

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: P158290

Luminaire Tested: **VST-E11-LED-E-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158290
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E11-LED-E-U-SL2
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (231) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33096.4 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

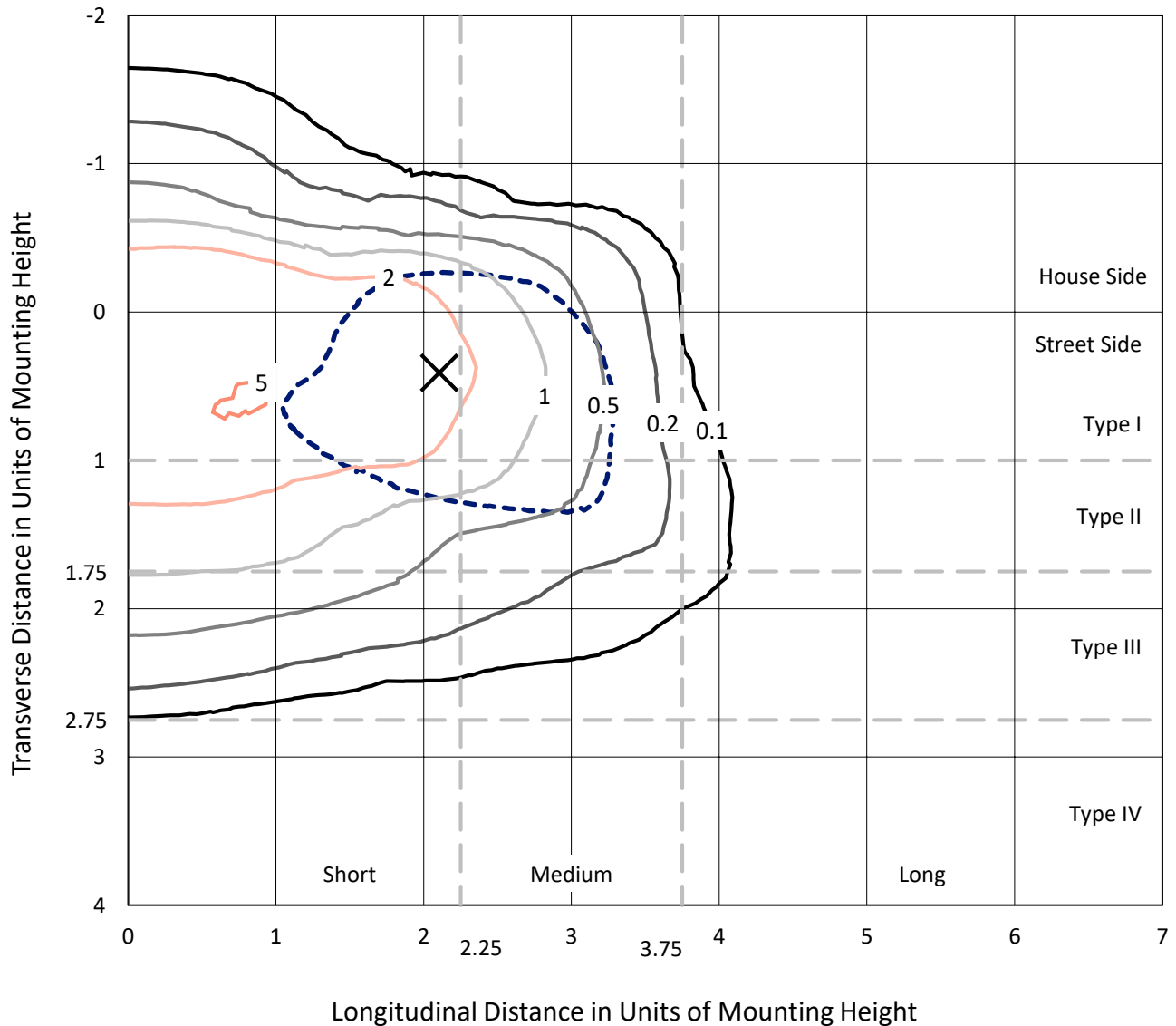
Input Watts (W): 269.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

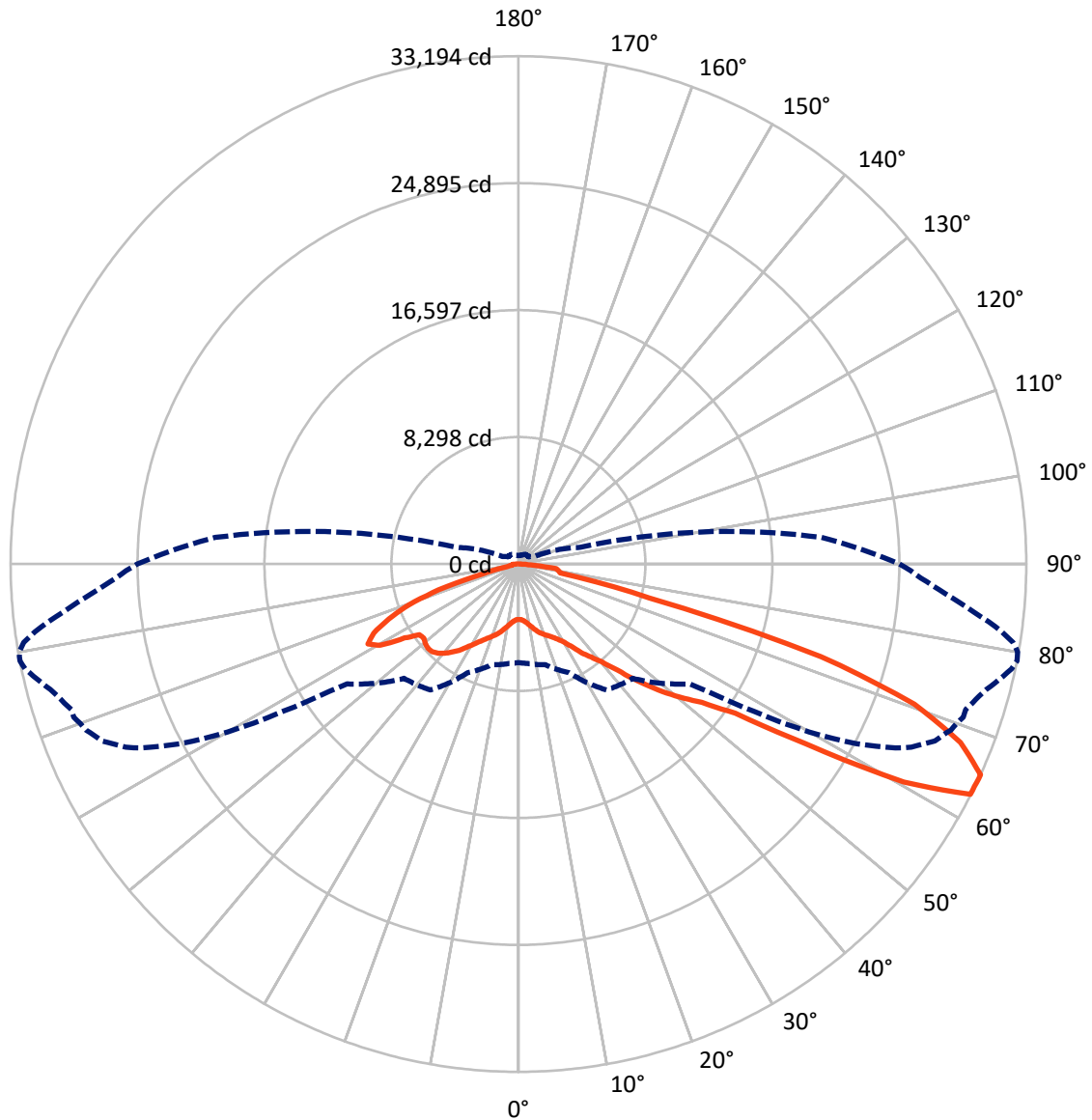


Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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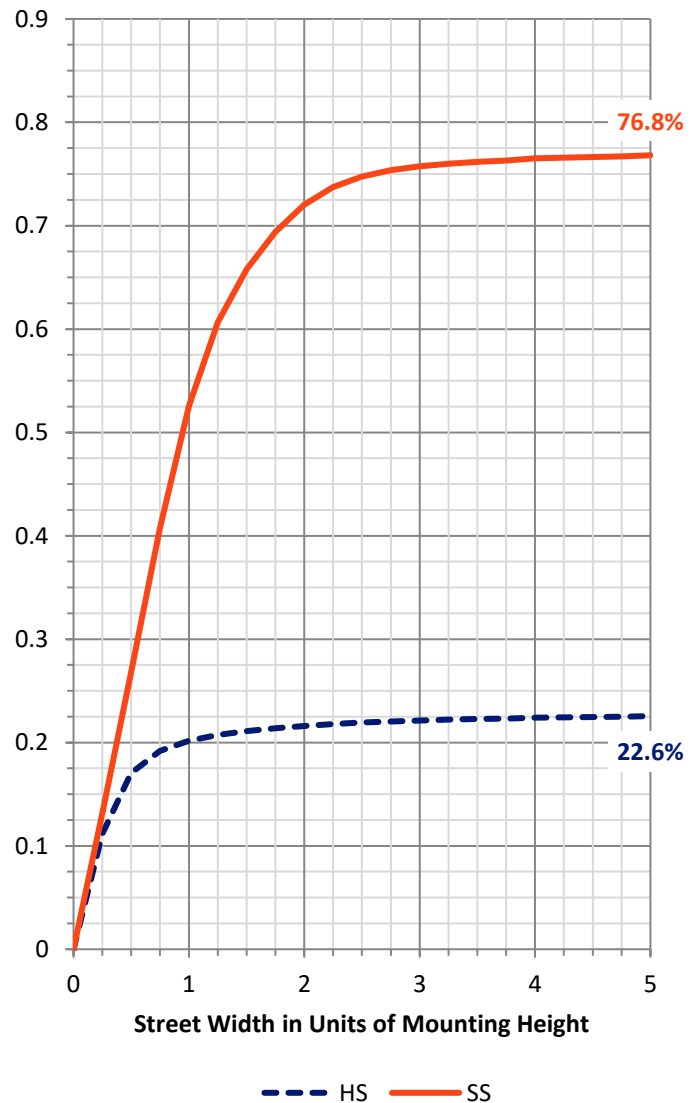
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7605.0	0.0	7605.0
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	25491.5	0.0	25491.5
	% Fixture	77.0	0.0	77.0
Total	Lumens	33096.4	0.0	33096.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.3	1.1
10°-20°	1163.6	3.5
20°-30°	2005.9	6.1
30°-40°	3285.7	9.9
40°-50°	5502.4	16.6
50°-60°	7442.8	22.5
60°-70°	9165.8	27.7
70°-80°	3548.0	10.7
80°-90°	624.0	1.9
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°	33096.4	100.0
0°-180°	33096.4	100.0



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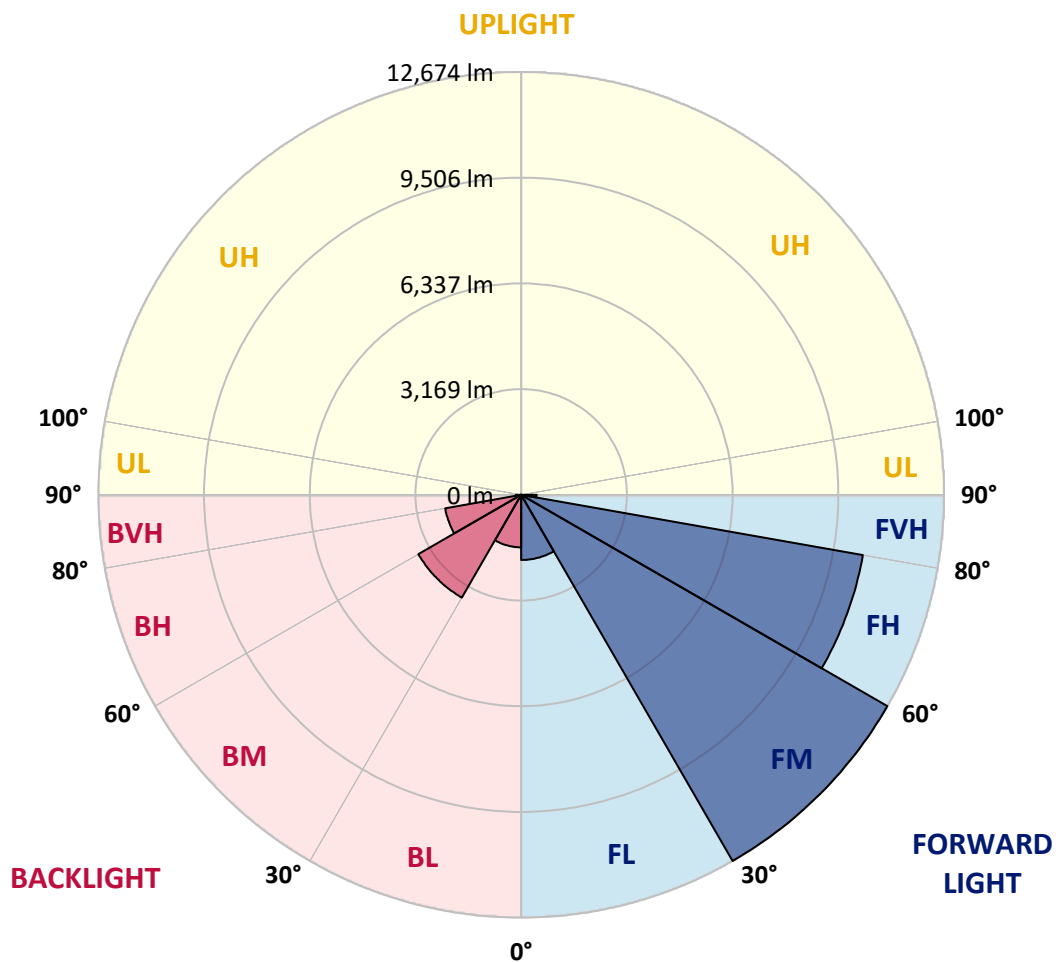
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1953.9	5.9			
FM (30°-60°)	12674.5	38.3			
FH (60°-80°)	10400.1	31.4			G4/12000
FVH (80°-90°)	463.0	1.4			G3/500
BL (0°-30°)	1573.9	4.8	B3/2500		
BM (30°-60°)	3556.4	10.7	B3/5000		
BH (60°-80°)	2313.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	161.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2
2.5°	3627.8	3616.8	3627.8	3636.6	3643.2	3652.0	3649.8	3647.6	3645.4	3647.6	3647.6
5°	3658.6	3656.4	3667.4	3676.2	3691.6	3702.6	3715.8	3715.8	3715.8	3713.6	3718.0
7.5°	3757.6	3755.4	3766.4	3775.2	3788.4	3810.4	3828.0	3836.8	3834.6	3834.6	3834.6
10°	3920.4	3911.6	3911.6	3911.6	3929.2	3944.6	3984.2	3988.6	3997.4	3993.0	3995.2
12.5°	4078.8	4081.0	4074.4	4067.8	4070.0	4100.8	4158.0	4169.0	4171.2	4177.8	4182.2
15°	4221.8	4219.6	4204.2	4188.8	4208.6	4261.4	4336.2	4356.0	4356.0	4369.2	4378.0
17.5°	4353.8	4349.4	4320.8	4294.4	4314.2	4404.4	4521.0	4534.2	4554.0	4560.6	4569.4
20°	4510.0	4501.2	4468.2	4397.8	4397.8	4521.0	4675.0	4688.2	4705.8	4710.2	4725.6
22.5°	4727.8	4705.8	4635.4	4507.8	4472.6	4615.6	4804.8	4811.4	4824.6	4842.2	4855.4
25°	4974.2	4978.6	4864.2	4642.0	4565.0	4714.6	4930.2	4941.2	4965.4	4978.6	4994.0
27.5°	5229.4	5236.0	5108.4	4831.2	4701.4	4851.0	5099.6	5112.8	5141.4	5156.8	5181.0
30°	5519.8	5528.6	5405.4	5126.0	4928.0	5051.2	5350.4	5385.6	5409.8	5429.6	5469.2
32.5°	6217.2	6164.4	6078.6	5781.6	5469.2	5460.4	5755.2	5794.8	5827.8	5869.6	5907.0
35°	7095.0	7128.0	7172.0	6971.8	6696.8	6496.6	6520.8	6498.8	6529.6	6591.2	6628.6
37.5°	7790.2	7862.8	8054.2	8184.0	8173.0	8133.4	7763.8	7763.8	7783.6	7750.6	7746.2
40°	8335.8	8382.0	8773.6	9277.4	9702.0	9911.0	9618.4	9576.6	9598.6	9429.2	9435.8
42.5°	8617.4	8685.6	9248.8	10133.2	10975.8	11646.8	11556.6	11528.0	11462.0	11420.2	11393.8
45°	8760.4	8841.8	9512.8	10727.2	11954.8	12991.0	13457.4	13453.0	13393.6	13345.2	13323.2
47.5°	8687.8	8758.2	9473.2	10907.6	12469.6	13857.8	14889.6	14953.4	14935.8	15006.2	15034.8
50°	8212.6	8302.8	9020.0	10518.2	12254.0	14198.8	15881.8	16000.6	16161.2	16262.4	16396.6
52.5°	7783.6	7858.4	8505.2	9886.8	11545.6	13921.6	16480.2	16724.4	16944.4	17151.2	17311.8
55°	7334.8	7409.6	7977.2	9231.2	10830.6	13103.2	16753.0	17109.4	17452.6	17802.4	18123.6
57.5°	7165.4	7244.6	7667.0	8723.0	10245.4	12291.4	16887.2	17472.4	18031.2	18625.2	19241.2
60°	7605.4	7675.8	7997.0	8736.2	9798.8	11479.6	16616.6	17536.2	18497.6	19476.6	20422.6
62.5°	7471.2	7508.6	7909.0	9055.2	10368.6	10678.8	15444.0	16658.4	18055.4	19489.8	20939.6
65°	6446.0	6518.6	6820.0	7827.6	10049.6	10571.0	13657.6	14878.6	16526.4	18222.6	20165.2
67.5°	4624.4	4523.2	4756.4	5638.6	7796.8	10553.4	11646.8	12551.0	13842.4	15142.6	16735.4
70°	2101.0	2052.6	2235.2	2932.6	4703.6	8340.2	9847.2	10153.0	10632.6	11508.2	12584.0
72.5°	829.4	827.2	946.0	1212.2	2224.2	5368.0	8280.8	8456.8	8626.2	9006.8	9471.0
75°	543.4	543.4	578.6	653.4	1095.6	2591.6	7004.8	7165.4	7425.0	7532.8	7730.8
77.5°	409.2	411.4	426.8	444.4	605.0	1364.0	4943.4	5513.2	5953.2	6281.0	6520.8
80°	290.4	303.6	332.2	343.2	393.8	776.6	2794.0	3205.4	3702.6	4232.8	4899.4
82.5°	217.8	233.2	281.6	294.8	312.4	442.2	1260.6	1430.0	1669.8	2164.8	3113.0
85°	101.2	112.2	193.6	211.2	226.6	255.2	640.2	715.0	811.8	888.8	1036.2
87.5°	15.4	11.0	33.0	46.2	72.6	74.8	220.0	261.8	283.8	341.0	354.2
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2
2.5°	3647.6	3649.8	3652.0	3647.6	3649.8	3649.8	3645.4	3643.2	3643.2	3643.2	3645.4
5°	3718.0	3722.4	3718.0	3720.2	3729.0	3726.8	3722.4	3720.2	3729.0	3731.2	3724.6
7.5°	3843.4	3845.6	3836.8	3847.8	3852.2	3854.4	3854.4	3858.8	3858.8	3865.4	3858.8
10°	4004.0	4004.0	4019.4	4017.2	4019.4	4023.8	4026.0	4034.8	4041.4	4041.4	4045.8
12.5°	4188.8	4191.0	4206.4	4208.6	4217.4	4219.6	4232.8	4224.0	4246.0	4246.0	4252.6
15°	4380.2	4395.6	4397.8	4419.8	4424.2	4426.4	4444.0	4444.0	4459.4	4461.6	4466.0
17.5°	4569.4	4582.6	4591.4	4609.0	4624.4	4631.0	4637.6	4650.8	4661.8	4666.2	4677.2
20°	4732.2	4745.4	4754.2	4771.8	4785.0	4796.0	4802.6	4818.0	4829.0	4833.4	4848.8
22.5°	4868.6	4877.4	4892.8	4917.0	4921.4	4934.6	4954.4	4965.4	4969.8	4983.0	5000.6
25°	5013.8	5027.0	5035.8	5057.8	5075.4	5097.4	5115.0	5132.6	5137.0	5154.6	5170.0
27.5°	5207.4	5220.6	5222.8	5266.8	5284.4	5315.2	5335.0	5361.4	5374.6	5390.0	5420.8
30°	5493.4	5524.2	5537.4	5588.0	5596.8	5632.0	5667.2	5676.0	5695.8	5698.0	5748.6
32.5°	5931.2	5975.2	5992.8	6045.6	6058.8	6091.8	6111.6	6157.8	6160.0	6182.0	6193.0
35°	6648.4	6637.4	6705.6	6718.8	6758.4	6787.0	6806.8	6806.8	6848.6	6850.8	6864.0
37.5°	7627.4	7605.4	7623.0	7543.8	7563.6	7528.4	7521.8	7530.6	7513.0	7517.4	7515.2
40°	9193.8	9094.8	8991.4	8747.2	8694.4	8593.2	8514.0	8450.2	8388.6	8322.6	8278.6
42.5°	11158.4	11015.4	10861.4	10469.8	10287.2	10091.4	9900.0	9790.0	9570.0	9435.8	9363.2
45°	13217.6	13050.4	12834.8	12509.2	12249.6	12040.6	11690.8	11525.8	11184.8	11015.4	10786.6
47.5°	14905.0	14907.2	14733.4	14403.4	14126.2	13987.6	13769.8	13450.8	13063.6	12845.8	12438.8
50°	16381.2	16379.0	16368.0	16170.0	15976.4	15824.6	15633.2	15345.0	15028.2	14781.8	14315.4
52.5°	17472.4	17617.6	17679.2	17677.0	17652.8	17582.4	17437.2	17188.6	16867.4	16728.8	16357.0
55°	18374.4	18691.2	18856.2	19217.0	19250.0	19366.6	19239.0	19241.2	19052.0	19065.2	18946.4
57.5°	19740.6	20319.2	20651.4	21450.0	21850.4	22334.4	22248.6	22653.4	22800.8	22987.8	23236.4
60°	21291.6	22371.8	23159.4	24747.8	25394.6	26177.8	26609.0	27068.8	27403.2	27746.4	27999.4
62.5°	22400.4	23819.4	25113.0	27376.8	28217.2	29042.2	29585.6	30142.2	30518.4	30764.8	30947.4
65°	21947.2	23515.8	25044.8	27418.6	28333.8	28932.2	29579.0	29900.2	30276.4	30481.0	30742.8
67.5°	18649.4	20222.4	21861.4	24662.0	25619.0	26446.2	26950.0	27365.8	27669.4	27929.0	28230.4
70°	13868.8	15589.2	17283.2	20354.4	21562.2	22756.8	23350.8	23865.6	24182.4	24444.2	24776.4
72.5°	9981.4	11059.4	12117.6	15556.2	16764.0	18308.4	18924.4	19496.4	19907.8	19894.6	20246.6
75°	7946.4	8384.2	8855.0	10630.4	11497.2	12799.6	13145.0	13466.2	13272.6	12900.8	12878.8
77.5°	6615.4	6795.8	6954.2	7510.8	7638.4	7948.6	7777.0	7598.8	7024.6	6540.6	6285.4
80°	5370.2	5726.6	5959.8	6355.8	6518.6	6611.0	6635.2	6573.6	6362.4	6069.8	5603.4
82.5°	3993.0	4670.6	5132.6	5911.4	6197.4	6256.8	6371.2	6300.8	6162.2	5924.6	5590.2
85°	1170.4	1324.4	1518.0	2059.2	2413.4	2714.8	3022.8	3174.6	3269.2	3137.2	2791.8
87.5°	411.4	464.2	519.2	715.0	761.2	919.6	902.0	1064.8	1071.4	1117.6	1069.2
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2
2.5°	3643.2	3643.2	3643.2	3645.4	3645.4	3645.4	3641.0	3638.8	3641.0	3645.4	3645.4
5°	3729.0	3731.2	3735.6	3726.8	3729.0	3735.6	3731.2	3729.0	3731.2	3735.6	3731.2
7.5°	3867.6	3869.8	3865.4	3874.2	3874.2	3878.6	3885.2	3878.6	3880.8	3883.0	3885.2
10°	4048.0	4050.2	4054.6	4061.2	4063.4	4067.8	4072.2	4078.8	4078.8	4074.4	4085.4
12.5°	4263.6	4261.4	4265.8	4274.6	4279.0	4285.6	4298.8	4298.8	4307.6	4305.4	4316.4
15°	4474.8	4485.8	4488.0	4503.4	4510.0	4521.0	4536.4	4545.2	4545.2	4558.4	4562.8
17.5°	4686.0	4694.8	4703.6	4716.8	4725.6	4732.2	4749.8	4760.8	4758.6	4782.8	4782.8
20°	4848.8	4866.4	4877.4	4886.2	4901.6	4912.6	4925.8	4939.0	4947.8	4963.2	4967.6
22.5°	5007.2	5018.2	5033.6	5044.6	5062.2	5075.4	5090.8	5101.8	5117.2	5137.0	5143.6
25°	5183.2	5200.8	5218.4	5233.8	5247.0	5262.4	5288.8	5313.0	5335.0	5352.6	5359.2
27.5°	5427.4	5447.2	5473.6	5484.6	5504.4	5517.6	5557.2	5588.0	5599.0	5629.8	5638.6
30°	5757.4	5779.4	5805.8	5819.0	5854.2	5871.8	5913.6	5946.6	5957.6	5995.0	6001.6
32.5°	6234.8	6248.0	6300.8	6298.6	6347.0	6397.6	6421.8	6448.2	6496.6	6516.4	6523.0
35°	6897.0	6927.8	6965.2	6963.0	7024.6	7053.2	7101.6	7130.2	7165.4	7163.2	7200.6
37.5°	7537.2	7548.2	7561.4	7590.0	7634.0	7673.6	7691.2	7719.8	7746.2	7785.8	7834.2
40°	8234.6	8261.0	8263.2	8278.6	8300.6	8351.2	8384.2	8415.0	8505.2	8562.4	8591.0
42.5°	9279.6	9273.0	9229.0	9257.6	9270.8	9347.8	9372.0	9466.6	9567.8	9688.8	9721.8
45°	10623.8	10535.8	10509.4	10498.4	10568.8	10608.4	10707.4	10883.4	10989.0	11103.4	11158.4
47.5°	12278.2	12003.2	11873.4	11844.8	11917.4	12086.8	12119.8	12293.6	12432.2	12515.8	12570.8
50°	13934.8	13719.2	13446.4	13354.0	13334.2	13490.4	13527.8	13673.0	13813.8	13838.0	13809.4
52.5°	16016.0	15664.0	15213.0	15050.2	14920.4	14931.4	14962.2	15023.8	15114.0	15076.6	14999.6
55°	18678.0	18277.6	18055.4	17747.4	17551.6	17516.4	17382.2	17197.4	17190.8	17215.0	16984.0
57.5°	23111.0	22943.8	23038.4	23005.4	22811.8	22928.4	22323.4	22151.8	22015.4	21777.8	21564.4
60°	28223.8	28395.4	28591.2	29042.2	29022.4	29475.6	29055.4	28949.8	28822.2	28089.6	27731.0
62.5°	31266.4	31334.6	31622.8	32043.0	32456.6	32890.0	33085.8	33154.0	32887.8	32289.4	31541.4
65°	30736.2	31037.6	31317.0	31680.0	32104.6	32538.0	32951.6	33193.6	33132.0	32736.0	31913.2
67.5°	28327.2	28644.0	29053.2	29433.8	29891.4	30267.6	30720.8	31165.2	31178.4	30980.4	30408.4
70°	24811.6	25179.0	25601.4	25814.8	26309.8	26650.8	27027.0	27467.0	27610.0	27634.2	26967.6
72.5°	20171.8	20325.8	20532.6	20420.4	20519.4	20737.2	20636.0	20671.2	20127.8	20229.0	19406.2
75°	12284.8	12144.0	11519.2	10949.4	10254.2	9719.6	9847.2	8826.4	7821.0	7770.4	7044.4
77.5°	6230.4	6006.0	5618.8	5216.2	4626.6	3951.2	3388.0	2780.8	2268.2	1975.6	1696.2
80°	5306.4	5148.0	4934.6	4642.0	4213.0	3713.6	3126.2	2664.2	2235.2	1788.6	1432.2
82.5°	5077.6	4593.6	4283.4	4039.2	3575.0	3113.0	2791.8	2475.0	2171.4	1896.4	1502.6
85°	2519.0	2228.6	1885.4	1672.0	1287.0	1007.6	943.8	776.6	723.8	558.8	470.8
87.5°	847.0	693.0	517.0	435.6	347.6	283.8	279.4	248.6	246.4	224.4	206.8
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2
2.5°	3643.2	3647.6	3647.6	3643.2	3645.4	3641.0	3643.2	3645.4	3638.8	3636.6	3630.0
5°	3733.4	3731.2	3731.2	3733.4	3740.0	3742.2	3731.2	3735.6	3737.8	3726.8	3702.6
7.5°	3883.0	3883.0	3889.6	3887.4	3900.6	3896.2	3894.0	3894.0	3894.0	3872.0	3832.4
10°	4085.4	4085.4	4092.0	4100.8	4103.0	4098.6	4098.6	4100.8	4111.8	4067.8	4006.2
12.5°	4312.0	4323.0	4320.8	4320.8	4347.2	4340.6	4331.8	4340.6	4351.6	4290.0	4202.0
15°	4565.0	4571.6	4576.0	4591.4	4587.0	4602.4	4606.8	4602.4	4613.4	4534.2	4386.8
17.5°	4793.8	4807.0	4811.4	4829.0	4829.0	4831.2	4848.8	4842.2	4844.4	4754.2	4543.0
20°	4983.0	4996.2	5002.8	5022.6	5027.0	5035.8	5042.4	5046.8	5057.8	4950.0	4670.6
22.5°	5172.2	5183.2	5194.2	5207.4	5225.0	5236.0	5244.8	5249.2	5269.0	5143.6	4791.6
25°	5383.4	5407.6	5418.6	5440.6	5458.2	5475.8	5489.0	5491.2	5524.2	5368.0	4890.6
27.5°	5665.0	5698.0	5715.6	5750.8	5768.4	5786.0	5781.6	5808.0	5854.2	5625.4	4967.6
30°	6034.6	6076.4	6087.4	6122.6	6151.2	6168.8	6188.6	6210.6	6241.4	5911.4	5005.0
32.5°	6549.4	6613.2	6628.6	6648.4	6690.2	6721.0	6734.2	6769.4	6778.2	6182.0	4994.0
35°	7255.6	7227.0	7301.8	7319.4	7378.8	7403.0	7418.4	7464.6	7429.4	6476.8	4921.4
37.5°	7893.6	7884.8	7957.4	7997.0	8074.0	8056.4	8093.8	8124.6	7999.2	6685.8	4787.2
40°	8672.4	8661.4	8762.6	8775.8	8894.6	8868.2	8883.6	8907.8	8628.4	6831.0	4543.0
42.5°	9759.2	9763.6	9871.4	9884.6	9900.0	9948.4	9869.2	9873.6	9297.2	6870.6	4140.4
45°	11191.4	11268.4	11202.4	11204.6	11200.2	11107.8	11008.8	10892.2	9992.4	6734.2	3621.2
47.5°	12579.6	12526.8	12443.2	12366.2	12302.4	12157.2	12012.0	11814.0	10593.0	6410.8	3042.6
50°	13767.6	13648.8	13574.0	13360.6	13208.8	13019.6	12817.2	12590.6	11085.8	5944.4	2501.4
52.5°	14872.0	14748.8	14469.4	14247.2	14029.4	13778.6	13543.2	13277.0	11521.4	5412.0	2087.8
55°	16706.8	16599.0	16319.6	15912.6	15644.2	15298.8	14988.6	14627.8	12403.6	4980.8	1815.0
57.5°	20977.0	20884.6	20297.2	20039.8	19685.6	18818.8	18691.2	18128.0	14768.6	4930.2	1654.4
60°	26989.6	26593.6	26105.2	25401.2	24571.8	24285.8	23647.8	22897.6	18574.6	5068.8	1524.6
62.5°	30681.2	29779.2	29062.0	28250.2	27486.8	26831.2	26133.8	25392.4	20521.6	4886.2	1364.0
65°	30958.4	29898.0	28949.8	27997.2	27139.2	26323.0	25645.4	24904.0	19888.0	4199.8	1155.0
67.5°	29431.6	28314.0	27280.0	26199.8	25333.0	24596.0	23733.6	23020.8	18101.6	3269.2	961.4
70°	26283.4	25302.2	24411.2	23247.4	22528.0	21630.4	21082.6	20191.6	15778.4	2228.6	794.2
72.5°	18931.0	18191.8	17901.4	17089.6	16148.0	15620.0	15367.0	14502.4	11660.0	1383.8	649.0
75°	6395.4	6578.0	6160.0	5519.8	5832.2	5350.4	5546.2	5134.8	4932.4	794.2	545.6
77.5°	1419.0	1333.2	1232.0	1144.0	1137.4	1069.2	1133.0	1071.4	1146.2	506.0	481.8
80°	1119.8	884.4	752.4	686.4	651.2	631.4	616.0	598.4	545.6	431.2	444.4
82.5°	1210.0	913.0	668.8	534.6	457.6	429.0	422.4	404.8	400.4	418.0	448.8
85°	387.2	323.4	275.0	259.6	239.8	228.8	224.4	217.8	264.0	455.4	431.2
87.5°	202.4	178.2	158.4	151.8	132.0	123.2	121.0	123.2	184.8	455.4	312.4
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-E11-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2
2.5°	3623.4	3621.2	3616.8	3614.6	3612.4	3601.4	3610.2
5°	3691.6	3669.6	3649.8	3625.6	3612.4	3601.4	3601.4
7.5°	3795.0	3733.4	3682.8	3627.8	3590.4	3561.8	3557.4
10°	3924.8	3806.0	3689.4	3590.4	3520.0	3467.2	3460.6
12.5°	4048.0	3867.6	3682.8	3520.0	3410.0	3335.2	3330.8
15°	4162.4	3900.6	3632.2	3392.4	3227.4	3128.4	3117.4
17.5°	4252.6	3880.8	3517.8	3214.2	2989.8	2873.2	2866.6
20°	4272.4	3801.6	3355.0	2994.2	2756.6	2633.4	2604.8
22.5°	4254.8	3658.6	3152.6	2752.2	2479.4	2356.2	2340.8
25°	4202.0	3484.8	2901.8	2470.6	2217.6	2092.2	2061.4
27.5°	4107.4	3280.2	2631.2	2197.8	1947.0	1826.0	1795.2
30°	3966.6	3033.8	2343.0	1942.6	1683.0	1586.2	1555.4
32.5°	3770.8	2734.6	2059.2	1680.8	1465.2	1388.2	1375.0
35°	3500.2	2391.4	1762.2	1465.2	1306.8	1260.6	1254.0
37.5°	3154.8	2048.2	1513.6	1311.2	1196.8	1168.2	1163.8
40°	2703.8	1696.2	1337.6	1201.2	1117.6	1093.4	1089.0
42.5°	2239.6	1432.2	1207.8	1113.2	1045.0	1023.0	1016.4
45°	1832.6	1254.0	1111.0	1040.6	976.8	952.6	950.4
47.5°	1529.0	1150.6	1031.8	974.6	910.8	882.2	884.4
50°	1306.8	1056.0	965.8	917.4	844.8	818.4	820.6
52.5°	1155.0	961.4	904.2	849.2	787.6	761.2	761.2
55°	1036.2	884.4	844.8	785.4	737.0	712.8	710.6
57.5°	939.4	822.8	787.6	739.2	690.8	662.2	662.2
60°	880.0	778.8	750.2	706.2	649.0	618.2	616.0
62.5°	844.8	765.6	741.4	679.8	616.0	585.2	578.6
65°	818.4	796.4	765.6	664.4	589.6	556.6	550.0
67.5°	820.6	869.0	825.0	673.2	580.8	532.4	523.6
70°	833.8	926.2	866.8	693.0	618.2	521.4	501.6
72.5°	767.8	838.2	781.0	660.0	602.8	501.6	477.4
75°	640.2	611.6	561.0	536.8	541.2	455.4	446.6
77.5°	519.2	455.4	407.0	426.8	455.4	389.4	380.6
80°	451.0	369.6	345.4	378.4	413.6	332.2	310.2
82.5°	422.4	312.4	297.0	393.8	433.4	286.0	250.8
85°	371.8	255.2	233.2	464.2	433.4	215.6	200.2
87.5°	248.6	151.8	145.2	341.0	297.0	149.6	121.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)