

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: P158289

Luminaire Tested: **VST-E11-LED-E-U-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158289
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-SL2-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (231) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30228.6 lumens
Efficiency: N/A
Efficacy: 112.1 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



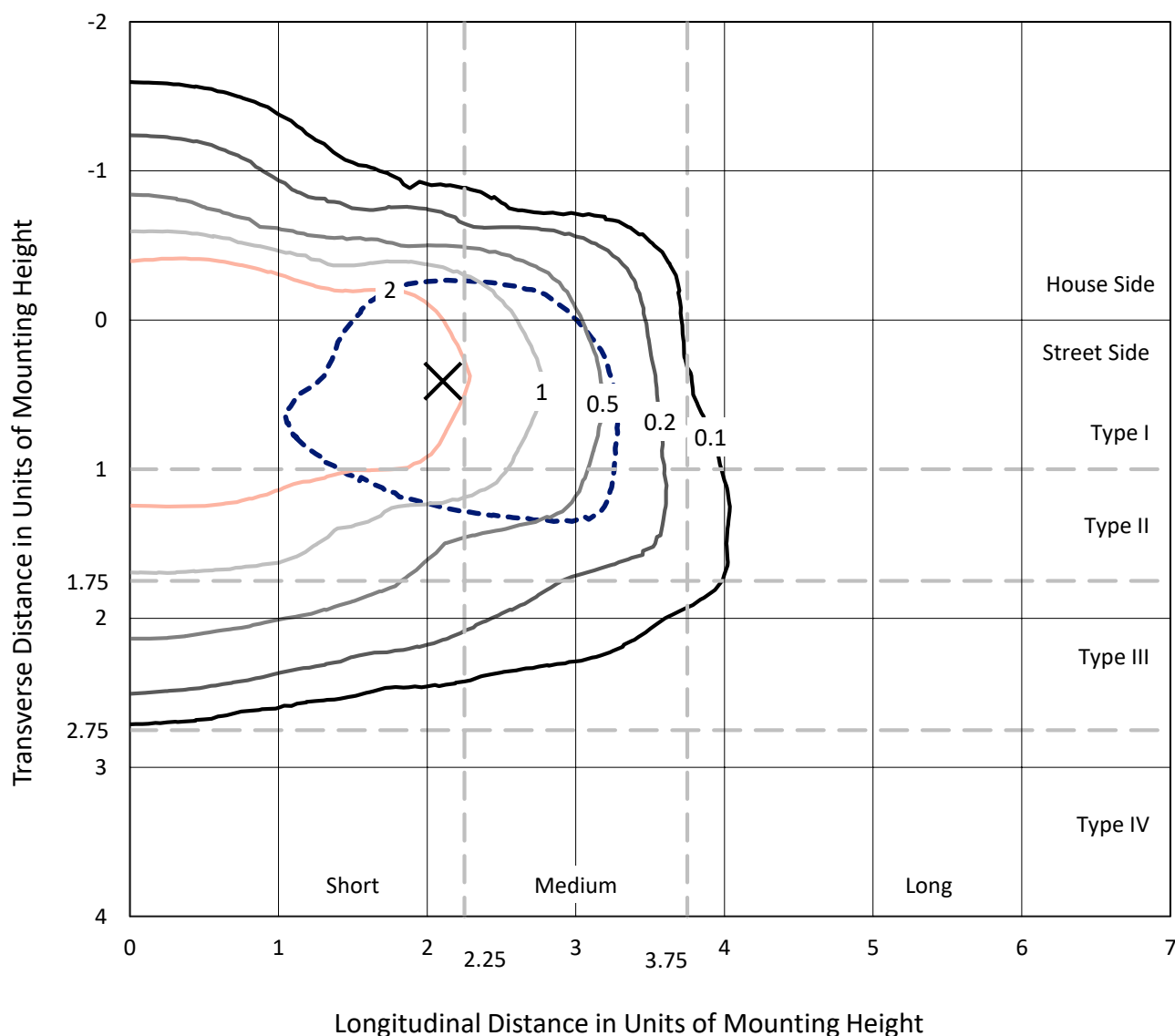
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

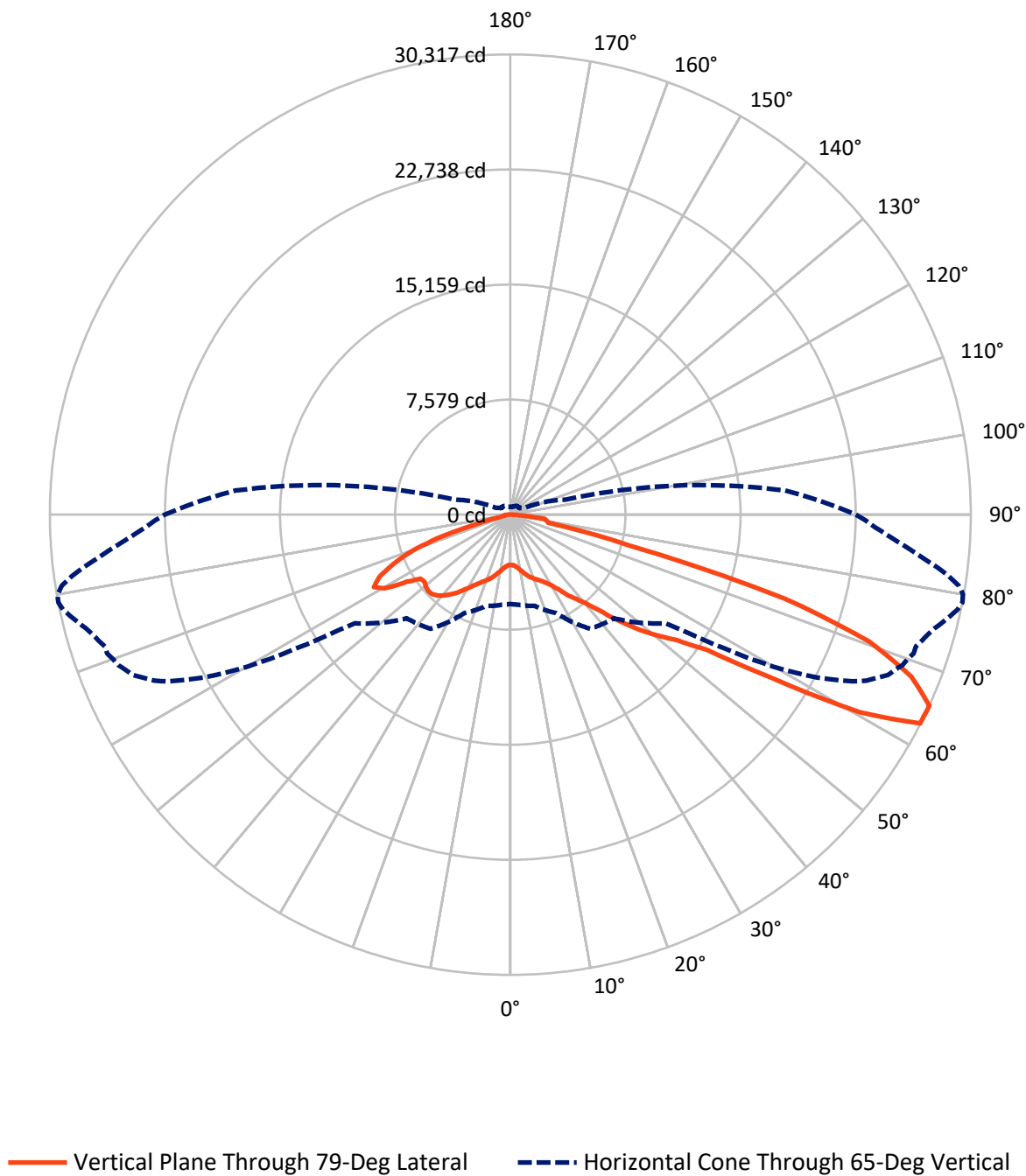


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6946.0	0.0	6946.0
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	23282.7	0.0	23282.7
	% Fixture	77.0	0.0	77.0
Total	Lumens	30228.6	0.0	30228.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.2	1.1
10°-20°	1062.8	3.5
20°-30°	1832.1	6.1
30°-40°	3001.0	9.9
40°-50°	5025.6	16.6
50°-60°	6797.9	22.5
60°-70°	8371.6	27.7
70°-80°	3240.6	10.7
80°-90°	569.9	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°	30228.6	100.0
0°-180°	30228.6	100.0

Coefficient of Utilization



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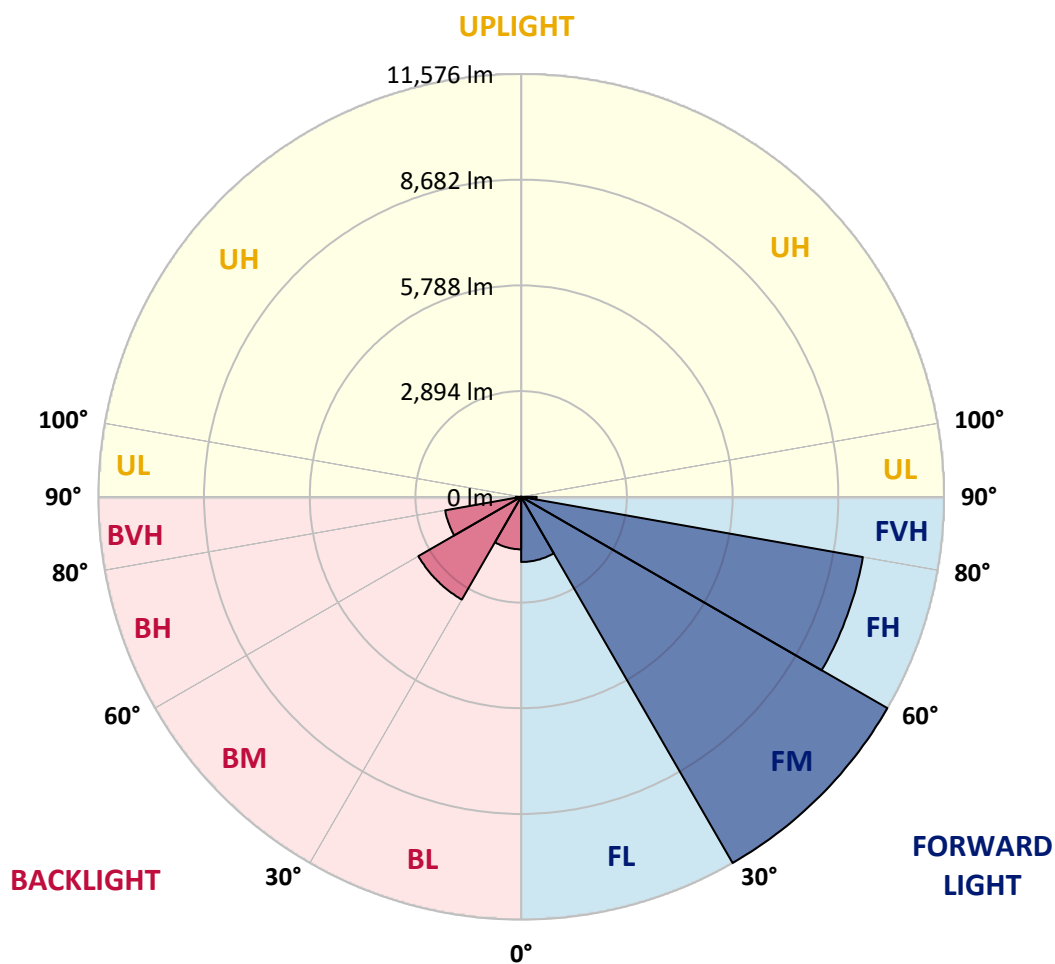
CATALOG NUMBER: VST-E11-LED-E-U-SL2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1784.6	5.9			
FM	(30°-60°)	11576.3	38.3			
FH	(60°-80°)	9498.9	31.4			G4/12000
FVH	(80°-90°)	422.9	1.4			G3/500
BL	(0°-30°)	1437.5	4.8	B3/2500		
BM	(30°-60°)	3248.3	10.7	B3/5000		
BH	(60°-80°)	2113.2	7.0	B3/2500		G3/2500
BVH	(80°-90°)	147.0	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°	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4
2.5°	3313.5	3303.4	3313.5	3321.5	3327.5	3335.6	3333.5	3331.5	3329.5	3331.5	3331.5
5°	3341.6	3339.6	3349.6	3357.7	3371.7	3381.8	3393.8	3393.8	3393.8	3391.8	3395.8
7.5°	3432.0	3430.0	3440.0	3448.1	3460.1	3480.2	3496.3	3504.3	3502.3	3502.3	3502.3
10°	3580.7	3572.7	3572.7	3572.7	3588.7	3602.8	3639.0	3643.0	3651.0	3647.0	3649.0
12.5°	3725.4	3727.4	3721.4	3715.3	3717.3	3745.5	3797.7	3807.8	3809.8	3815.8	3819.8
15°	3856.0	3854.0	3839.9	3825.8	3843.9	3892.2	3960.5	3978.6	3978.6	3990.6	3998.6
17.5°	3976.5	3972.5	3946.4	3922.3	3940.4	4022.8	4129.3	4141.3	4159.4	4165.4	4173.5
20°	4119.2	4111.2	4081.0	4016.7	4016.7	4129.3	4269.9	4282.0	4298.0	4302.1	4316.1
22.5°	4318.1	4298.0	4233.7	4117.2	4085.1	4215.7	4388.5	4394.5	4406.6	4422.6	4434.7
25°	4543.2	4547.2	4442.7	4239.8	4169.4	4306.1	4503.0	4513.0	4535.1	4547.2	4561.3
27.5°	4776.3	4782.3	4665.8	4412.6	4294.0	4430.7	4657.7	4669.8	4695.9	4710.0	4732.1
30°	5041.5	5049.5	4937.0	4681.8	4501.0	4613.5	4886.8	4918.9	4941.0	4959.1	4995.3
32.5°	5678.5	5630.3	5551.9	5280.6	4995.3	4987.3	5256.5	5292.7	5322.8	5361.0	5395.2
35°	6480.2	6510.4	6550.5	6367.7	6116.5	5933.7	5955.8	5935.7	5963.8	6020.1	6054.2
37.5°	7115.2	7181.5	7356.3	7474.9	7464.8	7428.6	7091.1	7091.1	7109.2	7079.0	7075.0
40°	7613.5	7655.7	8013.4	8473.5	8861.3	9052.2	8785.0	8746.8	8766.9	8612.2	8618.2
42.5°	7870.7	7933.0	8447.4	9255.2	10024.8	10637.6	10555.2	10529.1	10468.8	10430.6	10406.5
45°	8001.3	8075.7	8688.5	9797.7	10918.9	11865.3	12291.3	12287.3	12233.0	12188.8	12168.7
47.5°	7935.0	7999.3	8652.4	9962.5	11389.1	12657.0	13599.4	13657.7	13641.6	13705.9	13732.0
50°	7501.0	7583.4	8238.4	9606.8	11192.2	12968.5	14505.6	14614.2	14760.8	14853.3	14975.8
52.5°	7109.2	7177.5	7768.2	9030.1	10545.2	12715.3	15052.2	15275.2	15476.2	15665.1	15811.7
55°	6699.2	6767.6	7286.0	8431.3	9892.1	11967.8	15301.4	15626.9	15940.3	16259.8	16553.2
57.5°	6544.5	6616.9	7002.7	7967.2	9357.6	11226.4	15423.9	15958.4	16468.8	17011.3	17574.0
60°	6946.4	7010.7	7304.1	7979.2	8949.7	10484.9	15176.8	16016.7	16894.8	17789.0	18653.0
62.5°	6823.8	6858.0	7223.7	8270.6	9470.2	9753.5	14105.8	15215.0	16490.9	17801.0	19125.2
65°	5887.5	5953.8	6229.0	7149.3	9178.8	9655.0	12474.2	13589.4	15094.4	16643.6	18417.9
67.5°	4223.7	4131.3	4344.3	5150.0	7121.2	9639.0	10637.6	11463.5	12643.0	13830.5	15285.3
70°	1918.9	1874.7	2041.5	2678.5	4296.0	7617.5	8993.9	9273.2	9711.3	10511.0	11493.6
72.5°	757.5	755.5	864.0	1107.2	2031.5	4902.9	7563.3	7724.0	7878.7	8226.4	8650.3
75°	496.3	496.3	528.5	596.8	1000.7	2367.0	6397.8	6544.5	6781.6	6880.1	7060.9
77.5°	373.7	375.8	389.8	405.9	552.6	1245.8	4515.1	5035.5	5437.4	5736.8	5955.8
80°	265.2	277.3	303.4	313.5	359.7	709.3	2551.9	2927.7	3381.8	3866.0	4474.9
82.5°	198.9	213.0	257.2	269.3	285.3	403.9	1151.4	1306.1	1525.1	1977.2	2843.3
85°	92.4	102.5	176.8	192.9	207.0	233.1	584.7	653.0	741.5	811.8	946.4
87.5°	14.1	10.0	30.1	42.2	66.3	68.3	200.9	239.1	259.2	311.5	323.5
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°	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4
2.5°	3331.5	3333.5	3335.6	3331.5	3333.5	3333.5	3329.5	3327.5	3327.5	3327.5	3329.5
5°	3395.8	3399.9	3395.8	3397.8	3405.9	3403.9	3399.9	3397.8	3405.9	3407.9	3401.9
7.5°	3510.4	3512.4	3504.3	3514.4	3518.4	3520.4	3520.4	3524.4	3524.4	3530.5	3524.4
10°	3657.1	3657.1	3671.1	3669.1	3671.1	3675.1	3677.1	3685.2	3691.2	3691.2	3695.2
12.5°	3825.8	3827.9	3841.9	3843.9	3852.0	3854.0	3866.0	3858.0	3878.1	3878.1	3884.1
15°	4000.7	4014.7	4016.7	4036.8	4040.8	4042.9	4058.9	4058.9	4073.0	4075.0	4079.0
17.5°	4173.5	4185.5	4193.6	4209.6	4223.7	4229.7	4235.8	4247.8	4257.9	4261.9	4271.9
20°	4322.2	4334.2	4342.3	4358.3	4370.4	4380.4	4386.5	4400.5	4410.6	4414.6	4428.7
22.5°	4446.7	4454.8	4468.8	4490.9	4495.0	4507.0	4525.1	4535.1	4539.2	4551.2	4567.3
25°	4579.4	4591.4	4599.4	4619.5	4635.6	4655.7	4671.8	4687.9	4691.9	4708.0	4722.0
27.5°	4756.2	4768.2	4770.2	4810.4	4826.5	4854.6	4872.7	4896.8	4908.9	4923.0	4951.1
30°	5017.4	5045.5	5057.6	5103.8	5111.8	5144.0	5176.1	5184.2	5202.3	5204.3	5250.5
32.5°	5417.3	5457.5	5473.5	5521.8	5533.8	5563.9	5582.0	5624.2	5626.2	5646.3	5656.4
35°	6072.3	6062.3	6124.6	6136.6	6172.8	6198.9	6217.0	6217.0	6255.2	6257.2	6269.2
37.5°	6966.5	6946.4	6962.5	6890.1	6908.2	6876.1	6870.0	6878.1	6862.0	6866.0	6864.0
40°	8397.2	8306.7	8212.3	7989.3	7941.0	7848.6	7776.3	7718.0	7661.7	7601.4	7561.3
42.5°	10191.5	10060.9	9920.3	9562.6	9395.8	9217.0	9042.2	8941.7	8740.8	8618.2	8551.9
45°	12072.3	11919.6	11722.7	11425.3	11188.2	10997.3	10677.8	10527.1	10215.6	10060.9	9851.9
47.5°	13613.5	13615.5	13456.8	13155.4	12902.2	12775.6	12576.7	12285.3	11931.6	11732.7	11361.0
50°	14961.8	14959.8	14949.7	14768.9	14592.1	14453.4	14278.6	14015.4	13726.0	13501.0	13075.0
52.5°	15958.4	16091.0	16147.3	16145.3	16123.2	16058.9	15926.3	15699.2	15405.8	15279.3	14939.7
55°	16782.3	17071.6	17222.3	17551.9	17582.0	17688.5	17571.9	17574.0	17401.2	17413.2	17304.7
57.5°	18030.1	18558.5	18862.0	19591.4	19957.1	20399.1	20320.8	20690.5	20825.1	20995.9	21223.0
60°	19446.7	20433.3	21152.6	22603.4	23194.2	23909.5	24303.3	24723.3	25028.7	25342.2	25573.3
62.5°	20459.4	21755.5	22937.0	25004.6	25772.2	26525.7	27022.0	27530.4	27874.0	28099.0	28265.8
65°	20045.5	21478.2	22874.7	25042.8	25878.7	26425.2	27016.0	27309.4	27653.0	27839.8	28078.9
67.5°	17033.4	18470.1	19967.1	22525.0	23399.1	24154.6	24614.8	24994.6	25271.9	25509.0	25784.2
70°	12667.1	14238.4	15785.6	18590.7	19693.8	20784.9	21327.5	21797.7	22087.0	22326.1	22629.5
72.5°	9116.5	10101.1	11067.6	14208.3	15311.4	16722.0	17284.6	17807.0	18182.8	18170.7	18492.2
75°	7257.8	7657.7	8087.7	9709.3	10501.0	11690.5	12006.0	12299.4	12122.5	11783.0	11762.9
77.5°	6042.2	6206.9	6351.6	6860.0	6976.5	7259.9	7103.1	6940.4	6415.9	5973.9	5740.8
80°	4904.9	5230.4	5443.4	5805.1	5953.8	6038.2	6060.3	6004.0	5811.1	5543.9	5117.9
82.5°	3647.0	4265.9	4687.9	5399.2	5660.4	5714.7	5819.1	5754.8	5628.2	5411.2	5105.8
85°	1069.0	1209.6	1386.5	1880.8	2204.3	2479.6	2760.9	2899.5	2985.9	2865.4	2549.9
87.5°	375.8	424.0	474.2	653.0	695.2	839.9	823.8	972.5	978.6	1020.8	976.6
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°	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4
2.5°	3327.5	3327.5	3327.5	3329.5	3329.5	3329.5	3325.5	3323.5	3325.5	3329.5	3329.5
5°	3405.9	3407.9	3411.9	3403.9	3405.9	3411.9	3407.9	3405.9	3407.9	3411.9	3407.9
7.5°	3532.5	3534.5	3530.5	3538.5	3538.5	3542.5	3548.5	3542.5	3544.5	3546.5	3548.5
10°	3697.2	3699.3	3703.3	3709.3	3711.3	3715.3	3719.3	3725.4	3725.4	3721.4	3731.4
12.5°	3894.2	3892.2	3896.2	3904.2	3908.2	3914.3	3926.3	3926.3	3934.3	3932.3	3942.4
15°	4087.1	4097.1	4099.1	4113.2	4119.2	4129.3	4143.3	4151.4	4151.4	4163.4	4167.4
17.5°	4280.0	4288.0	4296.0	4308.1	4316.1	4322.2	4338.2	4348.3	4346.3	4368.4	4368.4
20°	4428.7	4444.7	4454.8	4462.8	4476.9	4486.9	4499.0	4511.0	4519.1	4533.1	4537.2
22.5°	4573.3	4583.4	4597.4	4607.5	4623.6	4635.6	4649.7	4659.7	4673.8	4691.9	4697.9
25°	4734.1	4750.2	4766.2	4780.3	4792.3	4806.4	4830.5	4852.6	4872.7	4888.8	4894.8
27.5°	4957.1	4975.2	4999.3	5009.4	5027.4	5039.5	5075.7	5103.8	5113.8	5142.0	5150.0
30°	5258.5	5278.6	5302.7	5314.8	5346.9	5363.0	5401.2	5431.3	5441.4	5475.5	5481.6
32.5°	5694.6	5706.6	5754.8	5752.8	5797.0	5843.3	5865.4	5889.5	5933.7	5951.8	5957.8
35°	6299.4	6327.5	6361.7	6359.7	6415.9	6442.0	6486.2	6512.4	6544.5	6542.5	6576.7
37.5°	6884.1	6894.2	6906.2	6932.3	6972.5	7008.7	7024.8	7050.9	7075.0	7111.2	7155.4
40°	7521.1	7545.2	7547.2	7561.3	7581.4	7627.6	7657.7	7685.8	7768.2	7820.5	7846.6
42.5°	8475.5	8469.5	8429.3	8455.4	8467.5	8537.8	8559.9	8646.3	8738.8	8849.3	8879.4
45°	9703.3	9622.9	9598.8	9588.7	9653.0	9689.2	9779.6	9940.4	10036.8	10141.3	10191.5
47.5°	11214.3	10963.1	10844.6	10818.5	10884.8	11039.5	11069.6	11228.4	11355.0	11431.3	11481.5
50°	12727.4	12530.4	12281.3	12196.9	12178.8	12321.5	12355.6	12488.2	12616.8	12638.9	12612.8
52.5°	14628.2	14306.7	13894.8	13746.1	13627.6	13637.6	13665.7	13722.0	13804.4	13770.2	13699.9
55°	17059.6	16693.9	16490.9	16209.6	16030.8	15998.6	15876.0	15707.3	15701.2	15723.3	15512.3
57.5°	21108.4	20955.7	21042.1	21012.0	20835.2	20941.7	20389.1	20232.4	20107.8	19890.8	19695.9
60°	25778.2	25934.9	26113.8	26525.7	26507.6	26921.5	26537.8	26441.3	26324.8	25655.6	25328.1
62.5°	28557.2	28619.5	28882.7	29266.5	29644.2	30040.1	30218.9	30281.2	30038.1	29491.5	28808.3
65°	28072.9	28348.2	28603.4	28934.9	29322.7	29718.6	30096.4	30317.4	30261.1	29899.4	29147.9
67.5°	25872.7	26162.0	26535.8	26883.4	27301.3	27644.9	28058.9	28464.7	28476.8	28296.0	27773.5
70°	22661.7	22997.2	23383.0	23578.0	24030.1	24341.5	24685.1	25087.0	25217.6	25239.7	24630.9
72.5°	18423.9	18564.6	18753.5	18651.0	18741.4	18940.3	18847.9	18880.0	18383.7	18476.2	17724.7
75°	11220.3	11091.7	10521.1	10000.6	9365.7	8877.4	8993.9	8061.6	7143.3	7097.1	6434.0
77.5°	5690.5	5485.6	5131.9	4764.2	4225.7	3608.8	3094.4	2539.8	2071.7	1804.4	1549.2
80°	4846.6	4701.9	4507.0	4239.8	3847.9	3391.8	2855.3	2433.3	2041.5	1633.6	1308.1
82.5°	4637.6	4195.6	3912.2	3689.2	3265.2	2843.3	2549.9	2260.5	1983.2	1732.1	1372.4
85°	2300.7	2035.5	1722.0	1527.1	1175.5	920.3	862.0	709.3	661.1	510.4	430.0
87.5°	773.6	633.0	472.2	397.9	317.5	259.2	255.2	227.1	225.0	205.0	188.9
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°	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4
2.5°	3327.5	3331.5	3331.5	3327.5	3329.5	3325.5	3327.5	3329.5	3323.5	3321.5	3315.5
5°	3409.9	3407.9	3407.9	3409.9	3415.9	3417.9	3407.9	3411.9	3413.9	3403.9	3381.8
7.5°	3546.5	3546.5	3552.6	3550.6	3562.6	3558.6	3556.6	3556.6	3556.6	3536.5	3500.3
10°	3731.4	3731.4	3737.4	3745.5	3747.5	3743.5	3743.5	3745.5	3755.5	3715.3	3659.1
12.5°	3938.4	3948.4	3946.4	3946.4	3970.5	3964.5	3956.5	3964.5	3974.5	3918.3	3837.9
15°	4169.4	4175.5	4179.5	4193.6	4189.5	4203.6	4207.6	4203.6	4213.7	4141.3	4006.7
17.5°	4378.4	4390.5	4394.5	4410.6	4410.6	4412.6	4428.7	4422.6	4424.6	4342.3	4149.4
20°	4551.2	4563.3	4569.3	4587.4	4591.4	4599.4	4605.5	4609.5	4619.5	4521.1	4265.9
22.5°	4724.0	4734.1	4744.1	4756.2	4772.3	4782.3	4790.3	4794.4	4812.4	4697.9	4376.4
25°	4916.9	4939.0	4949.1	4969.2	4985.2	5001.3	5013.4	5015.4	5045.5	4902.9	4466.8
27.5°	5174.1	5204.3	5220.3	5252.5	5268.6	5284.6	5280.6	5304.7	5346.9	5138.0	4537.2
30°	5511.7	5549.9	5559.9	5592.1	5618.2	5634.3	5652.4	5672.5	5700.6	5399.2	4571.3
32.5°	5981.9	6040.2	6054.2	6072.3	6110.5	6138.6	6150.7	6182.8	6190.9	5646.3	4561.3
35°	6626.9	6600.8	6669.1	6685.2	6739.4	6761.5	6775.6	6817.8	6785.6	5915.6	4495.0
37.5°	7209.6	7201.6	7267.9	7304.1	7374.4	7358.3	7392.5	7420.6	7306.1	6106.5	4372.4
40°	7920.9	7910.9	8003.3	8015.4	8123.9	8099.8	8113.8	8135.9	7880.8	6239.1	4149.4
42.5°	8913.6	8917.6	9016.0	9028.1	9042.2	9086.4	9014.0	9018.1	8491.6	6275.3	3781.6
45°	10221.7	10292.0	10231.7	10233.7	10229.7	10145.3	10054.9	9948.4	9126.6	6150.7	3307.4
47.5°	11489.6	11441.4	11365.0	11294.7	11236.4	11103.8	10971.2	10790.3	9675.1	5855.3	2779.0
50°	12574.6	12466.1	12397.8	12202.9	12064.3	11891.5	11706.6	11499.6	10125.2	5429.3	2284.7
52.5°	13583.3	13470.8	13215.6	13012.7	12813.8	12584.7	12369.7	12126.6	10523.1	4943.1	1906.9
55°	15259.2	15160.7	14905.5	14533.8	14288.6	13973.2	13689.8	13360.3	11328.8	4549.2	1657.7
57.5°	19159.4	19075.0	18538.5	18303.4	17979.8	17188.2	17071.6	16557.2	13488.9	4503.0	1511.0
60°	24651.0	24289.3	23843.2	23200.2	22442.7	22181.4	21598.7	20913.5	16965.1	4629.6	1392.5
62.5°	28022.7	27198.8	26543.8	25802.3	25105.1	24506.3	23869.3	23192.2	18743.4	4462.8	1245.8
65°	28275.9	27307.3	26441.3	25571.3	24787.6	24042.1	23423.2	22746.1	18164.7	3835.9	1054.9
67.5°	26881.4	25860.6	24916.2	23929.6	23137.9	22464.8	21677.1	21026.1	16533.1	2985.9	878.1
70°	24006.0	23109.8	22296.0	21233.0	20576.0	19756.1	19255.8	18442.0	14411.2	2035.5	725.4
72.5°	17290.6	16615.5	16350.2	15608.8	14748.8	14266.5	14035.5	13245.8	10649.7	1263.9	592.8
75°	5841.2	6008.0	5626.2	5041.5	5326.8	4886.8	5065.6	4689.9	4505.0	725.4	498.3
77.5°	1296.0	1217.7	1125.2	1044.9	1038.8	976.6	1034.8	978.6	1046.9	462.2	440.1
80°	1022.8	807.8	687.2	626.9	594.8	576.7	562.6	546.5	498.3	393.8	405.9
82.5°	1105.2	833.9	610.8	488.3	417.9	391.8	385.8	369.7	365.7	381.8	409.9
85°	353.6	295.4	251.2	237.1	219.0	209.0	205.0	198.9	241.1	415.9	393.8
87.5°	184.9	162.8	144.7	138.6	120.6	112.5	110.5	112.5	168.8	415.9	285.3
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-E11-LED-E-U-SL2-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4	3307.4
2.5°	3309.4	3307.4	3303.4	3301.4	3299.4	3289.3	3297.4
5°	3371.7	3351.6	3333.5	3311.4	3299.4	3289.3	3289.3
7.5°	3466.2	3409.9	3363.7	3313.5	3279.3	3253.2	3249.2
10°	3584.7	3476.2	3369.7	3279.3	3215.0	3166.8	3160.7
12.5°	3697.2	3532.5	3363.7	3215.0	3114.5	3046.2	3042.2
15°	3801.7	3562.6	3317.5	3098.4	2947.7	2857.3	2847.3
17.5°	3884.1	3544.5	3213.0	2935.7	2730.7	2624.2	2618.2
20°	3902.2	3472.2	3064.3	2734.8	2517.7	2405.2	2379.1
22.5°	3886.1	3341.6	2879.4	2513.7	2264.6	2152.0	2138.0
25°	3837.9	3182.8	2650.4	2256.5	2025.4	1910.9	1882.8
27.5°	3751.5	2996.0	2403.2	2007.4	1778.3	1667.8	1639.6
30°	3622.9	2770.9	2140.0	1774.3	1537.2	1448.8	1420.6
32.5°	3444.1	2497.6	1880.8	1535.2	1338.2	1267.9	1255.9
35°	3196.9	2184.2	1609.5	1338.2	1193.6	1151.4	1145.3
37.5°	2881.4	1870.7	1382.4	1197.6	1093.1	1067.0	1063.0
40°	2469.5	1549.2	1221.7	1097.1	1020.8	998.7	994.6
42.5°	2045.5	1308.1	1103.1	1016.7	954.5	934.4	928.3
45°	1673.8	1145.3	1014.7	950.4	892.2	870.1	868.0
47.5°	1396.5	1050.9	942.4	890.2	831.9	805.8	807.8
50°	1193.6	964.5	882.1	837.9	771.6	747.5	749.5
52.5°	1054.9	878.1	825.9	775.6	719.4	695.2	695.2
55°	946.4	807.8	771.6	717.3	673.1	651.0	649.0
57.5°	858.0	751.5	719.4	675.1	630.9	604.8	604.8
60°	803.7	711.3	685.2	645.0	592.8	564.6	562.6
62.5°	771.6	699.3	677.2	620.9	562.6	534.5	528.5
65°	747.5	727.4	699.3	606.8	538.5	508.4	502.3
67.5°	749.5	793.7	753.5	614.9	530.5	486.3	478.2
70°	761.6	845.9	791.7	633.0	564.6	476.2	458.1
72.5°	701.3	765.6	713.3	602.8	550.6	458.1	436.0
75°	584.7	558.6	512.4	490.3	494.3	415.9	407.9
77.5°	474.2	415.9	371.7	389.8	415.9	355.7	347.6
80°	411.9	337.6	315.5	345.6	377.8	303.4	283.3
82.5°	385.8	285.3	271.3	359.7	395.8	261.2	229.1
85°	339.6	233.1	213.0	424.0	395.8	196.9	182.9
87.5°	227.1	138.6	132.6	311.5	271.3	136.6	110.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)