.8	733.9	994.9
87.5°	87.0	98.5	105.1	118.2	123.1	126.4	144.5	193.7	249.5	369.4	538.5
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: P158041

CATALOG NUMBER: VST-E08-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0
2.5°	4854.7	4853.1	4849.8	4846.5	4848.1	4844.9	4835.0	4831.7	4820.2	4812.0	4805.5
5°	4899.0	4897.4	4890.8	4892.5	4890.8	4874.4	4862.9	4843.2	4831.7	4813.7	4807.1
7.5°	4991.0	4989.3	4977.8	4982.8	4979.5	4954.9	4935.2	4904.0	4887.5	4864.6	4846.5
10°	5128.9	5128.9	5115.8	5117.4	5117.4	5084.6	5050.1	4997.5	4959.8	4923.7	4892.5
12.5°	5296.3	5289.8	5288.1	5279.9	5273.4	5237.2	5184.7	5114.1	5043.5	4984.4	4941.7
15°	5465.4	5455.6	5450.7	5440.8	5432.6	5399.8	5329.2	5242.2	5146.9	5051.7	4981.1
17.5°	5575.4	5568.9	5559.0	5555.7	5544.3	5511.4	5462.2	5375.2	5256.9	5124.0	5017.2
20°	5616.5	5605.0	5598.4	5591.9	5585.3	5562.3	5562.3	5506.5	5375.2	5188.0	5025.5
22.5°	5590.2	5583.7	5573.8	5568.9	5562.3	5565.6	5629.6	5621.4	5470.4	5202.8	4966.4
25°	5529.5	5521.3	5513.1	5513.1	5511.4	5545.9	5700.2	5721.6	5498.3	5130.5	4836.7
27.5°	5467.1	5455.6	5458.9	5460.5	5468.7	5542.6	5777.4	5747.8	5422.8	4956.5	4613.4
30°	5429.3	5429.3	5437.5	5450.7	5467.1	5596.8	5838.1	5688.7	5227.4	4693.8	4317.9
32.5°	5445.7	5462.2	5480.2	5513.1	5537.7	5716.6	5859.5	5536.0	4943.4	4368.7	4009.2
35°	5591.9	5611.6	5646.0	5696.9	5726.5	5889.0	5859.5	5312.8	4613.4	4089.6	3690.7
37.5°	5910.4	5930.1	5971.1	6010.5	6040.1	6105.7	5834.8	5028.7	4337.6	3800.7	3405.0
40°	6422.6	6450.5	6480.1	6473.5	6453.8	6389.8	5785.6	4764.4	4083.1	3547.9	3124.3
42.5°	7143.3	7117.1	7113.8	7049.8	6984.1	6709.9	5749.5	4592.0	3864.7	3281.9	2845.2
45°	7975.7	7869.0	7759.0	7673.6	7573.5	7061.2	5739.6	4452.5	3623.4	2986.4	2541.5
47.5°	8813.0	8642.3	8428.8	8295.9	8133.3	7435.6	5769.2	4265.3	3313.1	2664.6	2257.4
50°	9633.9	9354.8	9090.5	8931.2	8747.3	7865.7	5816.8	3950.1	2942.0	2372.4	1998.0
52.5°	10394.0	10034.5	9763.6	9576.4	9351.5	8366.5	5774.1	3536.4	2620.3	2091.6	1751.8
55°	11116.4	10719.1	10438.4	10241.4	9977.0	8868.8	5465.4	3160.4	2313.3	1817.4	1474.3
57.5°	11748.5	11367.6	11075.4	10807.8	10584.5	9305.5	4856.4	2850.1	2017.7	1503.9	1173.9
60°	12487.3	12058.8	11712.4	11426.7	11164.0	9530.5	4173.4	2574.3	1702.5	1164.0	848.8
62.5°	13483.8	12991.3	12590.7	12264.0	11920.9	9579.7	3707.1	2298.5	1351.2	842.2	617.3
65°	14961.4	14354.0	13853.2	13403.4	12938.8	9376.1	3477.3	1998.0	1004.8	625.5	517.2
67.5°	16135.3	15504.9	14925.3	14347.4	13753.1	8998.5	3426.4	1720.6	771.6	531.9	464.6
69°	15992.5	15391.6	14859.6	14234.1	13575.8	8524.1	3375.5	1613.9	704.3	494.2	440.0
70°	15442.5	14872.8	14332.6	13823.7	13017.6	7995.4	3240.9	1554.8	678.1	476.1	421.9
72.5°	13048.8	12388.8	11865.1	11231.3	10382.5	5941.6	2457.7	1257.6	622.2	435.1	380.9
75°	9517.3	8970.6	8448.5	7747.5	6921.7	3437.9	1530.1	719.1	456.4	394.0	344.8
77.5°	5557.4	5434.3	4930.2	4468.9	3651.3	1750.1	878.3	430.1	354.6	357.9	303.7
80°	2091.6	2227.9	2278.8	2119.5	1958.6	1208.3	638.6	349.7	308.7	353.0	257.8
82.5°	1525.2	1769.8	1799.4	1723.9	1604.0	1126.3	510.6	280.7	251.2	379.2	221.6
85°	1272.4	1408.6	1430.0	1351.2	1311.8	953.9	356.3	197.0	183.9	272.5	165.8
87.5°	643.6	678.1	696.1	630.4	633.7	444.9	142.8	83.7	100.1	116.6	91.9
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: P158041

CATALOG NUMBER: VST-E08-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	4858.0	4858.0
2.5°	4790.7	4800.5
5°	4797.2	4797.2
7.5°	4835.0	4835.0
10°	4876.1	4877.7
12.5°	4913.8	4912.2
15°	4943.4	4938.4
17.5°	4961.4	4956.5
20°	4943.4	4935.2
22.5°	4851.4	4828.4
25°	4684.0	4654.4
27.5°	4462.3	4442.6
30°	4173.4	4143.8
32.5°	3835.2	3820.4
35°	3511.7	3493.7
37.5°	3216.2	3211.3
40°	2966.7	2940.4
42.5°	2674.4	2662.9
45°	2377.3	2370.7
47.5°	2098.2	2091.6
50°	1840.4	1827.3
52.5°	1587.6	1566.2
55°	1306.8	1292.1
57.5°	1003.1	990.0
60°	706.0	691.2
62.5°	502.4	486.0
65°	418.7	405.5
67.5°	379.2	364.5
69°	361.2	348.1
70°	349.7	339.8
72.5°	325.1	318.5
75°	297.2	292.2
77.5°	261.0	252.8
80°	218.4	210.1
82.5°	183.9	175.7
85°	123.1	111.6
87.5°	55.8	49.3
90°	0.0	0.0

(END OF REPORT)