

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: P158030

Luminaire Tested: **VST-E07-LED-E-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158030
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-E07-LED-E-U-RW
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (147) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21807.9 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 172.5
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

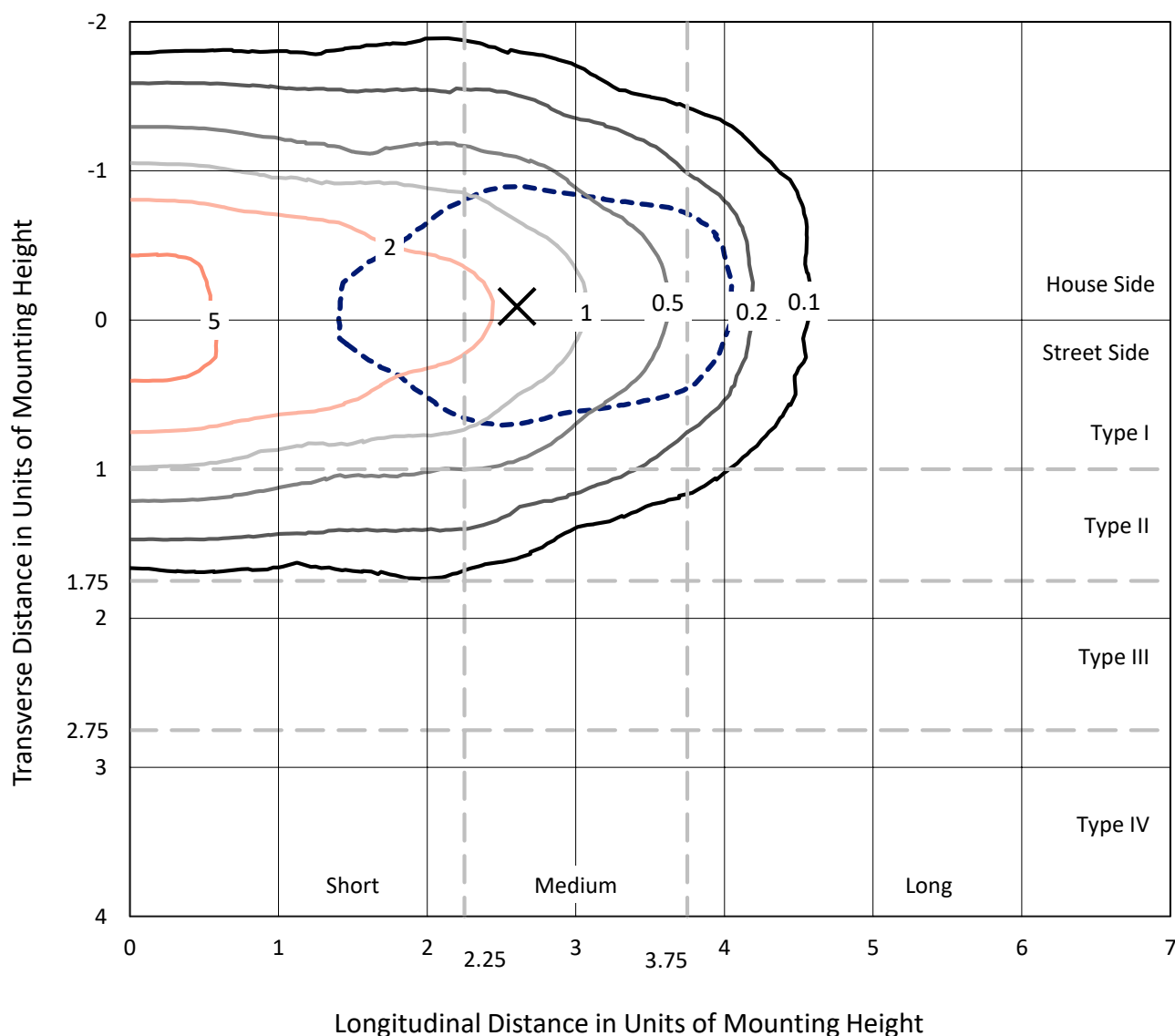


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

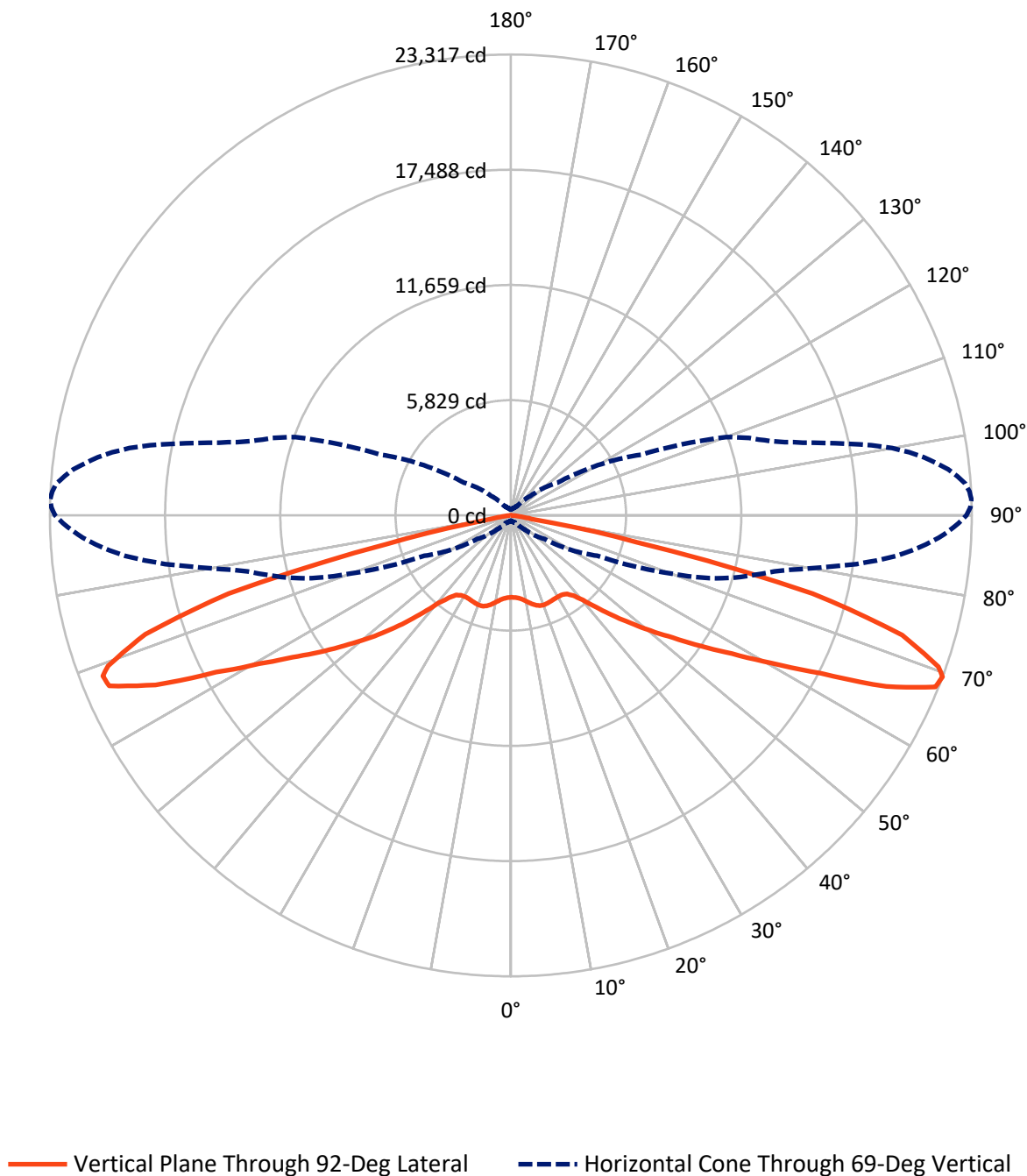


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11565.9	0.0	11565.9
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	10242.0	0.0	10242.0
	% Fixture	47.0	0.0	47.0
Total	Lumens	21807.9	0.0	21807.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.4	1.9
10°-20°	1280.5	5.9
20°-30°	2077.5	9.5
30°-40°	2589.2	11.9
40°-50°	3223.8	14.8
50°-60°	3975.7	18.2
60°-70°	4937.6	22.6
70°-80°	3033.9	13.9
80°-90°	284.3	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°	21807.9	100.0
0°-180°	21807.9	100.0

Coefficient of Utilization



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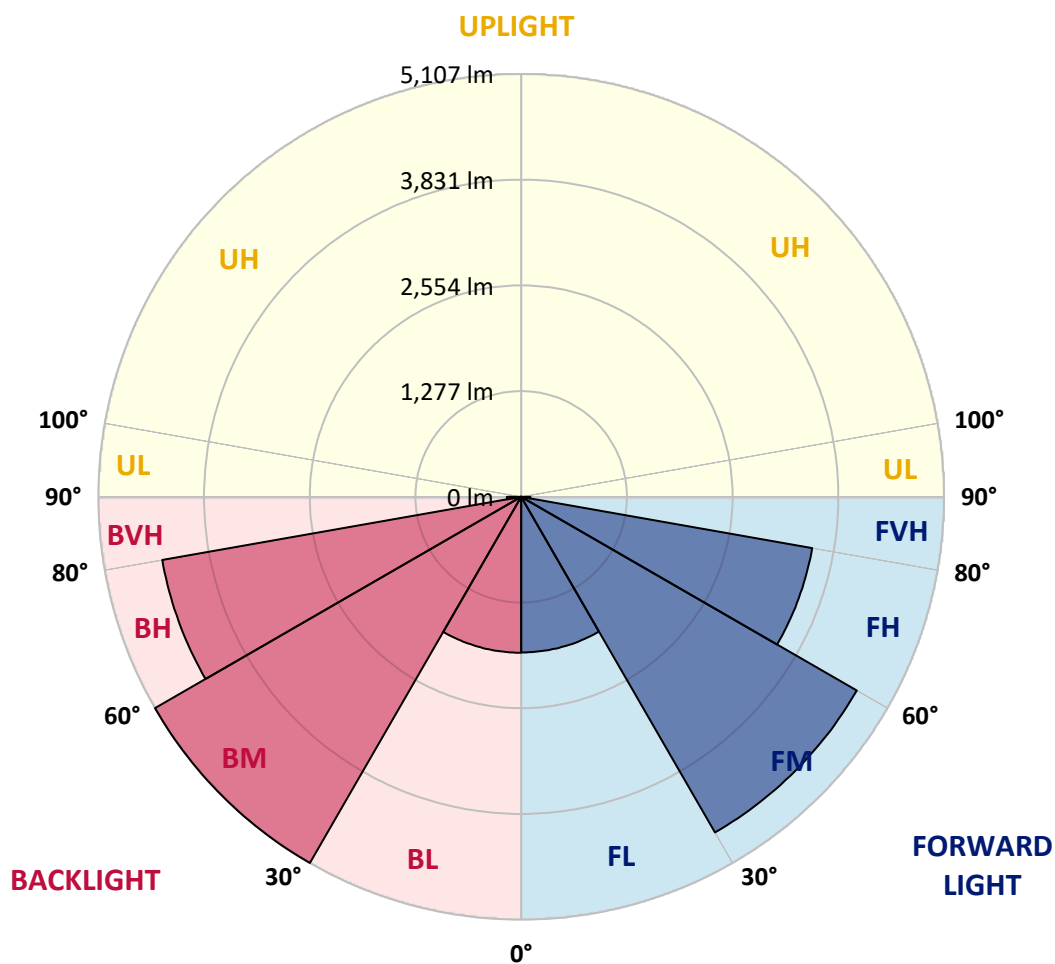
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1879.7	8.6			
FM	(30°-60°)	4681.3	21.5			
FH	(60°-80°)	3569.7	16.4			G2/5000
FVH	(80°-90°)	111.3	0.5			G2/225
BL	(0°-30°)	1883.7	8.6	B3/2500		
BM	(30°-60°)	5107.4	23.4	B4/8500		
BH	(60°-80°)	4401.8	20.2	B4/5000		G4/5000
BVH	(80°-90°)	173.0	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6
2.5°	4208.4	4197.2	4207.0	4208.4	4207.0	4207.0	4194.4	4191.6	4174.8	4179.0	4177.6
5°	4265.8	4261.6	4268.6	4271.4	4274.2	4268.6	4258.8	4254.6	4243.4	4239.2	4237.8
7.5°	4319.0	4312.0	4323.2	4333.0	4340.0	4341.4	4342.8	4335.8	4335.8	4330.2	4330.2
10°	4363.8	4358.2	4376.4	4389.0	4411.4	4424.0	4438.0	4447.8	4453.4	4454.8	4453.4
12.5°	4383.4	4379.2	4408.6	4446.4	4488.4	4517.8	4552.8	4578.0	4585.0	4583.6	4590.6
15°	4349.8	4352.6	4397.4	4471.6	4561.2	4635.4	4684.4	4705.4	4711.0	4713.8	4715.2
17.5°	4258.8	4264.4	4328.8	4449.2	4606.0	4740.4	4813.2	4813.2	4802.0	4802.0	4800.6
20°	4113.2	4118.8	4202.8	4376.4	4607.4	4813.2	4916.8	4895.8	4853.8	4845.4	4837.0
22.5°	3911.6	3934.0	4026.4	4228.0	4547.2	4834.2	4981.2	4950.4	4884.6	4866.4	4853.8
25°	3683.4	3680.6	3791.2	4018.0	4401.6	4783.8	4999.4	4993.8	4923.8	4904.2	4881.8
27.5°	3423.0	3431.4	3533.6	3763.2	4179.0	4638.2	4968.6	5042.8	4985.4	4965.8	4944.8
30°	3155.6	3164.0	3260.6	3528.0	3925.6	4429.6	4905.6	5090.4	5068.0	5052.6	5038.6
32.5°	2886.8	2889.6	3004.4	3291.4	3711.4	4180.4	4810.4	5133.8	5164.6	5157.6	5152.0
35°	2634.8	2637.6	2762.2	3053.4	3500.0	3967.6	4695.6	5196.8	5296.2	5304.6	5310.2
37.5°	2389.8	2394.0	2521.4	2826.6	3291.4	3806.6	4568.2	5293.4	5481.0	5511.8	5517.4
40°	2146.2	2150.4	2272.2	2595.6	3080.0	3665.2	4470.2	5429.2	5730.2	5772.2	5815.6
42.5°	1913.8	1929.2	2032.8	2342.2	2844.8	3490.2	4428.2	5594.4	6025.6	6091.4	6140.4
45°	1696.8	1698.2	1815.8	2105.6	2566.2	3253.6	4400.2	5782.0	6356.0	6455.4	6522.6
47.5°	1464.4	1481.2	1604.4	1885.8	2305.8	2961.0	4310.6	6001.8	6715.8	6832.0	6967.8
50°	1239.0	1262.8	1381.8	1660.4	2067.8	2658.6	4069.8	6259.4	7120.4	7271.6	7428.4
52.5°	1022.0	1020.6	1146.6	1436.4	1828.4	2402.4	3679.2	6529.6	7588.0	7750.4	7919.8
55°	772.8	772.8	897.4	1162.0	1569.4	2174.2	3260.6	6697.6	8022.0	8218.0	8402.8
57.5°	530.6	544.6	662.2	890.4	1299.2	1965.6	2940.0	6601.0	8353.8	8597.4	8817.2
60°	393.4	407.4	494.2	639.8	1016.4	1719.2	2699.2	6146.0	8554.0	8877.4	9163.0
62.5°	340.2	350.0	432.6	512.4	732.2	1457.4	2486.4	5567.8	8842.4	9284.8	9682.4
65°	303.8	313.6	396.2	442.4	572.6	1171.8	2367.4	5237.4	9186.8	9863.0	10439.8
67.5°	281.4	292.6	362.6	396.2	499.8	1059.8	2275.0	5160.4	9184.0	10004.4	10740.8
69°	270.2	278.6	336.0	372.4	483.0	1026.2	2074.8	4825.8	8577.8	9458.4	10197.6
70°	263.2	271.6	320.6	357.0	477.4	966.0	1890.0	4383.4	7887.6	8773.8	9524.2
72.5°	240.8	249.2	285.6	319.2	397.6	645.4	1317.4	2805.6	5636.4	6269.2	7127.4
75°	212.8	222.6	250.6	278.6	301.0	373.8	760.2	1456.0	3222.8	3703.0	4467.4
77.5°	173.6	183.4	212.8	257.6	254.8	284.2	494.2	894.6	1509.2	1871.8	2154.6
80°	142.8	149.8	175.0	260.4	208.6	238.0	400.4	733.6	1062.6	1174.6	1241.8
82.5°	95.2	105.0	135.8	204.4	159.6	169.4	299.6	686.0	898.8	985.6	1066.8
85°	44.8	49.0	82.6	109.2	96.6	91.0	170.8	484.4	669.2	709.8	740.6
87.5°	0.0	0.0	4.2	8.4	12.6	12.6	30.8	102.2	187.6	226.8	224.0
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6
2.5°	4172.0	4173.4	4172.0	4172.0	4170.6	4167.8	4167.8	4165.0	4166.4	4165.0	4167.8
5°	4236.4	4236.4	4232.2	4229.4	4233.6	4229.4	4230.8	4223.8	4223.8	4219.6	4214.0
7.5°	4328.8	4328.8	4330.2	4321.8	4327.4	4328.8	4324.6	4321.8	4319.0	4312.0	4313.4
10°	4452.0	4452.0	4456.2	4445.0	4450.6	4453.4	4454.8	4454.8	4452.0	4439.4	4440.8
12.5°	4589.2	4586.4	4587.8	4582.2	4587.8	4590.6	4593.4	4590.6	4590.6	4587.8	4586.4
15°	4713.8	4712.4	4715.2	4711.0	4712.4	4715.2	4723.6	4722.2	4720.8	4712.4	4712.4
17.5°	4799.2	4795.0	4792.2	4790.8	4790.8	4789.4	4790.8	4790.8	4786.6	4785.2	4785.2
20°	4831.4	4820.2	4813.2	4809.0	4803.4	4800.6	4797.8	4799.2	4796.4	4792.2	4793.6
22.5°	4837.0	4821.6	4807.6	4795.0	4783.8	4776.8	4769.8	4767.0	4760.0	4755.8	4755.8
25°	4863.6	4839.8	4817.4	4796.4	4779.6	4764.2	4748.8	4737.6	4729.2	4719.4	4716.6
27.5°	4922.4	4897.2	4870.6	4844.0	4821.6	4790.8	4769.8	4747.4	4727.8	4712.4	4701.2
30°	5013.4	4988.2	4961.6	4930.8	4901.4	4869.2	4834.2	4807.6	4779.6	4748.8	4732.0
32.5°	5133.8	5117.0	5090.4	5061.0	5034.4	5000.8	4958.8	4918.2	4891.6	4855.2	4828.6
35°	5306.0	5286.4	5278.0	5265.4	5238.8	5217.8	5171.6	5133.8	5108.6	5058.2	5038.6
37.5°	5541.2	5539.8	5546.8	5542.6	5546.8	5520.2	5499.2	5497.8	5461.4	5412.4	5364.8
40°	5861.8	5878.6	5916.4	5943.0	5968.2	5971.0	6000.4	5969.6	5973.8	5966.8	5917.8
42.5°	6227.2	6284.6	6329.4	6407.8	6468.0	6524.0	6561.8	6613.6	6652.8	6687.8	6696.2
45°	6634.6	6720.0	6823.6	6893.6	7011.2	7105.0	7233.8	7333.2	7436.8	7539.0	7575.4
47.5°	7077.0	7183.4	7298.2	7428.4	7576.8	7723.8	7922.6	8075.2	8241.8	8380.4	8503.6
50°	7565.6	7676.2	7830.2	7980.0	8184.4	8353.8	8614.2	8814.4	9083.2	9268.0	9427.6
52.5°	8075.2	8213.8	8386.0	8551.2	8759.8	8976.8	9266.6	9562.0	9885.4	10165.4	10397.8
55°	8573.6	8744.4	8909.6	9102.8	9333.8	9585.8	9913.4	10302.6	10705.8	11026.4	11334.4
57.5°	9017.4	9214.8	9409.4	9605.4	9842.0	10134.6	10502.8	10922.8	11384.8	11811.8	12234.6
60°	9429.0	9665.6	9903.6	10148.6	10420.2	10781.4	11223.8	11740.4	12338.2	12922.0	13475.0
62.5°	10080.0	10390.8	10686.2	11002.6	11330.2	11754.4	12276.6	12954.2	13640.2	14369.6	14936.6
65°	10962.0	11398.8	11785.2	12195.4	12619.6	13186.6	13811.0	14621.6	15604.4	16352.0	17262.0
67.5°	11400.2	11975.6	12472.6	12929.0	13454.0	14026.6	14768.6	15727.6	16776.2	17859.8	18874.8
69°	10885.0	11478.6	12028.8	12539.8	13070.4	13626.2	14401.8	15386.0	16494.8	17666.6	18657.8
70°	10217.2	10810.8	11397.4	11979.8	12464.2	13006.0	13784.4	14799.4	15906.8	17124.8	18107.6
72.5°	7827.4	8541.4	9072.0	9618.0	10179.4	10638.6	11537.4	12392.8	13546.4	14782.6	15864.8
75°	5007.8	5664.4	6244.0	6708.8	7257.6	7807.8	8471.4	9422.0	10144.4	11159.4	12037.2
77.5°	2573.2	2767.8	3326.4	3493.0	3873.8	4173.4	4538.8	4776.8	5364.8	5489.4	6007.4
80°	1219.4	1099.0	1034.6	975.8	992.6	985.6	956.2	917.0	966.0	945.0	936.6
82.5°	1062.6	947.8	756.0	642.6	555.8	471.8	406.0	372.4	376.6	387.8	392.0
85°	744.8	700.0	546.0	414.4	323.4	250.6	201.6	193.2	198.8	214.2	208.6
87.5°	215.6	225.4	198.8	138.6	96.6	70.0	54.6	61.6	58.8	57.4	60.2
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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CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6
2.5°	4167.8	4166.4	4162.2	4158.0	4158.0	4155.2	4158.0	4159.4	4158.0	4158.0	4155.2
5°	4215.4	4216.8	4221.0	4212.6	4211.2	4212.6	4207.0	4205.6	4201.4	4205.6	4200.0
7.5°	4306.4	4310.6	4310.6	4305.0	4303.6	4307.8	4299.4	4296.6	4292.4	4291.0	4289.6
10°	4442.2	4446.4	4439.4	4435.2	4431.0	4436.6	4429.6	4429.6	4425.4	4421.2	4419.8
12.5°	4593.4	4590.6	4587.8	4590.6	4586.4	4586.4	4582.2	4579.4	4578.0	4576.6	4573.8
15°	4711.0	4720.8	4720.8	4723.6	4720.8	4720.8	4715.2	4716.6	4713.8	4712.4	4713.8
17.5°	4786.6	4789.4	4796.4	4800.6	4800.6	4802.0	4799.2	4802.0	4799.2	4799.2	4804.8
20°	4796.4	4799.2	4806.2	4813.2	4817.4	4820.2	4820.2	4824.4	4827.2	4830.0	4837.0
22.5°	4757.2	4761.4	4769.8	4782.4	4789.4	4792.2	4797.8	4804.8	4811.8	4817.4	4827.2
25°	4716.6	4718.0	4726.4	4739.0	4747.4	4754.4	4764.2	4772.6	4782.4	4793.6	4804.8
27.5°	4694.2	4692.8	4699.8	4712.4	4719.4	4729.2	4737.6	4750.2	4761.4	4775.4	4785.2
30°	4713.8	4702.6	4704.0	4709.6	4715.2	4722.2	4732.0	4743.2	4755.8	4768.4	4779.6
32.5°	4800.6	4775.4	4758.6	4754.4	4755.8	4757.2	4762.8	4769.8	4779.6	4789.4	4793.6
35°	4988.2	4944.8	4922.4	4904.2	4888.8	4876.2	4879.0	4877.6	4877.6	4886.0	4876.2
37.5°	5345.2	5290.6	5266.8	5234.6	5216.4	5170.2	5157.6	5154.8	5136.6	5136.6	5115.6
40°	5905.2	5873.0	5854.8	5825.4	5737.2	5748.4	5685.4	5686.8	5635.0	5640.6	5604.2
42.5°	6701.8	6706.0	6683.6	6664.0	6595.4	6564.6	6505.8	6421.8	6356.0	6354.6	6281.8
45°	7623.0	7673.4	7602.0	7627.2	7567.0	7484.4	7415.8	7308.0	7205.8	7173.6	7099.4
47.5°	8586.2	8668.8	8614.2	8624.0	8594.6	8477.0	8384.6	8251.6	8118.6	8029.0	7984.2
50°	9615.2	9669.8	9668.4	9641.8	9627.8	9513.0	9364.6	9263.8	9165.8	9045.4	9006.2
52.5°	10547.6	10675.0	10760.4	10740.8	10700.2	10631.6	10500.0	10413.2	10269.0	10252.2	10269.0
55°	11545.8	11711.0	11797.8	11902.8	11904.2	11891.6	11837.0	11804.8	11670.4	11685.8	11666.2
57.5°	12490.8	12733.0	12866.0	13090.0	13167.0	13269.2	13231.4	13273.4	13192.2	13245.4	13230.0
60°	13771.8	14107.8	14329.0	14635.6	14778.4	15034.6	15085.0	15115.8	15160.6	15269.8	15208.2
62.5°	15383.2	15876.0	16335.2	16752.4	16889.6	17274.6	17337.6	17578.4	17591.0	17665.2	17529.4
65°	18020.8	18621.4	19126.8	19626.6	19915.0	20365.8	20547.8	21015.4	20872.6	20932.8	20643.0
67.5°	19748.4	20447.0	21124.6	21597.8	22076.6	22537.2	22869.0	23171.4	23168.6	23109.8	22852.2
69°	19595.8	20374.2	21042.0	21676.2	22180.2	22653.4	23052.4	23248.4	23317.0	23231.6	23048.2
70°	19068.0	19867.4	20685.0	21207.2	21756.0	22275.4	22687.0	22901.2	22948.8	22888.6	22730.4
72.5°	16629.2	17396.4	18298.0	18772.6	19436.2	19811.4	20378.4	20655.6	20704.6	20627.6	20524.0
75°	12978.0	13116.6	14035.0	14337.4	14819.0	15251.6	15604.4	15514.8	15765.4	15716.4	15677.2
77.5°	6113.8	5744.2	6339.2	6616.4	6470.8	6083.0	6647.2	6239.8	6510.0	6861.4	6771.8
80°	1008.0	1005.2	1031.8	1090.6	1020.6	1083.6	1082.2	1051.4	1054.2	1129.8	1090.6
82.5°	387.8	396.2	400.4	411.6	411.6	413.0	420.0	428.4	421.4	435.4	432.6
85°	210.0	224.0	211.4	201.6	208.6	212.8	218.4	225.4	218.4	239.4	228.2
87.5°	54.6	57.4	50.4	50.4	49.0	44.8	44.8	47.6	51.8	61.6	67.2
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-E07-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6
2.5°	4149.6	4151.0	4152.4	4148.2	4145.4	4145.4	4144.0	4141.2	4139.8	4139.8	4139.8
5°	4197.2	4200.0	4193.0	4191.6	4188.8	4186.0	4186.0	4183.2	4184.6	4184.6	4177.6
7.5°	4292.4	4288.2	4279.8	4274.2	4279.8	4270.0	4265.8	4268.6	4265.8	4267.2	4264.4
10°	4419.8	4419.8	4410.0	4415.6	4408.6	4397.4	4401.6	4397.4	4394.6	4384.8	4390.4
12.5°	4578.0	4573.8	4568.2	4555.6	4551.4	4550.0	4537.4	4538.8	4534.6	4531.8	4527.6
15°	4716.6	4715.2	4702.6	4695.6	4694.2	4688.6	4683.0	4680.2	4673.2	4671.8	4669.0
17.5°	4809.0	4804.8	4799.2	4792.2	4792.2	4783.8	4781.0	4774.0	4772.6	4768.4	4764.2
20°	4839.8	4841.2	4835.6	4830.0	4827.2	4821.6	4817.4	4811.8	4809.0	4803.4	4799.2
22.5°	4832.8	4832.8	4827.2	4825.8	4820.2	4811.8	4806.2	4799.2	4792.2	4785.2	4776.8
25°	4810.4	4809.0	4804.8	4797.8	4790.8	4778.2	4767.0	4755.8	4746.0	4737.6	4725.0
27.5°	4790.8	4788.0	4779.6	4769.8	4755.8	4741.8	4720.8	4705.4	4692.8	4681.6	4667.6
30°	4783.8	4774.0	4761.4	4746.0	4729.2	4708.2	4685.8	4666.2	4652.2	4641.0	4635.4
32.5°	4792.2	4779.6	4760.0	4740.4	4719.4	4694.2	4671.8	4655.0	4642.4	4639.6	4639.6
35°	4869.2	4848.2	4821.6	4793.6	4767.0	4746.0	4730.6	4729.2	4720.8	4730.6	4746.0
37.5°	5094.6	5076.4	5035.8	4999.4	4981.2	4971.4	4957.4	4960.2	4940.6	4971.4	4996.6
40°	5573.4	5551.0	5503.4	5474.0	5437.6	5402.6	5430.6	5422.2	5436.2	5430.6	5457.2
42.5°	6272.0	6249.6	6174.0	6162.8	6147.4	6133.4	6133.4	6122.2	6116.6	6136.2	6113.8
45°	7121.8	7077.0	7049.0	7082.6	7036.4	7050.4	7099.4	7033.6	7049.0	6958.0	6874.0
47.5°	8003.8	7999.6	7992.6	8033.2	8040.2	8061.2	8087.8	8020.6	7898.8	7830.2	7659.4
50°	9018.8	9062.2	9079.0	9118.2	9135.0	9150.4	9108.4	9009.0	8803.2	8621.2	8419.6
52.5°	10252.2	10176.6	10280.2	10318.0	10301.2	10239.6	10088.4	9966.6	9682.4	9420.6	9108.4
55°	11688.6	11706.8	11634.0	11604.6	11547.2	11376.4	11167.8	10893.4	10533.6	10192.0	9797.2
57.5°	13151.6	13144.6	13031.2	12871.6	12677.0	12471.2	12160.4	11767.0	11347.0	10887.8	10410.4
60°	14931.0	14924.0	14694.4	14421.4	14144.2	13812.4	13325.2	12852.0	12289.2	11685.8	11117.4
62.5°	17269.0	16968.0	16742.6	16335.2	15906.8	15472.8	14813.4	14184.8	13433.0	12671.4	12007.8
65°	20265.0	19769.4	19513.2	18922.4	18258.8	17581.2	16910.6	16084.6	15072.4	14151.2	13340.6
67.5°	22481.2	22027.6	21558.6	20969.2	20241.2	19485.2	18566.8	17526.6	16377.2	15344.0	14460.6
69°	22675.8	22251.6	21688.8	21098.0	20409.2	19587.4	18585.0	17420.2	16255.4	15209.6	14340.2
70°	22380.4	21929.6	21337.4	20722.8	19952.8	19177.2	18127.2	16913.4	15747.2	14698.6	13850.2
72.5°	20176.8	19737.2	19107.2	18372.2	17582.6	16919.0	15922.2	14656.6	13388.2	12419.4	11758.6
75°	15342.6	15246.0	14799.4	14371.0	13749.4	13008.8	12097.4	11246.2	10206.0	9181.2	8565.2
77.5°	6546.4	6769.0	7001.4	7035.0	7057.4	6829.2	6687.8	6473.6	5777.8	5461.4	5135.2
80°	1209.6	1080.8	1153.6	1162.0	1209.6	1234.8	1327.2	1573.6	1601.6	1661.8	1736.0
82.5°	429.8	436.8	448.0	452.2	456.4	473.2	536.2	642.6	739.2	865.2	1033.2
85°	243.6	247.8	257.6	266.0	271.6	288.4	323.4	386.4	481.6	625.8	848.4
87.5°	74.2	84.0	89.6	100.8	105.0	107.8	123.2	165.2	212.8	315.0	459.2
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-E07-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6
2.5°	4139.8	4138.4	4135.6	4132.8	4134.2	4131.4	4123.0	4120.2	4110.4	4103.4	4097.8
5°	4177.6	4176.2	4170.6	4172.0	4170.6	4156.6	4146.8	4130.0	4120.2	4104.8	4099.2
7.5°	4256.0	4254.6	4244.8	4249.0	4246.2	4225.2	4208.4	4181.8	4167.8	4148.2	4132.8
10°	4373.6	4373.6	4362.4	4363.8	4363.8	4335.8	4306.4	4261.6	4229.4	4198.6	4172.0
12.5°	4516.4	4510.8	4509.4	4502.4	4496.8	4466.0	4421.2	4361.0	4300.8	4250.4	4214.0
15°	4660.6	4652.2	4648.0	4639.6	4632.6	4604.6	4544.4	4470.2	4389.0	4307.8	4247.6
17.5°	4754.4	4748.8	4740.4	4737.6	4727.8	4699.8	4657.8	4583.6	4482.8	4369.4	4278.4
20°	4789.4	4779.6	4774.0	4768.4	4762.8	4743.2	4743.2	4695.6	4583.6	4424.0	4285.4
22.5°	4767.0	4761.4	4753.0	4748.8	4743.2	4746.0	4800.6	4793.6	4664.8	4436.6	4235.0
25°	4715.2	4708.2	4701.2	4701.2	4699.8	4729.2	4860.8	4879.0	4688.6	4375.0	4124.4
27.5°	4662.0	4652.2	4655.0	4656.4	4663.4	4726.4	4926.6	4901.4	4624.2	4226.6	3934.0
30°	4629.8	4629.8	4636.8	4648.0	4662.0	4772.6	4978.4	4851.0	4457.6	4002.6	3682.0
32.5°	4643.8	4657.8	4673.2	4701.2	4722.2	4874.8	4996.6	4720.8	4215.4	3725.4	3418.8
35°	4768.4	4785.2	4814.6	4858.0	4883.2	5021.8	4996.6	4530.4	3934.0	3487.4	3147.2
37.5°	5040.0	5056.8	5091.8	5125.4	5150.6	5206.6	4975.6	4288.2	3698.8	3241.0	2903.6
40°	5476.8	5500.6	5525.8	5520.2	5503.4	5448.8	4933.6	4062.8	3481.8	3025.4	2664.2
42.5°	6091.4	6069.0	6066.2	6011.6	5955.6	5721.8	4902.8	3915.8	3295.6	2798.6	2426.2
45°	6801.2	6710.2	6616.4	6543.6	6458.2	6021.4	4894.4	3796.8	3089.8	2546.6	2167.2
47.5°	7515.2	7369.6	7187.6	7074.2	6935.6	6340.6	4919.6	3637.2	2825.2	2272.2	1925.0
50°	8215.2	7977.2	7751.8	7616.0	7459.2	6707.4	4960.2	3368.4	2508.8	2023.0	1703.8
52.5°	8863.4	8556.8	8325.8	8166.2	7974.4	7134.4	4923.8	3015.6	2234.4	1783.6	1493.8
55°	9479.4	9140.6	8901.2	8733.2	8507.8	7562.8	4660.6	2695.0	1972.6	1549.8	1257.2
57.5°	10018.4	9693.6	9444.4	9216.2	9025.8	7935.2	4141.2	2430.4	1720.6	1282.4	1001.0
60°	10648.4	10283.0	9987.6	9744.0	9520.0	8127.0	3558.8	2195.2	1451.8	992.6	723.8
62.5°	11498.2	11078.2	10736.6	10458.0	10165.4	8169.0	3161.2	1960.0	1152.2	718.2	526.4
65°	12758.2	12240.2	11813.2	11429.6	11033.4	7995.4	2965.2	1703.8	856.8	533.4	441.0
67.5°	13759.2	13221.6	12727.4	12234.6	11727.8	7673.4	2921.8	1467.2	658.0	453.6	396.2
69°	13637.4	13125.0	12671.4	12138.0	11576.6	7268.8	2878.4	1376.2	600.6	421.4	375.2
70°	13168.4	12682.6	12222.0	11788.0	11100.6	6818.0	2763.6	1325.8	578.2	406.0	359.8
72.5°	11127.2	10564.4	10117.8	9577.4	8853.6	5066.6	2095.8	1072.4	530.6	371.0	324.8
75°	8115.8	7649.6	7204.4	6606.6	5902.4	2931.6	1304.8	613.2	389.2	336.0	294.0
77.5°	4739.0	4634.0	4204.2	3810.8	3113.6	1492.4	749.0	366.8	302.4	305.2	259.0
80°	1783.6	1899.8	1943.2	1807.4	1670.2	1030.4	544.6	298.2	263.2	301.0	219.8
82.5°	1300.6	1509.2	1534.4	1470.0	1367.8	960.4	435.4	239.4	214.2	323.4	189.0
85°	1085.0	1201.2	1219.4	1152.2	1118.6	813.4	303.8	168.0	156.8	232.4	141.4
87.5°	548.8	578.2	593.6	537.6	540.4	379.4	121.8	71.4	85.4	99.4	78.4
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: P158030

CATALOG NUMBER: VST-E07-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	4142.6	4142.6
2.5°	4085.2	4093.6
5°	4090.8	4090.8
7.5°	4123.0	4123.0
10°	4158.0	4159.4
12.5°	4190.2	4188.8
15°	4215.4	4211.2
17.5°	4230.8	4226.6
20°	4215.4	4208.4
22.5°	4137.0	4117.4
25°	3994.2	3969.0
27.5°	3805.2	3788.4
30°	3558.8	3533.6
32.5°	3270.4	3257.8
35°	2994.6	2979.2
37.5°	2742.6	2738.4
40°	2529.8	2507.4
42.5°	2280.6	2270.8
45°	2027.2	2021.6
47.5°	1789.2	1783.6
50°	1569.4	1558.2
52.5°	1353.8	1335.6
55°	1114.4	1101.8
57.5°	855.4	844.2
60°	602.0	589.4
62.5°	428.4	414.4
65°	357.0	345.8
67.5°	323.4	310.8
69°	308.0	296.8
70°	298.2	289.8
72.5°	277.2	271.6
75°	253.4	249.2
77.5°	222.6	215.6
80°	186.2	179.2
82.5°	156.8	149.8
85°	105.0	95.2
87.5°	47.6	42.0
90°	0.0	0.0

(END OF REPORT)