

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: P157821

Luminaire Tested: **VST-E08-LED-E-U-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157821
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
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-5XQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (168) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25961 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U2 - G5

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

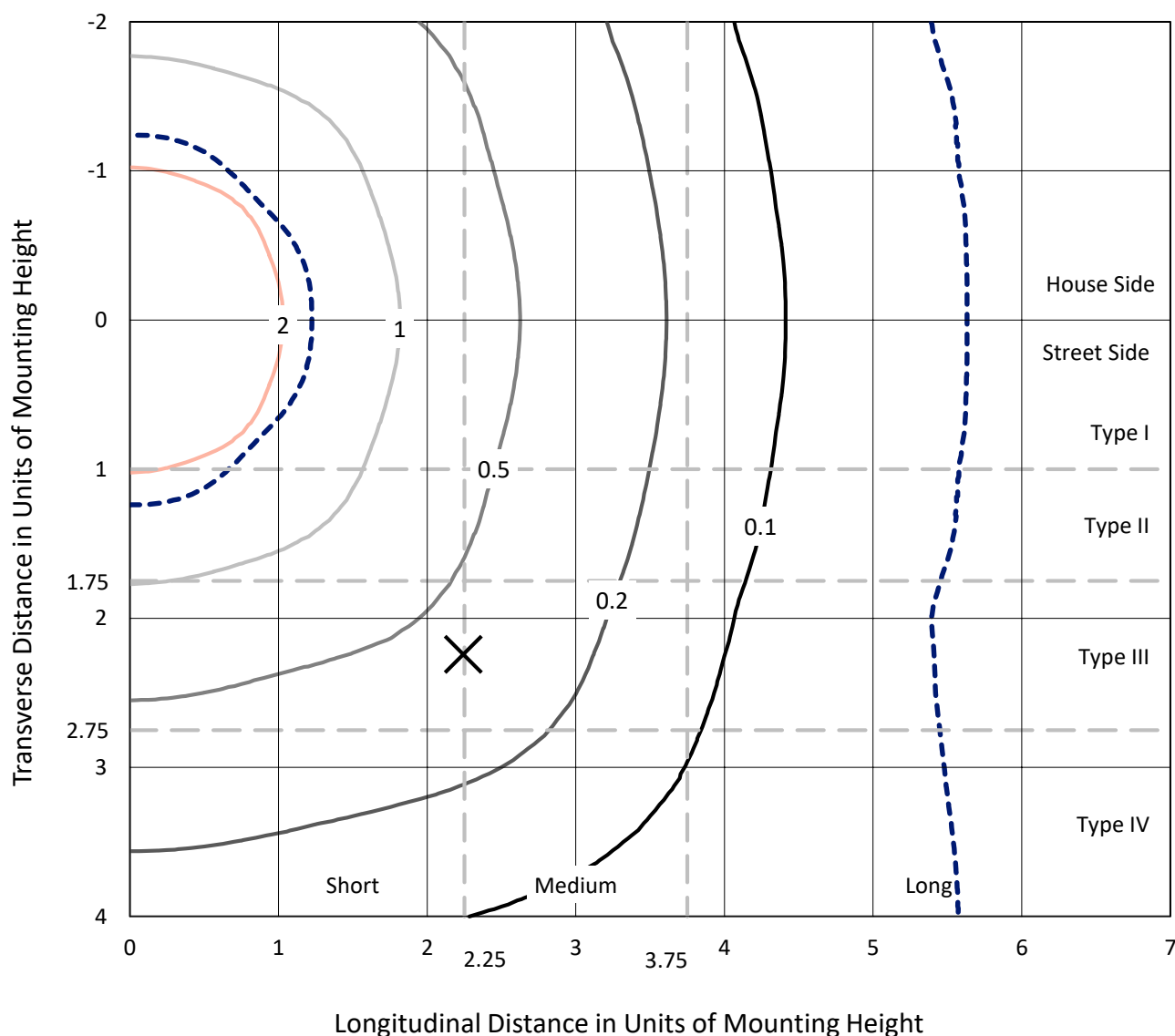


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

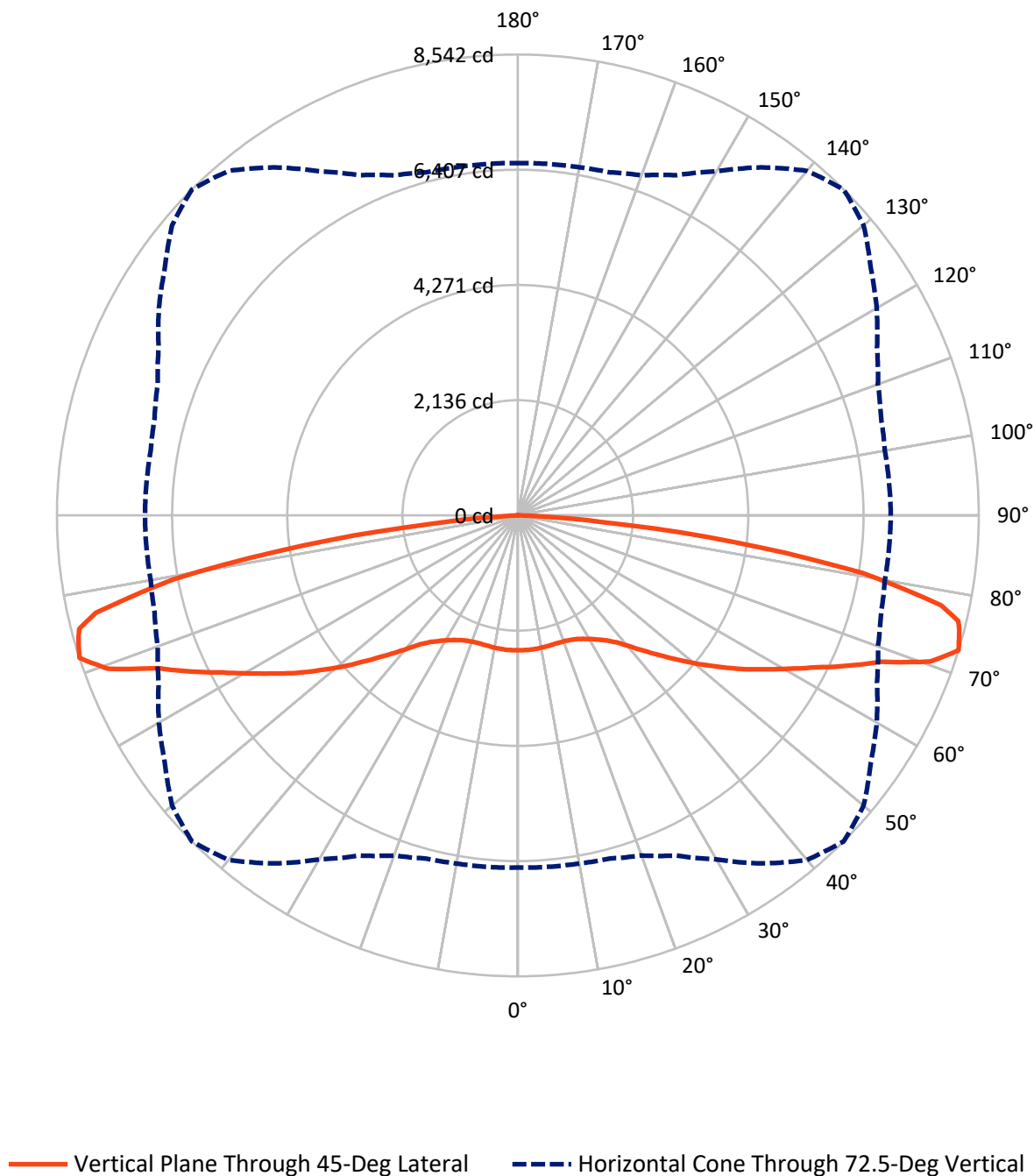


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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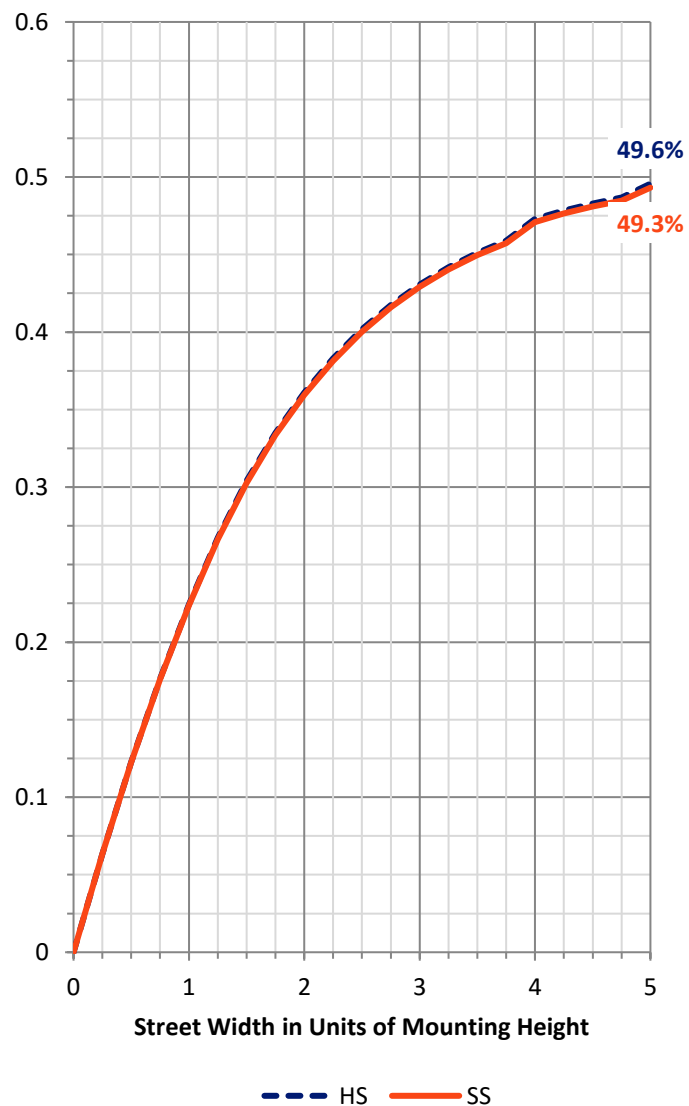
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12974.2	6.3	12980.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12974.2	6.3	12980.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25948.5	12.6	25961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.4	0.9
10°-20°	704.2	2.7
20°-30°	1177.5	4.5
30°-40°	1789.7	6.9
40°-50°	2834.5	10.9
50°-60°	4335.9	16.7
60°-70°	6205.4	23.9
70°-80°	7100.3	27.3
80°-90°	1562.7	6.0
90°-100°	1.3	0.0
100°-110°	2.7	0.0
110°-120°	1.8	0.0
120°-130°	2.0	0.0
130°-140°	1.9	0.0
140°-150°	1.5	0.0
150°-160°	1.0	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-90°	25948.5	100.0
0°-180°	25961.0	100.0

Coefficient of Utilization



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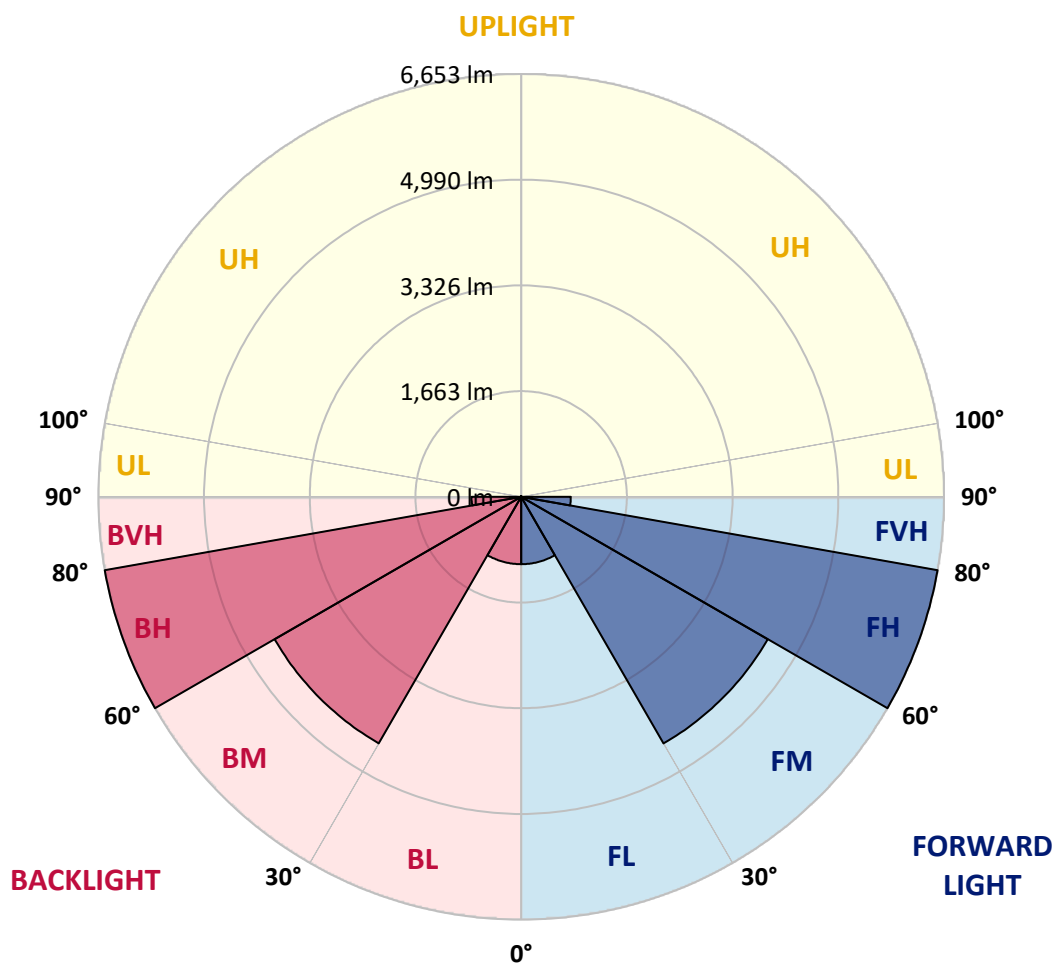
CATALOG NUMBER: VST-E08-LED-E-U-5XQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1060.0	4.1			
FM	(30°-60°)	4480.0	17.3			
FH	(60°-80°)	6652.8	25.6			G3/7500
FVH	(80°-90°)	781.4	3.0			G5
BL	(0°-30°)	1060.0	4.1	B3/2500		
BM	(30°-60°)	4480.0	17.3	B3/5000		
BH	(60°-80°)	6652.8	25.6	B5		G3/7500
BVH	(80°-90°)	781.4	3.0			G5
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	6.3	0.0		U1/10	

BUG Rating: B5-U2-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2498.8	2498.8	2498.8	2498.8	2498.8	2498.8	2498.8	2498.8	2498.8	2498.8	2498.8
2.5°	2500.4	2497.1	2498.8	2502.1	2500.4	2500.4	2498.8	2498.8	2502.1	2498.8	2500.4
5°	2502.1	2498.8	2500.4	2502.1	2500.4	2502.1	2500.4	2500.4	2500.4	2498.8	2502.1
7.5°	2495.5	2495.5	2497.1	2497.1	2495.5	2497.1	2497.1	2497.1	2495.5	2495.5	2498.8
10°	2492.2	2490.6	2490.6	2492.2	2490.6	2490.6	2492.2	2492.2	2488.9	2488.9	2492.2
12.5°	2487.3	2485.6	2485.6	2485.6	2484.0	2484.0	2485.6	2485.6	2484.0	2482.4	2487.3
15°	2484.0	2482.4	2482.4	2482.4	2479.1	2480.7	2480.7	2480.7	2479.1	2477.4	2482.4
17.5°	2482.4	2480.7	2480.7	2480.7	2479.1	2479.1	2479.1	2479.1	2477.4	2477.4	2480.7
20°	2485.6	2485.6	2485.6	2485.6	2484.0	2484.0	2484.0	2485.6	2485.6	2485.6	2488.9
22.5°	2493.8	2493.8	2495.5	2497.1	2497.1	2500.4	2502.1	2503.7	2503.7	2505.3	2508.6
25°	2515.2	2515.2	2516.8	2518.5	2523.4	2526.7	2533.2	2536.5	2538.2	2538.2	2539.8
27.5°	2554.6	2556.2	2559.5	2562.8	2569.4	2574.3	2580.9	2587.4	2589.1	2590.7	2592.4
30°	2603.8	2605.5	2612.1	2615.3	2623.5	2633.4	2641.6	2648.2	2653.1	2656.4	2654.7
32.5°	2674.4	2677.7	2685.9	2690.9	2702.4	2712.2	2723.7	2733.5	2738.5	2743.4	2741.8
35°	2772.9	2781.2	2789.4	2794.3	2805.8	2814.0	2828.8	2838.6	2848.5	2845.2	2846.8
37.5°	2919.1	2925.6	2927.3	2930.6	2942.0	2948.6	2965.0	2978.2	2983.1	2986.4	2988.0
40°	3116.1	3116.1	3124.3	3117.7	3132.5	3134.1	3153.8	3171.9	3176.8	3190.0	3180.1
42.5°	3345.9	3344.3	3349.2	3344.3	3344.3	3360.7	3377.1	3410.0	3413.2	3429.7	3419.8
45°	3595.5	3595.5	3590.5	3592.2	3595.5	3613.5	3633.2	3669.4	3685.8	3695.6	3689.1
47.5°	3866.4	3859.8	3858.2	3856.5	3866.4	3886.1	3915.6	3950.1	3991.1	3994.4	3991.1
50°	4140.5	4138.9	4127.4	4137.3	4143.8	4153.7	4209.5	4255.5	4298.2	4324.4	4316.2
52.5°	4429.5	4414.7	4414.7	4414.7	4431.1	4462.3	4511.6	4574.0	4631.4	4659.3	4654.4
55°	4721.7	4716.8	4702.0	4695.5	4716.8	4761.1	4831.7	4907.2	4982.8	5025.5	5009.0
57.5°	4989.3	4981.1	4982.8	4984.4	5009.0	5068.1	5150.2	5250.4	5332.5	5378.4	5366.9
60°	5199.5	5189.6	5207.7	5212.6	5256.9	5355.4	5486.8	5613.2	5721.6	5767.5	5749.5
62.5°	5437.5	5431.0	5442.5	5440.8	5488.4	5598.4	5774.1	5976.0	6140.2	6199.3	6173.1
65°	5821.7	5802.0	5797.1	5779.0	5810.2	5895.6	6071.3	6306.0	6568.7	6719.8	6683.6
67.5°	6281.4	6276.5	6260.1	6250.2	6261.7	6368.4	6537.5	6764.1	7031.7	7240.2	7286.2
70°	6585.1	6591.7	6608.1	6632.7	6728.0	6934.8	7243.5	7586.6	7954.4	8110.3	8082.4
72.5°	6527.7	6537.5	6550.7	6581.9	6706.6	6954.5	7361.7	7873.9	8335.3	8542.1	8364.8
75°	6246.9	6255.1	6284.7	6332.3	6485.0	6785.4	7223.8	7767.2	8243.3	8450.2	8264.7
76°	5987.5	6013.8	6068.0	6123.8	6307.7	6634.4	7102.3	7681.8	8185.9	8396.0	8217.1
77.5°	5399.8	5422.8	5467.1	5564.0	5772.5	6191.1	6737.8	7307.5	7832.9	8021.7	7870.6
80°	4063.4	4083.1	4124.1	4240.7	4421.3	4680.7	5104.3	5660.8	6237.1	6485.0	6386.5
82.5°	1715.6	1738.6	1901.2	2070.3	2268.9	2549.7	2825.5	3318.0	3741.6	4024.0	3872.9
85°	188.8	233.1	287.3	390.7	479.4	638.6	794.6	1093.4	1382.4	1558.0	1377.4
87.5°	32.8	37.8	54.2	69.0	77.2	88.7	106.7	149.4	203.6	175.7	179.0
90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	3.3	3.3	3.3	3.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
97.5°	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3
102.5°	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3	3.3
105°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
107.5°	1.6	1.6	1.6	1.6	3.3	3.3	1.6	1.6	1.6	3.3	1.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
112.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
115°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
117.5°	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
120°	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
122.5°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
125°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
127.5°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
130°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6
132.5°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
135°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6
137.5°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6
140°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6
142.5°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
145°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	0.0	1.6
147.5°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6
150°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	0.0	0.0	0.0
152.5°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	0.0	0.0
155°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	0.0	1.6
157.5°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	0.0	0.0	0.0
160°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	0.0	0.0	0.0
162.5°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	0.0	0.0	0.0
165°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2498.8	2498.8	2498.8	2498.8	2498.8	2498.8	2498.8	2498.8
2.5°	2498.8	2498.8	2502.1	2500.4	2500.4	2502.1	2505.3	2503.7
5°	2500.4	2502.1	2498.8	2500.4	2502.1	2502.1	2503.7	2502.1
7.5°	2497.1	2497.1	2497.1	2498.8	2500.4	2498.8	2500.4	2500.4
10°	2490.6	2492.2	2490.6	2493.8	2495.5	2495.5	2497.1	2497.1
12.5°	2485.6	2485.6	2485.6	2488.9	2490.6	2490.6	2492.2	2490.6
15°	2480.7	2480.7	2479.1	2482.4	2485.6	2485.6	2487.3	2487.3
17.5°	2479.1	2479.1	2477.4	2480.7	2484.0	2484.0	2485.6	2485.6
20°	2484.0	2485.6	2482.4	2485.6	2488.9	2490.6	2490.6	2490.6
22.5°	2503.7	2502.1	2497.1	2498.8	2500.4	2500.4	2500.4	2500.4
25°	2533.2	2530.0	2525.0	2523.4	2521.8	2520.1	2520.1	2520.1
27.5°	2584.1	2579.2	2571.0	2569.4	2567.7	2564.4	2564.4	2564.4
30°	2644.9	2638.3	2628.5	2625.2	2620.3	2617.0	2615.3	2613.7
32.5°	2731.9	2718.8	2707.3	2699.1	2694.1	2684.3	2682.7	2679.4
35°	2832.1	2822.2	2805.8	2800.9	2792.6	2787.7	2786.1	2777.9
37.5°	2970.0	2958.5	2943.7	2940.4	2938.8	2933.8	2933.8	2932.2
40°	3162.0	3150.6	3137.4	3124.3	3127.6	3129.2	3129.2	3122.6
42.5°	3396.8	3378.8	3352.5	3360.7	3355.8	3349.2	3362.3	3354.1
45°	3664.4	3639.8	3620.1	3611.9	3611.9	3603.7	3616.8	3616.8
47.5°	3961.6	3922.2	3886.1	3887.7	3874.6	3877.9	3886.1	3897.6
50°	4275.2	4222.6	4188.2	4171.7	4158.6	4163.5	4178.3	4181.6
52.5°	4600.2	4536.2	4490.2	4465.6	4449.2	4455.8	4467.3	4477.1
55°	4938.4	4867.8	4798.9	4772.6	4752.9	4766.1	4767.7	4780.8
57.5°	5291.4	5194.6	5114.1	5074.7	5055.0	5068.1	5078.0	5091.1
60°	5647.7	5536.0	5440.8	5394.9	5366.9	5385.0	5408.0	5414.6
62.5°	6061.4	5907.1	5800.4	5734.7	5721.6	5739.6	5746.2	5765.9
65°	6550.7	6365.1	6217.4	6136.9	6133.6	6143.5	6158.3	6163.2
67.5°	7108.9	6902.0	6703.3	6622.9	6591.7	6621.3	6636.0	6655.7
70°	7896.9	7612.9	7325.6	7146.6	7071.1	7048.1	7054.7	7076.0
72.5°	7985.6	7680.2	7345.3	7102.3	6969.3	6908.6	6906.9	6910.2
75°	7791.8	7304.2	7067.8	6788.7	6599.9	6501.4	6488.3	6486.6
76°	7695.0	7118.7	6777.2	6555.6	6329.0	6228.9	6214.1	6205.9
77.5°	7286.2	6667.2	6153.3	6018.7	5802.0	5675.6	5701.9	5680.5
80°	5841.4	5227.4	4743.1	4363.8	4375.3	4283.4	4245.6	4234.1
82.5°	3442.8	2938.8	2403.5	2090.0	1791.2	1712.4	1474.3	1420.1
85°	1100.0	779.8	472.8	343.1	233.1	195.4	152.7	139.6
87.5°	146.1	114.9	93.6	90.3	82.1	70.6	46.0	32.8
90°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
97.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
100°	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6
105°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
107.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3



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CATALOG NUMBER: VST-E08-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3
112.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3
115°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3
117.5°	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3
120°	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3
122.5°	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3
125°	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3
127.5°	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3
130°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
132.5°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
135°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
137.5°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
140°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
142.5°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
145°	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3
147.5°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
150°	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3
152.5°	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3
155°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
157.5°	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3
160°	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3
162.5°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
165°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)