

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: P158302

Luminaire Tested: **VST-E12-LED-E-U-SL2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158302
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-E12-LED-E-U-SL2-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (252) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37047.7 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B4 - U0 - G4

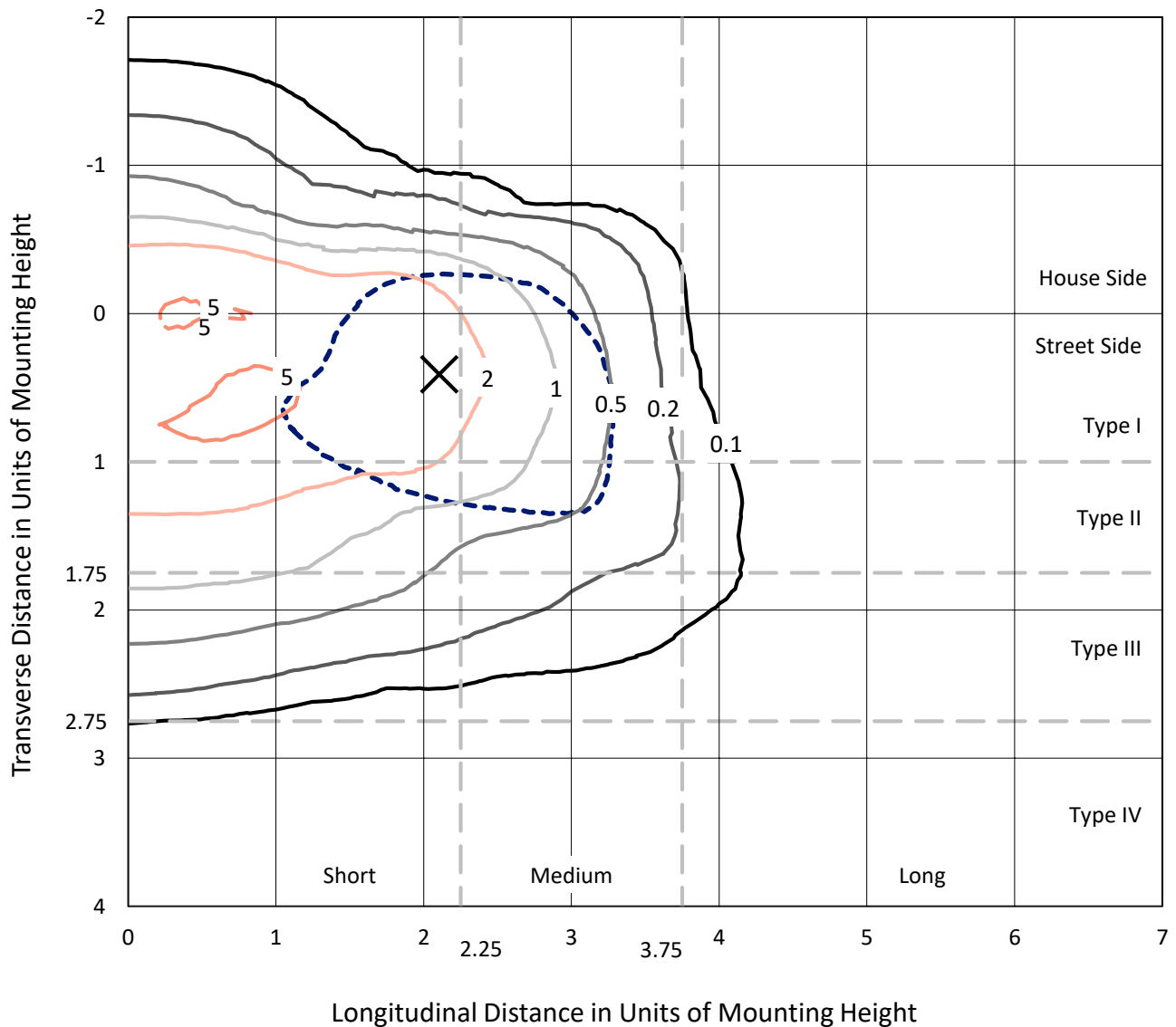
Input Watts (W): 291.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P158302
 CATALOG NUMBER: VST-E12-LED-E-U-SL2-7060

Iso-Footcandle Lines of Horizontal Illumination

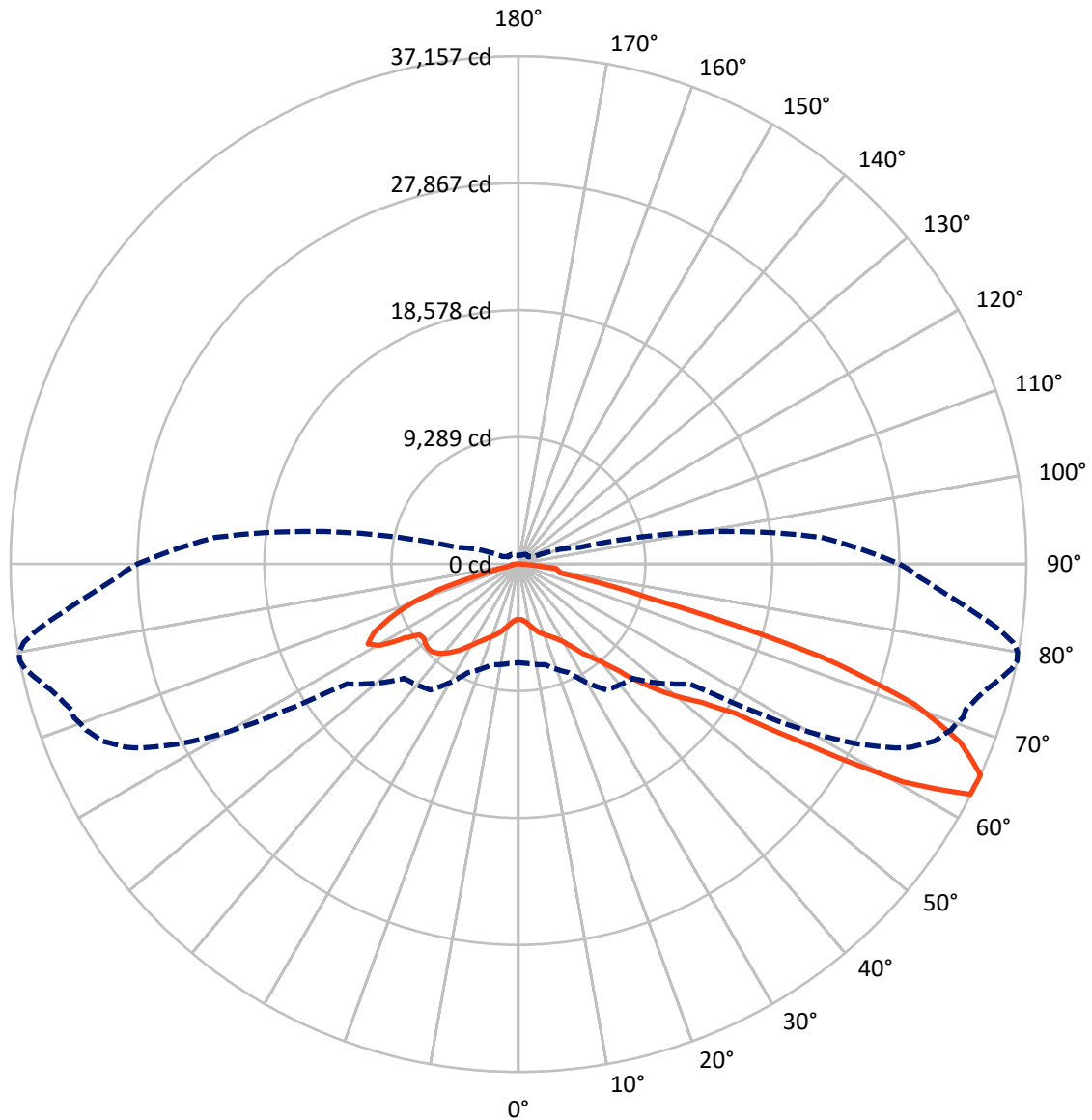
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P158302
CATALOG NUMBER: VST-E12-LED-E-U-SL2-7060

Luminous Intensity Polar Plot



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

REPORT NUMBER: P158302

CATALOG NUMBER: VST-E12-LED-E-U-SL2-7060

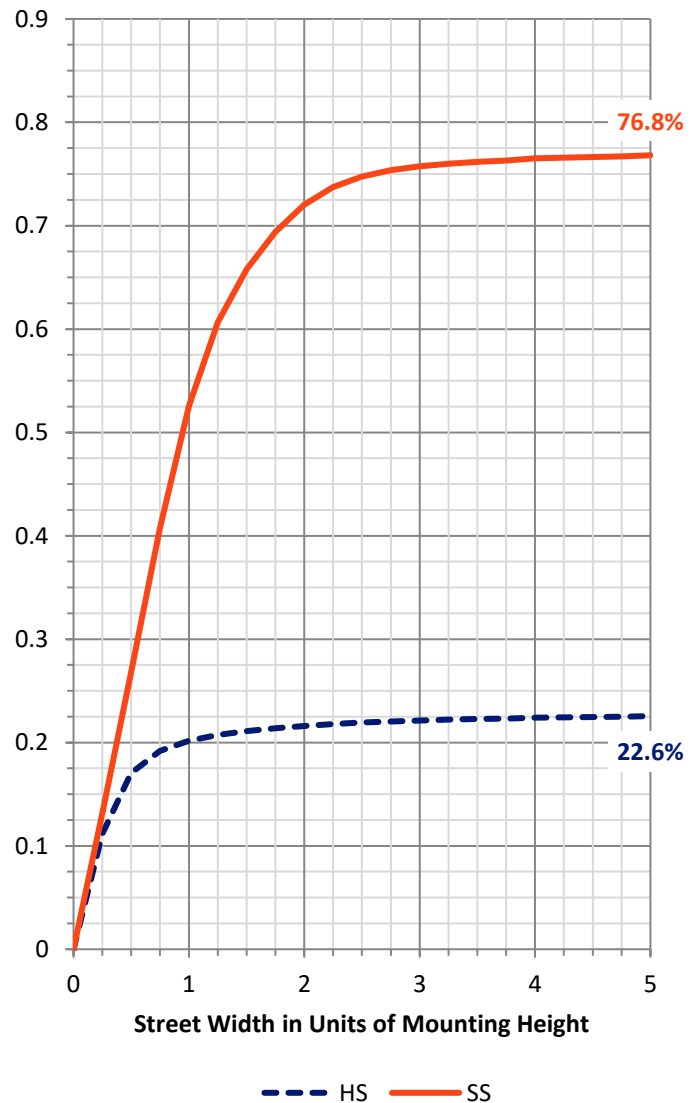
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8512.9	0.0	8512.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	28534.8	0.0	28534.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	37047.7	0.0	37047.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.0	1.1
10°-20°	1302.5	3.5
20°-30°	2245.4	6.1
30°-40°	3678.0	9.9
40°-50°	6159.3	16.6
50°-60°	8331.4	22.5
60°-70°	10260.1	27.7
70°-80°	3971.6	10.7
80°-90°	698.4	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°	37047.7	100.0
0°-180°	37047.7	100.0



REPORT NUMBER: P158302

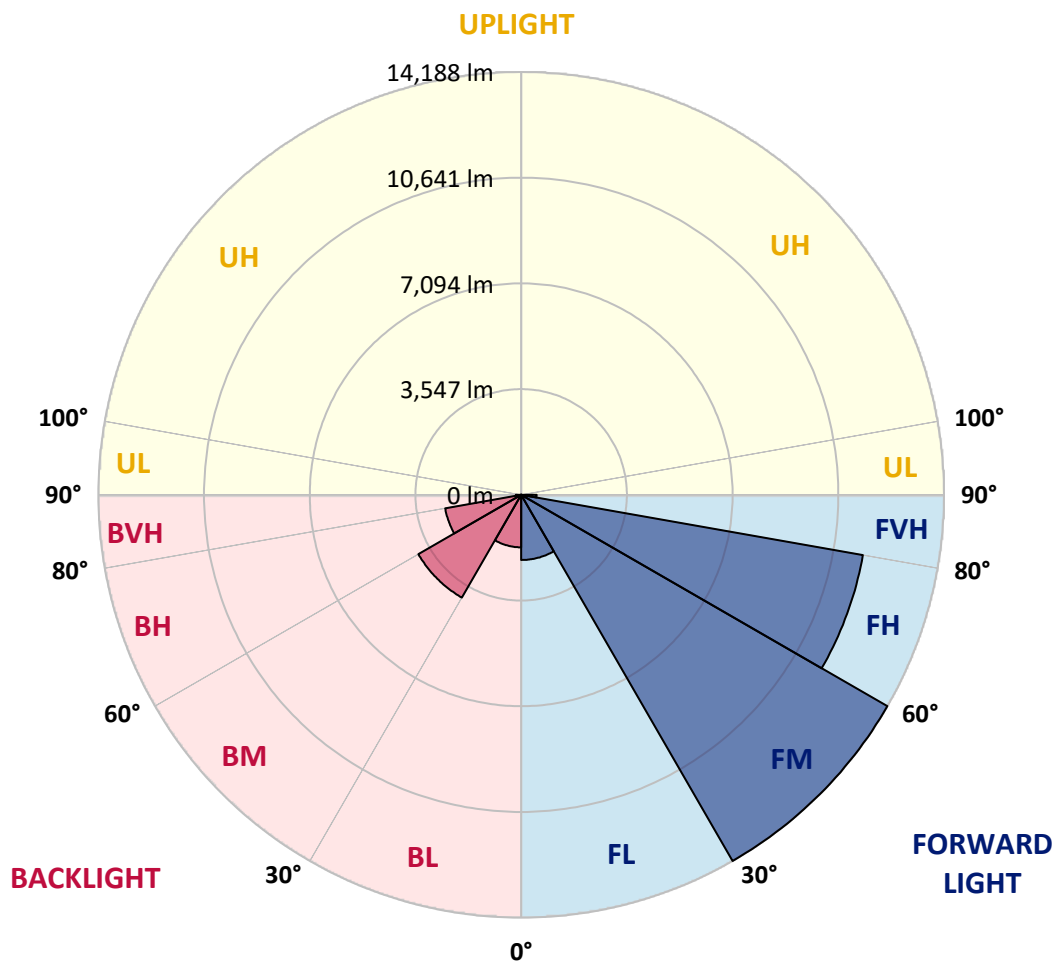
CATALOG NUMBER: VST-E12-LED-E-U-SL2-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2187.2	5.9			
FM	(30°-60°)	14187.7	38.3			
FH	(60°-80°)	11641.7	31.4			G4/12000
FVH	(80°-90°)	518.3	1.4			G4/750
BL	(0°-30°)	1761.8	4.8	B3/2500		
BM	(30°-60°)	3981.0	10.7	B3/5000		
BH	(60°-80°)	2589.9	7.0	B4/5000		G4/5000
BVH	(80°-90°)	180.2	0.5			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 II Short





REPORT NUMBER: P158302

CATALOG NUMBER: VST-E12-LED-E-U-SL2-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5
2.5°	4060.9	4048.6	4060.9	4070.8	4078.2	4088.0	4085.5	4083.1	4080.6	4083.1	4083.1
5°	4095.4	4092.9	4105.2	4115.1	4132.3	4144.6	4159.4	4159.4	4159.4	4157.0	4161.9
7.5°	4206.2	4203.7	4216.1	4225.9	4240.7	4265.3	4285.0	4294.9	4292.4	4292.4	4292.4
10°	4388.4	4378.6	4378.6	4378.6	4398.3	4415.5	4459.9	4464.8	4474.6	4469.7	4472.2
12.5°	4565.8	4568.2	4560.8	4553.4	4555.9	4590.4	4654.4	4666.7	4669.2	4676.6	4681.5
15°	4725.8	4723.4	4706.1	4688.9	4711.1	4770.2	4853.9	4876.1	4876.1	4890.8	4900.7
17.5°	4873.6	4868.7	4836.7	4807.1	4829.3	4930.2	5060.8	5075.5	5097.7	5105.1	5114.9
20°	5048.4	5038.6	5001.6	4922.8	4922.8	5060.8	5233.1	5247.9	5267.6	5272.5	5289.8
22.5°	5292.2	5267.6	5188.8	5046.0	5006.6	5166.6	5378.4	5385.8	5400.6	5420.3	5435.1
25°	5568.1	5573.0	5444.9	5196.2	5110.0	5277.5	5518.8	5531.1	5558.2	5573.0	5590.2
27.5°	5853.7	5861.1	5718.3	5408.0	5262.7	5430.2	5708.4	5723.2	5755.2	5772.5	5799.5
30°	6178.8	6188.6	6050.7	5738.0	5516.3	5654.3	5989.2	6028.6	6055.7	6077.8	6122.2
32.5°	6959.5	6900.4	6804.3	6471.9	6122.2	6112.3	6442.3	6486.6	6523.6	6570.4	6612.2
35°	7942.1	7979.0	8028.2	7804.1	7496.3	7272.2	7299.3	7274.7	7309.2	7378.1	7420.0
37.5°	8720.3	8801.5	9015.8	9161.1	9148.8	9104.4	8690.7	8690.7	8712.9	8675.9	8671.0
40°	9331.0	9382.7	9821.1	10385.0	10860.3	11094.3	10766.7	10719.9	10744.6	10554.9	10562.3
42.5°	9646.2	9722.6	10353.0	11343.0	12286.2	13037.3	12936.3	12904.3	12830.4	12783.6	12754.1
45°	9806.3	9897.4	10648.5	12007.9	13382.1	14542.0	15064.0	15059.1	14992.6	14938.5	14913.8
47.5°	9725.0	9803.8	10604.2	12209.8	13958.3	15512.3	16667.2	16738.7	16719.0	16797.8	16829.8
50°	9193.1	9294.1	10096.9	11773.9	13717.0	15894.0	17777.9	17910.9	18090.6	18203.9	18354.2
52.5°	8712.9	8796.6	9520.6	11067.2	12924.0	15583.7	18447.7	18721.1	18967.4	19198.8	19378.6
55°	8210.5	8294.2	8929.6	10333.3	12123.6	14667.6	18753.1	19152.1	19536.2	19927.8	20287.3
57.5°	8020.9	8109.5	8582.3	9764.4	11468.6	13758.8	18903.3	19558.4	20183.9	20848.8	21538.4
60°	8513.4	8592.2	8951.7	9779.2	10968.7	12850.1	18600.4	19629.8	20706.0	21801.9	22860.8
62.5°	8363.2	8405.0	8853.2	10136.3	11606.5	11953.7	17287.8	18647.2	20211.0	21816.6	23439.5
65°	7215.6	7296.8	7634.2	8762.1	11249.4	11833.0	15288.2	16654.9	18499.4	20398.2	22572.7
67.5°	5176.5	5063.2	5324.3	6311.8	8727.6	11813.3	13037.3	14049.4	15495.0	16950.4	18733.4
70°	2351.8	2297.7	2502.1	3282.7	5265.2	9335.9	11022.8	11365.1	11902.0	12882.1	14086.4
72.5°	928.4	926.0	1058.9	1356.9	2489.7	6008.9	9269.4	9466.4	9656.1	10082.1	10601.7
75°	608.3	608.3	647.7	731.4	1226.4	2901.0	7841.1	8020.9	8311.5	8432.1	8653.8
77.5°	458.1	460.5	477.8	497.5	677.2	1526.8	5533.6	6171.4	6663.9	7030.9	7299.3
80°	325.1	339.8	371.9	384.2	440.8	869.3	3127.6	3588.1	4144.6	4738.1	5484.3
82.5°	243.8	261.0	315.2	330.0	349.7	495.0	1411.1	1600.7	1869.2	2423.3	3484.7
85°	113.3	125.6	216.7	236.4	253.7	285.7	716.6	800.4	908.7	994.9	1159.9
87.5°	17.2	12.3	36.9	51.7	81.3	83.7	246.3	293.1	317.7	381.7	396.5
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: P158302
 CATALOG NUMBER: VST-E12-LED-E-U-SL2-7060

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5
2.5°	4083.1	4085.5	4088.0	4083.1	4085.5	4085.5	4080.6	4078.2	4078.2	4078.2	4080.6
5°	4161.9	4166.8	4161.9	4164.3	4174.2	4171.7	4166.8	4164.3	4174.2	4176.7	4169.3
7.5°	4302.3	4304.7	4294.9	4307.2	4312.1	4314.6	4314.6	4319.5	4319.5	4326.9	4319.5
10°	4482.0	4482.0	4499.3	4496.8	4499.3	4504.2	4506.7	4516.5	4523.9	4523.9	4528.8
12.5°	4688.9	4691.4	4708.6	4711.1	4720.9	4723.4	4738.1	4728.3	4752.9	4752.9	4760.3
15°	4903.1	4920.4	4922.8	4947.5	4952.4	4954.9	4974.6	4974.6	4991.8	4994.3	4999.2
17.5°	5114.9	5129.7	5139.6	5159.3	5176.5	5183.9	5191.3	5206.0	5218.4	5223.3	5235.6
20°	5297.2	5311.9	5321.8	5341.5	5356.3	5368.6	5376.0	5393.2	5405.5	5410.4	5427.7
22.5°	5449.9	5459.7	5476.9	5504.0	5509.0	5523.7	5545.9	5558.2	5563.1	5577.9	5597.6
25°	5612.4	5627.2	5637.0	5661.6	5681.3	5706.0	5725.7	5745.4	5750.3	5770.0	5787.2
27.5°	5829.1	5843.9	5846.3	5895.6	5915.3	5949.8	5971.9	6001.5	6016.3	6033.5	6068.0
30°	6149.2	6183.7	6198.5	6255.1	6265.0	6304.4	6343.8	6353.6	6375.8	6378.3	6434.9
32.5°	6639.3	6688.6	6708.3	6767.4	6782.1	6819.1	6841.3	6893.0	6895.4	6920.1	6932.4
35°	7442.1	7429.8	7506.2	7520.9	7565.3	7597.3	7619.4	7619.4	7666.2	7668.7	7683.5
37.5°	8538.0	8513.4	8533.1	8444.4	8466.6	8427.2	8419.8	8429.7	8410.0	8414.9	8412.4
40°	10291.4	10180.6	10064.9	9791.5	9732.4	9619.1	9530.5	9459.1	9390.1	9316.2	9267.0
42.5°	12490.6	12330.5	12158.1	11719.8	11515.4	11296.2	11081.9	10958.8	10712.5	10562.3	10481.1
45°	14795.6	14608.5	14367.1	14002.6	13712.1	13478.1	13086.5	12901.8	12520.1	12330.5	12074.4
47.5°	16684.5	16686.9	16492.4	16123.0	15812.7	15657.5	15413.7	15056.7	14623.2	14379.4	13923.8
50°	18336.9	18334.5	18322.1	18100.5	17883.8	17713.9	17499.6	17177.0	16822.4	16546.6	16024.5
52.5°	19558.4	19720.9	19789.9	19787.4	19760.3	19681.5	19519.0	19240.7	18881.2	18726.0	18309.8
55°	20568.1	20922.7	21107.4	21511.3	21548.2	21678.7	21535.9	21538.4	21326.6	21341.4	21208.4
57.5°	22097.4	22745.1	23116.9	24010.9	24459.1	25000.9	24904.8	25357.9	25522.9	25732.3	26010.5
60°	23833.6	25042.7	25924.3	27702.4	28426.4	29303.1	29785.8	30300.5	30674.8	31059.0	31342.2
62.5°	25074.7	26663.1	28111.2	30645.3	31586.0	32509.5	33117.8	33740.8	34161.9	34437.7	34642.1
65°	24567.4	26323.3	28034.8	30692.0	31716.5	32386.4	33110.4	33469.9	33891.0	34120.1	34413.1
67.5°	20875.9	22636.7	24471.4	27606.3	28677.6	29603.6	30167.5	30632.9	30972.8	31263.4	31600.8
70°	15524.6	17450.4	19346.6	22784.5	24136.5	25473.7	26138.6	26714.9	27069.5	27362.5	27734.4
72.5°	11173.1	12379.8	13564.3	17413.4	18765.4	20494.2	21183.7	21824.0	22284.5	22269.8	22663.8
75°	8895.1	9385.2	9912.2	11899.5	12869.8	14327.7	14714.4	15073.9	14857.2	14441.0	14416.4
77.5°	7405.2	7607.1	7784.4	8407.5	8550.3	8897.6	8705.5	8506.0	7863.3	7321.5	7035.8
80°	6011.3	6410.3	6671.3	7114.6	7296.8	7400.3	7427.4	7358.4	7122.0	6794.5	6272.4
82.5°	4469.7	5228.2	5745.4	6617.1	6937.3	7003.8	7131.8	7053.0	6897.9	6631.9	6257.6
85°	1310.1	1482.5	1699.2	2305.0	2701.5	3038.9	3383.7	3553.6	3659.5	3511.7	3125.1
87.5°	460.5	519.6	581.2	800.4	852.1	1029.4	1009.7	1191.9	1199.3	1251.0	1196.8
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: P158302

CATALOG NUMBER: VST-E12-LED-E-U-SL2-7060

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5
2.5°	4078.2	4078.2	4078.2	4080.6	4080.6	4080.6	4075.7	4073.2	4075.7	4080.6	4080.6
5°	4174.2	4176.7	4181.6	4171.7	4174.2	4181.6	4176.7	4174.2	4176.7	4181.6	4176.7
7.5°	4329.3	4331.8	4326.9	4336.7	4336.7	4341.7	4349.0	4341.7	4344.1	4346.6	4349.0
10°	4531.3	4533.7	4538.7	4546.1	4548.5	4553.4	4558.4	4565.8	4565.8	4560.8	4573.1
12.5°	4772.6	4770.2	4775.1	4784.9	4789.9	4797.2	4812.0	4812.0	4821.9	4819.4	4831.7
15°	5009.0	5021.3	5023.8	5041.1	5048.4	5060.8	5078.0	5087.8	5087.8	5102.6	5107.5
17.5°	5245.5	5255.3	5265.2	5279.9	5289.8	5297.2	5316.9	5329.2	5326.7	5353.8	5353.8
20°	5427.7	5447.4	5459.7	5469.6	5486.8	5499.1	5513.9	5528.7	5538.5	5555.7	5560.7
22.5°	5605.0	5617.3	5634.6	5646.9	5666.6	5681.3	5698.6	5710.9	5728.1	5750.3	5757.7
25°	5802.0	5821.7	5841.4	5858.7	5873.4	5890.7	5920.2	5947.3	5971.9	5991.6	5999.0
27.5°	6075.4	6097.5	6127.1	6139.4	6161.6	6176.3	6220.7	6255.1	6267.5	6301.9	6311.8
30°	6444.8	6469.4	6498.9	6513.7	6553.1	6572.8	6619.6	6656.6	6668.9	6710.7	6718.1
32.5°	6979.2	6993.9	7053.0	7050.6	7104.8	7161.4	7188.5	7218.0	7272.2	7294.4	7301.8
35°	7720.4	7754.9	7796.8	7794.3	7863.3	7895.3	7949.4	7981.5	8020.9	8018.4	8060.3
37.5°	8437.0	8449.4	8464.1	8496.2	8545.4	8589.7	8609.4	8641.4	8671.0	8715.3	8769.5
40°	9217.7	9247.3	9249.7	9267.0	9291.6	9348.2	9385.2	9419.6	9520.6	9584.6	9616.7
42.5°	10387.5	10380.1	10330.8	10362.8	10377.6	10463.8	10490.9	10596.8	10710.1	10845.5	10882.5
45°	11892.2	11793.6	11764.1	11751.8	11830.6	11874.9	11985.7	12182.7	12301.0	12429.0	12490.6
47.5°	13744.1	13436.2	13290.9	13258.9	13340.2	13529.8	13566.8	13761.3	13916.5	14010.0	14071.6
50°	15598.4	15357.1	15051.7	14948.3	14926.1	15101.0	15142.9	15305.4	15463.0	15490.1	15458.1
52.5°	17928.1	17534.1	17029.2	16847.0	16701.7	16714.0	16748.5	16817.5	16918.4	16876.6	16790.4
55°	20907.9	20459.7	20211.0	19866.2	19647.0	19607.6	19457.4	19250.6	19243.2	19270.3	19011.7
57.5°	25870.2	25683.0	25788.9	25752.0	25535.2	25665.8	24988.5	24796.5	24643.8	24377.8	24138.9
60°	31593.4	31785.5	32004.6	32509.5	32487.3	32994.6	32524.3	32406.1	32263.2	31443.2	31041.7
62.5°	34999.2	35075.6	35398.2	35868.5	36331.5	36816.7	37035.8	37112.2	36814.2	36144.4	35307.1
65°	34405.7	34743.1	35055.9	35462.2	35937.5	36422.6	36885.6	37156.5	37087.6	36644.3	35723.2
67.5°	31709.1	32063.7	32521.8	32947.8	33460.1	33881.2	34388.5	34885.9	34900.7	34679.1	34038.8
70°	27773.8	28185.1	28657.9	28896.8	29450.9	29832.6	30253.7	30746.2	30906.3	30933.4	30187.2
72.5°	22580.1	22752.5	22983.9	22858.3	22969.2	23213.0	23099.7	23139.1	22530.8	22644.1	21723.1
75°	13751.5	13593.8	12894.5	12256.6	11478.4	10880.0	11022.8	9880.2	8754.7	8698.1	7885.4
77.5°	6974.2	6723.0	6289.6	5839.0	5179.0	4422.9	3792.5	3112.8	2539.0	2211.5	1898.7
80°	5939.9	5762.6	5523.7	5196.2	4716.0	4157.0	3499.4	2982.3	2502.1	2002.1	1603.2
82.5°	5683.8	5142.0	4794.8	4521.4	4001.8	3484.7	3125.1	2770.5	2430.6	2122.8	1682.0
85°	2819.7	2494.7	2110.5	1871.6	1440.7	1127.9	1056.5	869.3	810.2	625.5	527.0
87.5°	948.1	775.7	578.7	487.6	389.1	317.7	312.8	278.3	275.8	251.2	231.5
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: P158302

CATALOG NUMBER: VST-E12-LED-E-U-SL2-7060

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5
2.5°	4078.2	4083.1	4083.1	4078.2	4080.6	4075.7	4078.2	4080.6	4073.2	4070.8	4063.4
5°	4179.1	4176.7	4176.7	4179.1	4186.5	4189.0	4176.7	4181.6	4184.0	4171.7	4144.6
7.5°	4346.6	4346.6	4354.0	4351.5	4366.3	4361.4	4358.9	4358.9	4358.9	4334.3	4289.9
10°	4573.1	4573.1	4580.5	4590.4	4592.8	4587.9	4587.9	4590.4	4602.7	4553.4	4484.5
12.5°	4826.8	4839.1	4836.7	4836.7	4866.2	4858.8	4849.0	4858.8	4871.1	4802.2	4703.7
15°	5110.0	5117.4	5122.3	5139.6	5134.6	5151.9	5156.8	5151.9	5164.2	5075.5	4910.5
17.5°	5366.1	5380.9	5385.8	5405.5	5405.5	5408.0	5427.7	5420.3	5422.8	5321.8	5085.4
20°	5577.9	5592.7	5600.1	5622.2	5627.2	5637.0	5644.4	5649.3	5661.6	5541.0	5228.2
22.5°	5789.7	5802.0	5814.3	5829.1	5848.8	5861.1	5871.0	5875.9	5898.1	5757.7	5363.7
25°	6026.1	6053.2	6065.5	6090.1	6109.8	6129.5	6144.3	6146.8	6183.7	6008.9	5474.5
27.5°	6341.3	6378.3	6398.0	6437.4	6457.1	6476.8	6471.9	6501.4	6553.1	6297.0	5560.7
30°	6755.1	6801.8	6814.2	6853.6	6885.6	6905.3	6927.4	6952.1	6986.5	6617.1	5602.5
32.5°	7331.3	7402.7	7420.0	7442.1	7488.9	7523.4	7538.2	7577.6	7587.4	6920.1	5590.2
35°	8121.8	8089.8	8173.5	8193.2	8259.7	8286.8	8304.1	8355.8	8316.4	7250.1	5509.0
37.5°	8836.0	8826.1	8907.4	8951.7	9037.9	9018.2	9060.1	9094.6	8954.2	7484.0	5358.7
40°	9707.8	9695.5	9808.7	9823.5	9956.5	9927.0	9944.2	9971.3	9658.5	7646.5	5085.4
42.5°	10924.3	10929.3	11049.9	11064.7	11081.9	11136.1	11047.5	11052.4	10407.2	7690.9	4634.7
45°	12527.5	12613.7	12539.8	12542.3	12537.4	12433.9	12323.1	12192.6	11185.4	7538.2	4053.5
47.5°	14081.5	14022.3	13928.8	13842.6	13771.2	13608.6	13446.1	13224.4	11857.7	7176.2	3405.8
50°	15411.3	15278.3	15194.6	14955.7	14785.8	14574.0	14347.4	14093.8	12409.3	6654.1	2800.0
52.5°	16647.5	16509.6	16196.9	15948.1	15704.3	15423.6	15160.1	14862.1	12896.9	6058.1	2337.1
55°	18701.4	18580.7	18268.0	17812.4	17511.9	17125.3	16778.1	16374.2	13884.4	5575.4	2031.7
57.5°	23481.4	23378.0	22720.4	22432.3	22035.8	21065.5	20922.7	20292.3	16531.8	5518.8	1851.9
60°	30211.8	29768.6	29221.8	28433.8	27505.4	27185.2	26471.1	25631.3	20792.2	5674.0	1706.6
62.5°	34344.2	33334.5	32531.6	31622.9	30768.4	30034.5	29253.9	28423.9	22971.6	5469.6	1526.8
65°	34654.5	33467.5	32406.1	31339.7	30379.3	29465.6	28707.1	27877.2	22262.4	4701.2	1292.9
67.5°	32945.4	31694.3	30536.9	29327.7	28357.4	27532.5	26567.1	25769.2	20262.7	3659.5	1076.2
70°	29421.3	28323.0	27325.6	26022.9	25217.6	24212.8	23599.6	22602.2	17662.1	2494.7	889.0
72.5°	21191.1	20363.7	20038.6	19129.9	18075.9	17484.8	17201.6	16233.8	13052.1	1549.0	726.5
75°	7158.9	7363.3	6895.4	6178.8	6528.5	5989.2	6208.3	5747.8	5521.3	889.0	610.7
77.5°	1588.4	1492.4	1379.1	1280.6	1273.2	1196.8	1268.3	1199.3	1283.0	566.4	539.3
80°	1253.5	990.0	842.2	768.3	728.9	706.8	689.5	669.8	610.7	482.7	497.5
82.5°	1354.5	1022.0	748.6	598.4	512.2	480.2	472.8	453.1	448.2	467.9	502.4
85°	433.4	362.0	307.8	290.6	268.4	256.1	251.2	243.8	295.5	509.8	482.7
87.5°	226.6	199.5	177.3	169.9	147.8	137.9	135.4	137.9	206.9	509.8	349.7
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: P158302

CATALOG NUMBER: VST-E12-LED-E-U-SL2-7060

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5	4053.5
2.5°	4056.0	4053.5	4048.6	4046.1	4043.7	4031.4	4041.2
5°	4132.3	4107.7	4085.5	4058.5	4043.7	4031.4	4031.4
7.5°	4248.1	4179.1	4122.5	4060.9	4019.0	3987.0	3982.1
10°	4393.4	4260.4	4129.9	4019.0	3940.2	3881.1	3873.8
12.5°	4531.3	4329.3	4122.5	3940.2	3817.1	3733.4	3728.5
15°	4659.3	4366.3	4065.8	3797.4	3612.7	3501.9	3489.6
17.5°	4760.3	4344.1	3937.8	3597.9	3346.7	3216.2	3208.8
20°	4782.5	4255.5	3755.5	3351.7	3085.7	2947.8	2915.8
22.5°	4762.8	4095.4	3529.0	3080.8	2775.4	2637.5	2620.3
25°	4703.7	3900.8	3248.2	2765.6	2482.4	2342.0	2307.5
27.5°	4597.8	3671.8	2945.3	2460.2	2179.4	2044.0	2009.5
30°	4440.2	3396.0	2622.7	2174.5	1883.9	1775.6	1741.1
32.5°	4221.0	3061.1	2305.0	1881.5	1640.1	1553.9	1539.2
35°	3918.1	2676.9	1972.6	1640.1	1462.8	1411.1	1403.7
37.5°	3531.4	2292.7	1694.3	1467.7	1339.7	1307.7	1302.7
40°	3026.6	1898.7	1497.3	1344.6	1251.0	1223.9	1219.0
42.5°	2507.0	1603.2	1352.0	1246.1	1169.8	1145.1	1137.7
45°	2051.4	1403.7	1243.6	1164.8	1093.4	1066.3	1063.9
47.5°	1711.5	1288.0	1155.0	1091.0	1019.5	987.5	990.0
50°	1462.8	1182.1	1081.1	1026.9	945.7	916.1	918.6
52.5°	1292.9	1076.2	1012.2	950.6	881.6	852.1	852.1
55°	1159.9	990.0	945.7	879.2	825.0	797.9	795.4
57.5°	1051.6	921.0	881.6	827.5	773.3	741.3	741.3
60°	985.1	871.8	839.8	790.5	726.5	692.0	689.5
62.5°	945.7	857.0	829.9	761.0	689.5	655.1	647.7
65°	916.1	891.5	857.0	743.7	660.0	623.1	615.7
67.5°	918.6	972.7	923.5	753.6	650.1	596.0	586.1
70°	933.3	1036.8	970.3	775.7	692.0	583.6	561.5
72.5°	859.5	938.3	874.2	738.8	674.8	561.5	534.4
75°	716.6	684.6	628.0	600.9	605.8	509.8	499.9
77.5°	581.2	509.8	455.6	477.8	509.8	435.9	426.0
80°	504.8	413.7	386.6	423.6	463.0	371.9	347.2
82.5°	472.8	349.7	332.5	440.8	485.1	320.1	280.7
85°	416.2	285.7	261.0	519.6	485.1	241.3	224.1
87.5°	278.3	169.9	162.5	381.7	332.5	167.5	135.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)