

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: P159360

Luminaire Tested: **VST-E08-LED-E-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159360
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E08-LED-E-U-T2
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24693.7 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

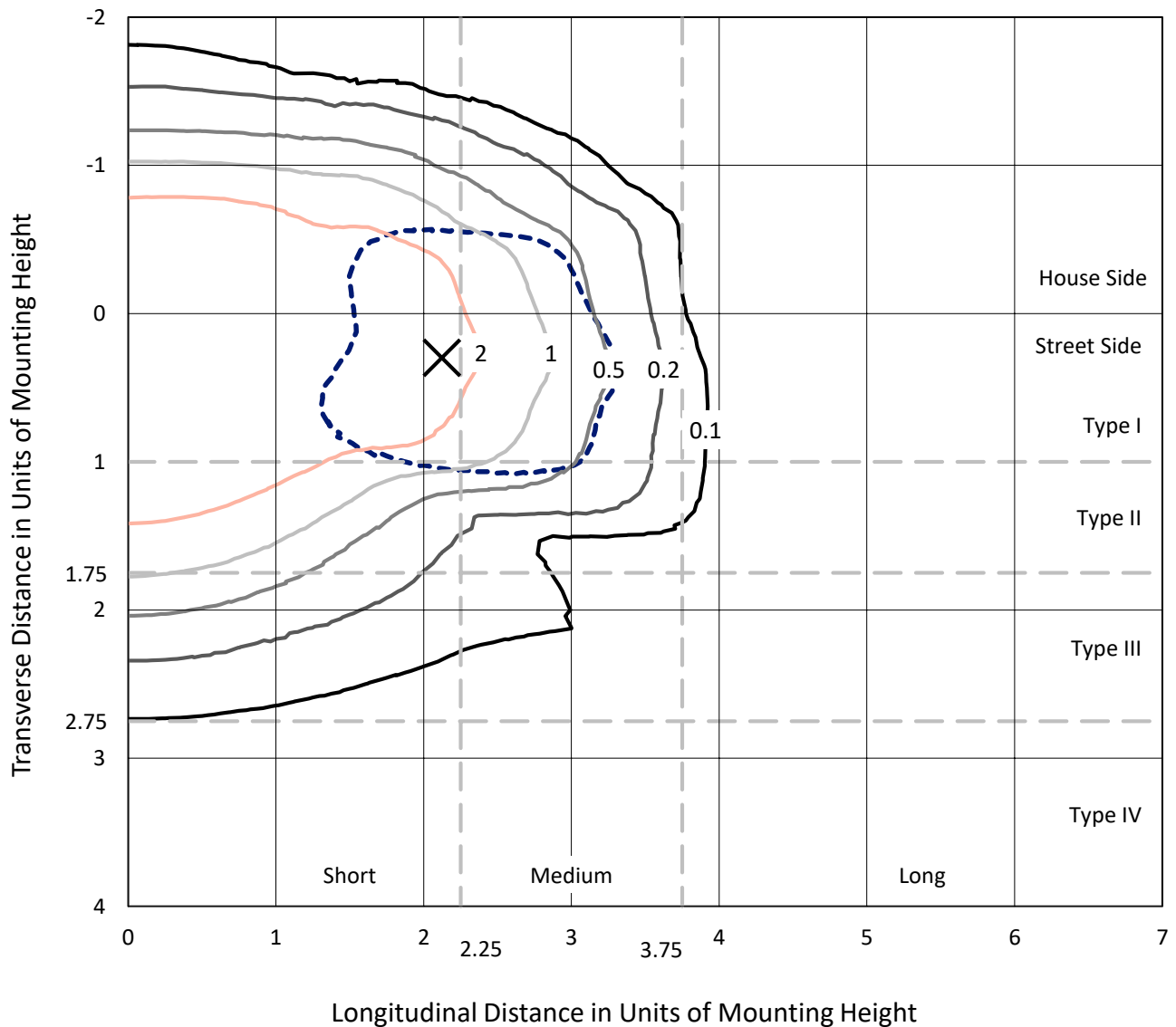
Input Watts (W): 194.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P159360
 CATALOG NUMBER: VST-E08-LED-E-U-T2

Iso-Footcandle Lines of Horizontal Illumination

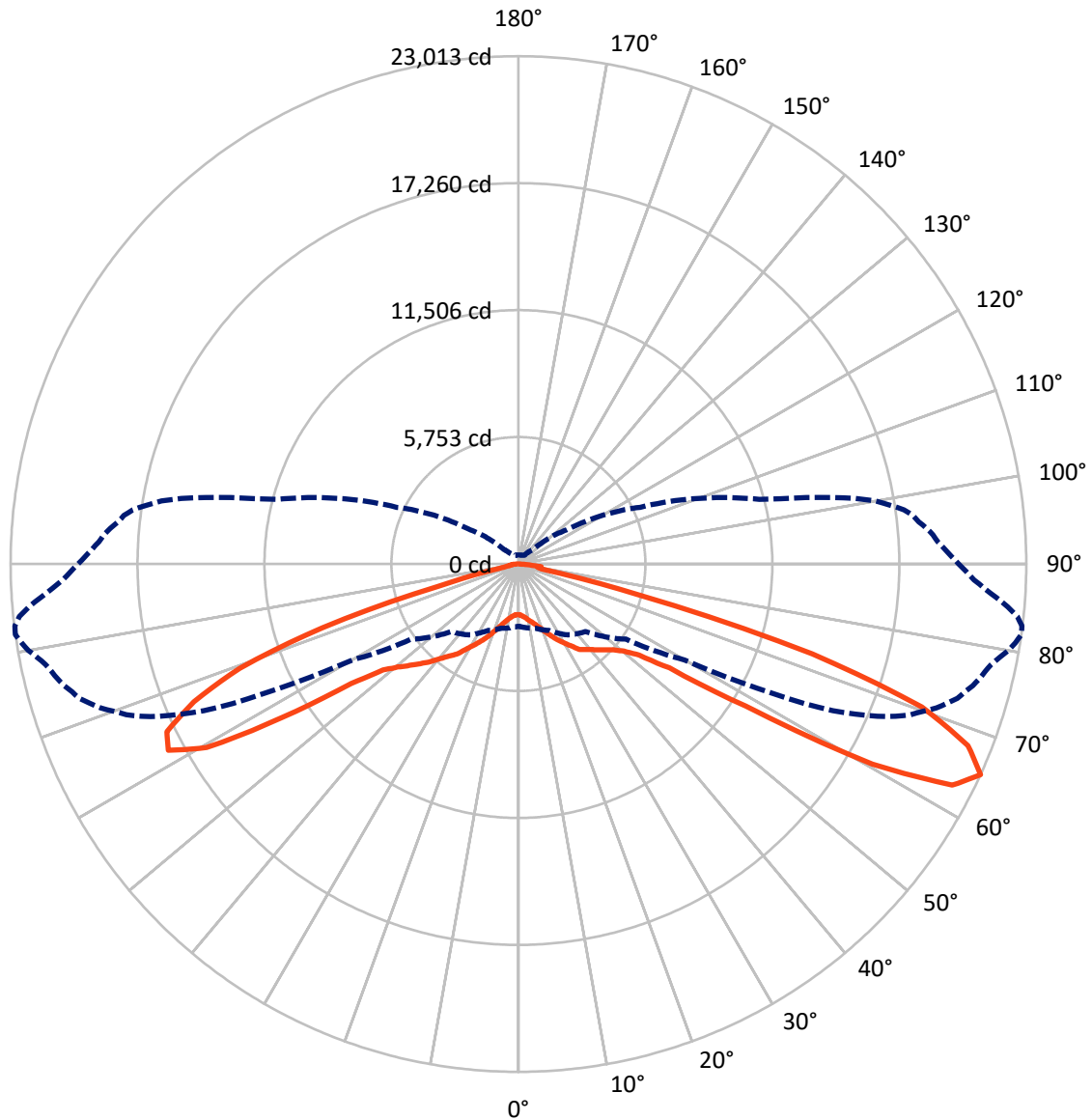
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159360
CATALOG NUMBER: VST-E08-LED-E-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P159360

CATALOG NUMBER: VST-E08-LED-E-U-T2

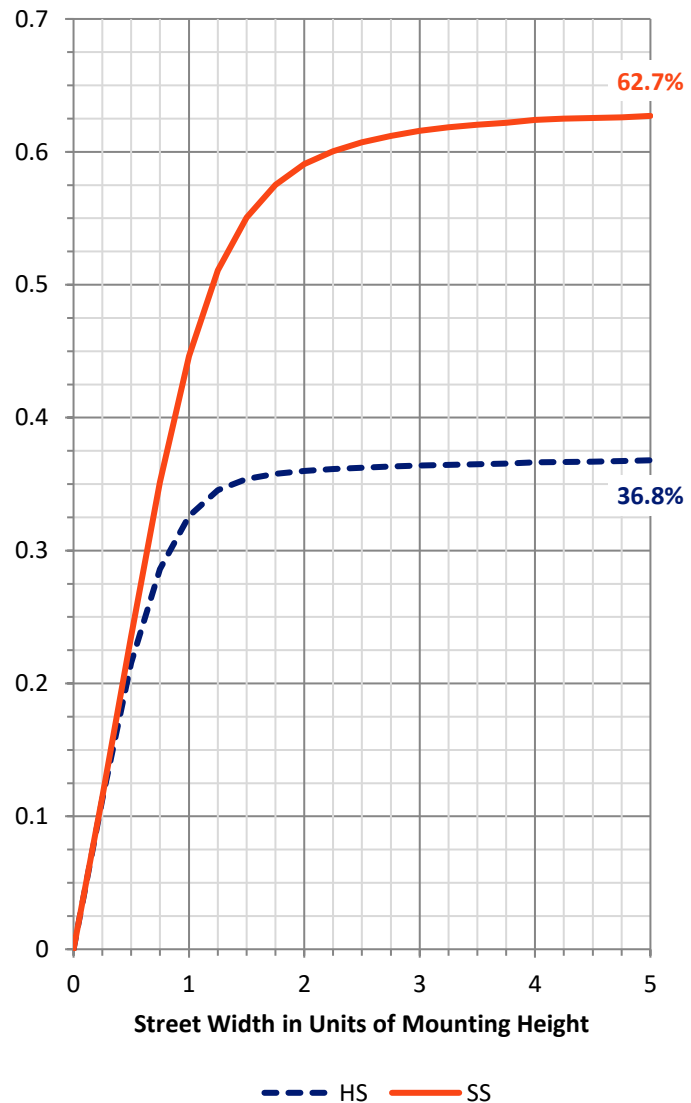
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9194.3	0.0	9194.3
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	15499.5	0.0	15499.5
	% Fixture	62.8	0.0	62.8
Total	Lumens	24693.7	0.0	24693.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	0.9
10°-20°	817.3	3.3
20°-30°	1619.4	6.6
30°-40°	2776.1	11.2
40°-50°	4170.4	16.9
50°-60°	5794.0	23.5
60°-70°	6610.0	26.8
70°-80°	2277.1	9.2
80°-90°	396.9	1.6
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°	24693.7	100.0
0°-180°	24693.7	100.0



REPORT NUMBER: P159360

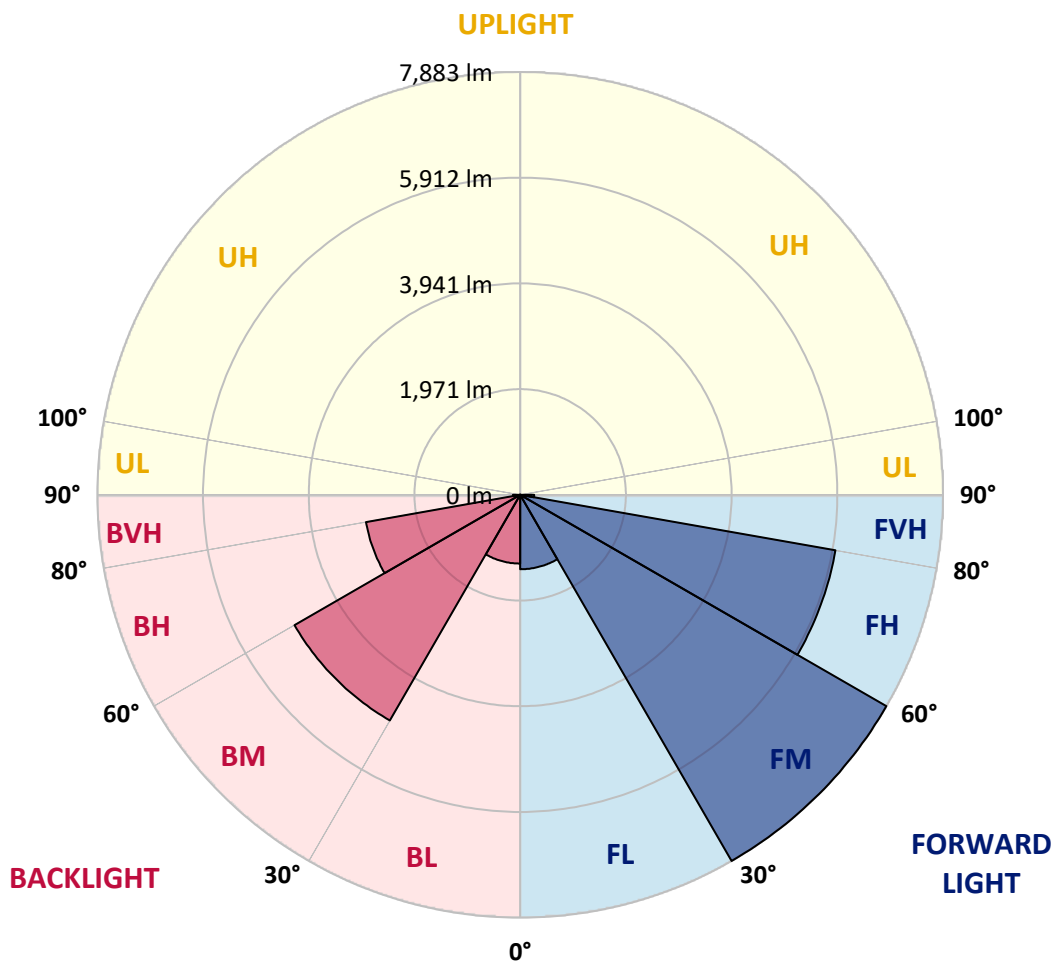
CATALOG NUMBER: VST-E08-LED-E-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1387.3	5.6			
FM	(30°-60°)	7882.7	31.9			
FH	(60°-80°)	5968.2	24.2			G3/7500
FVH	(80°-90°)	261.3	1.1			G3/500
BL	(0°-30°)	1282.1	5.2	B3/2500		
BM	(30°-60°)	4857.7	19.7	B3/5000		
BH	(60°-80°)	2918.9	11.8	B4/5000		G4/5000
BVH	(80°-90°)	135.6	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: P159360

CATALOG NUMBER: VST-E08-LED-E-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6
2.5°	2422.4	2424.0	2422.4	2417.6	2416.0	2401.6	2385.6	2377.6	2376.0	2369.6	2371.2
5°	2572.8	2568.0	2561.6	2553.6	2545.6	2521.6	2494.4	2480.0	2475.2	2470.4	2464.0
7.5°	2707.2	2710.4	2707.2	2696.0	2675.2	2644.8	2609.6	2587.2	2585.6	2580.8	2576.0
10°	2880.0	2888.0	2868.8	2849.6	2820.8	2774.4	2734.4	2705.6	2700.8	2694.4	2691.2
12.5°	3067.2	3068.8	3062.4	3019.2	2971.2	2907.2	2849.6	2820.8	2814.4	2806.4	2803.2
15°	3267.2	3268.8	3233.6	3192.0	3118.4	3041.6	2961.6	2929.6	2921.6	2923.2	2910.4
17.5°	3425.6	3428.8	3395.2	3342.4	3254.4	3163.2	3076.8	3051.2	3046.4	3048.0	3041.6
20°	3494.4	3499.2	3478.4	3438.4	3355.2	3275.2	3212.8	3196.8	3195.2	3192.0	3204.8
22.5°	3491.2	3492.8	3484.8	3468.8	3419.2	3372.8	3364.8	3374.4	3372.8	3376.0	3387.2
25°	3462.4	3467.2	3465.6	3472.0	3464.0	3481.6	3518.4	3552.0	3556.8	3563.2	3584.0
27.5°	3536.0	3545.6	3534.4	3540.8	3553.6	3612.8	3688.0	3739.2	3748.8	3766.4	3784.0
30°	3824.0	3811.2	3796.8	3780.8	3788.8	3825.6	3910.4	3955.2	3960.0	3972.8	3996.8
32.5°	4251.2	4236.8	4224.0	4198.4	4192.0	4176.0	4204.8	4216.0	4214.4	4227.2	4233.6
35°	4732.8	4734.4	4731.2	4750.4	4766.4	4684.8	4584.0	4556.8	4568.0	4553.6	4556.8
37.5°	5144.0	5148.8	5233.6	5339.2	5369.6	5318.4	5097.6	4988.8	4952.0	4947.2	4910.4
40°	5600.0	5600.0	5728.0	5857.6	5942.4	6006.4	5744.0	5552.0	5473.6	5451.2	5360.0
42.5°	6100.8	6075.2	6192.0	6334.4	6491.2	6636.8	6500.8	6284.8	6172.8	6132.8	5972.8
45°	6512.0	6496.0	6553.6	6686.4	6940.8	7225.6	7244.8	7134.4	7067.2	6984.0	6836.8
47.5°	6764.8	6756.8	6790.4	6934.4	7252.8	7713.6	7971.2	8027.2	7987.2	7923.2	7780.8
50°	6864.0	6852.8	6876.8	7036.8	7393.6	8001.6	8571.2	8835.2	8854.4	8868.8	8824.0
52.5°	6828.8	6814.4	6864.0	6998.4	7369.6	8102.4	9040.0	9547.2	9632.0	9704.0	9851.2
55°	6491.2	6468.8	6603.2	6856.0	7265.6	8065.6	9382.4	10232.0	10411.2	10603.2	10929.6
57.5°	5974.4	5955.2	6148.8	6496.0	7081.6	7964.8	9612.8	11097.6	11500.8	11846.4	12772.8
60°	5476.8	5460.8	5574.4	5910.4	6484.8	7473.6	9328.0	11388.8	12065.6	12811.2	14502.4
62.5°	4587.2	4544.0	4696.0	4979.2	5342.4	6182.4	8084.8	10740.8	11784.0	12880.0	15172.8
65°	2819.2	2881.6	3012.8	3326.4	3921.6	4321.6	5937.6	8689.6	10065.6	11440.0	14414.4
67.5°	1790.4	1808.0	1905.6	2123.2	2584.0	2985.6	3598.4	5452.8	6513.6	7865.6	11316.8
70°	1534.4	1545.6	1628.8	1856.0	2174.4	2668.8	2723.2	2848.0	3228.8	4089.6	6652.8
72.5°	1209.6	1228.8	1294.4	1491.2	1875.2	2406.4	3361.6	2251.2	2174.4	2246.4	3246.4
75°	720.0	742.4	796.8	904.0	1204.8	1840.0	3521.6	2619.2	2441.6	2302.4	2240.0
77.5°	380.8	364.8	401.6	464.0	619.2	980.8	2646.4	3209.6	3084.8	2918.4	2564.8
80°	188.8	195.2	206.4	219.2	276.8	398.4	1323.2	3320.0	3680.0	3840.0	3526.4
82.5°	75.2	84.8	120.0	128.0	152.0	169.6	425.6	1840.0	2635.2	3574.4	4667.2
85°	38.4	36.8	64.0	76.8	89.6	80.0	150.4	686.4	1235.2	1924.8	3118.4
87.5°	4.8	6.4	14.4	19.2	27.2	25.6	43.2	148.8	236.8	336.0	472.0
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: P159360

CATALOG NUMBER: VST-E08-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6
2.5°	2363.2	2361.6	2361.6	2355.2	2355.2	2356.8	2352.0	2348.8	2348.8	2350.4	2344.0
5°	2459.2	2454.4	2454.4	2448.0	2440.0	2440.0	2433.6	2432.0	2428.8	2422.4	2417.6
7.5°	2571.2	2566.4	2558.4	2553.6	2550.4	2545.6	2537.6	2534.4	2528.0	2521.6	2515.2
10°	2686.4	2680.0	2676.8	2668.8	2665.6	2656.0	2651.2	2652.8	2640.0	2635.2	2636.8
12.5°	2801.6	2795.2	2784.0	2780.8	2779.2	2769.6	2764.8	2761.6	2752.0	2750.4	2745.6
15°	2904.0	2907.2	2902.4	2894.4	2888.0	2886.4	2881.6	2878.4	2872.0	2865.6	2859.2
17.5°	3036.8	3041.6	3035.2	3024.0	3024.0	3022.4	3024.0	3022.4	3011.2	3016.0	3012.8
20°	3206.4	3209.6	3193.6	3198.4	3201.6	3200.0	3204.8	3209.6	3206.4	3206.4	3211.2
22.5°	3401.6	3406.4	3396.8	3403.2	3412.8	3404.8	3419.2	3417.6	3420.8	3425.6	3427.2
25°	3601.6	3611.2	3603.2	3620.8	3614.4	3620.8	3638.4	3633.6	3641.6	3654.4	3659.2
27.5°	3801.6	3808.0	3809.6	3820.8	3832.0	3841.6	3864.0	3864.0	3870.4	3892.8	3892.8
30°	4011.2	4017.6	4024.0	4040.0	4046.4	4064.0	4086.4	4092.8	4089.6	4121.6	4131.2
32.5°	4252.8	4259.2	4270.4	4289.6	4297.6	4315.2	4315.2	4332.8	4345.6	4372.8	4374.4
35°	4574.4	4579.2	4574.4	4572.8	4584.0	4608.0	4609.6	4635.2	4646.4	4673.6	4681.6
37.5°	4896.0	4894.4	4873.6	4851.2	4852.8	4843.2	4836.8	4848.0	4852.8	4854.4	4872.0
40°	5329.6	5288.0	5256.0	5200.0	5174.4	5134.4	5110.4	5108.8	5083.2	5080.0	5084.8
42.5°	5897.6	5849.6	5774.4	5680.0	5608.0	5534.4	5480.0	5448.0	5392.0	5363.2	5339.2
45°	6691.2	6572.8	6483.2	6371.2	6232.0	6104.0	5969.6	5908.8	5801.6	5736.0	5662.4
47.5°	7660.8	7544.0	7406.4	7291.2	7108.8	6931.2	6747.2	6585.6	6398.4	6249.6	6128.0
50°	8713.6	8644.8	8545.6	8438.4	8203.2	8086.4	7854.4	7635.2	7433.6	7168.0	6936.0
52.5°	9793.6	9833.6	9811.2	9772.8	9624.0	9579.2	9379.2	9112.0	8908.8	8726.4	8323.2
55°	11124.8	11172.8	11268.8	11324.8	11307.2	11420.8	11371.2	11163.2	11081.6	10996.8	10710.4
57.5°	13161.6	13504.0	13870.4	14192.0	14267.2	14670.4	14584.0	14792.0	14939.2	14833.6	14740.8
60°	15332.8	16024.0	16646.4	17297.6	17827.2	18224.0	18748.8	19102.4	19324.8	19724.8	19756.8
62.5°	16208.0	17147.2	17937.6	18692.8	19321.6	19872.0	20345.6	20833.6	21233.6	21595.2	21856.0
65°	15728.0	16708.8	17667.2	18433.6	19038.4	19512.0	20027.2	20414.4	20808.0	21040.0	21313.6
67.5°	13075.2	14374.4	15553.6	16417.6	17244.8	17726.4	18336.0	18716.8	19134.4	19379.2	19555.2
70°	8524.8	10216.0	11827.2	13137.6	14254.4	14816.0	15552.0	16072.0	16574.4	16587.2	16880.0
72.5°	4600.0	6014.4	7363.2	8702.4	9976.0	10723.2	11449.6	12081.6	12580.8	12368.0	12659.2
75°	2561.6	3224.0	3961.6	4766.4	5542.4	5969.6	6512.0	6515.2	6772.8	6368.0	6470.4
77.5°	2464.0	2433.6	2444.8	2467.2	2505.6	2424.0	2422.4	2372.8	2296.0	2156.8	2180.8
80°	3236.8	2849.6	2571.2	2134.4	1718.4	1401.6	1313.6	1334.4	1396.8	1521.6	1680.0
82.5°	4680.0	4353.6	3886.4	3198.4	2510.4	1936.0	1590.4	1411.2	1403.2	1528.0	1768.0
85°	3408.0	3604.8	3574.4	2984.0	2460.8	1998.4	1454.4	1228.8	1017.6	968.0	1052.8
87.5°	502.4	416.0	468.8	392.0	284.8	220.8	193.6	155.2	148.8	152.0	166.4
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: P159360

CATALOG NUMBER: VST-E08-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6
2.5°	2345.6	2339.2	2332.8	2337.6	2332.8	2331.2	2326.4	2323.2	2321.6	2321.6	2321.6
5°	2417.6	2409.6	2404.8	2403.2	2398.4	2393.6	2392.0	2384.0	2382.4	2382.4	2377.6
7.5°	2515.2	2508.8	2500.8	2496.0	2492.8	2484.8	2476.8	2475.2	2473.6	2467.2	2462.4
10°	2628.8	2619.2	2609.6	2609.6	2603.2	2601.6	2593.6	2582.4	2580.8	2571.2	2568.0
12.5°	2736.0	2732.8	2721.6	2718.4	2713.6	2708.8	2704.0	2699.2	2694.4	2686.4	2689.6
15°	2864.0	2856.0	2846.4	2848.0	2846.4	2840.0	2833.6	2828.8	2825.6	2822.4	2822.4
17.5°	3017.6	3014.4	3012.8	3004.8	2998.4	3003.2	3003.2	3003.2	2995.2	2996.8	2998.4
20°	3212.8	3216.0	3212.8	3206.4	3204.8	3209.6	3198.4	3216.0	3206.4	3200.0	3203.2
22.5°	3428.8	3440.0	3427.2	3428.8	3436.8	3440.0	3428.8	3443.2	3438.4	3428.8	3436.8
25°	3664.0	3672.0	3665.6	3664.0	3668.8	3680.0	3678.4	3676.8	3688.0	3678.4	3683.2
27.5°	3905.6	3910.4	3913.6	3918.4	3921.6	3920.0	3926.4	3926.4	3932.8	3921.6	3926.4
30°	4145.6	4145.6	4152.0	4158.4	4158.4	4158.4	4171.2	4172.8	4163.2	4166.4	4155.2
32.5°	4401.6	4403.2	4409.6	4409.6	4422.4	4424.0	4438.4	4419.2	4438.4	4422.4	4425.6
35°	4702.4	4723.2	4726.4	4742.4	4755.2	4760.0	4760.0	4761.6	4779.2	4766.4	4771.2
37.5°	4878.4	4883.2	4896.0	4904.0	4904.0	4910.4	4915.2	4910.4	4915.2	4913.6	4918.4
40°	5086.4	5081.6	5096.0	5099.2	5092.8	5100.8	5099.2	5094.4	5107.2	5097.6	5104.0
42.5°	5339.2	5312.0	5310.4	5323.2	5310.4	5316.8	5315.2	5304.0	5320.0	5324.8	5320.0
45°	5609.6	5595.2	5566.4	5566.4	5553.6	5548.8	5550.4	5548.8	5550.4	5569.6	5576.0
47.5°	6049.6	5961.6	5912.0	5865.6	5827.2	5825.6	5808.0	5817.6	5830.4	5862.4	5891.2
50°	6787.2	6584.0	6459.2	6344.0	6260.8	6232.0	6198.4	6195.2	6206.4	6243.2	6292.8
52.5°	8102.4	7820.8	7555.2	7308.8	7094.4	6929.6	6848.0	6804.8	6788.8	6825.6	6873.6
55°	10508.8	9977.6	9603.2	9353.6	8820.8	8595.2	8305.6	8172.8	8043.2	8056.0	8137.6
57.5°	14620.8	14334.4	14020.8	13584.0	13257.6	12864.0	12140.8	11737.6	11755.2	11849.6	11555.2
60°	20009.6	19720.0	19590.4	19193.6	18966.4	18808.0	18424.0	17755.2	17518.4	17473.6	16932.8
62.5°	22056.0	22124.8	22227.2	22339.2	22332.8	22401.6	22065.6	21848.0	21574.4	21219.2	20684.8
65°	21521.6	21696.0	21904.0	22204.8	22547.2	22800.0	23012.8	22987.2	22731.2	22257.6	21692.8
67.5°	19712.0	19884.8	20036.8	20440.0	21001.6	21515.2	21969.6	22278.4	22107.2	21715.2	21056.0
70°	16992.0	17116.8	17212.8	17563.2	18179.2	18806.4	19400.0	19918.4	19865.6	19390.4	18864.0
72.5°	12312.0	12614.4	12777.6	12753.6	13134.4	13836.8	13920.0	14363.2	14486.4	13974.4	13136.0
75°	5998.4	6003.2	5814.4	5752.0	5771.2	5892.8	5660.8	5675.2	5595.2	5232.0	4932.8
77.5°	2096.0	2038.4	1900.8	1737.6	1504.0	1284.8	1062.4	966.4	934.4	840.0	774.4
80°	1806.4	1891.2	1864.0	1729.6	1483.2	1182.4	883.2	654.4	558.4	524.8	492.8
82.5°	2051.2	2377.6	2585.6	2574.4	2236.8	1680.0	1048.0	601.6	428.8	376.0	345.6
85°	1144.0	1230.4	1254.4	1142.4	948.8	648.0	361.6	254.4	216.0	196.8	177.6
87.5°	182.4	166.4	163.2	142.4	134.4	123.2	108.8	102.4	94.4	89.6	89.6
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: P159360

CATALOG NUMBER: VST-E08-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6
2.5°	2320.0	2318.4	2313.6	2308.8	2305.6	2304.0	2302.4	2299.2	2297.6	2296.0	2292.8
5°	2374.4	2371.2	2363.2	2355.2	2352.0	2347.2	2342.4	2339.2	2336.0	2334.4	2328.0
7.5°	2459.2	2456.0	2446.4	2440.0	2438.4	2425.6	2424.0	2419.2	2411.2	2409.6	2400.0
10°	2561.6	2560.0	2552.0	2547.2	2544.0	2537.6	2528.0	2520.0	2512.0	2512.0	2505.6
12.5°	2680.0	2673.6	2678.4	2667.2	2664.0	2657.6	2652.8	2651.2	2641.6	2633.6	2632.0
15°	2819.2	2811.2	2811.2	2808.0	2804.8	2798.4	2796.8	2798.4	2788.8	2792.0	2782.4
17.5°	2992.0	2995.2	2993.6	2993.6	2985.6	2985.6	2972.8	2988.8	2977.6	2985.6	2982.4
20°	3208.0	3209.6	3206.4	3211.2	3214.4	3212.8	3211.2	3209.6	3214.4	3220.8	3216.0
22.5°	3438.4	3438.4	3436.8	3454.4	3435.2	3449.6	3454.4	3444.8	3470.4	3467.2	3472.0
25°	3688.0	3688.0	3700.8	3715.2	3718.4	3707.2	3713.6	3705.6	3721.6	3734.4	3737.6
27.5°	3920.0	3940.8	3950.4	3940.8	3948.8	3966.4	3964.8	3964.8	3976.0	3972.8	4003.2
30°	4158.4	4171.2	4184.0	4177.6	4180.8	4203.2	4204.8	4206.4	4220.8	4241.6	4264.0
32.5°	4430.4	4443.2	4436.8	4457.6	4456.0	4483.2	4488.0	4492.8	4537.6	4529.6	4576.0
35°	4764.8	4777.6	4771.2	4793.6	4790.4	4800.0	4817.6	4836.8	4844.8	4891.2	4928.0
37.5°	4921.6	4921.6	4936.0	4961.6	4971.2	4987.2	5014.4	5038.4	5078.4	5128.0	5185.6
40°	5110.4	5115.2	5134.4	5161.6	5179.2	5216.0	5265.6	5299.2	5360.0	5414.4	5481.6
42.5°	5339.2	5360.0	5382.4	5419.2	5457.6	5515.2	5585.6	5628.8	5708.8	5779.2	5862.4
45°	5606.4	5627.2	5680.0	5747.2	5803.2	5867.2	5924.8	6027.2	6099.2	6172.8	6244.8
47.5°	5929.6	5990.4	6033.6	6113.6	6182.4	6267.2	6339.2	6435.2	6513.6	6603.2	6664.0
50°	6344.0	6419.2	6475.2	6579.2	6646.4	6740.8	6832.0	6904.0	6984.0	7072.0	7121.6
52.5°	6939.2	7016.0	7086.4	7216.0	7299.2	7363.2	7484.8	7574.4	7648.0	7712.0	7766.4
55°	8228.8	8206.4	8401.6	8652.8	8681.6	8913.6	8956.8	9032.0	9168.0	9187.2	9339.2
57.5°	11913.6	11798.4	12081.6	12449.6	12385.6	12268.8	12756.8	12787.2	12718.4	12902.4	12694.4
60°	17012.8	16811.2	16888.0	16988.8	16843.2	16774.4	16798.4	16867.2	16800.0	16726.4	16524.8
62.5°	20417.6	20107.2	19884.8	19697.6	19460.8	19289.6	19097.6	18860.8	18796.8	18528.0	18302.4
65°	21144.0	20660.8	20308.8	19955.2	19628.8	19326.4	19036.8	18833.6	18564.8	18246.4	18011.2
67.5°	20345.6	19747.2	19232.0	18718.4	18348.8	17904.0	17686.4	17355.2	17024.0	16659.2	16443.2
70°	18025.6	17401.6	16753.6	16251.2	15748.8	15198.4	15091.2	14699.2	14508.8	14011.2	13924.8
72.5°	12441.6	12025.6	11736.0	11115.2	10809.6	10528.0	10438.4	10075.2	10113.6	9568.0	9766.4
75°	4424.0	4364.8	4280.0	3929.6	3867.2	3758.4	3729.6	3704.0	3963.2	3603.2	3864.0
77.5°	760.0	755.2	712.0	691.2	731.2	705.6	712.0	699.2	774.4	785.6	768.0
80°	472.0	459.2	444.8	435.2	436.8	427.2	428.8	432.0	436.8	435.2	440.0
82.5°	323.2	312.0	305.6	299.2	308.8	312.0	320.0	328.0	340.8	348.8	358.4
85°	176.0	161.6	161.6	160.0	172.8	182.4	195.2	211.2	233.6	252.8	273.6
87.5°	89.6	86.4	88.0	91.2	102.4	110.4	126.4	140.8	160.0	180.8	200.0
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: P159360

CATALOG NUMBER: VST-E08-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6	2297.6
2.5°	2291.2	2291.2	2289.6	2289.6	2288.0	2286.4	2284.8	2280.0	2262.4	2246.4	2235.2
5°	2326.4	2321.6	2320.0	2315.2	2313.6	2310.4	2305.6	2300.8	2268.8	2240.0	2219.2
7.5°	2398.4	2392.0	2388.8	2384.0	2379.2	2372.8	2366.4	2361.6	2323.2	2289.6	2264.0
10°	2492.8	2489.6	2488.0	2481.6	2481.6	2472.0	2470.4	2459.2	2417.6	2387.2	2364.8
12.5°	2624.0	2617.6	2616.0	2608.0	2611.2	2608.0	2604.8	2598.4	2568.0	2532.8	2502.4
15°	2787.2	2787.2	2779.2	2772.8	2774.4	2771.2	2777.6	2769.6	2750.4	2718.4	2668.8
17.5°	2984.0	2980.8	2984.0	2979.2	2982.4	2985.6	2977.6	2979.2	2969.6	2929.6	2856.0
20°	3212.8	3208.0	3227.2	3219.2	3236.8	3220.8	3224.0	3228.8	3228.8	3176.0	3076.8
22.5°	3475.2	3472.0	3472.0	3488.0	3494.4	3496.0	3502.4	3507.2	3520.0	3452.8	3294.4
25°	3737.6	3748.8	3750.4	3771.2	3780.8	3780.8	3785.6	3803.2	3841.6	3748.8	3544.0
27.5°	4004.8	4032.0	4038.4	4052.8	4067.2	4081.6	4092.8	4105.6	4168.0	4067.2	3800.0
30°	4272.0	4302.4	4324.8	4340.8	4358.4	4393.6	4400.0	4425.6	4529.6	4406.4	4043.2
32.5°	4585.6	4628.8	4657.6	4678.4	4705.6	4739.2	4758.4	4790.4	4891.2	4689.6	4220.8
35°	4960.0	4985.6	5027.2	5062.4	5078.4	5136.0	5166.4	5174.4	5251.2	4934.4	4352.0
37.5°	5219.2	5262.4	5334.4	5384.0	5412.8	5444.8	5496.0	5529.6	5603.2	5156.8	4417.6
40°	5548.8	5614.4	5672.0	5745.6	5792.0	5816.0	5867.2	5894.4	5904.0	5347.2	4396.8
42.5°	5950.4	6009.6	6086.4	6145.6	6180.8	6208.0	6249.6	6260.8	6136.0	5436.8	4284.8
45°	6328.0	6419.2	6484.8	6528.0	6553.6	6568.0	6593.6	6595.2	6328.0	5392.0	4092.8
47.5°	6734.4	6800.0	6860.8	6891.2	6888.0	6891.2	6881.6	6875.2	6424.0	5236.8	3846.4
50°	7184.0	7227.2	7252.8	7267.2	7275.2	7244.8	7201.6	7172.8	6432.0	5016.0	3596.8
52.5°	7787.2	7841.6	7836.8	7835.2	7771.2	7742.4	7627.2	7568.0	6385.6	4756.8	3315.2
55°	9315.2	9262.4	9158.4	9209.6	8948.8	8812.8	8633.6	8467.2	6446.4	4510.4	2988.8
57.5°	12777.6	12798.4	12502.4	12344.0	11904.0	11353.6	10910.4	10480.0	6993.6	4360.0	2563.2
60°	16390.4	16118.4	15742.4	15169.6	14603.2	13785.6	12996.8	12251.2	7539.2	4203.2	2059.2
62.5°	17968.0	17580.8	17012.8	16272.0	15382.4	14382.4	13400.0	12491.2	7275.2	3696.0	1497.6
65°	17648.0	17056.0	16428.8	15561.6	14480.0	13384.0	12236.8	11308.8	6086.4	2756.8	923.2
67.5°	15974.4	15472.0	14809.6	13780.8	12624.0	11483.2	10432.0	9392.0	4521.6	1718.4	516.8
70°	13483.2	12992.0	12320.0	11267.2	10112.0	9020.8	7907.2	7059.2	2881.6	828.8	372.8
72.5°	9353.6	8955.2	8480.0	7729.6	6716.8	5724.8	4971.2	4320.0	1596.8	440.0	340.8
75°	3798.4	3800.0	3713.6	3396.8	2870.4	2475.2	2110.4	1790.4	667.2	374.4	336.0
77.5°	860.8	875.2	956.8	907.2	817.6	764.8	684.8	604.8	406.4	385.6	339.2
80°	435.2	436.8	432.0	433.6	428.8	430.4	424.0	419.2	380.8	396.8	339.2
82.5°	363.2	371.2	369.6	369.6	371.2	371.2	371.2	369.6	395.2	417.6	328.0
85°	288.0	304.0	316.8	329.6	344.0	353.6	358.4	363.2	384.0	411.2	297.6
87.5°	217.6	236.8	252.8	265.6	288.0	288.0	304.0	315.2	315.2	321.6	156.8
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: P159360

CATALOG NUMBER: VST-E08-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	2297.6	2297.6	2297.6	2297.6	2297.6
2.5°	2219.2	2212.8	2206.4	2203.2	2196.8
5°	2203.2	2190.4	2182.4	2182.4	2176.0
7.5°	2249.6	2244.8	2233.6	2227.2	2233.6
10°	2348.8	2340.8	2328.0	2318.4	2323.2
12.5°	2481.6	2449.6	2424.0	2412.8	2404.8
15°	2619.2	2555.2	2504.0	2475.2	2467.2
17.5°	2766.4	2654.4	2577.6	2534.4	2526.4
20°	2916.8	2777.6	2668.8	2612.8	2611.2
22.5°	3097.6	2912.0	2772.8	2699.2	2694.4
25°	3288.0	3032.0	2848.0	2753.6	2744.0
27.5°	3452.8	3128.0	2894.4	2782.4	2772.8
30°	3590.4	3200.0	2932.8	2803.2	2790.4
32.5°	3689.6	3241.6	2948.8	2809.6	2795.2
35°	3721.6	3225.6	2904.0	2752.0	2736.0
37.5°	3678.4	3121.6	2779.2	2611.2	2592.0
40°	3548.8	2939.2	2576.0	2403.2	2379.2
42.5°	3350.4	2715.2	2331.2	2166.4	2136.0
45°	3105.6	2462.4	2088.0	1904.0	1889.6
47.5°	2849.6	2196.8	1814.4	1648.0	1630.4
50°	2572.8	1889.6	1547.2	1366.4	1366.4
52.5°	2243.2	1590.4	1236.8	1100.8	1089.6
55°	1864.0	1252.8	985.6	881.6	867.2
57.5°	1456.0	963.2	787.2	726.4	710.4
60°	1070.4	723.2	633.6	600.0	593.6
62.5°	726.4	550.4	510.4	496.0	494.4
65°	491.2	428.8	417.6	412.8	414.4
67.5°	377.6	356.8	352.0	350.4	350.4
70°	328.0	315.2	310.4	312.0	310.4
72.5°	308.8	291.2	292.8	296.0	294.4
75°	302.4	280.0	286.4	288.0	281.6
77.5°	297.6	267.2	283.2	288.0	270.4
80°	288.0	256.0	294.4	296.0	265.6
82.5°	264.0	227.2	294.4	272.0	240.0
85°	224.0	172.8	332.8	236.8	177.6
87.5°	142.4	102.4	225.6	161.6	107.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)