

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: P158031

Luminaire Tested: **VST-E07-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158031
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-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (147) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22377.2 lumens
Efficiency: N/A
Efficacy: 129.7 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

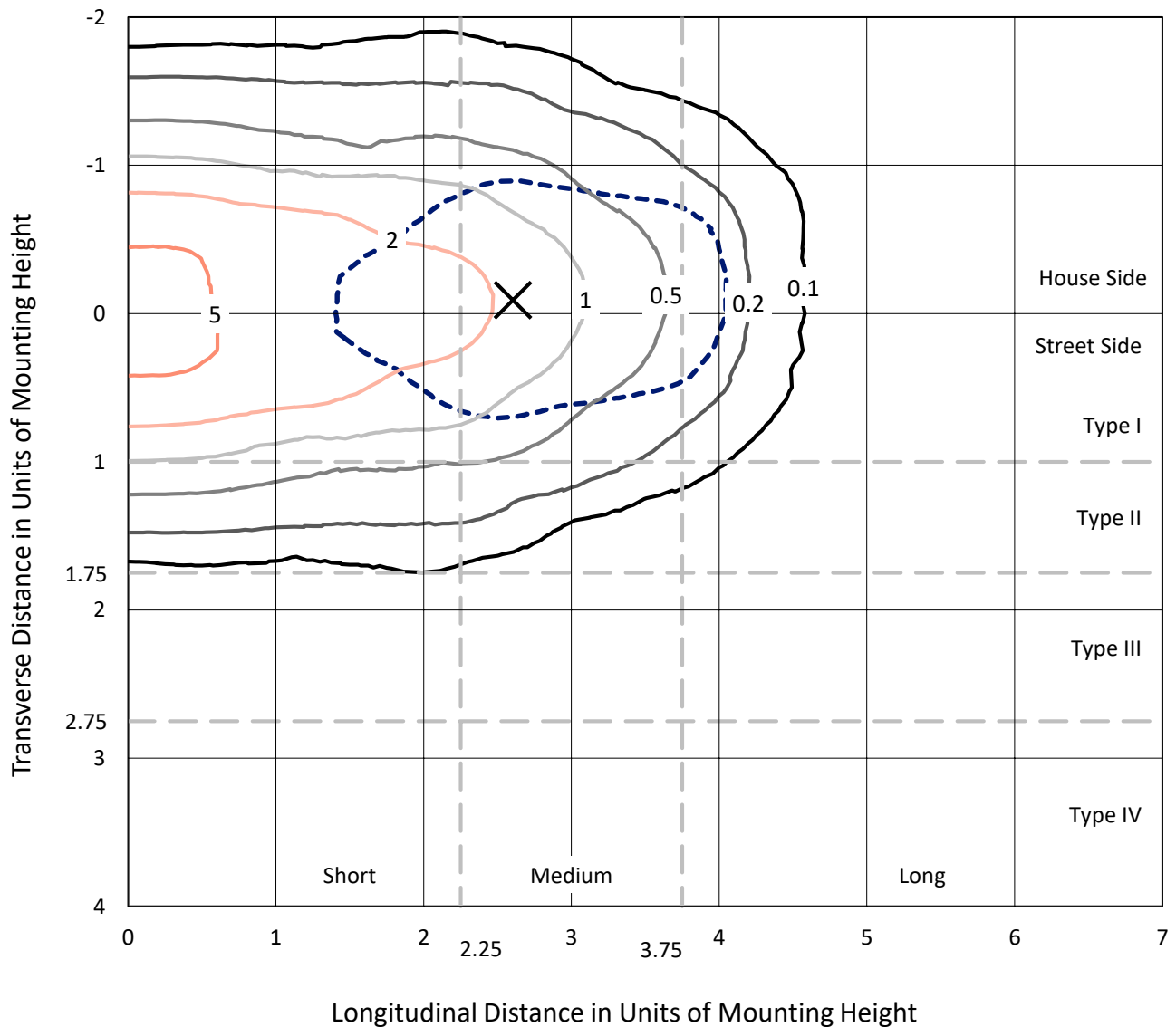
Input Watts (W): 172.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

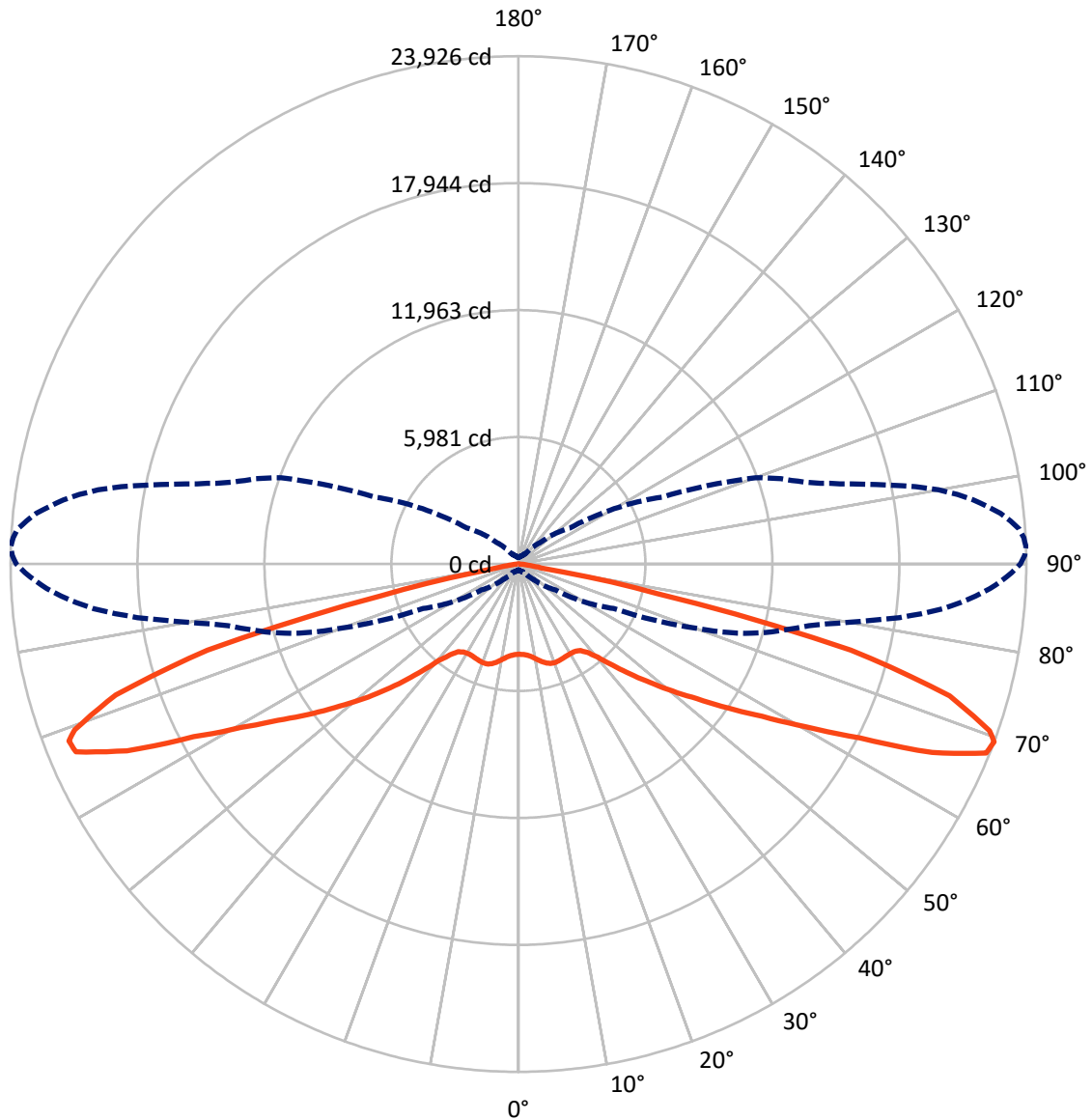
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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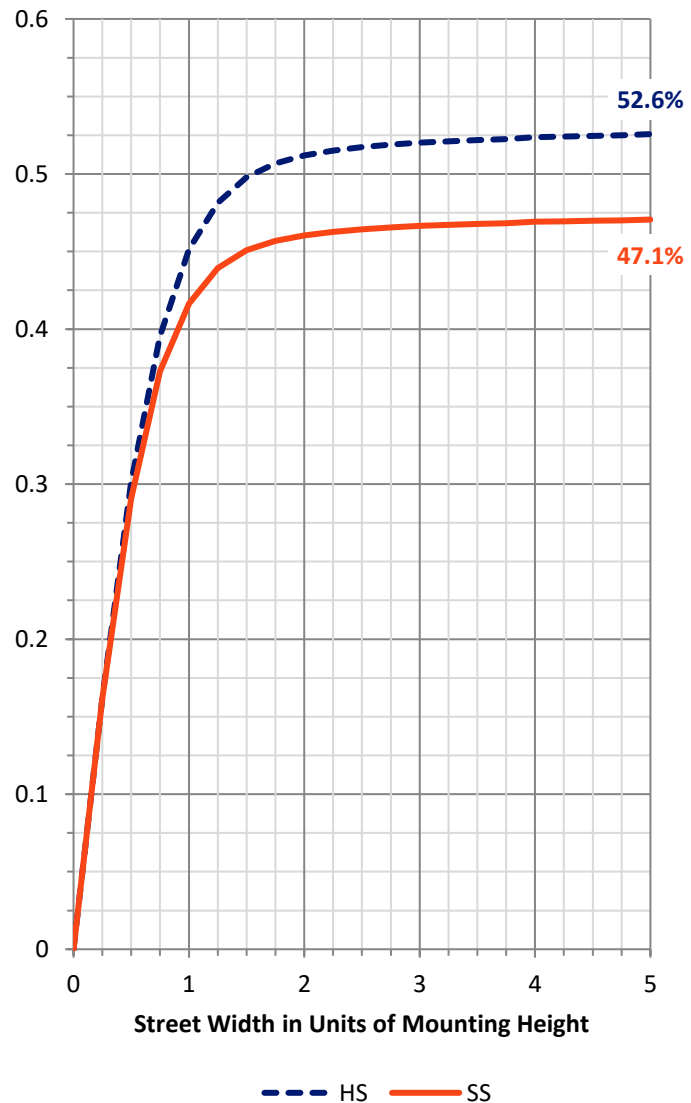
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11867.8	0.0	11867.8
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	10509.4	0.0	10509.4
	% Fixture	47.0	0.0	47.0
Total	Lumens	22377.2	0.0	22377.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.9	1.9
10°-20°	1314.0	5.9
20°-30°	2131.8	9.5
30°-40°	2656.8	11.9
40°-50°	3307.9	14.8
50°-60°	4079.5	18.2
60°-70°	5066.5	22.6
70°-80°	3113.1	13.9
80°-90°	291.8	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°	22377.2	100.0
0°-180°	22377.2	100.0



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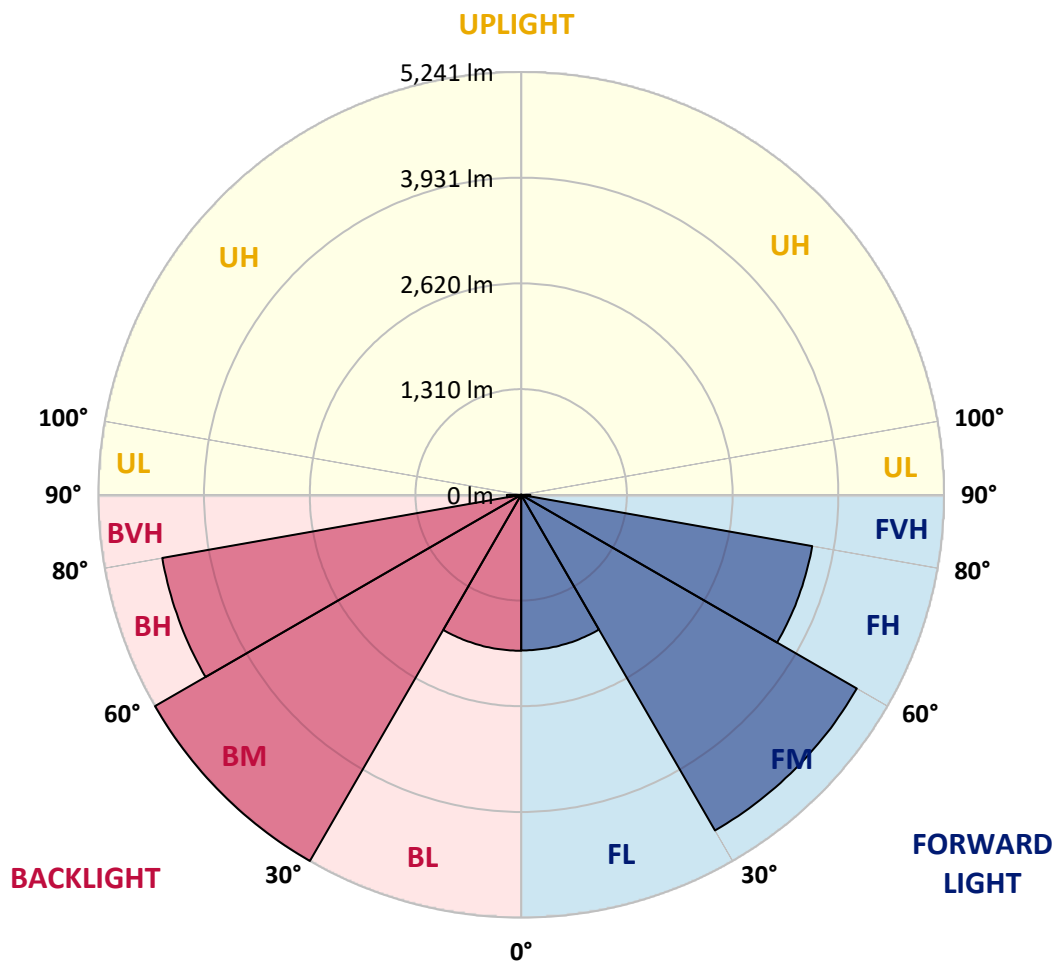
CATALOG NUMBER: VST-E07-LED-E-U-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1928.8	8.6			
FM	(30°-60°)	4803.5	21.5			
FH	(60°-80°)	3662.9	16.4			G2/5000
FVH	(80°-90°)	114.2	0.5			G2/225
BL	(0°-30°)	1932.9	8.6	B3/2500		
BM	(30°-60°)	5240.7	23.4	B4/8500		
BH	(60°-80°)	4516.7	20.2	B4/5000		G4/5000
BVH	(80°-90°)	177.5	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°	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7
2.5°	4318.3	4306.8	4316.8	4318.3	4316.8	4316.8	4303.9	4301.0	4283.8	4288.1	4286.7
5°	4377.2	4372.9	4380.0	4382.9	4385.8	4380.0	4370.0	4365.7	4354.2	4349.9	4348.4
7.5°	4431.7	4424.6	4436.1	4446.1	4453.3	4454.7	4456.2	4449.0	4449.0	4443.2	4443.2
10°	4477.7	4472.0	4490.6	4503.6	4526.6	4539.5	4553.9	4563.9	4569.7	4571.1	4569.7
12.5°	4497.8	4493.5	4523.7	4562.5	4605.6	4635.7	4671.7	4697.5	4704.7	4703.3	4710.4
15°	4463.4	4466.2	4512.2	4588.3	4680.3	4756.4	4806.7	4828.2	4834.0	4836.9	4838.3
17.5°	4370.0	4375.7	4441.8	4565.3	4726.2	4864.2	4938.9	4938.9	4927.4	4927.4	4925.9
20°	4220.6	4226.3	4312.5	4490.6	4727.7	4938.9	5045.2	5023.6	4980.5	4971.9	4963.3
22.5°	4013.7	4036.7	4131.5	4338.4	4665.9	4960.4	5111.2	5079.6	5012.1	4993.4	4980.5
25°	3779.6	3776.7	3890.2	4122.9	4516.5	4908.7	5129.9	5124.2	5052.3	5032.2	5009.2
27.5°	3512.4	3521.0	3625.8	3861.4	4288.1	4759.3	5098.3	5174.4	5115.5	5095.4	5073.9
30°	3238.0	3246.6	3345.7	3620.1	4028.1	4545.2	5033.7	5223.3	5200.3	5184.5	5170.1
32.5°	2962.2	2965.0	3082.8	3377.3	3808.3	4289.5	4936.0	5267.8	5299.4	5292.2	5286.5
35°	2703.6	2706.5	2834.3	3133.1	3591.4	4071.2	4818.2	5332.5	5434.5	5443.1	5448.8
37.5°	2452.2	2456.5	2587.2	2900.4	3377.3	3906.0	4687.5	5431.6	5624.1	5655.7	5661.4
40°	2202.2	2206.5	2331.5	2663.4	3160.4	3760.9	4586.9	5570.9	5879.8	5922.9	5967.4
42.5°	1963.8	1979.6	2085.9	2403.3	2919.1	3581.3	4543.8	5740.4	6182.9	6250.4	6300.7
45°	1741.1	1742.5	1863.2	2160.6	2633.2	3338.5	4515.1	5932.9	6521.9	6623.9	6692.9
47.5°	1502.6	1519.9	1646.3	1935.0	2366.0	3038.3	4423.1	6158.5	6891.1	7010.4	7149.7
50°	1271.3	1295.8	1417.9	1703.7	2121.8	2728.0	4176.0	6422.8	7306.3	7461.4	7622.3
52.5°	1048.7	1047.2	1176.5	1473.9	1876.1	2465.1	3775.2	6700.1	7786.1	7952.7	8126.5
55°	793.0	793.0	920.8	1192.3	1610.4	2231.0	3345.7	6872.4	8231.4	8432.5	8622.2
57.5°	544.5	558.8	679.5	913.6	1333.1	2016.9	3016.8	6773.3	8571.9	8821.8	9047.4
60°	403.7	418.0	507.1	656.5	1042.9	1764.1	2769.7	6306.4	8777.3	9109.1	9402.2
62.5°	349.1	359.1	443.9	525.8	751.3	1495.4	2551.3	5713.1	9073.2	9527.2	9935.2
65°	311.7	321.8	406.5	453.9	587.5	1202.4	2429.2	5374.1	9426.6	10120.5	10712.3
67.5°	288.7	300.2	372.1	406.5	512.8	1087.5	2334.4	5295.1	9423.8	10265.6	11021.2
69°	277.3	285.9	344.8	382.1	495.6	1053.0	2129.0	4951.8	8801.7	9705.3	10463.8
70°	270.1	278.7	329.0	366.3	489.9	991.2	1939.3	4497.8	8093.5	9002.8	9772.8
72.5°	247.1	255.7	293.1	327.5	408.0	662.2	1351.8	2878.8	5783.5	6432.9	7313.5
75°	218.4	228.4	257.1	285.9	308.9	383.6	780.0	1494.0	3306.9	3799.7	4584.0
77.5°	178.1	188.2	218.4	264.3	261.5	291.6	507.1	918.0	1548.6	1920.7	2210.8
80°	146.5	153.7	179.6	267.2	214.0	244.2	410.9	752.8	1090.3	1205.3	1274.2
82.5°	97.7	107.7	139.3	209.7	163.8	173.8	307.4	703.9	922.3	1011.3	1094.6
85°	46.0	50.3	84.8	112.1	99.1	93.4	175.3	497.0	686.7	728.3	759.9
87.5°	0.0	0.0	4.3	8.6	12.9	12.9	31.6	104.9	192.5	232.7	229.8
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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CATALOG NUMBER: VST-E07-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7
2.5°	4280.9	4282.3	4280.9	4280.9	4279.5	4276.6	4276.6	4273.7	4275.2	4273.7	4276.6
5°	4347.0	4347.0	4342.7	4339.8	4344.1	4339.8	4341.2	4334.1	4334.1	4329.8	4324.0
7.5°	4441.8	4441.8	4443.2	4434.6	4440.4	4441.8	4437.5	4434.6	4431.7	4424.6	4426.0
10°	4568.2	4568.2	4572.5	4561.0	4566.8	4569.7	4571.1	4571.1	4568.2	4555.3	4556.7
12.5°	4709.0	4706.1	4707.6	4701.8	4707.6	4710.4	4713.3	4710.4	4710.4	4707.6	4706.1
15°	4836.9	4835.4	4838.3	4834.0	4835.4	4838.3	4846.9	4845.5	4844.0	4835.4	4835.4
17.5°	4924.5	4920.2	4917.3	4915.9	4915.9	4914.4	4915.9	4915.9	4911.6	4910.1	4910.1
20°	4957.5	4946.0	4938.9	4934.5	4928.8	4925.9	4923.0	4924.5	4921.6	4917.3	4918.7
22.5°	4963.3	4947.5	4933.1	4920.2	4908.7	4901.5	4894.3	4891.4	4884.3	4880.0	4880.0
25°	4990.6	4966.1	4943.2	4921.6	4904.4	4888.6	4872.8	4861.3	4852.7	4842.6	4839.7
27.5°	5050.9	5025.0	4997.7	4970.5	4947.5	4915.9	4894.3	4871.3	4851.2	4835.4	4823.9
30°	5144.3	5118.4	5091.1	5059.5	5029.4	4996.3	4960.4	4933.1	4904.4	4872.8	4855.5
32.5°	5267.8	5250.6	5223.3	5193.1	5165.8	5131.3	5088.3	5046.6	5019.3	4981.9	4954.7
35°	5444.5	5424.4	5415.8	5402.9	5375.6	5354.0	5306.6	5267.8	5242.0	5190.2	5170.1
37.5°	5685.9	5684.4	5691.6	5687.3	5691.6	5664.3	5642.8	5641.3	5604.0	5553.7	5504.9
40°	6014.8	6032.1	6070.9	6098.1	6124.0	6126.9	6157.0	6125.4	6129.7	6122.6	6072.3
42.5°	6389.8	6448.7	6494.6	6575.1	6636.8	6694.3	6733.1	6786.3	6826.5	6862.4	6871.0
45°	6807.8	6895.4	7001.7	7073.6	7194.2	7290.5	7422.6	7524.6	7630.9	7735.8	7773.2
47.5°	7261.7	7370.9	7488.7	7622.3	7774.6	7925.4	8129.4	8286.0	8457.0	8599.2	8725.6
50°	7763.1	7876.6	8034.6	8188.3	8398.1	8571.9	8839.1	9044.5	9320.3	9509.9	9673.7
52.5°	8286.0	8428.2	8604.9	8774.4	8988.5	9211.1	9508.5	9811.6	10143.5	10430.8	10669.2
55°	8797.4	8972.7	9142.2	9340.4	9577.5	9836.0	10172.2	10571.6	10985.3	11314.2	11630.3
57.5°	9252.8	9455.4	9655.0	9856.2	10098.9	10399.2	10777.0	11207.9	11682.0	12120.2	12554.0
60°	9675.1	9917.9	10162.1	10413.5	10692.2	11062.9	11516.8	12046.9	12660.3	13259.3	13826.8
62.5°	10343.1	10662.1	10965.2	11289.8	11626.0	12061.3	12597.1	13292.4	13996.3	14744.7	15326.5
65°	11248.2	11696.4	12092.9	12513.8	12949.0	13530.8	14171.5	15003.3	16011.8	16778.9	17712.6
67.5°	11697.8	12288.2	12798.2	13266.5	13805.2	14392.8	15154.1	16138.2	17214.2	18326.0	19367.5
69°	11169.2	11778.3	12342.8	12867.2	13411.6	13981.9	14777.8	15787.7	16925.4	18127.8	19144.9
70°	10483.9	11093.0	11694.9	12292.5	12789.6	13345.5	14144.2	15185.7	16322.1	17571.9	18580.3
72.5°	8031.7	8764.4	9308.8	9869.1	10445.1	10916.3	11838.6	12716.3	13900.0	15168.5	16279.0
75°	5138.5	5812.3	6407.0	6883.9	7447.1	8011.6	8692.5	9668.0	10409.2	11450.7	12351.4
77.5°	2640.4	2840.1	3413.2	3584.2	3974.9	4282.3	4657.3	4901.5	5504.9	5632.7	6164.2
80°	1251.2	1127.7	1061.6	1001.3	1018.5	1011.3	981.2	940.9	991.2	969.7	961.1
82.5°	1090.3	972.5	775.7	659.4	570.3	484.1	416.6	382.1	386.4	397.9	402.2
85°	764.2	718.3	560.3	425.2	331.8	257.1	206.9	198.2	204.0	219.8	214.0
87.5°	221.2	231.3	204.0	142.2	99.1	71.8	56.0	63.2	60.3	58.9	61.8
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°	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7
2.5°	4276.6	4275.2	4270.9	4266.5	4266.5	4263.7	4266.5	4268.0	4266.5	4266.5	4263.7
5°	4325.4	4326.9	4331.2	4322.6	4321.1	4322.6	4316.8	4315.4	4311.1	4315.4	4309.6
7.5°	4418.8	4423.1	4423.1	4417.4	4415.9	4420.3	4411.6	4408.8	4404.5	4403.0	4401.6
10°	4558.2	4562.5	4555.3	4551.0	4546.7	4552.4	4545.2	4545.2	4540.9	4536.6	4535.2
12.5°	4713.3	4710.4	4707.6	4710.4	4706.1	4706.1	4701.8	4698.9	4697.5	4696.1	4693.2
15°	4834.0	4844.0	4844.0	4846.9	4844.0	4844.0	4838.3	4839.7	4836.9	4835.4	4836.9
17.5°	4911.6	4914.4	4921.6	4925.9	4925.9	4927.4	4924.5	4927.4	4924.5	4924.5	4930.2
20°	4921.6	4924.5	4931.7	4938.9	4943.2	4946.0	4946.0	4950.3	4953.2	4956.1	4963.3
22.5°	4881.4	4885.7	4894.3	4907.2	4914.4	4917.3	4923.0	4930.2	4937.4	4943.2	4953.2
25°	4839.7	4841.2	4849.8	4862.7	4871.3	4878.5	4888.6	4897.2	4907.2	4918.7	4930.2
27.5°	4816.7	4815.3	4822.5	4835.4	4842.6	4852.7	4861.3	4874.2	4885.7	4900.1	4910.1
30°	4836.9	4825.4	4826.8	4832.5	4838.3	4845.5	4855.5	4867.0	4880.0	4892.9	4904.4
32.5°	4925.9	4900.1	4882.8	4878.5	4880.0	4881.4	4887.1	4894.3	4904.4	4914.4	4918.7
35°	5118.4	5073.9	5050.9	5032.2	5016.4	5003.5	5006.4	5004.9	5004.9	5013.6	5003.5
37.5°	5484.7	5428.7	5404.3	5371.3	5352.6	5305.2	5292.2	5289.4	5270.7	5270.7	5249.1
40°	6059.4	6026.3	6007.6	5977.5	5887.0	5898.5	5833.8	5835.3	5782.1	5787.9	5750.5
42.5°	6876.8	6881.1	6858.1	6838.0	6767.6	6736.0	6675.6	6589.4	6521.9	6520.5	6445.8
45°	7822.0	7873.7	7800.5	7826.3	7764.5	7679.8	7609.4	7498.8	7393.9	7360.9	7284.7
47.5°	8810.3	8895.1	8839.1	8849.1	8819.0	8698.3	8603.5	8467.0	8330.5	8238.6	8192.6
50°	9866.2	9922.2	9920.8	9893.5	9879.1	9761.3	9609.1	9505.6	9405.1	9281.5	9241.3
52.5°	10822.9	10953.7	11041.3	11021.2	10979.5	10909.1	10774.1	10685.0	10537.1	10519.8	10537.1
55°	11847.2	12016.7	12105.8	12213.5	12215.0	12202.0	12146.0	12113.0	11975.1	11990.9	11970.8
57.5°	12816.9	13065.4	13201.9	13431.7	13510.7	13615.6	13576.8	13619.9	13536.6	13591.2	13575.4
60°	14131.3	14476.1	14703.1	15017.7	15164.2	15427.1	15478.8	15510.4	15556.4	15668.4	15605.2
62.5°	15784.8	16290.4	16761.6	17189.7	17330.5	17725.6	17790.2	18037.3	18050.2	18126.4	17987.0
65°	18491.2	19107.5	19626.1	20139.0	20434.9	20897.5	21084.2	21564.0	21417.5	21479.3	21181.9
67.5°	20263.9	20980.8	21676.1	22161.6	22652.9	23125.5	23466.0	23776.3	23773.4	23713.1	23448.8
69°	20107.4	20906.1	21591.3	22242.1	22759.2	23244.8	23654.2	23855.3	23925.7	23838.1	23649.9
70°	19565.8	20386.0	21225.0	21760.8	22324.0	22856.9	23279.3	23499.0	23547.9	23486.1	23323.8
72.5°	17063.3	17850.5	18775.7	19262.7	19943.6	20328.6	20910.4	21194.8	21245.1	21166.1	21059.8
75°	13316.8	13459.0	14401.4	14711.7	15205.9	15649.7	16011.8	15919.8	16177.0	16126.7	16086.5
77.5°	6273.4	5894.2	6504.7	6789.1	6639.7	6241.8	6820.7	6402.7	6679.9	7040.5	6948.6
80°	1034.3	1031.4	1058.7	1119.1	1047.2	1111.9	1110.5	1078.8	1081.7	1159.3	1119.1
82.5°	397.9	406.5	410.9	422.3	422.3	423.8	431.0	439.6	432.4	446.8	443.9
85°	215.5	229.8	216.9	206.9	214.0	218.4	224.1	231.3	224.1	245.6	234.2
87.5°	56.0	58.9	51.7	51.7	50.3	46.0	46.0	48.8	53.2	63.2	69.0
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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CATALOG NUMBER: VST-E07-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7
2.5°	4257.9	4259.4	4260.8	4256.5	4253.6	4253.6	4252.2	4249.3	4247.9	4247.9	4247.9
5°	4306.8	4309.6	4302.5	4301.0	4298.2	4295.3	4295.3	4292.4	4293.8	4293.8	4286.7
7.5°	4404.5	4400.1	4391.5	4385.8	4391.5	4381.5	4377.2	4380.0	4377.2	4378.6	4375.7
10°	4535.2	4535.2	4525.1	4530.9	4523.7	4512.2	4516.5	4512.2	4509.3	4499.3	4505.0
12.5°	4697.5	4693.2	4687.5	4674.5	4670.2	4668.8	4655.9	4657.3	4653.0	4650.1	4645.8
15°	4839.7	4838.3	4825.4	4818.2	4816.7	4811.0	4805.3	4802.4	4795.2	4793.8	4790.9
17.5°	4934.5	4930.2	4924.5	4917.3	4917.3	4908.7	4905.8	4898.6	4897.2	4892.9	4888.6
20°	4966.1	4967.6	4961.8	4956.1	4953.2	4947.5	4943.2	4937.4	4934.5	4928.8	4924.5
22.5°	4959.0	4959.0	4953.2	4951.8	4946.0	4937.4	4931.7	4924.5	4917.3	4910.1	4901.5
25°	4936.0	4934.5	4930.2	4923.0	4915.9	4902.9	4891.4	4880.0	4869.9	4861.3	4848.3
27.5°	4915.9	4913.0	4904.4	4894.3	4880.0	4865.6	4844.0	4828.2	4815.3	4803.8	4789.4
30°	4908.7	4898.6	4885.7	4869.9	4852.7	4831.1	4808.1	4788.0	4773.6	4762.2	4756.4
32.5°	4917.3	4904.4	4884.3	4864.2	4842.6	4816.7	4793.8	4776.5	4763.6	4760.7	4760.7
35°	4996.3	4974.8	4947.5	4918.7	4891.4	4869.9	4854.1	4852.7	4844.0	4854.1	4869.9
37.5°	5227.6	5208.9	5167.3	5129.9	5111.2	5101.2	5086.8	5089.7	5069.6	5101.2	5127.0
40°	5718.9	5695.9	5647.1	5616.9	5579.6	5543.6	5572.4	5563.7	5578.1	5572.4	5599.7
42.5°	6435.7	6412.7	6335.2	6323.7	6307.9	6293.5	6293.5	6282.0	6276.3	6296.4	6273.4
45°	7307.7	7261.7	7233.0	7267.5	7220.1	7234.5	7284.7	7217.2	7233.0	7139.6	7053.4
47.5°	8212.7	8208.4	8201.3	8242.9	8250.1	8271.6	8298.9	8230.0	8105.0	8034.6	7859.4
50°	9254.2	9298.8	9316.0	9356.2	9373.5	9389.3	9346.2	9244.2	9033.0	8846.3	8639.4
52.5°	10519.8	10442.3	10548.6	10587.4	10570.1	10506.9	10351.8	10226.8	9935.2	9666.5	9346.2
55°	11993.7	12012.4	11937.7	11907.5	11848.6	11673.4	11459.3	11177.8	10808.6	10458.1	10053.0
57.5°	13494.9	13487.7	13371.4	13207.6	13007.9	12796.8	12477.9	12074.2	11643.2	11172.0	10682.2
60°	15320.8	15313.6	15078.0	14797.9	14513.4	14173.0	13673.1	13187.5	12610.0	11990.9	11407.6
62.5°	17719.8	17411.0	17179.7	16761.6	16322.1	15876.7	15200.1	14555.1	13783.7	13002.2	12321.3
65°	20794.0	20285.5	20022.6	19416.4	18735.5	18040.2	17352.1	16504.5	15465.9	14520.6	13688.9
67.5°	23068.1	22602.6	22121.4	21516.6	20769.6	19993.9	19051.5	17984.1	16804.7	15744.6	14838.1
69°	23267.8	22832.5	22255.0	21648.8	20942.0	20098.7	19070.2	17875.0	16679.8	15606.7	14714.6
70°	22964.7	22502.1	21894.4	21263.8	20473.7	19677.8	18600.4	17354.9	16158.3	15082.3	14211.8
72.5°	20703.5	20252.4	19606.0	18851.8	18041.6	17360.7	16337.9	15039.2	13737.7	12743.6	12065.6
75°	15743.1	15644.0	15185.7	14746.2	14108.3	13348.4	12413.2	11539.8	10472.4	9420.9	8788.8
77.5°	6717.3	6945.7	7184.2	7218.7	7241.6	7007.5	6862.4	6642.6	5928.6	5604.0	5269.3
80°	1241.2	1109.0	1183.7	1192.3	1241.2	1267.0	1361.8	1614.7	1643.4	1705.2	1781.3
82.5°	441.0	448.2	459.7	464.0	468.3	485.6	550.2	659.4	758.5	887.8	1060.2
85°	250.0	254.3	264.3	272.9	278.7	295.9	331.8	396.5	494.2	642.1	870.5
87.5°	76.1	86.2	91.9	103.4	107.7	110.6	126.4	169.5	218.4	323.2	471.2
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-7050

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7	4250.7
2.5°	4247.9	4246.4	4243.6	4240.7	4242.1	4239.3	4230.6	4227.8	4217.7	4210.5	4204.8
5°	4286.7	4285.2	4279.5	4280.9	4279.5	4265.1	4255.1	4237.8	4227.8	4212.0	4206.2
7.5°	4367.1	4365.7	4355.6	4359.9	4357.0	4335.5	4318.3	4291.0	4276.6	4256.5	4240.7
10°	4487.8	4487.8	4476.3	4477.7	4477.7	4449.0	4418.8	4372.9	4339.8	4308.2	4280.9
12.5°	4634.3	4628.6	4627.1	4619.9	4614.2	4582.6	4536.6	4474.8	4413.1	4361.4	4324.0
15°	4782.3	4773.6	4769.3	4760.7	4753.5	4724.8	4663.0	4586.9	4503.6	4420.3	4358.5
17.5°	4878.5	4872.8	4864.2	4861.3	4851.2	4822.5	4779.4	4703.3	4599.8	4483.5	4390.1
20°	4914.4	4904.4	4898.6	4892.9	4887.1	4867.0	4867.0	4818.2	4703.3	4539.5	4397.3
22.5°	4891.4	4885.7	4877.1	4872.8	4867.0	4869.9	4925.9	4918.7	4786.6	4552.4	4345.6
25°	4838.3	4831.1	4823.9	4823.9	4822.5	4852.7	4987.7	5006.4	4811.0	4489.2	4232.1
27.5°	4783.7	4773.6	4776.5	4778.0	4785.1	4849.8	5055.2	5029.4	4744.9	4336.9	4036.7
30°	4750.7	4750.7	4757.8	4769.3	4783.7	4897.2	5108.4	4977.6	4574.0	4107.1	3778.1
32.5°	4765.0	4779.4	4795.2	4823.9	4845.5	5002.1	5127.0	4844.0	4325.4	3822.7	3508.0
35°	4892.9	4910.1	4940.3	4984.8	5010.7	5152.9	5127.0	4648.7	4036.7	3578.4	3229.4
37.5°	5171.6	5188.8	5224.7	5259.2	5285.1	5342.5	5105.5	4400.1	3795.4	3325.6	2979.4
40°	5619.8	5644.2	5670.1	5664.3	5647.1	5591.0	5062.4	4168.9	3572.7	3104.4	2733.8
42.5°	6250.4	6227.4	6224.6	6168.5	6111.1	5871.2	5030.8	4018.0	3381.6	2871.7	2489.5
45°	6978.7	6885.4	6789.1	6714.4	6626.8	6178.6	5022.2	3895.9	3170.5	2613.1	2223.8
47.5°	7711.4	7562.0	7375.2	7258.9	7116.7	6506.1	5048.0	3732.2	2899.0	2331.5	1975.3
50°	8429.7	8185.4	7954.2	7814.8	7653.9	6882.5	5089.7	3456.3	2574.3	2075.8	1748.3
52.5°	9094.8	8780.2	8543.1	8379.4	8182.6	7320.6	5052.3	3094.3	2292.7	1830.2	1532.8
55°	9726.9	9379.2	9133.6	8961.2	8729.9	7760.2	4782.3	2765.4	2024.1	1590.3	1290.0
57.5°	10279.9	9946.7	9691.0	9456.8	9261.4	8142.4	4249.3	2493.8	1765.5	1315.9	1027.1
60°	10926.4	10551.4	10248.3	9998.4	9768.5	8339.2	3651.7	2252.5	1489.7	1018.5	742.7
62.5°	11798.4	11367.4	11016.9	10731.0	10430.8	8382.3	3243.7	2011.2	1182.3	736.9	540.1
65°	13091.3	12559.7	12121.6	11728.0	11321.4	8204.1	3042.6	1748.3	879.2	547.3	452.5
67.5°	14118.4	13566.8	13059.7	12554.0	12034.0	7873.7	2998.1	1505.5	675.2	465.4	406.5
69°	13993.4	13467.6	13002.2	12454.9	11878.8	7458.6	2953.5	1412.1	616.3	432.4	385.0
70°	13512.2	13013.7	12541.1	12095.7	11390.4	6996.0	2835.7	1360.4	593.3	416.6	369.2
72.5°	11417.7	10840.2	10381.9	9827.4	9084.7	5198.9	2150.5	1100.4	544.5	380.7	333.3
75°	8327.7	7849.3	7392.5	6779.1	6056.5	3008.1	1338.9	629.2	399.4	344.8	301.7
77.5°	4862.7	4755.0	4314.0	3910.3	3194.9	1531.4	768.6	376.4	310.3	313.2	265.8
80°	1830.2	1949.4	1993.9	1854.6	1713.8	1057.3	558.8	306.0	270.1	308.9	225.5
82.5°	1334.6	1548.6	1574.5	1508.4	1403.5	985.5	446.8	245.6	219.8	331.8	193.9
85°	1113.3	1232.6	1251.2	1182.3	1147.8	834.6	311.7	172.4	160.9	238.5	145.1
87.5°	563.1	593.3	609.1	551.6	554.5	389.3	125.0	73.3	87.6	102.0	80.4
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-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	4250.7	4250.7
2.5°	4191.8	4200.5
5°	4197.6	4197.6
7.5°	4230.6	4230.6
10°	4266.5	4268.0
12.5°	4299.6	4298.2
15°	4325.4	4321.1
17.5°	4341.2	4336.9
20°	4325.4	4318.3
22.5°	4245.0	4224.9
25°	4098.5	4072.6
27.5°	3904.5	3887.3
30°	3651.7	3625.8
32.5°	3355.8	3342.8
35°	3072.8	3057.0
37.5°	2814.2	2809.9
40°	2595.8	2572.9
42.5°	2340.1	2330.1
45°	2080.1	2074.4
47.5°	1835.9	1830.2
50°	1610.4	1598.9
52.5°	1389.1	1370.5
55°	1143.5	1130.6
57.5°	877.7	866.2
60°	617.7	604.8
62.5°	439.6	425.2
65°	366.3	354.8
67.5°	331.8	318.9
69°	316.0	304.5
70°	306.0	297.4
72.5°	284.4	278.7
75°	260.0	255.7
77.5°	228.4	221.2
80°	191.1	183.9
82.5°	160.9	153.7
85°	107.7	97.7
87.5°	48.8	43.1
90°	0.0	0.0

(END OF REPORT)