

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: P157824

Luminaire Tested: **VST-F08-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157824
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19076.5 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - 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

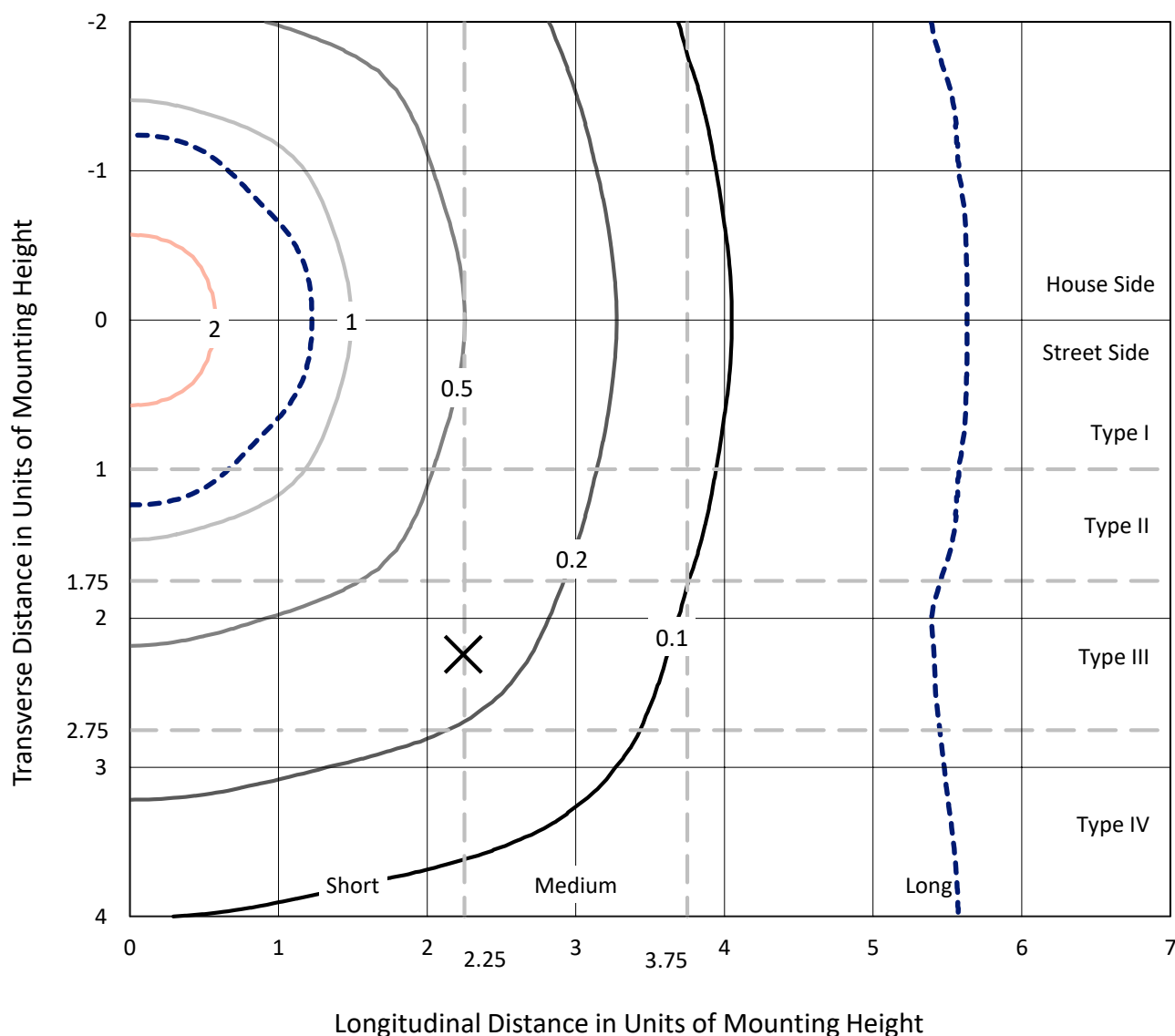


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

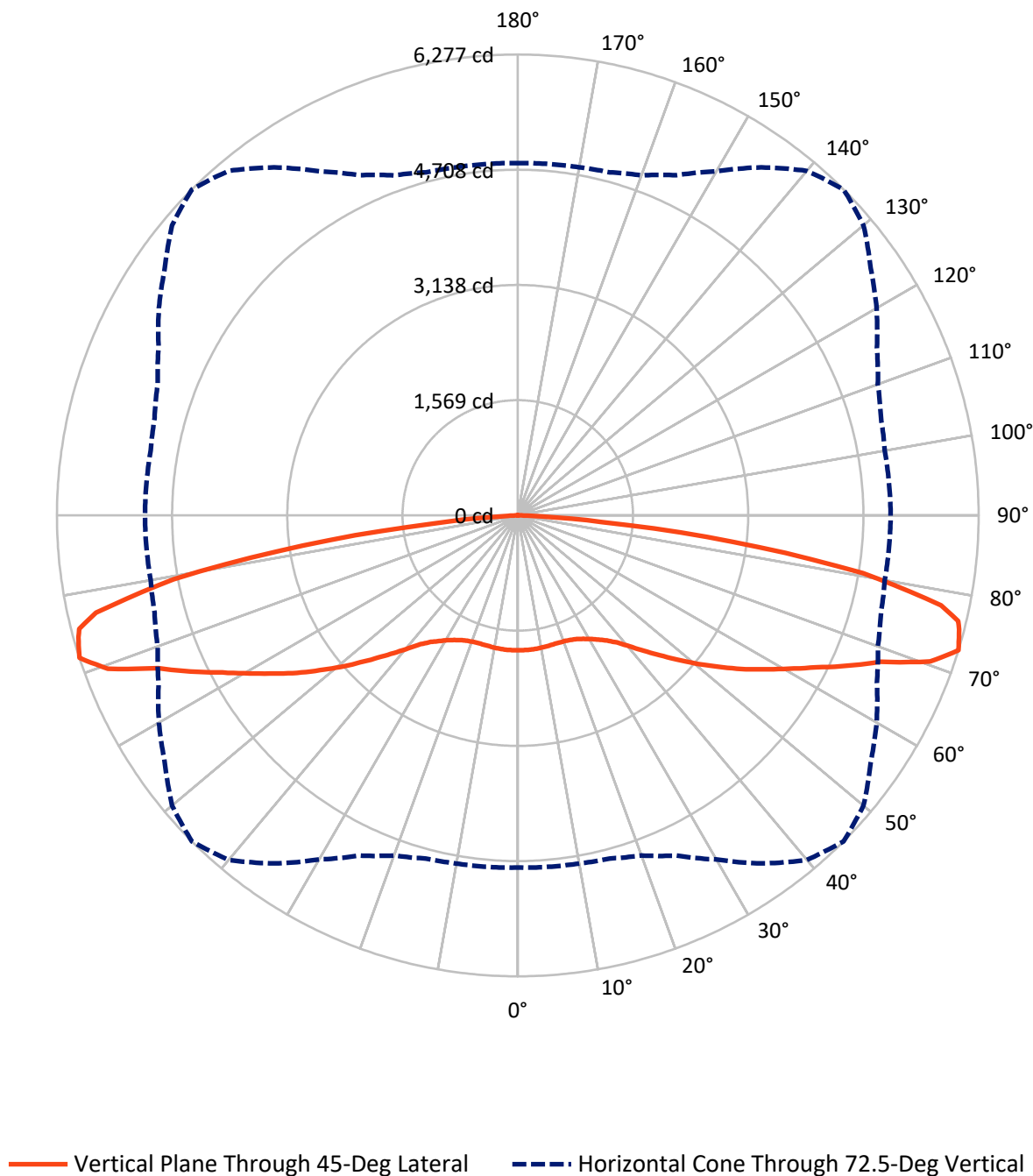


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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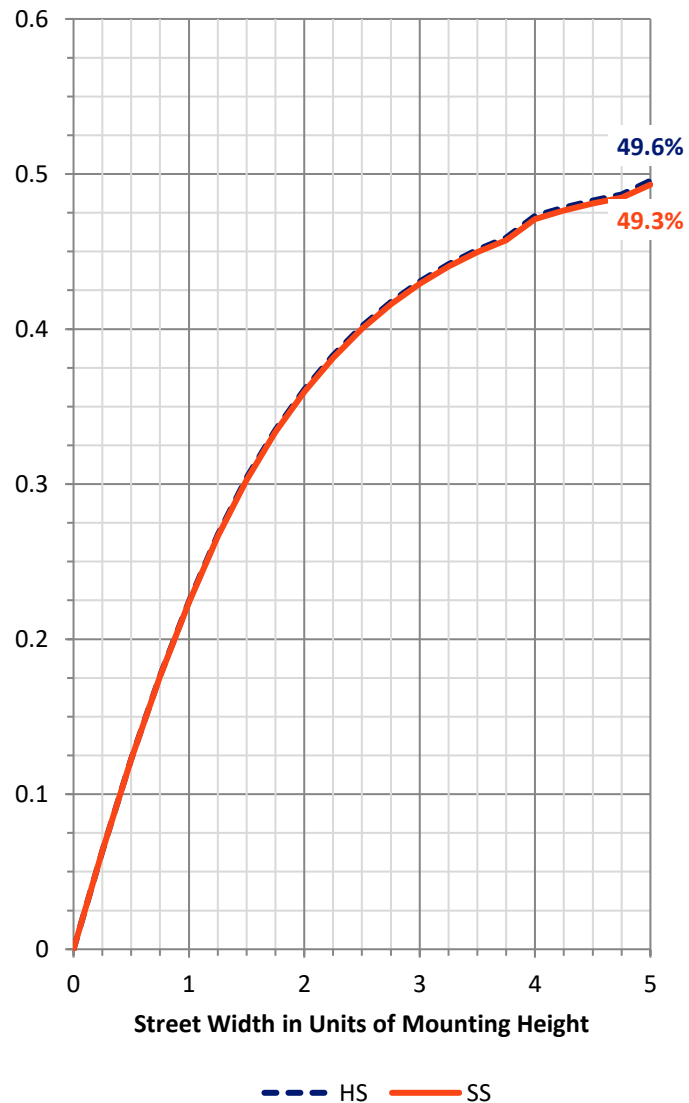
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9533.6	4.6	9538.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9533.6	4.6	9538.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	19067.2	9.3	19076.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	0.9
10°-20°	517.4	2.7
20°-30°	865.2	4.5
30°-40°	1315.1	6.9
40°-50°	2082.8	10.9
50°-60°	3186.0	16.7
60°-70°	4559.8	23.9
70°-80°	5217.4	27.3
80°-90°	1148.3	6.0
90°-100°	1.0	0.0
100°-110°	2.0	0.0
110°-120°	1.4	0.0
120°-130°	1.5	0.0
130°-140°	1.4	0.0
140°-150°	1.1	0.0
150°-160°	0.7	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-90°	19067.2	100.0
0°-180°	19076.5	100.0

Coefficient of Utilization



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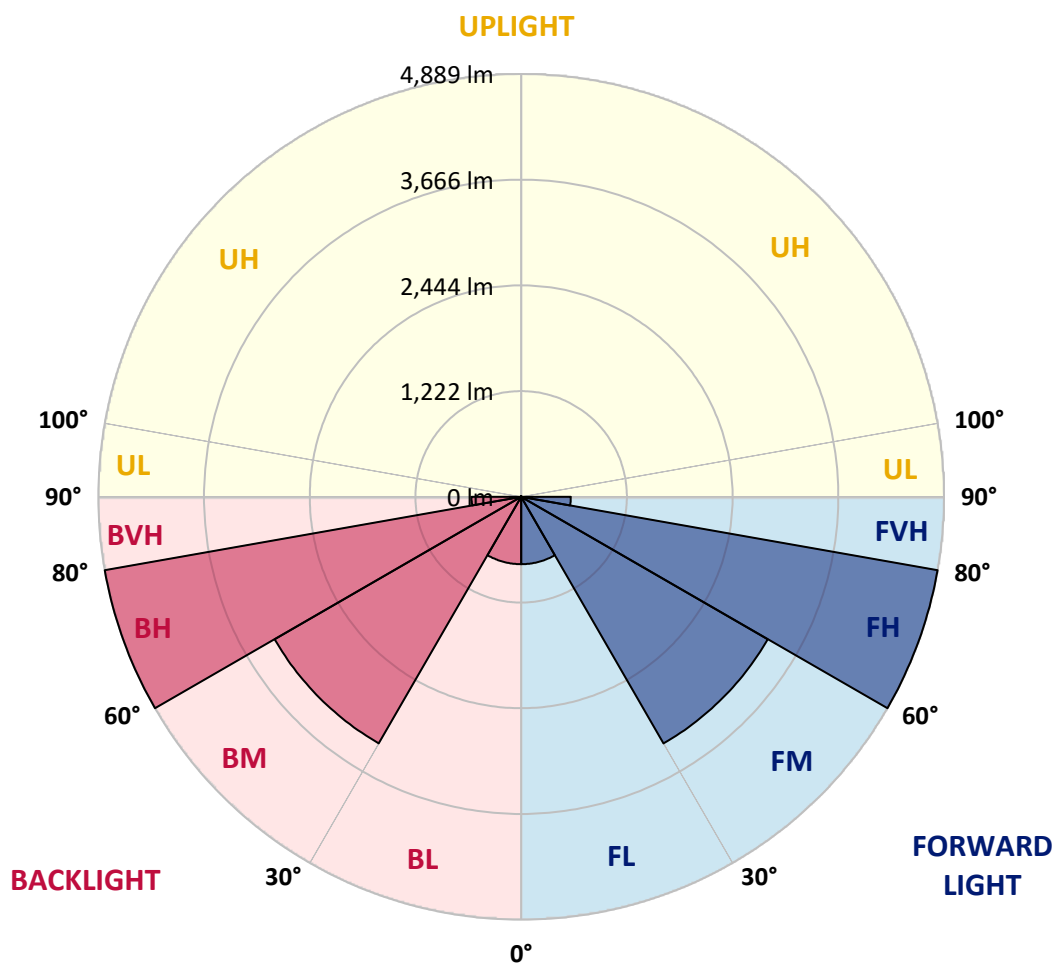
CATALOG NUMBER: VST-F08-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	778.9	4.1			
FM	(30°-60°)	3292.0	17.3			
FH	(60°-80°)	4888.6	25.6			G2/5000
FVH	(80°-90°)	574.1	3.0			G4/750
BL	(0°-30°)	778.9	4.1	B2/1000		
BM	(30°-60°)	3292.0	17.3	B3/5000		
BH	(60°-80°)	4888.6	25.6	B4/5000		G2/5000
BVH	(80°-90°)	574.1	3.0			G4/750
UL	(90°-100°)	1.0	0.0		U1/10	
UH	(100°-180°)	4.6	0.0		U1/10	

BUG Rating: B4-U1-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1
2.5°	1837.3	1834.9	1836.1	1838.5	1837.3	1837.3	1836.1	1836.1	1838.5	1836.1	1837.3
5°	1838.5	1836.1	1837.3	1838.5	1837.3	1838.5	1837.3	1837.3	1837.3	1836.1	1838.5
7.5°	1833.7	1833.7	1834.9	1834.9	1833.7	1834.9	1834.9	1834.9	1833.7	1833.7	1836.1
10°	1831.3	1830.1	1830.1	1831.3	1830.1	1830.1	1831.3	1831.3	1828.9	1828.9	1831.3
12.5°	1827.7	1826.5	1826.5	1826.5	1825.3	1825.3	1826.5	1826.5	1825.3	1824.1	1827.7
15°	1825.3	1824.1	1824.1	1824.1	1821.6	1822.9	1822.9	1822.9	1821.6	1820.4	1824.1
17.5°	1824.1	1822.9	1822.9	1822.9	1821.6	1821.6	1821.6	1821.6	1820.4	1820.4	1822.9
20°	1826.5	1826.5	1826.5	1826.5	1825.3	1825.3	1825.3	1826.5	1826.5	1826.5	1828.9
22.5°	1832.5	1832.5	1833.7	1834.9	1834.9	1837.3	1838.5	1839.7	1839.7	1841.0	1843.4
25°	1848.2	1848.2	1849.4	1850.6	1854.2	1856.6	1861.5	1863.9	1865.1	1865.1	1866.3
27.5°	1877.1	1878.3	1880.8	1883.2	1888.0	1891.6	1896.4	1901.3	1902.5	1903.7	1904.9
30°	1913.3	1914.5	1919.4	1921.8	1927.8	1935.0	1941.1	1945.9	1949.5	1951.9	1950.7
32.5°	1965.2	1967.6	1973.7	1977.3	1985.7	1993.0	2001.4	2008.6	2012.3	2015.9	2014.7
35°	2037.6	2043.6	2049.7	2053.3	2061.7	2067.8	2078.6	2085.8	2093.1	2090.7	2091.9
37.5°	2145.0	2149.8	2151.0	2153.4	2161.9	2166.7	2178.7	2188.4	2192.0	2194.4	2195.6
40°	2289.7	2289.7	2295.8	2290.9	2301.8	2303.0	2317.5	2330.7	2334.4	2344.0	2336.8
42.5°	2458.6	2457.4	2461.0	2457.4	2457.4	2469.5	2481.5	2505.7	2508.1	2520.1	2512.9
45°	2642.0	2642.0	2638.4	2639.6	2642.0	2655.3	2669.7	2696.3	2708.3	2715.6	2710.8
47.5°	2841.0	2836.2	2835.0	2833.8	2841.0	2855.5	2877.2	2902.6	2932.7	2935.1	2932.7
50°	3042.5	3041.3	3032.9	3040.1	3044.9	3052.2	3093.2	3127.0	3158.3	3177.6	3171.6
52.5°	3254.8	3244.0	3244.0	3244.0	3256.0	3279.0	3315.2	3361.0	3403.2	3423.7	3420.1
55°	3469.6	3466.0	3455.1	3450.3	3466.0	3498.5	3550.4	3605.9	3661.4	3692.8	3680.7
57.5°	3666.2	3660.2	3661.4	3662.6	3680.7	3724.1	3784.4	3858.0	3918.4	3952.1	3943.7
60°	3820.6	3813.4	3826.7	3830.3	3862.9	3935.2	4031.8	4124.6	4204.3	4238.0	4224.8
62.5°	3995.6	3990.7	3999.2	3998.0	4033.0	4113.8	4242.9	4391.3	4511.9	4555.3	4536.0
65°	4277.9	4263.4	4259.8	4246.5	4269.4	4332.1	4461.2	4633.7	4826.8	4937.8	4911.2
67.5°	4615.6	4612.0	4600.0	4592.7	4601.2	4679.6	4803.8	4970.3	5167.0	5320.2	5354.0
70°	4838.8	4843.7	4855.7	4873.8	4943.8	5095.8	5322.6	5574.7	5845.0	5959.6	5939.1
72.5°	4796.6	4803.8	4813.5	4836.4	4928.1	5110.3	5409.5	5785.8	6124.8	6276.8	6146.6
75°	4590.3	4596.3	4618.1	4653.0	4765.2	4986.0	5308.1	5707.4	6057.3	6209.3	6073.0
76°	4399.7	4419.0	4458.8	4499.8	4634.9	4875.0	5218.8	5644.7	6015.1	6169.5	6038.0
77.5°	3967.8	3984.7	4017.3	4088.5	4241.7	4549.3	4951.0	5369.6	5755.7	5894.4	5783.4
80°	2985.8	3000.3	3030.5	3116.1	3248.8	3439.4	3750.7	4159.6	4583.1	4765.2	4692.9
82.5°	1260.7	1277.6	1397.0	1521.3	1667.2	1873.5	2076.2	2438.1	2749.4	2956.9	2845.9
85°	138.7	171.3	211.1	287.1	352.3	469.3	583.9	803.5	1015.8	1144.9	1012.2
87.5°	24.1	27.7	39.8	50.7	56.7	65.1	78.4	109.8	149.6	129.1	131.5
90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
97.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
100°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
102.5°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4
105°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
107.5°	1.2	1.2	1.2	1.2	2.4	2.4	1.2	1.2	1.2	2.4	1.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
112.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
115°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
117.5°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
120°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
122.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
125°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
127.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
130°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2
132.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
135°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2
137.5°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2
140°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2
142.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
145°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	1.2
147.5°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2
150°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	0.0	0.0	0.0
152.5°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	0.0
155°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	1.2
157.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0
160°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0
162.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0
165°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	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°	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1
2.5°	1836.1	1836.1	1838.5	1837.3	1837.3	1838.5	1841.0	1839.7
5°	1837.3	1838.5	1836.1	1837.3	1838.5	1838.5	1839.7	1838.5
7.5°	1834.9	1834.9	1834.9	1836.1	1837.3	1836.1	1837.3	1837.3
10°	1830.1	1831.3	1830.1	1832.5	1833.7	1833.7	1834.9	1834.9
12.5°	1826.5	1826.5	1826.5	1828.9	1830.1	1830.1	1831.3	1830.1
15°	1822.9	1822.9	1821.6	1824.1	1826.5	1826.5	1827.7	1827.7
17.5°	1821.6	1821.6	1820.4	1822.9	1825.3	1825.3	1826.5	1826.5
20°	1825.3	1826.5	1824.1	1826.5	1828.9	1830.1	1830.1	1830.1
22.5°	1839.7	1838.5	1834.9	1836.1	1837.3	1837.3	1837.3	1837.3
25°	1861.5	1859.0	1855.4	1854.2	1853.0	1851.8	1851.8	1851.8
27.5°	1898.9	1895.2	1889.2	1888.0	1886.8	1884.4	1884.4	1884.4
30°	1943.5	1938.7	1931.4	1929.0	1925.4	1923.0	1921.8	1920.6
32.5°	2007.4	1997.8	1989.3	1983.3	1979.7	1972.4	1971.2	1968.8
35°	2081.0	2073.8	2061.7	2058.1	2052.1	2048.4	2047.2	2041.2
37.5°	2182.4	2173.9	2163.1	2160.6	2159.4	2155.8	2155.8	2154.6
40°	2323.5	2315.1	2305.4	2295.8	2298.2	2299.4	2299.4	2294.6
42.5°	2496.0	2482.7	2463.4	2469.5	2465.9	2461.0	2470.7	2464.7
45°	2692.7	2674.6	2660.1	2654.1	2654.1	2648.0	2657.7	2657.7
47.5°	2911.0	2882.1	2855.5	2856.7	2847.1	2849.5	2855.5	2864.0
50°	3141.4	3102.8	3077.5	3065.4	3055.8	3059.4	3070.3	3072.7
52.5°	3380.3	3333.3	3299.5	3281.4	3269.3	3274.1	3282.6	3289.8
55°	3628.8	3576.9	3526.3	3507.0	3492.5	3502.1	3503.4	3513.0
57.5°	3888.2	3817.0	3757.9	3729.0	3714.5	3724.1	3731.4	3741.0
60°	4150.0	4067.9	3998.0	3964.2	3943.7	3957.0	3973.8	3978.7
62.5°	4454.0	4340.6	4262.2	4213.9	4204.3	4217.5	4222.4	4236.8
65°	4813.5	4677.2	4568.6	4509.5	4507.1	4514.3	4525.2	4528.8
67.5°	5223.7	5071.7	4925.7	4866.6	4843.7	4865.4	4876.2	4890.7
70°	5802.7	5594.0	5382.9	5251.4	5195.9	5179.0	5183.9	5199.5
72.5°	5867.9	5643.5	5397.4	5218.8	5121.1	5076.5	5075.3	5077.7
75°	5725.5	5367.2	5193.5	4988.4	4849.7	4777.3	4767.7	4766.4
76°	5654.3	5230.9	4980.0	4817.1	4650.6	4577.0	4566.2	4560.2
77.5°	5354.0	4899.1	4521.5	4422.6	4263.4	4170.5	4189.8	4174.1
80°	4292.3	3841.1	3485.3	3206.6	3215.0	3147.5	3119.7	3111.3
82.5°	2529.8	2159.4	1766.2	1535.7	1316.2	1258.3	1083.3	1043.5
85°	808.3	573.0	347.4	252.1	171.3	143.6	112.2	102.5
87.5°	107.4	84.4	68.8	66.4	60.3	51.9	33.8	24.1
90°	1.2	1.2	1.2	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°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
97.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
100°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
102.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2
105°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
107.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



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CATALOG NUMBER: VST-F08-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
112.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
115°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
117.5°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
120°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
122.5°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
125°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
127.5°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
130°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
132.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
135°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
137.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
140°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
142.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
145°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
147.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
150°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
152.5°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
155°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
157.5°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
160°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
162.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
165°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
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)