

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: P158288

Luminaire Tested: **VST-E11-LED-E-U-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158288
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-SL2-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (231) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27933.1 lumens
Efficiency: N/A
Efficacy: 103.6 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



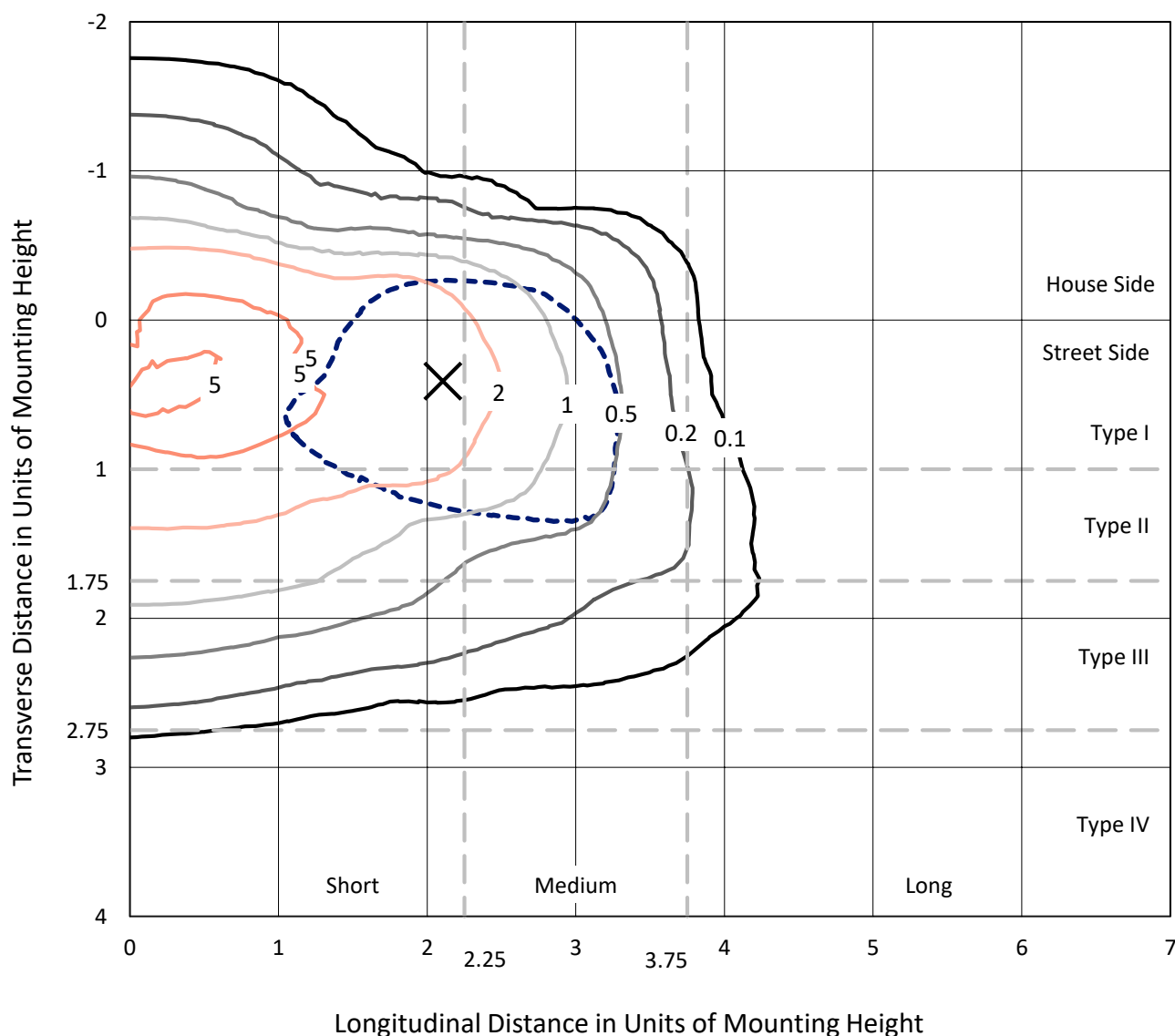
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

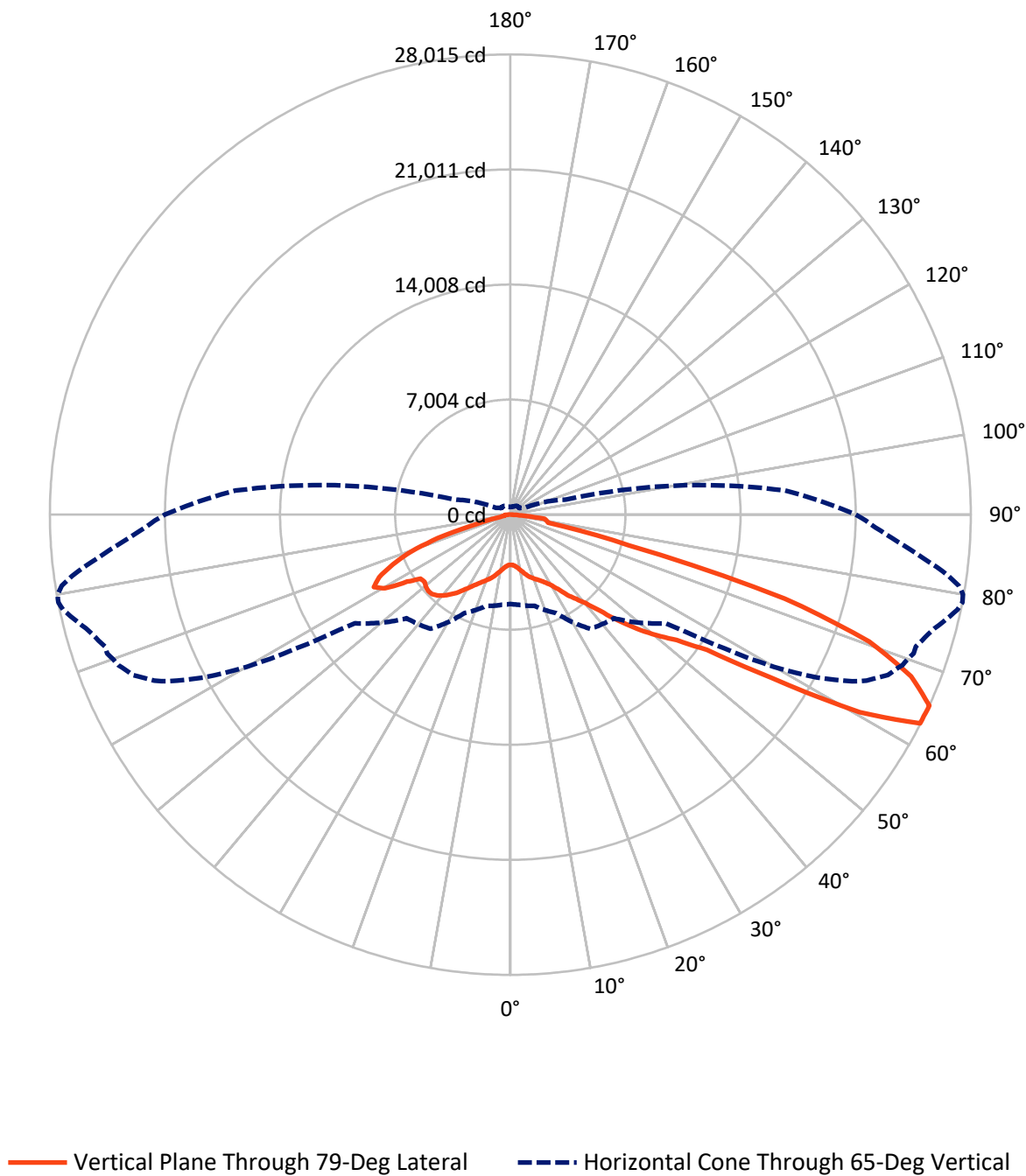


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6418.5	0.0	6418.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	21514.6	0.0	21514.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	27933.1	0.0	27933.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.4	1.1
10°-20°	982.1	3.5
20°-30°	1693.0	6.1
30°-40°	2773.1	9.9
40°-50°	4644.0	16.6
50°-60°	6281.6	22.5
60°-70°	7735.8	27.7
70°-80°	2994.5	10.7
80°-90°	526.6	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°	27933.1	100.0
0°-180°	27933.1	100.0

Coefficient of Utilization



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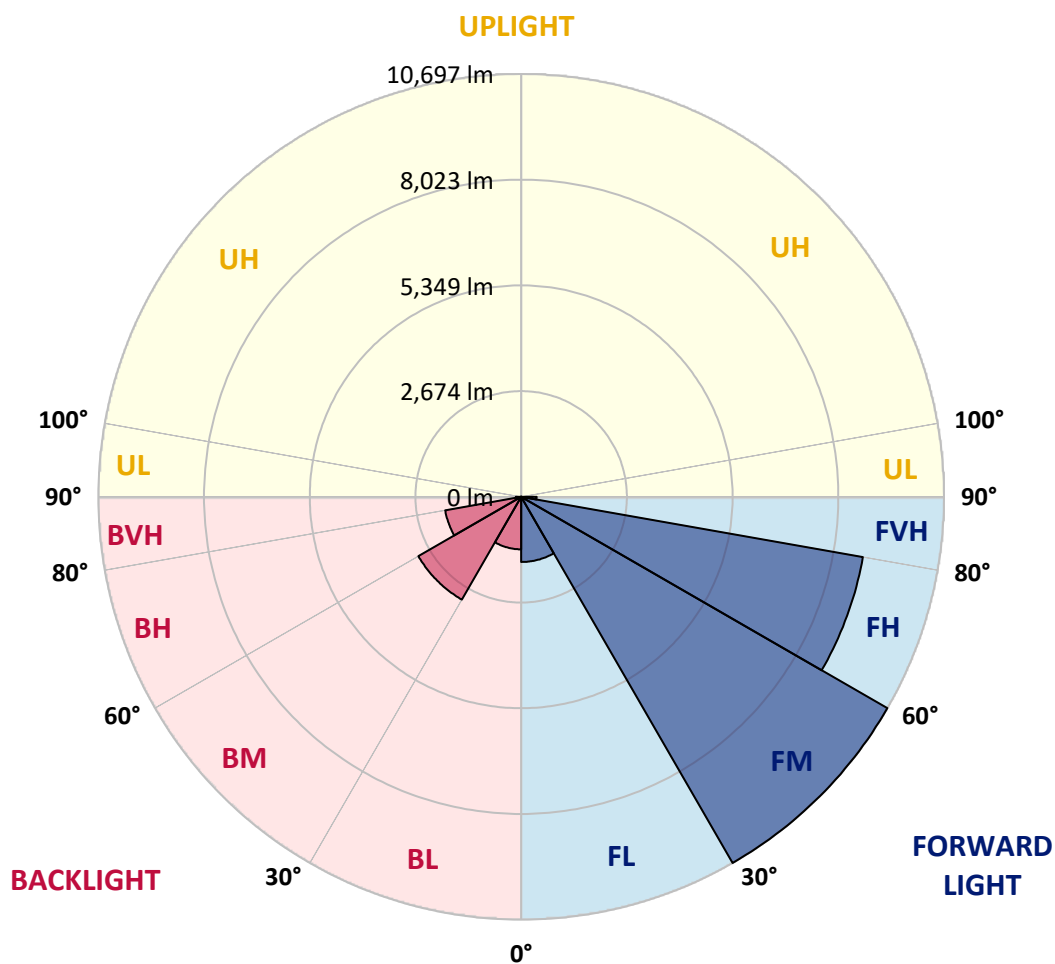
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1649.1	5.9			
FM	(30°-60°)	10697.2	38.3			
FH	(60°-80°)	8777.6	31.4			G4/12000
FVH	(80°-90°)	390.8	1.4			G3/500
BL	(0°-30°)	1328.3	4.8	B3/2500		
BM	(30°-60°)	3001.6	10.7	B3/5000		
BH	(60°-80°)	1952.7	7.0	B3/2500		G3/2500
BVH	(80°-90°)	135.9	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°	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3
2.5°	3061.8	3052.5	3061.8	3069.3	3074.8	3082.3	3080.4	3078.5	3076.7	3078.5	3078.5
5°	3087.8	3086.0	3095.3	3102.7	3115.7	3125.0	3136.1	3136.1	3136.1	3134.2	3138.0
7.5°	3171.4	3169.5	3178.8	3186.2	3197.4	3215.9	3230.8	3238.2	3236.4	3236.4	3236.4
10°	3308.8	3301.4	3301.4	3301.4	3316.2	3329.2	3362.6	3366.3	3373.8	3370.1	3371.9
12.5°	3442.5	3444.3	3438.8	3433.2	3435.0	3461.0	3509.3	3518.6	3520.5	3526.0	3529.7
15°	3563.2	3561.3	3548.3	3535.3	3552.0	3596.6	3659.7	3676.4	3676.4	3687.6	3695.0
17.5°	3674.6	3670.9	3646.7	3624.4	3641.1	3717.3	3815.7	3826.8	3843.5	3849.1	3856.5
20°	3806.4	3799.0	3771.1	3711.7	3711.7	3815.7	3945.7	3956.8	3971.7	3975.4	3988.4
22.5°	3990.2	3971.7	3912.2	3804.5	3774.8	3895.5	4055.2	4060.8	4071.9	4086.8	4097.9
25°	4198.2	4201.9	4105.3	3917.8	3852.8	3979.1	4161.0	4170.3	4190.8	4201.9	4214.9
27.5°	4413.6	4419.1	4311.4	4077.5	3967.9	4094.2	4304.0	4315.2	4339.3	4352.3	4372.7
30°	4658.7	4666.1	4562.1	4326.3	4159.2	4263.2	4515.7	4545.4	4565.8	4582.5	4616.0
32.5°	5247.3	5202.7	5130.3	4879.6	4616.0	4608.5	4857.3	4890.8	4918.6	4953.9	4985.5
35°	5988.1	6016.0	6053.1	5884.1	5652.0	5483.1	5503.5	5484.9	5510.9	5562.9	5594.5
37.5°	6574.9	6636.1	6797.7	6907.2	6897.9	6864.5	6552.6	6552.6	6569.3	6541.4	6537.7
40°	7035.3	7074.3	7404.8	7830.0	8188.4	8364.8	8117.8	8082.6	8101.1	7958.2	7963.7
42.5°	7273.0	7330.6	7805.9	8552.3	9263.5	9829.8	9753.7	9729.5	9673.8	9638.5	9616.3
45°	7393.7	7462.4	8028.7	9053.7	10089.7	10964.3	11357.9	11354.2	11304.1	11263.2	11244.7
47.5°	7332.4	7391.8	7995.3	9205.9	10524.2	11695.9	12566.7	12620.5	12605.7	12665.1	12689.2
50°	6931.4	7007.5	7612.8	8877.3	10342.3	11983.7	13404.1	13504.4	13639.9	13725.3	13838.6
52.5°	6569.3	6632.4	7178.3	8344.4	9744.4	11749.7	13909.1	14115.2	14300.9	14475.5	14611.0
55°	6190.5	6253.6	6732.7	7791.0	9140.9	11059.0	14139.4	14440.2	14729.8	15025.1	15296.2
57.5°	6047.5	6114.4	6470.9	7362.1	8647.0	10373.8	14252.6	14746.5	15218.2	15719.5	16239.4
60°	6418.9	6478.3	6749.4	7373.3	8270.1	9688.7	14024.3	14800.4	15611.8	16438.1	17236.5
62.5°	6305.6	6337.2	6675.1	7642.5	8751.0	9012.8	13034.6	14059.5	15238.6	16449.2	17672.8
65°	5440.4	5501.6	5756.0	6606.4	8481.8	8921.8	11526.9	12557.4	13948.1	15379.7	17019.2
67.5°	3903.0	3817.5	4014.4	4758.9	6580.4	8907.0	9829.8	10592.9	11682.9	12780.2	14124.5
70°	1773.2	1732.4	1886.5	2475.1	3969.8	7039.1	8310.9	8569.0	8973.8	9712.8	10620.8
72.5°	700.0	698.1	798.4	1023.1	1877.2	4530.5	6988.9	7137.5	7280.4	7601.7	7993.4
75°	458.6	458.6	488.3	551.5	924.7	2187.3	5912.0	6047.5	6266.6	6357.6	6524.7
77.5°	345.4	347.2	360.2	375.1	510.6	1151.2	4172.2	4653.1	5024.4	5301.1	5503.5
80°	245.1	256.2	280.4	289.7	332.4	655.4	2358.1	2705.3	3125.0	3572.4	4135.0
82.5°	183.8	196.8	237.7	248.8	263.7	373.2	1063.9	1206.9	1409.3	1827.1	2627.3
85°	85.4	94.7	163.4	178.3	191.2	215.4	540.3	603.5	685.2	750.1	874.5
87.5°	13.0	9.3	27.9	39.0	61.3	63.1	185.7	221.0	239.5	287.8	298.9
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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CATALOG NUMBER: VST-E11-LED-E-U-SL2-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3
2.5°	3078.5	3080.4	3082.3	3078.5	3080.4	3080.4	3076.7	3074.8	3074.8	3074.8	3076.7
5°	3138.0	3141.7	3138.0	3139.8	3147.2	3145.4	3141.7	3139.8	3147.2	3149.1	3143.5
7.5°	3243.8	3245.7	3238.2	3247.5	3251.2	3253.1	3253.1	3256.8	3256.8	3262.4	3256.8
10°	3379.3	3379.3	3392.3	3390.5	3392.3	3396.1	3397.9	3405.3	3410.9	3410.9	3414.6
12.5°	3535.3	3537.2	3550.2	3552.0	3559.4	3561.3	3572.4	3565.0	3583.6	3583.6	3589.2
15°	3696.8	3709.8	3711.7	3730.3	3734.0	3735.8	3750.7	3750.7	3763.7	3765.5	3769.3
17.5°	3856.5	3867.7	3875.1	3890.0	3903.0	3908.5	3914.1	3925.2	3934.5	3938.2	3947.5
20°	3993.9	4005.1	4012.5	4027.4	4038.5	4047.8	4053.4	4066.3	4075.6	4079.3	4092.3
22.5°	4109.1	4116.5	4129.5	4149.9	4153.6	4164.8	4181.5	4190.8	4194.5	4205.6	4220.5
25°	4231.6	4242.7	4250.2	4268.7	4283.6	4302.2	4317.0	4331.9	4335.6	4350.4	4363.4
27.5°	4395.0	4406.1	4408.0	4445.1	4460.0	4486.0	4502.7	4525.0	4536.1	4549.1	4575.1
30°	4636.4	4662.4	4673.5	4716.2	4723.6	4753.4	4783.1	4790.5	4807.2	4809.1	4851.8
32.5°	5005.9	5043.0	5057.9	5102.4	5113.6	5141.4	5158.1	5197.1	5199.0	5217.6	5226.8
35°	5611.2	5601.9	5659.5	5670.6	5704.0	5728.2	5744.9	5744.9	5780.2	5782.0	5793.2
37.5°	6437.5	6418.9	6433.7	6366.9	6383.6	6353.9	6348.3	6355.8	6340.9	6344.6	6342.8
40°	7759.5	7675.9	7588.7	7382.6	7338.0	7252.6	7185.7	7131.9	7079.9	7024.2	6987.1
42.5°	9417.6	9296.9	9166.9	8836.4	8682.3	8517.1	8355.5	8262.7	8077.0	7963.7	7902.5
45°	11155.5	11014.4	10832.5	10557.7	10338.6	10162.2	9866.9	9727.7	9439.9	9296.9	9103.8
47.5°	12579.7	12581.5	12434.9	12156.3	11922.4	11805.4	11621.6	11352.4	11025.6	10841.7	10498.2
50°	13825.6	13823.7	13814.4	13647.3	13483.9	13355.8	13194.3	12951.0	12683.7	12475.7	12082.1
52.5°	14746.5	14869.1	14921.1	14919.2	14898.8	14839.4	14716.8	14507.0	14235.9	14119.0	13805.2
55°	15507.8	15775.2	15914.5	16219.0	16246.8	16345.2	16237.5	16239.4	16079.7	16090.9	15990.6
57.5°	16660.9	17149.2	17429.6	18103.6	18441.5	18850.0	18777.6	19119.3	19243.7	19401.5	19611.3
60°	17969.9	18881.6	19546.3	20886.9	21432.8	22093.8	22457.8	22845.8	23128.1	23417.7	23631.2
62.5°	18905.7	20103.4	21195.1	23105.8	23815.1	24511.4	24970.0	25439.7	25757.3	25965.2	26119.3
65°	18523.2	19847.1	21137.6	23141.0	23913.5	24418.5	24964.4	25235.5	25553.0	25725.7	25946.6
67.5°	15739.9	17067.5	18450.8	20814.5	21622.2	22320.4	22745.6	23096.5	23352.7	23571.8	23826.2
70°	11705.1	13157.1	14586.9	17178.9	18198.3	19206.5	19707.9	20142.3	20409.7	20630.7	20911.1
72.5°	8424.2	9334.0	10227.1	13129.3	14148.7	15452.1	15972.0	16454.8	16802.0	16790.9	17087.9
75°	6706.7	7076.2	7473.5	8972.0	9703.5	10802.7	11094.3	11365.4	11202.0	10888.2	10869.6
77.5°	5583.3	5735.6	5869.3	6339.0	6446.7	6708.5	6563.7	6413.3	5928.7	5520.2	5304.8
80°	4532.4	4833.2	5030.0	5364.2	5501.6	5579.6	5600.0	5548.1	5369.8	5122.9	4729.2
82.5°	3370.1	3941.9	4331.9	4989.2	5230.5	5280.7	5377.2	5317.8	5200.8	5000.3	4718.1
85°	987.8	1117.8	1281.2	1737.9	2036.9	2291.3	2551.2	2679.3	2759.2	2647.8	2356.3
87.5°	347.2	391.8	438.2	603.5	642.4	776.1	761.3	898.7	904.3	943.2	902.4
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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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3
2.5°	3074.8	3074.8	3074.8	3076.7	3076.7	3076.7	3073.0	3071.1	3073.0	3076.7	3076.7
5°	3147.2	3149.1	3152.8	3145.4	3147.2	3152.8	3149.1	3147.2	3149.1	3152.8	3149.1
7.5°	3264.2	3266.1	3262.4	3269.8	3269.8	3273.5	3279.1	3273.5	3275.4	3277.2	3279.1
10°	3416.5	3418.3	3422.0	3427.6	3429.5	3433.2	3436.9	3442.5	3442.5	3438.8	3448.0
12.5°	3598.4	3596.6	3600.3	3607.7	3611.4	3617.0	3628.1	3628.1	3635.6	3633.7	3643.0
15°	3776.7	3786.0	3787.8	3800.8	3806.4	3815.7	3828.7	3836.1	3836.1	3847.2	3851.0
17.5°	3954.9	3962.4	3969.8	3980.9	3988.4	3993.9	4008.8	4018.1	4016.2	4036.6	4036.6
20°	4092.3	4107.2	4116.5	4123.9	4136.9	4146.2	4157.3	4168.5	4175.9	4188.9	4192.6
22.5°	4226.0	4235.3	4248.3	4257.6	4272.5	4283.6	4296.6	4305.9	4318.9	4335.6	4341.2
25°	4374.6	4389.4	4404.3	4417.3	4428.4	4441.4	4463.7	4484.1	4502.7	4517.5	4523.1
27.5°	4580.7	4597.4	4619.7	4629.0	4645.7	4656.8	4690.2	4716.2	4725.5	4751.5	4758.9
30°	4859.2	4877.8	4900.0	4911.2	4940.9	4955.7	4991.0	5018.9	5028.2	5059.7	5065.3
32.5°	5262.1	5273.3	5317.8	5316.0	5356.8	5399.5	5419.9	5442.2	5483.1	5499.8	5505.4
35°	5821.0	5847.0	5878.6	5876.7	5928.7	5952.8	5993.7	6017.8	6047.5	6045.7	6077.2
37.5°	6361.3	6370.6	6381.8	6405.9	6443.0	6476.4	6491.3	6515.4	6537.7	6571.1	6612.0
40°	6949.9	6972.2	6974.1	6987.1	7005.6	7048.3	7076.2	7102.2	7178.3	7226.6	7250.7
42.5°	7831.9	7826.3	7789.2	7813.3	7824.5	7889.5	7909.9	7989.7	8075.1	8177.3	8205.1
45°	8966.4	8892.1	8869.8	8860.6	8920.0	8953.4	9036.9	9185.5	9274.6	9371.2	9417.6
47.5°	10362.7	10130.6	10021.0	9996.9	10058.2	10201.1	10229.0	10375.7	10492.7	10563.2	10609.6
50°	11760.8	11578.9	11348.6	11270.7	11253.9	11385.8	11417.3	11539.9	11658.7	11679.1	11655.0
52.5°	13517.4	13220.3	12839.6	12702.2	12592.7	12602.0	12628.0	12680.0	12756.1	12724.5	12659.5
55°	15764.1	15426.1	15238.6	14978.6	14813.4	14783.7	14670.4	14514.4	14508.9	14529.3	14334.3
57.5°	19505.5	19364.4	19444.2	19416.3	19253.0	19351.4	18840.7	18695.9	18580.8	18380.3	18200.2
60°	23820.6	23965.5	24130.7	24511.4	24494.6	24877.1	24522.5	24433.4	24325.7	23707.4	23404.7
62.5°	26388.6	26446.1	26689.4	27044.0	27393.1	27758.9	27924.1	27981.7	27757.0	27252.0	26620.7
65°	25941.1	26195.5	26431.3	26737.6	27096.0	27461.8	27810.9	28015.1	27963.1	27628.9	26934.5
67.5°	23907.9	24175.3	24520.6	24841.9	25228.1	25545.6	25928.1	26303.1	26314.3	26147.2	25664.4
70°	20940.8	21250.8	21607.3	21787.5	22205.2	22493.0	22810.5	23181.9	23302.6	23323.0	22760.4
72.5°	17024.8	17154.8	17329.3	17234.6	17318.2	17502.0	17416.6	17446.3	16987.7	17073.1	16378.7
75°	10368.3	10249.4	9722.1	9241.2	8654.5	8203.3	8310.9	7449.4	6600.9	6558.1	5945.4
77.5°	5258.4	5069.0	4742.2	4402.4	3904.8	3334.8	2859.4	2347.0	1914.3	1667.4	1431.6
80°	4478.6	4344.9	4164.8	3917.8	3555.7	3134.2	2638.5	2248.6	1886.5	1509.6	1208.8
82.5°	4285.4	3877.0	3615.2	3409.0	3017.3	2627.3	2356.3	2088.9	1832.6	1600.5	1268.2
85°	2126.0	1880.9	1591.3	1411.2	1086.2	850.4	796.6	655.4	610.9	471.6	397.4
87.5°	714.9	584.9	436.3	367.6	293.4	239.5	235.8	209.8	208.0	189.4	174.5
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3
2.5°	3074.8	3078.5	3078.5	3074.8	3076.7	3073.0	3074.8	3076.7	3071.1	3069.3	3063.7
5°	3151.0	3149.1	3149.1	3151.0	3156.5	3158.4	3149.1	3152.8	3154.7	3145.4	3125.0
7.5°	3277.2	3277.2	3282.8	3280.9	3292.1	3288.4	3286.5	3286.5	3286.5	3267.9	3234.5
10°	3448.0	3448.0	3453.6	3461.0	3462.9	3459.2	3459.2	3461.0	3470.3	3433.2	3381.2
12.5°	3639.3	3648.6	3646.7	3646.7	3669.0	3663.4	3656.0	3663.4	3672.7	3620.7	3546.4
15°	3852.8	3858.4	3862.1	3875.1	3871.4	3884.4	3888.1	3884.4	3893.7	3826.8	3702.4
17.5°	4045.9	4057.1	4060.8	4075.6	4075.6	4077.5	4092.3	4086.8	4088.6	4012.5	3834.3
20°	4205.6	4216.7	4222.3	4239.0	4242.7	4250.2	4255.7	4259.5	4268.7	4177.8	3941.9
22.5°	4365.3	4374.6	4383.9	4395.0	4409.9	4419.1	4426.6	4430.3	4447.0	4341.2	4044.1
25°	4543.5	4564.0	4573.2	4591.8	4606.7	4621.5	4632.7	4634.5	4662.4	4530.5	4127.6
27.5°	4781.2	4809.1	4823.9	4853.6	4868.5	4883.3	4879.6	4901.9	4940.9	4747.8	4192.6
30°	5093.1	5128.4	5137.7	5167.4	5191.6	5206.4	5223.1	5241.7	5267.7	4989.2	4224.2
32.5°	5527.6	5581.5	5594.5	5611.2	5646.5	5672.5	5683.6	5713.3	5720.7	5217.6	4214.9
35°	6123.7	6099.5	6162.7	6177.5	6227.6	6248.1	6261.1	6300.1	6270.3	5466.4	4153.6
37.5°	6662.1	6654.7	6716.0	6749.4	6814.4	6799.5	6831.1	6857.1	6751.3	5642.8	4040.4
40°	7319.4	7310.1	7395.6	7406.7	7507.0	7484.7	7497.7	7518.1	7282.3	5765.3	3834.3
42.5°	8236.7	8240.4	8331.4	8342.5	8355.5	8396.4	8329.5	8333.2	7846.8	5798.7	3494.5
45°	9445.4	9510.4	9454.7	9456.6	9452.9	9374.9	9291.3	9192.9	8433.5	5683.6	3056.3
47.5°	10617.1	10572.5	10501.9	10437.0	10383.1	10260.6	10138.0	9970.9	8940.4	5410.7	2567.9
50°	11619.7	11519.5	11456.3	11276.2	11148.1	10988.4	10817.6	10626.4	9356.3	5017.0	2111.2
52.5°	12551.8	12447.9	12212.0	12024.5	11840.7	11629.0	11430.3	11205.7	9724.0	4567.7	1762.1
55°	14100.4	14009.4	13773.6	13430.1	13203.6	12912.0	12650.2	12345.7	10468.5	4203.8	1531.8
57.5°	17704.4	17626.4	17130.7	16913.4	16614.5	15882.9	15775.2	15299.9	12464.6	4161.0	1396.3
60°	22779.0	22444.8	22032.6	21438.4	20738.4	20497.0	19958.5	19325.4	15676.8	4278.0	1286.7
62.5°	25894.7	25133.4	24528.1	23842.9	23198.6	22645.3	22056.7	21431.0	17320.0	4123.9	1151.2
65°	26128.6	25233.6	24433.4	23629.4	22905.2	22216.4	21644.5	21018.8	16785.3	3544.6	974.8
67.5°	24840.0	23896.8	23024.1	22112.4	21380.8	20758.8	20030.9	19429.3	15277.6	2759.2	811.4
70°	22183.0	21354.8	20602.8	19620.6	19013.4	18255.9	17793.5	17041.5	13316.8	1880.9	670.3
72.5°	15977.6	15353.7	15108.6	14423.5	13628.8	13183.1	12969.6	12239.9	9840.9	1167.9	547.8
75°	5397.7	5551.8	5199.0	4658.7	4922.3	4515.7	4680.9	4333.7	4162.9	670.3	460.5
77.5°	1197.6	1125.2	1039.8	965.5	960.0	902.4	956.2	904.3	967.4	427.1	406.6
80°	945.1	746.4	635.0	579.3	549.6	532.9	519.9	505.0	460.5	363.9	375.1
82.5°	1021.2	770.6	564.5	451.2	386.2	362.1	356.5	341.6	337.9	352.8	378.8
85°	326.8	272.9	232.1	219.1	202.4	193.1	189.4	183.8	222.8	384.4	363.9
87.5°	170.8	150.4	133.7	128.1	111.4	104.0	102.1	104.0	156.0	384.4	263.7
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-SL2-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3
2.5°	3058.1	3056.3	3052.5	3050.7	3048.8	3039.5	3047.0
5°	3115.7	3097.1	3080.4	3060.0	3048.8	3039.5	3039.5
7.5°	3202.9	3151.0	3108.2	3061.8	3030.3	3006.1	3002.4
10°	3312.5	3212.2	3113.8	3030.3	2970.8	2926.3	2920.7
12.5°	3416.5	3264.2	3108.2	2970.8	2878.0	2814.9	2811.2
15°	3513.0	3292.1	3065.5	2863.2	2723.9	2640.3	2631.1
17.5°	3589.2	3275.4	2969.0	2712.8	2523.4	2425.0	2419.4
20°	3605.9	3208.5	2831.6	2527.1	2326.5	2222.6	2198.4
22.5°	3591.0	3087.8	2660.8	2322.8	2092.6	1988.6	1975.6
25°	3546.4	2941.1	2449.1	2085.2	1871.6	1765.8	1739.8
27.5°	3466.6	2768.5	2220.7	1854.9	1643.3	1541.1	1515.1
30°	3347.8	2560.5	1977.5	1639.5	1420.4	1338.7	1312.7
32.5°	3182.5	2308.0	1737.9	1418.6	1236.6	1171.6	1160.5
35°	2954.1	2018.3	1487.3	1236.6	1102.9	1063.9	1058.4
37.5°	2662.6	1728.7	1277.5	1106.6	1010.1	986.0	982.2
40°	2282.0	1431.6	1128.9	1013.8	943.2	922.8	919.1
42.5°	1890.2	1208.8	1019.4	939.5	882.0	863.4	857.8
45°	1546.7	1058.4	937.7	878.3	824.4	804.0	802.1
47.5°	1290.5	971.1	870.8	822.6	768.7	744.6	746.4
50°	1102.9	891.3	815.1	774.3	713.0	690.7	692.6
52.5°	974.8	811.4	763.1	716.7	664.7	642.4	642.4
55°	874.5	746.4	713.0	662.9	622.0	601.6	599.7
57.5°	792.8	694.4	664.7	623.9	583.0	558.9	558.9
60°	742.7	657.3	633.2	596.0	547.8	521.8	519.9
62.5°	713.0	646.2	625.7	573.7	519.9	493.9	488.3
65°	690.7	672.2	646.2	560.7	497.6	469.8	464.2
67.5°	692.6	733.4	696.3	568.2	490.2	449.3	441.9
70°	703.7	781.7	731.6	584.9	521.8	440.1	423.3
72.5°	648.0	707.4	659.2	557.0	508.8	423.3	402.9
75°	540.3	516.2	473.5	453.1	456.8	384.4	376.9
77.5°	438.2	384.4	343.5	360.2	384.4	328.7	321.2
80°	380.6	311.9	291.5	319.4	349.1	280.4	261.8
82.5°	356.5	263.7	250.7	332.4	365.8	241.4	211.7
85°	313.8	215.4	196.8	391.8	365.8	182.0	169.0
87.5°	209.8	128.1	122.5	287.8	250.7	126.3	102.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)