

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: P158039

Luminaire Tested: **VST-E08-LED-E-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158039
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (168) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22763.7 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

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

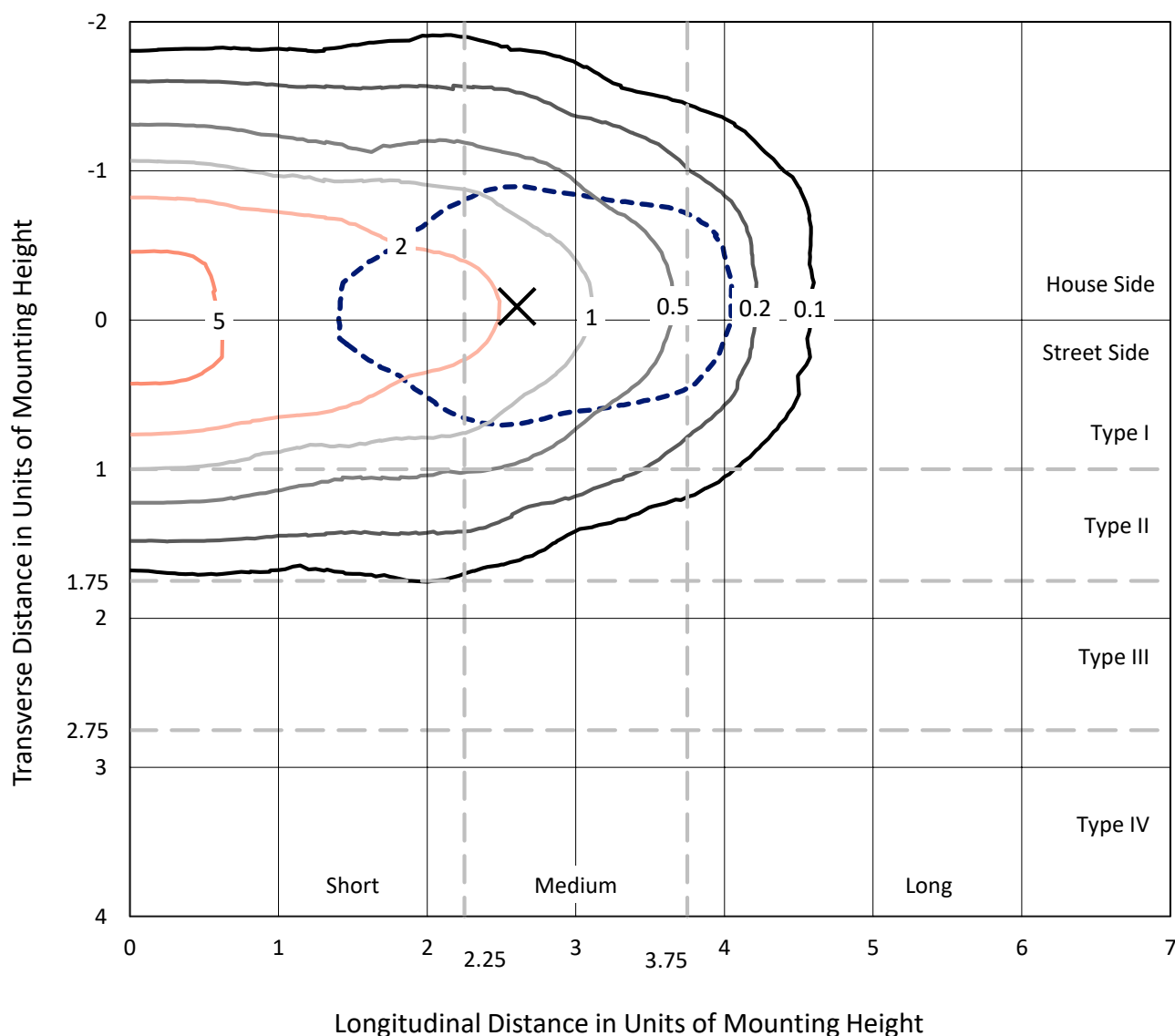


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

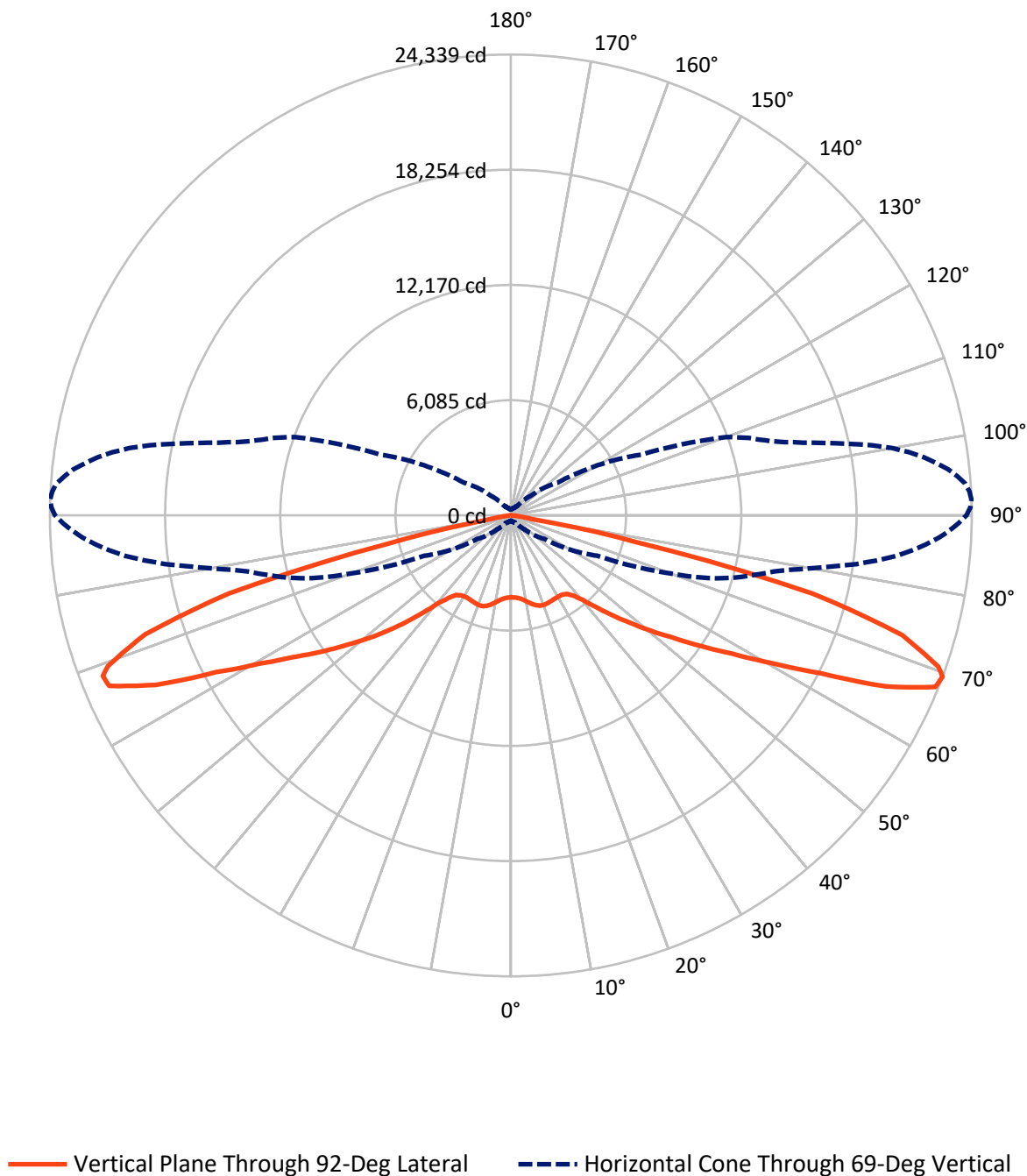


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12072.8	0.0	12072.8
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	10690.9	0.0	10690.9
	% Fixture	47.0	0.0	47.0
Total	Lumens	22763.7	0.0	22763.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	1.9
10°-20°	1336.6	5.9
20°-30°	2168.6	9.5
30°-40°	2702.7	11.9
40°-50°	3365.1	14.8
50°-60°	4150.0	18.2
60°-70°	5154.0	22.6
70°-80°	3166.8	13.9
80°-90°	296.8	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°	22763.7	100.0
0°-180°	22763.7	100.0

Coefficient of Utilization



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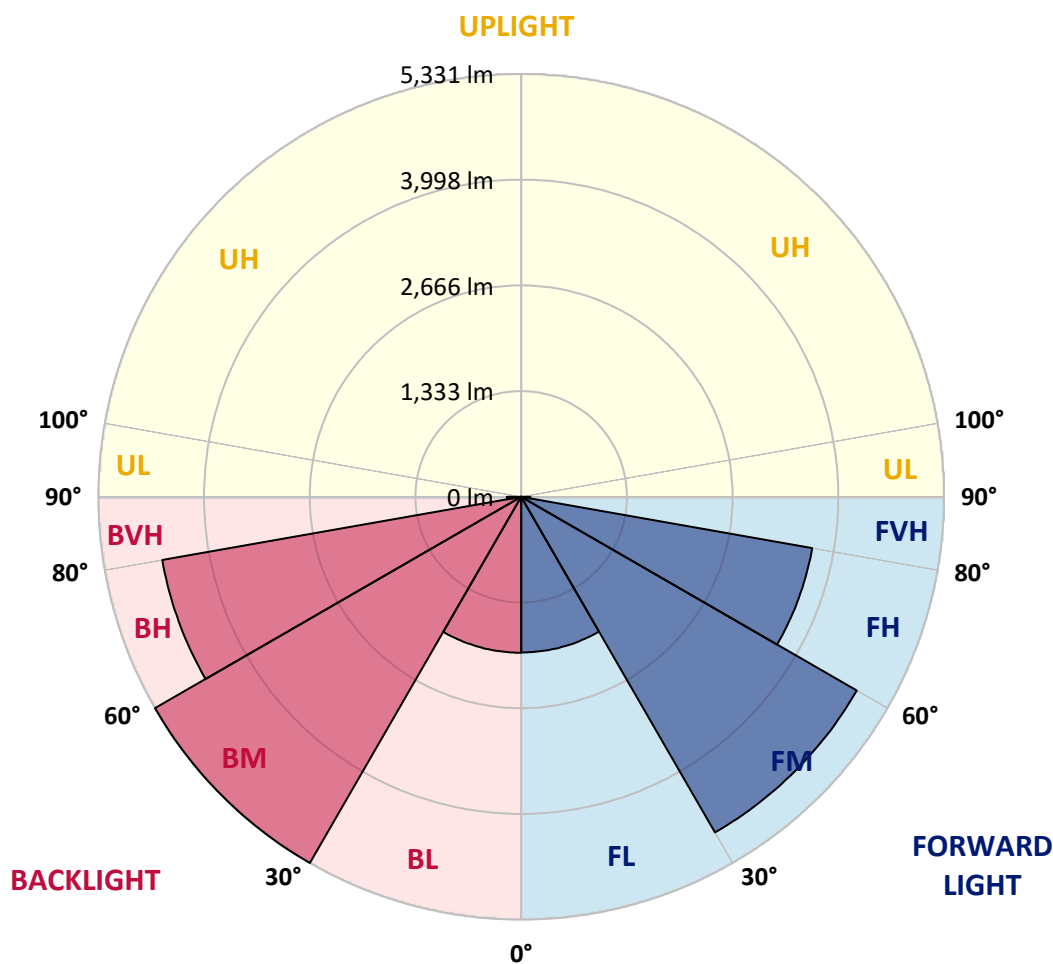
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1962.1	8.6			
FM	(30°-60°)	4886.5	21.5			
FH	(60°-80°)	3726.1	16.4			G2/5000
FVH	(80°-90°)	116.2	0.5			G2/225
BL	(0°-30°)	1966.3	8.6	B3/2500		
BM	(30°-60°)	5331.2	23.4	B4/8500		
BH	(60°-80°)	4594.7	20.2	B4/5000		G4/5000
BVH	(80°-90°)	180.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2
2.5°	4392.8	4381.2	4391.4	4392.8	4391.4	4391.4	4378.2	4375.3	4357.8	4362.2	4360.7
5°	4452.8	4448.4	4455.7	4458.6	4461.5	4455.7	4445.5	4441.1	4429.4	4425.0	4423.5
7.5°	4508.3	4501.0	4512.7	4522.9	4530.2	4531.7	4533.1	4525.8	4525.8	4520.0	4520.0
10°	4555.1	4549.2	4568.2	4581.4	4604.7	4617.9	4632.5	4642.7	4648.6	4650.0	4648.6
12.5°	4575.5	4571.1	4601.8	4641.3	4685.1	4715.8	4752.3	4778.6	4786.0	4784.5	4791.8
15°	4540.4	4543.4	4590.1	4667.6	4761.1	4838.6	4889.7	4911.6	4917.5	4920.4	4921.9
17.5°	4445.5	4451.3	4518.5	4644.2	4807.9	4948.2	5024.2	5024.2	5012.5	5012.5	5011.0
20°	4293.5	4299.3	4387.0	4568.2	4809.3	5024.2	5132.3	5110.4	5066.5	5057.8	5049.0
22.5°	4083.0	4106.4	4202.9	4413.3	4746.5	5046.1	5199.5	5167.4	5098.7	5079.7	5066.5
25°	3844.8	3841.9	3957.4	4194.1	4594.5	4993.5	5218.5	5212.7	5139.6	5119.1	5095.8
27.5°	3573.0	3581.8	3688.5	3928.1	4362.2	4841.5	5186.4	5263.8	5203.9	5183.4	5161.5
30°	3293.9	3302.7	3403.5	3682.6	4097.7	4623.7	5120.6	5313.5	5290.1	5274.1	5259.4
32.5°	3013.3	3016.2	3136.1	3435.7	3874.1	4363.6	5021.2	5358.8	5391.0	5383.7	5377.8
35°	2750.3	2753.2	2883.3	3187.2	3653.4	4141.5	4901.4	5424.6	5528.3	5537.1	5542.9
37.5°	2494.5	2498.9	2631.9	2950.5	3435.7	3973.4	4768.4	5525.4	5721.2	5753.4	5759.2
40°	2240.3	2244.6	2371.8	2709.4	3215.0	3825.8	4666.1	5667.2	5981.3	6025.2	6070.5
42.5°	1997.7	2013.8	2121.9	2444.9	2969.5	3643.2	4622.3	5839.6	6289.7	6358.4	6409.5
45°	1771.2	1772.6	1895.4	2197.9	2678.7	3396.2	4593.1	6035.4	6634.6	6738.3	6808.5
47.5°	1528.6	1546.1	1674.7	1968.5	2406.9	3090.8	4499.5	6264.9	7010.1	7131.4	7273.2
50°	1293.3	1318.1	1442.4	1733.2	2158.4	2775.1	4248.2	6533.7	7432.5	7590.3	7754.0
52.5°	1066.8	1065.3	1196.9	1499.4	1908.5	2507.7	3840.5	6815.8	7920.6	8090.1	8266.9
55°	806.7	806.7	936.7	1212.9	1638.2	2269.5	3403.5	6991.1	8373.6	8578.2	8771.1
57.5°	553.9	568.5	691.2	929.4	1356.1	2051.8	3068.9	6890.3	8719.9	8974.2	9203.6
60°	410.6	425.3	515.9	667.8	1060.9	1794.6	2817.5	6415.4	8928.9	9266.5	9564.6
62.5°	355.1	365.3	451.6	534.9	764.3	1521.3	2595.4	5811.8	9230.0	9691.7	10106.8
65°	317.1	327.3	413.6	461.8	597.7	1223.2	2471.2	5466.9	9589.4	10295.3	10897.4
67.5°	293.7	305.4	378.5	413.6	521.7	1106.2	2374.7	5386.6	9586.5	10442.9	11211.6
69°	282.0	290.8	350.7	388.7	504.2	1071.2	2165.7	5037.3	8953.8	9873.0	10644.6
70°	274.7	283.5	334.7	372.6	498.3	1008.3	1972.8	4575.5	8233.3	9158.3	9941.6
72.5°	251.4	260.1	298.1	333.2	415.0	673.7	1375.1	2928.6	5883.4	6544.0	7439.8
75°	222.1	232.4	261.6	290.8	314.2	390.2	793.5	1519.8	3364.1	3865.3	4663.2
77.5°	181.2	191.4	222.1	268.9	266.0	296.7	515.9	933.8	1575.3	1953.8	2249.0
80°	149.1	156.4	182.7	271.8	217.7	248.4	417.9	765.8	1109.2	1226.1	1296.2
82.5°	99.4	109.6	141.8	213.4	166.6	176.8	312.7	716.1	938.2	1028.8	1113.6
85°	46.8	51.1	86.2	114.0	100.8	95.0	178.3	505.6	698.5	740.9	773.1
87.5°	0.0	0.0	4.4	8.8	13.2	13.2	32.1	106.7	195.8	236.7	233.8
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2
2.5°	4354.9	4356.3	4354.9	4354.9	4353.4	4350.5	4350.5	4347.5	4349.0	4347.5	4350.5
5°	4422.1	4422.1	4417.7	4414.8	4419.2	4414.8	4416.2	4408.9	4408.9	4404.5	4398.7
7.5°	4518.5	4518.5	4520.0	4511.2	4517.1	4518.5	4514.1	4511.2	4508.3	4501.0	4502.5
10°	4647.1	4647.1	4651.5	4639.8	4645.7	4648.6	4650.0	4650.0	4647.1	4634.0	4635.4
12.5°	4790.3	4787.4	4788.9	4783.0	4788.9	4791.8	4794.7	4791.8	4791.8	4788.9	4787.4
15°	4920.4	4918.9	4921.9	4917.5	4918.9	4921.9	4930.6	4929.2	4927.7	4918.9	4918.9
17.5°	5009.5	5005.2	5002.2	5000.8	5000.8	4999.3	5000.8	5000.8	4996.4	4994.9	4994.9
20°	5043.2	5031.5	5024.2	5019.8	5013.9	5011.0	5008.1	5009.5	5006.6	5002.2	5003.7
22.5°	5049.0	5032.9	5018.3	5005.2	4993.5	4986.2	4978.9	4975.9	4968.6	4964.2	4964.2
25°	5076.8	5051.9	5028.5	5006.6	4989.1	4973.0	4956.9	4945.2	4936.5	4926.2	4923.3
27.5°	5138.1	5111.8	5084.1	5056.3	5032.9	5000.8	4978.9	4955.5	4935.0	4918.9	4907.2
30°	5233.1	5206.8	5179.1	5146.9	5116.2	5082.6	5046.1	5018.3	4989.1	4956.9	4939.4
32.5°	5358.8	5341.3	5313.5	5282.8	5255.1	5220.0	5176.1	5133.8	5106.0	5068.0	5040.2
35°	5538.6	5518.1	5509.3	5496.2	5468.4	5446.5	5398.3	5358.8	5332.5	5279.9	5259.4
37.5°	5784.1	5782.6	5789.9	5785.5	5789.9	5762.1	5740.2	5738.8	5700.8	5649.6	5599.9
40°	6118.7	6136.3	6175.7	6203.5	6229.8	6232.7	6263.4	6231.2	6235.6	6228.3	6177.2
42.5°	6500.1	6560.0	6606.8	6688.6	6751.5	6809.9	6849.4	6903.5	6944.4	6980.9	6989.7
45°	6925.4	7014.5	7122.7	7195.7	7318.5	7416.4	7550.8	7654.6	7762.7	7869.4	7907.4
47.5°	7387.2	7498.2	7618.1	7754.0	7908.9	8062.3	8269.8	8429.1	8603.0	8747.7	8876.3
50°	7897.2	8012.6	8173.4	8329.8	8543.1	8719.9	8991.8	9200.7	9481.3	9674.2	9840.8
52.5°	8429.1	8573.8	8753.5	8926.0	9143.7	9370.2	9672.7	9981.1	10318.7	10610.9	10853.5
55°	8949.4	9127.7	9300.1	9501.8	9742.9	10005.9	10347.9	10754.2	11175.0	11509.7	11831.2
57.5°	9412.6	9618.7	9821.8	10026.4	10273.4	10578.8	10963.1	11401.5	11883.8	12329.5	12770.8
60°	9842.3	10089.2	10337.7	10593.4	10876.9	11253.9	11715.7	12255.0	12879.0	13488.4	14065.6
62.5°	10521.8	10846.2	11154.6	11484.8	11826.8	12269.6	12814.7	13522.0	14238.0	14999.4	15591.3
65°	11442.5	11898.4	12301.7	12729.9	13172.7	13764.6	14416.3	15262.4	16288.3	17068.7	18018.6
67.5°	11899.9	12500.5	13019.3	13495.7	14043.7	14641.4	15415.9	16416.9	17511.5	18642.6	19702.1
69°	11362.1	11981.7	12556.0	13089.4	13643.3	14223.4	15033.0	16060.4	17217.7	18440.9	19475.6
70°	10665.0	11284.6	11896.9	12504.9	13010.5	13576.0	14388.6	15448.0	16604.0	17875.4	18901.2
72.5°	8170.5	8915.8	9469.6	10039.5	10625.6	11104.9	12043.1	12936.0	14140.1	15430.5	16560.1
75°	5227.3	5912.7	6517.7	7002.8	7575.7	8150.0	8842.7	9835.0	10589.0	11648.5	12564.8
77.5°	2686.0	2889.1	3472.2	3646.1	4043.6	4356.3	4737.7	4986.2	5599.9	5730.0	6270.7
80°	1272.8	1147.2	1079.9	1018.6	1036.1	1028.8	998.1	957.2	1008.3	986.4	977.7
82.5°	1109.2	989.3	789.1	670.8	580.2	492.5	423.8	388.7	393.1	404.8	409.2
85°	777.4	730.7	569.9	432.6	337.6	261.6	210.4	201.7	207.5	223.6	217.7
87.5°	225.0	235.3	207.5	144.7	100.8	73.1	57.0	64.3	61.4	59.9	62.8
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°	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2
2.5°	4350.5	4349.0	4344.6	4340.2	4340.2	4337.3	4340.2	4341.7	4340.2	4340.2	4337.3
5°	4400.2	4401.6	4406.0	4397.2	4395.8	4397.2	4391.4	4389.9	4385.5	4389.9	4384.1
7.5°	4495.1	4499.5	4499.5	4493.7	4492.2	4496.6	4487.8	4484.9	4480.5	4479.1	4477.6
10°	4636.9	4641.3	4634.0	4629.6	4625.2	4631.1	4623.7	4623.7	4619.4	4615.0	4613.5
12.5°	4794.7	4791.8	4788.9	4791.8	4787.4	4787.4	4783.0	4780.1	4778.6	4777.2	4774.3
15°	4917.5	4927.7	4927.7	4930.6	4927.7	4927.7	4921.9	4923.3	4920.4	4918.9	4920.4
17.5°	4996.4	4999.3	5006.6	5011.0	5011.0	5012.5	5009.5	5012.5	5009.5	5009.5	5015.4
20°	5006.6	5009.5	5016.9	5024.2	5028.5	5031.5	5031.5	5035.8	5038.8	5041.7	5049.0
22.5°	4965.7	4970.1	4978.9	4992.0	4999.3	5002.2	5008.1	5015.4	5022.7	5028.5	5038.8
25°	4923.3	4924.8	4933.6	4946.7	4955.5	4962.8	4973.0	4981.8	4992.0	5003.7	5015.4
27.5°	4899.9	4898.5	4905.8	4918.9	4926.2	4936.5	4945.2	4958.4	4970.1	4984.7	4994.9
30°	4920.4	4908.7	4910.2	4916.0	4921.9	4929.2	4939.4	4951.1	4964.2	4977.4	4989.1
32.5°	5011.0	4984.7	4967.2	4962.8	4964.2	4965.7	4971.5	4978.9	4989.1	4999.3	5003.7
35°	5206.8	5161.5	5138.1	5119.1	5103.1	5089.9	5092.8	5091.4	5091.4	5100.1	5089.9
37.5°	5579.5	5522.5	5497.6	5464.0	5445.0	5396.8	5383.7	5380.7	5361.7	5361.7	5339.8
40°	6164.0	6130.4	6111.4	6080.7	5988.7	6000.3	5934.6	5936.0	5882.0	5887.8	5849.8
42.5°	6995.5	6999.9	6976.5	6956.1	6884.5	6852.3	6790.9	6703.3	6634.6	6633.1	6557.1
45°	7957.1	8009.7	7935.2	7961.5	7898.7	7812.4	7740.8	7628.3	7521.6	7488.0	7410.6
47.5°	8962.5	9048.7	8991.8	9002.0	8971.3	8848.5	8752.1	8613.3	8474.4	8380.9	8334.1
50°	10036.6	10093.6	10092.2	10064.4	10049.8	9929.9	9775.0	9669.8	9567.5	9441.9	9400.9
52.5°	11009.9	11142.9	11232.0	11211.6	11169.2	11097.6	10960.2	10869.6	10719.1	10701.5	10719.1
55°	12051.8	12224.3	12314.9	12424.5	12425.9	12412.8	12355.8	12322.2	12181.9	12198.0	12177.5
57.5°	13038.3	13291.1	13429.9	13663.7	13744.1	13850.8	13811.3	13855.2	13770.4	13825.9	13809.9
60°	14375.4	14726.1	14957.0	15277.1	15426.1	15693.6	15746.2	15778.3	15825.1	15939.1	15874.8
62.5°	16057.4	16571.8	17051.2	17486.6	17629.9	18031.7	18097.5	18348.8	18362.0	18439.4	18297.7
65°	18810.6	19437.6	19965.1	20486.8	20787.9	21258.4	21448.4	21936.5	21787.4	21850.3	21547.8
67.5°	20614.0	21343.2	22050.5	22544.4	23044.2	23525.0	23871.3	24187.0	24184.1	24122.7	23853.8
69°	20454.7	21267.2	21964.2	22626.2	23152.3	23646.3	24062.8	24267.4	24339.0	24249.8	24058.4
70°	19903.7	20738.2	21591.6	22136.7	22709.5	23251.7	23681.3	23904.9	23954.6	23891.8	23726.6
72.5°	17358.0	18158.9	19100.0	19595.4	20288.1	20679.7	21271.6	21560.9	21612.1	21531.7	21423.5
75°	13546.8	13691.5	14650.1	14965.8	15468.5	15920.1	16288.3	16194.8	16456.4	16405.2	16364.3
77.5°	6381.8	5996.0	6617.0	6906.4	6754.4	6349.6	6938.5	6513.3	6795.3	7162.1	7068.6
80°	1052.2	1049.3	1077.0	1138.4	1065.3	1131.1	1129.6	1097.5	1100.4	1179.3	1138.4
82.5°	404.8	413.6	417.9	429.6	429.6	431.1	438.4	447.2	439.9	454.5	451.6
85°	219.2	233.8	220.7	210.4	217.7	222.1	228.0	235.3	228.0	249.9	238.2
87.5°	57.0	59.9	52.6	52.6	51.1	46.8	46.8	49.7	54.1	64.3	70.1
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-E08-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2
2.5°	4331.5	4332.9	4334.4	4330.0	4327.1	4327.1	4325.6	4322.7	4321.2	4321.2	4321.2
5°	4381.2	4384.1	4376.8	4375.3	4372.4	4369.5	4369.5	4366.5	4368.0	4368.0	4360.7
7.5°	4480.5	4476.1	4467.4	4461.5	4467.4	4457.1	4452.8	4455.7	4452.8	4454.2	4451.3
10°	4613.5	4613.5	4603.3	4609.1	4601.8	4590.1	4594.5	4590.1	4587.2	4577.0	4582.8
12.5°	4778.6	4774.3	4768.4	4755.3	4750.9	4749.4	4736.3	4737.7	4733.3	4730.4	4726.0
15°	4923.3	4921.9	4908.7	4901.4	4899.9	4894.1	4888.3	4885.3	4878.0	4876.6	4873.6
17.5°	5019.8	5015.4	5009.5	5002.2	5002.2	4993.5	4990.5	4983.2	4981.8	4977.4	4973.0
20°	5051.9	5053.4	5047.5	5041.7	5038.8	5032.9	5028.5	5022.7	5019.8	5013.9	5009.5
22.5°	5044.6	5044.6	5038.8	5037.3	5031.5	5022.7	5016.9	5009.5	5002.2	4994.9	4986.2
25°	5021.2	5019.8	5015.4	5008.1	5000.8	4987.6	4975.9	4964.2	4954.0	4945.2	4932.1
27.5°	5000.8	4997.9	4989.1	4978.9	4964.2	4949.6	4927.7	4911.6	4898.5	4886.8	4872.2
30°	4993.5	4983.2	4970.1	4954.0	4936.5	4914.6	4891.2	4870.7	4856.1	4844.4	4838.6
32.5°	5002.2	4989.1	4968.6	4948.2	4926.2	4899.9	4876.6	4859.0	4845.9	4842.9	4842.9
35°	5082.6	5060.7	5032.9	5003.7	4975.9	4954.0	4937.9	4936.5	4927.7	4937.9	4954.0
37.5°	5317.9	5298.9	5256.5	5218.5	5199.5	5189.3	5174.7	5177.6	5157.1	5189.3	5215.6
40°	5817.7	5794.3	5744.6	5713.9	5675.9	5639.4	5668.6	5659.8	5674.5	5668.6	5696.4
42.5°	6546.9	6523.5	6444.6	6432.9	6416.8	6402.2	6402.2	6390.5	6384.7	6405.1	6381.8
45°	7433.9	7387.2	7358.0	7393.0	7344.8	7359.4	7410.6	7341.9	7358.0	7263.0	7175.3
47.5°	8354.6	8350.2	8342.9	8385.3	8392.6	8414.5	8442.3	8372.1	8245.0	8173.4	7995.1
50°	9414.1	9459.4	9476.9	9517.8	9535.4	9551.5	9507.6	9403.9	9189.0	8999.1	8788.6
52.5°	10701.5	10622.6	10730.8	10770.2	10752.7	10688.4	10530.6	10403.4	10106.8	9833.5	9507.6
55°	12200.9	12219.9	12143.9	12113.2	12053.3	11875.0	11657.3	11370.8	10995.3	10638.7	10226.6
57.5°	13728.0	13720.7	13602.3	13435.7	13232.6	13017.8	12693.4	12282.7	11844.3	11365.0	10866.7
60°	15585.4	15578.1	15338.4	15053.5	14764.1	14417.8	13909.2	13415.3	12827.8	12198.0	11604.7
62.5°	18025.9	17711.7	17476.4	17051.2	16604.0	16151.0	15462.7	14806.5	14021.8	13226.8	12534.1
65°	21153.2	20635.9	20368.4	19751.7	19059.1	18351.8	17651.8	16789.6	15733.0	14771.4	13925.3
67.5°	23466.5	22993.0	22503.5	21888.3	21128.4	20339.2	19380.6	18294.8	17095.0	16016.5	15094.4
69°	23669.7	23226.9	22639.4	22022.7	21303.7	20445.9	19399.6	18183.7	16967.9	15876.2	14968.7
70°	23361.3	22890.8	22272.6	21631.1	20827.3	20017.7	18921.7	17654.7	16437.4	15342.8	14457.2
72.5°	21061.1	20602.3	19944.6	19177.4	18353.2	17660.5	16620.1	15299.0	13975.0	12963.7	12274.0
75°	16015.1	15914.2	15448.0	15000.9	14352.0	13579.0	12627.6	11739.1	10653.3	9583.6	8940.6
77.5°	6833.3	7065.7	7308.3	7343.3	7366.7	7128.5	6980.9	6757.3	6031.0	5700.8	5360.3
80°	1262.6	1128.2	1204.2	1212.9	1262.6	1288.9	1385.4	1642.6	1671.8	1734.6	1812.1
82.5°	448.6	455.9	467.6	472.0	476.4	493.9	559.7	670.8	771.6	903.1	1078.5
85°	254.3	258.7	268.9	277.7	283.5	301.0	337.6	403.3	502.7	653.2	885.6
87.5°	77.5	87.7	93.5	105.2	109.6	112.5	128.6	172.4	222.1	328.8	479.3
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-E08-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2	4324.2
2.5°	4321.2	4319.8	4316.9	4313.9	4315.4	4312.5	4303.7	4300.8	4290.6	4283.2	4277.4
5°	4360.7	4359.2	4353.4	4354.9	4353.4	4338.8	4328.5	4311.0	4300.8	4284.7	4278.9
7.5°	4442.5	4441.1	4430.8	4435.2	4432.3	4410.4	4392.8	4365.1	4350.5	4330.0	4313.9
10°	4565.3	4565.3	4553.6	4555.1	4555.1	4525.8	4495.1	4448.4	4414.8	4382.6	4354.9
12.5°	4714.3	4708.5	4707.0	4699.7	4693.9	4661.7	4615.0	4552.1	4489.3	4436.7	4398.7
15°	4864.9	4856.1	4851.7	4842.9	4835.6	4806.4	4743.6	4666.1	4581.4	4496.6	4433.8
17.5°	4962.8	4956.9	4948.2	4945.2	4935.0	4905.8	4861.9	4784.5	4679.3	4560.9	4465.9
20°	4999.3	4989.1	4983.2	4977.4	4971.5	4951.1	4951.1	4901.4	4784.5	4617.9	4473.2
22.5°	4975.9	4970.1	4961.3	4956.9	4951.1	4954.0	5011.0	5003.7	4869.3	4631.1	4420.6
25°	4921.9	4914.6	4907.2	4907.2	4905.8	4936.5	5073.8	5092.8	4894.1	4566.8	4305.2
27.5°	4866.3	4856.1	4859.0	4860.5	4867.8	4933.6	5142.5	5116.2	4826.9	4411.8	4106.4
30°	4832.7	4832.7	4840.0	4851.7	4866.3	4981.8	5196.6	5063.6	4653.0	4178.0	3843.4
32.5°	4847.3	4861.9	4878.0	4907.2	4929.2	5088.5	5215.6	4927.7	4400.2	3888.7	3568.6
35°	4977.4	4994.9	5025.6	5070.9	5097.2	5241.9	5215.6	4729.0	4106.4	3640.2	3285.1
37.5°	5260.9	5278.4	5315.0	5350.0	5376.3	5434.8	5193.7	4476.1	3860.9	3383.0	3030.9
40°	5716.8	5741.7	5768.0	5762.1	5744.6	5687.6	5149.8	4240.9	3634.4	3158.0	2781.0
42.5°	6358.4	6335.0	6332.1	6275.1	6216.6	5972.6	5117.7	4087.4	3440.0	2921.3	2532.5
45°	7099.3	7004.3	6906.4	6830.4	6741.3	6285.3	5108.9	3963.2	3225.2	2658.2	2262.2
47.5°	7844.6	7692.6	7502.6	7384.3	7239.6	6618.5	5135.2	3796.6	2949.0	2371.8	2009.4
50°	8575.3	8326.8	8091.6	7949.8	7786.1	7001.4	5177.6	3516.0	2618.8	2111.7	1778.5
52.5°	9251.9	8931.8	8690.7	8524.1	8323.9	7447.1	5139.6	3147.8	2332.3	1861.8	1559.3
55°	9894.9	9541.2	9291.3	9116.0	8880.7	7894.3	4864.9	2813.1	2059.1	1617.7	1312.3
57.5°	10457.5	10118.5	9858.3	9620.1	9421.4	8283.0	4322.7	2536.9	1796.0	1338.6	1044.9
60°	11115.1	10733.7	10425.3	10171.1	9937.3	8483.2	3714.8	2291.4	1515.4	1036.1	755.5
62.5°	12002.2	11563.7	11207.2	10916.4	10610.9	8527.0	3299.8	2045.9	1202.7	749.7	549.5
65°	13317.4	12776.7	12331.0	11930.5	11517.0	8345.8	3095.2	1778.5	894.4	556.8	460.3
67.5°	14362.3	13801.1	13285.2	12770.8	12241.8	8009.7	3049.9	1531.5	686.8	473.5	413.6
69°	14235.1	13700.3	13226.8	12670.0	12084.0	7587.4	3004.6	1436.5	626.9	439.9	391.6
70°	13745.6	13238.5	12757.7	12304.7	11587.1	7116.8	2884.7	1383.9	603.5	423.8	375.6
72.5°	11614.9	11027.4	10561.3	9997.2	9241.6	5288.7	2187.7	1119.4	553.9	387.3	339.0
75°	8471.5	7984.9	7520.2	6896.2	6161.1	3060.1	1362.0	640.1	406.3	350.7	306.9
77.5°	4946.7	4837.1	4388.5	3977.8	3250.1	1557.8	781.8	382.9	315.7	318.6	270.4
80°	1861.8	1983.1	2028.4	1886.6	1743.4	1075.6	568.5	311.3	274.7	314.2	229.4
82.5°	1357.6	1575.3	1601.7	1534.4	1427.7	1002.5	454.5	249.9	223.6	337.6	197.3
85°	1132.6	1253.8	1272.8	1202.7	1167.6	849.1	317.1	175.4	163.7	242.6	147.6
87.5°	572.9	603.5	619.6	561.2	564.1	396.0	127.1	74.5	89.1	103.8	81.8
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: P158039

CATALOG NUMBER: VST-E08-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	4324.2	4324.2
2.5°	4264.3	4273.0
5°	4270.1	4270.1
7.5°	4303.7	4303.7
10°	4340.2	4341.7
12.5°	4373.9	4372.4
15°	4400.2	4395.8
17.5°	4416.2	4411.8
20°	4400.2	4392.8
22.5°	4318.3	4297.9
25°	4169.3	4143.0
27.5°	3972.0	3954.4
30°	3714.8	3688.5
32.5°	3413.7	3400.6
35°	3125.9	3109.8
37.5°	2862.8	2858.4
40°	2640.7	2617.3
42.5°	2380.6	2370.3
45°	2116.1	2110.2
47.5°	1867.6	1861.8
50°	1638.2	1626.5
52.5°	1413.1	1394.1
55°	1163.2	1150.1
57.5°	892.9	881.2
60°	628.4	615.2
62.5°	447.2	432.6
65°	372.6	361.0
67.5°	337.6	324.4
69°	321.5	309.8
70°	311.3	302.5
72.5°	289.3	283.5
75°	264.5	260.1
77.5°	232.4	225.0
80°	194.4	187.1
82.5°	163.7	156.4
85°	109.6	99.4
87.5°	49.7	43.8
90°	0.0	0.0

(END OF REPORT)