

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: P157825

Luminaire Tested: **VST-F08-LED-E-U-5XQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157825
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-F08-LED-E-U-5XQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (56) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20886.2 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U1 - G4

Input Watts (W): 204.4
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

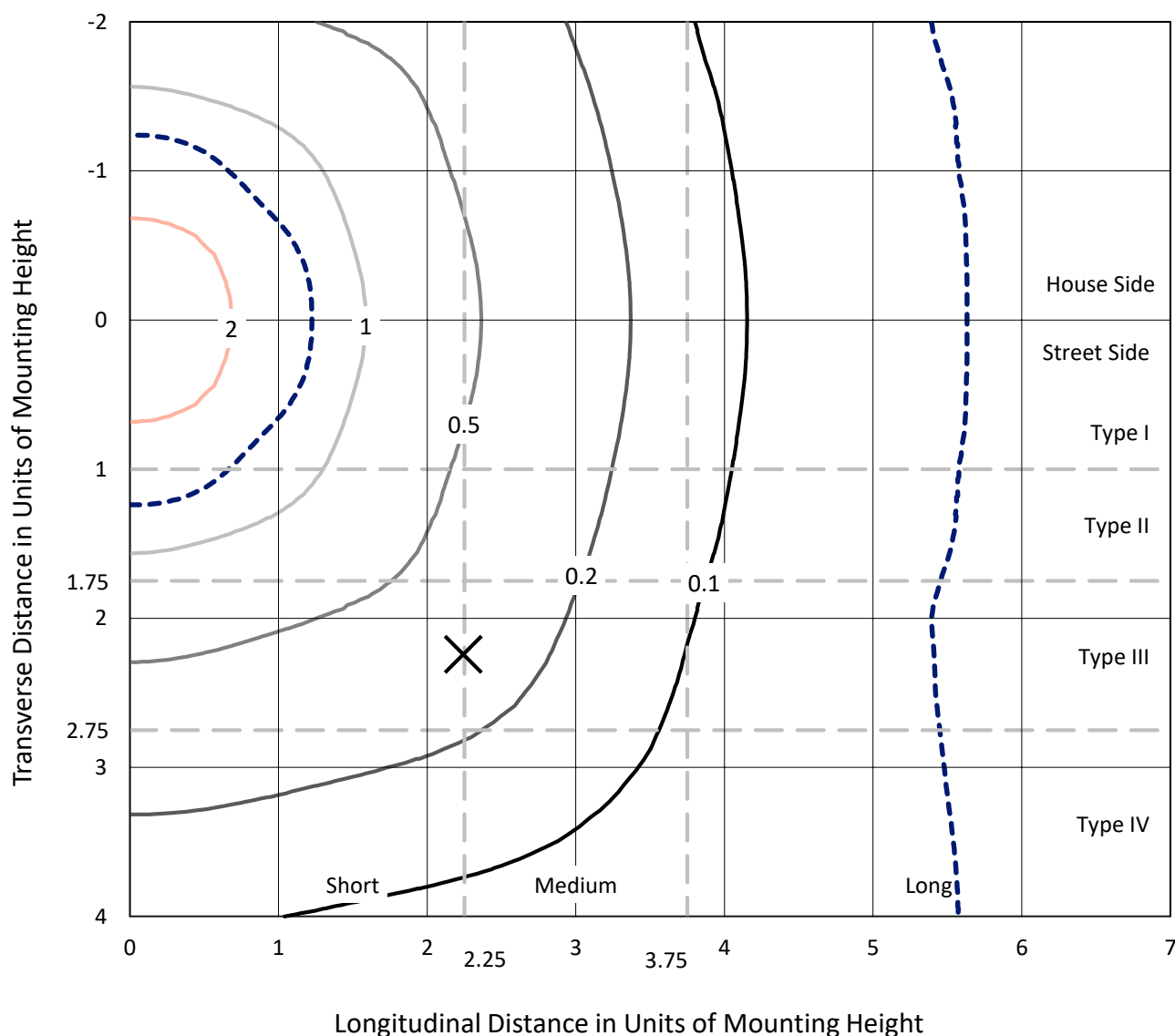


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

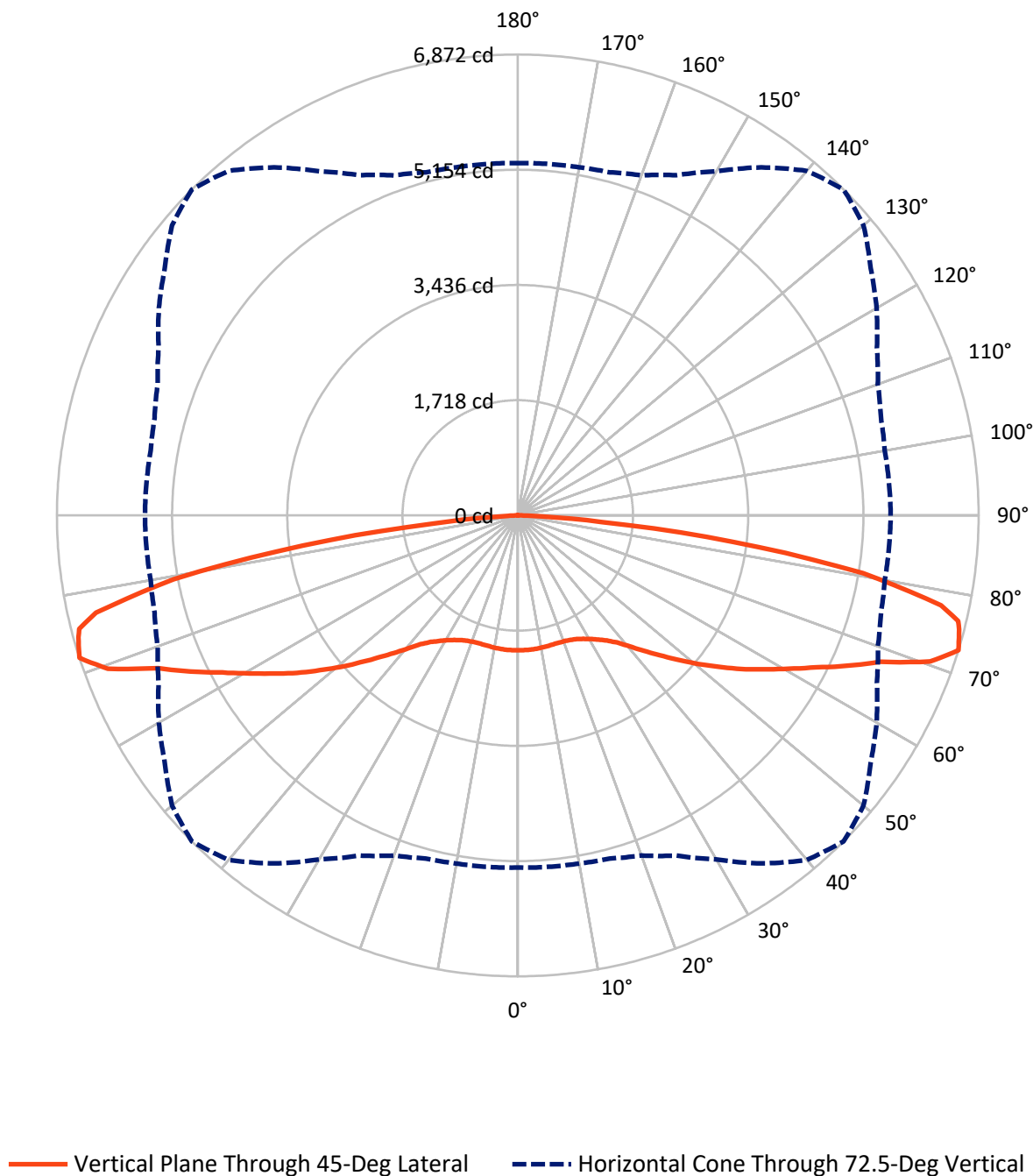


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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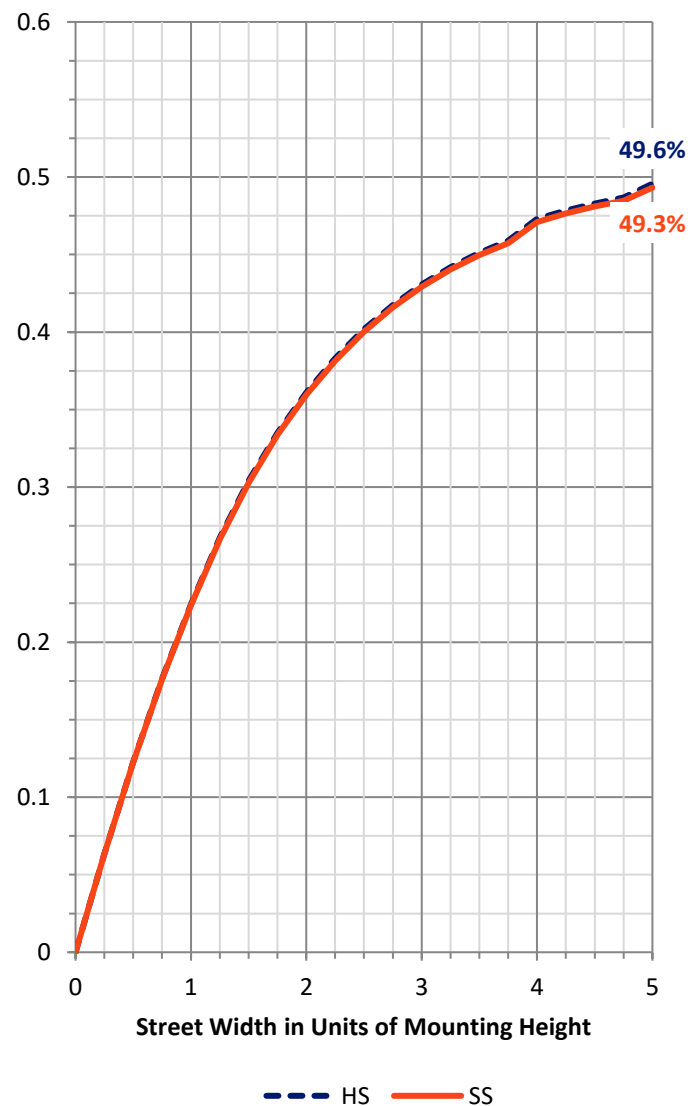
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10438.1	5.0	10443.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10438.1	5.0	10443.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	20876.1	10.0	20886.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	0.9
10°-20°	566.5	2.7
20°-30°	947.3	4.5
30°-40°	1439.8	6.9
40°-50°	2280.4	10.9
50°-60°	3488.3	16.7
60°-70°	4992.4	23.9
70°-80°	5712.4	27.3
80°-90°	1257.2	6.0
90°-100°	1.0	0.0
100°-110°	2.1	0.0
110°-120°	1.5	0.0
120°-130°	1.6	0.0
130°-140°	1.5	0.0
140°-150°	1.2	0.0
150°-160°	0.8	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-90°	20876.1	100.0
0°-180°	20886.2	100.0

Coefficient of Utilization



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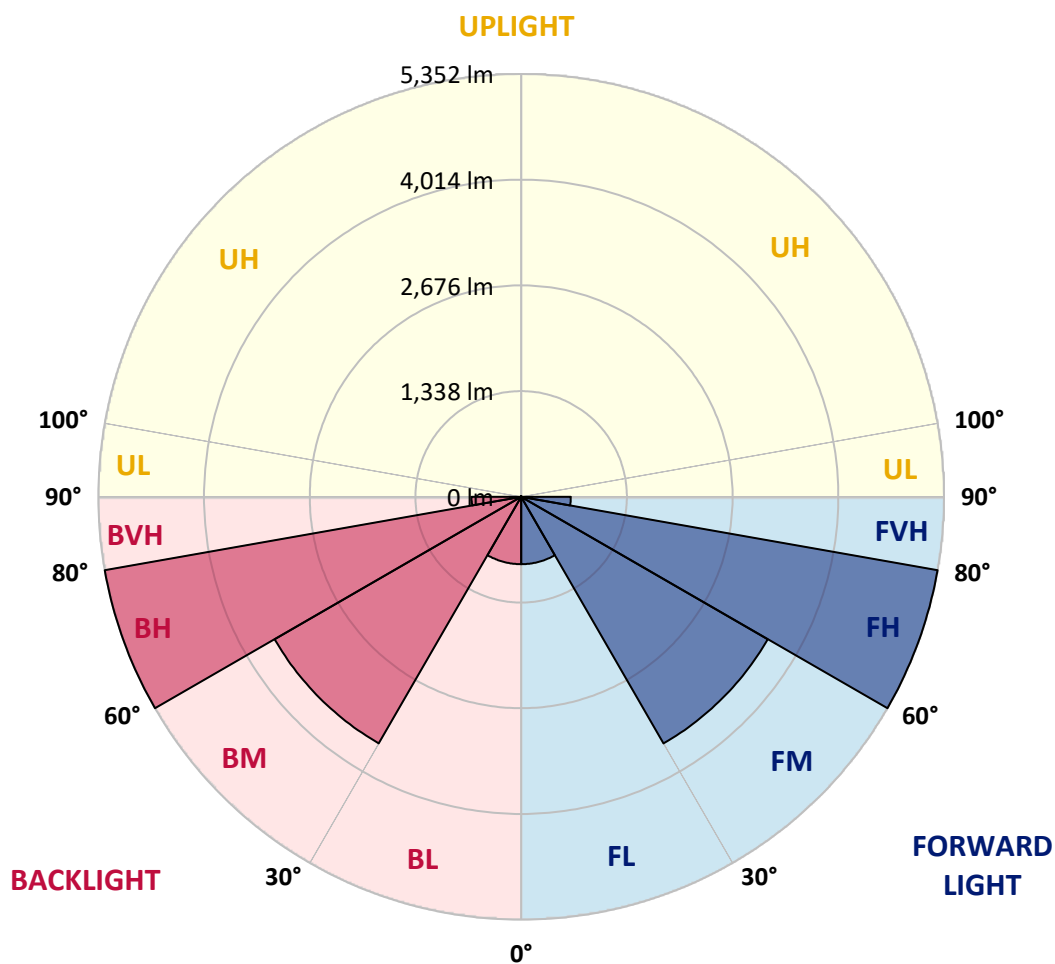
CATALOG NUMBER: VST-F08-LED-E-U-5XQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	852.8	4.1			
FM	(30°-60°)	3604.3	17.3			
FH	(60°-80°)	5352.4	25.6			G3/7500
FVH	(80°-90°)	628.6	3.0			G4/750
BL	(0°-30°)	852.8	4.1	B2/1000		
BM	(30°-60°)	3604.3	17.3	B3/5000		
BH	(60°-80°)	5352.4	25.6	B5		G3/7500
BVH	(80°-90°)	628.6	3.0			G4/750
UL	(90°-100°)	1.0	0.0		U1/10	
UH	(100°-180°)	5.0	0.0		U1/10	

BUG Rating: B5-U1-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3
2.5°	2011.6	2009.0	2010.3	2013.0	2011.6	2011.6	2010.3	2010.3	2013.0	2010.3	2011.6
5°	2013.0	2010.3	2011.6	2013.0	2011.6	2013.0	2011.6	2011.6	2011.6	2010.3	2013.0
7.5°	2007.7	2007.7	2009.0	2009.0	2007.7	2009.0	2009.0	2009.0	2007.7	2007.7	2010.3
10°	2005.0	2003.7	2003.7	2005.0	2003.7	2003.7	2005.0	2005.0	2002.4	2002.4	2005.0
12.5°	2001.1	1999.8	1999.8	1999.8	1998.4	1998.4	1999.8	1999.8	1998.4	1997.1	2001.1
15°	1998.4	1997.1	1997.1	1997.1	1994.5	1995.8	1995.8	1995.8	1994.5	1993.1	1997.1
17.5°	1997.1	1995.8	1995.8	1995.8	1994.5	1994.5	1994.5	1994.5	1993.1	1993.1	1995.8
20°	1999.8	1999.8	1999.8	1999.8	1998.4	1998.4	1998.4	1999.8	1999.8	1999.8	2002.4
22.5°	2006.4	2006.4	2007.7	2009.0	2009.0	2011.6	2013.0	2014.3	2014.3	2015.6	2018.2
25°	2023.5	2023.5	2024.8	2026.2	2030.1	2032.8	2038.1	2040.7	2042.0	2042.0	2043.3
27.5°	2055.2	2056.5	2059.2	2061.8	2067.1	2071.1	2076.4	2081.6	2083.0	2084.3	2085.6
30°	2094.9	2096.2	2101.5	2104.1	2110.7	2118.6	2125.2	2130.5	2134.5	2137.1	2135.8
32.5°	2151.6	2154.3	2160.9	2164.9	2174.1	2182.0	2191.3	2199.2	2203.2	2207.1	2205.8
35°	2230.9	2237.5	2244.1	2248.1	2257.3	2263.9	2275.8	2283.7	2291.7	2289.0	2290.3
37.5°	2348.5	2353.7	2355.1	2357.7	2366.9	2372.2	2385.4	2396.0	2400.0	2402.6	2403.9
40°	2507.0	2507.0	2513.6	2508.3	2520.2	2521.5	2537.3	2551.9	2555.8	2566.4	2558.5
42.5°	2691.9	2690.6	2694.5	2690.6	2690.6	2703.8	2717.0	2743.4	2746.0	2759.2	2751.3
45°	2892.6	2892.6	2888.7	2890.0	2892.6	2907.2	2923.0	2952.1	2965.3	2973.2	2967.9
47.5°	3110.6	3105.3	3104.0	3102.7	3110.6	3126.4	3150.2	3177.9	3211.0	3213.6	3211.0
50°	3331.2	3329.8	3320.6	3328.5	3333.8	3341.7	3386.6	3423.6	3458.0	3479.1	3472.5
52.5°	3563.6	3551.7	3551.7	3551.7	3564.9	3590.0	3629.7	3679.9	3726.1	3748.5	3744.6
55°	3798.7	3794.8	3782.9	3777.6	3794.8	3830.4	3887.2	3948.0	4008.7	4043.1	4029.9
57.5°	4014.0	4007.4	4008.7	4010.1	4029.9	4077.4	4143.5	4224.0	4290.1	4327.1	4317.8
60°	4183.1	4175.2	4189.7	4193.7	4229.3	4308.6	4414.2	4516.0	4603.1	4640.1	4625.6
62.5°	4374.6	4369.3	4378.6	4377.3	4415.6	4504.1	4645.4	4807.9	4939.9	4987.5	4966.4
65°	4683.7	4667.8	4663.9	4649.4	4674.5	4743.1	4884.5	5073.3	5284.7	5406.2	5377.1
67.5°	5053.5	5049.6	5036.4	5028.4	5037.7	5123.5	5259.6	5441.9	5657.2	5824.9	5861.9
70°	5297.9	5303.2	5316.4	5336.2	5412.8	5579.2	5827.5	6103.6	6399.5	6524.9	6502.5
72.5°	5251.7	5259.6	5270.2	5295.2	5395.6	5595.1	5922.6	6334.7	6705.9	6872.3	6729.7
75°	5025.8	5032.4	5056.2	5094.5	5217.3	5459.0	5811.7	6248.9	6631.9	6798.4	6649.1
76°	4817.1	4838.2	4881.8	4926.7	5074.7	5337.5	5714.0	6180.2	6585.7	6754.8	6610.8
77.5°	4344.2	4362.7	4398.4	4476.3	4644.1	4980.9	5420.7	5879.1	6301.7	6453.6	6332.1
80°	3269.1	3284.9	3317.9	3411.7	3557.0	3765.7	4106.5	4554.3	5017.9	5217.3	5138.1
82.5°	1380.3	1398.8	1529.5	1665.6	1825.4	2051.3	2273.2	2669.4	3010.2	3237.4	3115.9
85°	151.9	187.6	231.1	314.4	385.7	513.8	639.3	879.7	1112.1	1253.5	1108.2
87.5°	26.4	30.4	43.6	55.5	62.1	71.3	85.9	120.2	163.8	141.3	144.0
90°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.6	2.6	2.6	2.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
97.5°	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
100°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
102.5°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6
105°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
107.5°	1.3	1.3	1.3	1.3	2.6	2.6	1.3	1.3	1.3	2.6	1.3



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CATALOG NUMBER: VST-F08-LED-E-U-5XQ

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
112.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
115°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
117.5°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
120°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
122.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
125°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
127.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
130°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
132.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
135°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
137.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
140°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
142.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
145°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	1.3
147.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
150°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	0.0	0.0	0.0
152.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	0.0
155°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	1.3
157.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	0.0	0.0
160°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	0.0	0.0
162.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	0.0	0.0
165°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	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°	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3
2.5°	2010.3	2010.3	2013.0	2011.6	2011.6	2013.0	2015.6	2014.3
5°	2011.6	2013.0	2010.3	2011.6	2013.0	2013.0	2014.3	2013.0
7.5°	2009.0	2009.0	2009.0	2010.3	2011.6	2010.3	2011.6	2011.6
10°	2003.7	2005.0	2003.7	2006.4	2007.7	2007.7	2009.0	2009.0
12.5°	1999.8	1999.8	1999.8	2002.4	2003.7	2003.7	2005.0	2003.7
15°	1995.8	1995.8	1994.5	1997.1	1999.8	1999.8	2001.1	2001.1
17.5°	1994.5	1994.5	1993.1	1995.8	1998.4	1998.4	1999.8	1999.8
20°	1998.4	1999.8	1997.1	1999.8	2002.4	2003.7	2003.7	2003.7
22.5°	2014.3	2013.0	2009.0	2010.3	2011.6	2011.6	2011.6	2011.6
25°	2038.1	2035.4	2031.5	2030.1	2028.8	2027.5	2027.5	2027.5
27.5°	2079.0	2075.0	2068.4	2067.1	2065.8	2063.2	2063.2	2063.2
30°	2127.9	2122.6	2114.7	2112.0	2108.1	2105.4	2104.1	2102.8
32.5°	2197.9	2187.3	2178.1	2171.5	2167.5	2159.6	2158.3	2155.6
35°	2278.4	2270.5	2257.3	2253.4	2246.7	2242.8	2241.5	2234.9
37.5°	2389.4	2380.2	2368.3	2365.6	2364.3	2360.3	2360.3	2359.0
40°	2543.9	2534.7	2524.1	2513.6	2516.2	2517.5	2517.5	2512.2
42.5°	2732.8	2718.3	2697.2	2703.8	2699.8	2694.5	2705.1	2698.5
45°	2948.1	2928.3	2912.5	2905.8	2905.8	2899.2	2909.8	2909.8
47.5°	3187.2	3155.5	3126.4	3127.7	3117.2	3119.8	3126.4	3135.7
50°	3439.5	3397.2	3369.5	3356.3	3345.7	3349.6	3361.5	3364.2
52.5°	3701.0	3649.5	3612.5	3592.7	3579.5	3584.8	3594.0	3601.9
55°	3973.1	3916.3	3860.8	3839.7	3823.8	3834.4	3835.7	3846.3
57.5°	4257.1	4179.1	4114.4	4082.7	4066.9	4077.4	4085.4	4095.9
60°	4543.7	4453.9	4377.3	4340.3	4317.8	4332.4	4350.8	4356.1
62.5°	4876.5	4752.4	4666.5	4613.7	4603.1	4617.7	4622.9	4638.8
65°	5270.2	5120.9	5002.0	4937.3	4934.7	4942.6	4954.5	4958.4
67.5°	5719.2	5552.8	5393.0	5328.3	5303.2	5326.9	5338.8	5354.7
70°	6353.2	6124.7	5893.6	5749.6	5688.9	5670.4	5675.6	5692.8
72.5°	6424.6	6178.9	5909.4	5714.0	5607.0	5558.1	5556.8	5559.4
75°	6268.7	5876.4	5686.2	5461.7	5309.8	5230.5	5220.0	5218.6
76°	6190.8	5727.2	5452.4	5274.1	5091.8	5011.3	4999.4	4992.8
77.5°	5861.9	5363.9	4950.5	4842.2	4667.8	4566.1	4587.3	4570.1
80°	4699.5	4205.6	3815.9	3510.8	3520.0	3446.1	3415.7	3406.4
82.5°	2769.8	2364.3	1933.7	1681.4	1441.0	1377.6	1186.1	1142.5
85°	885.0	627.4	380.4	276.1	187.6	157.2	122.8	112.3
87.5°	117.6	92.5	75.3	72.6	66.0	56.8	37.0	26.4
90°	1.3	1.3	1.3	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°	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
97.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
100°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
102.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3
105°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
107.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6



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CATALOG NUMBER: VST-F08-LED-E-U-5XQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
112.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6
115°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6
117.5°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
120°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
122.5°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
125°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
127.5°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
130°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
132.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
135°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
137.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
140°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
142.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
145°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
147.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
150°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
152.5°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
155°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
157.5°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
160°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
162.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
165°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
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)