

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: P157817

Luminaire Tested: **VST-F07-LED-E-U-5XQ-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157817  
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-F07-LED-E-U-5XQ-7060  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (49) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18752.7 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U1 - G4

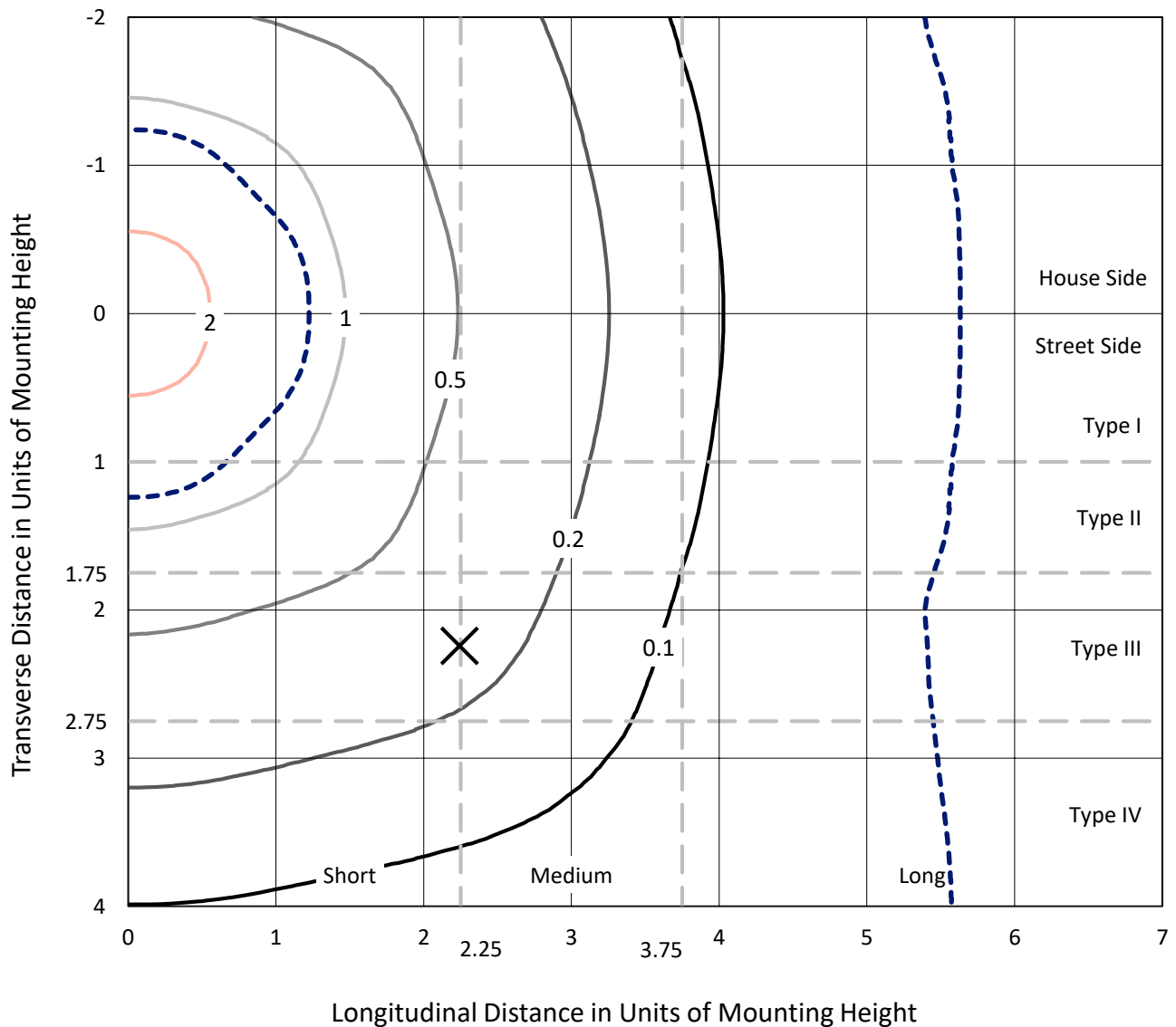
Input Watts (W): 180.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

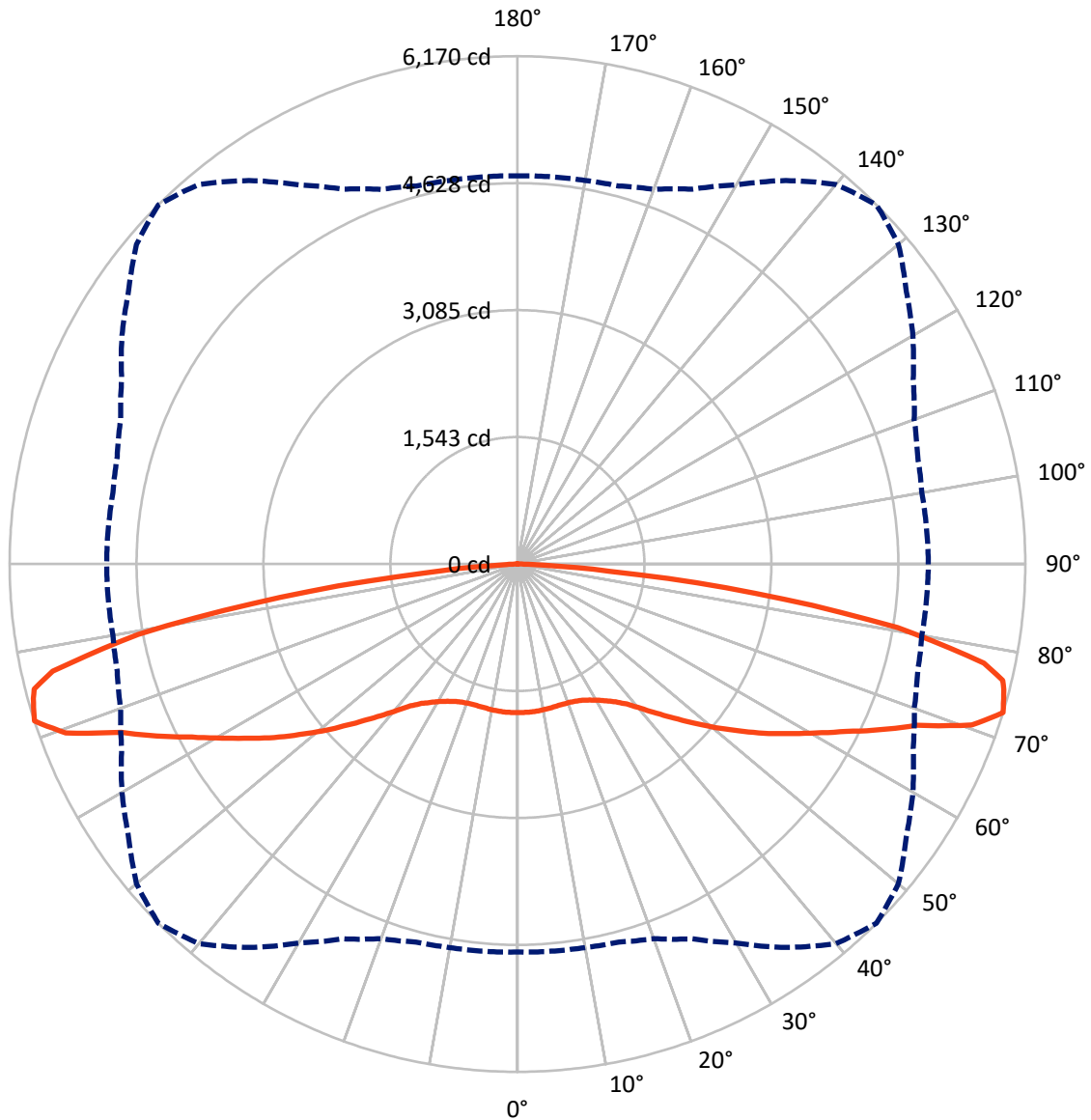
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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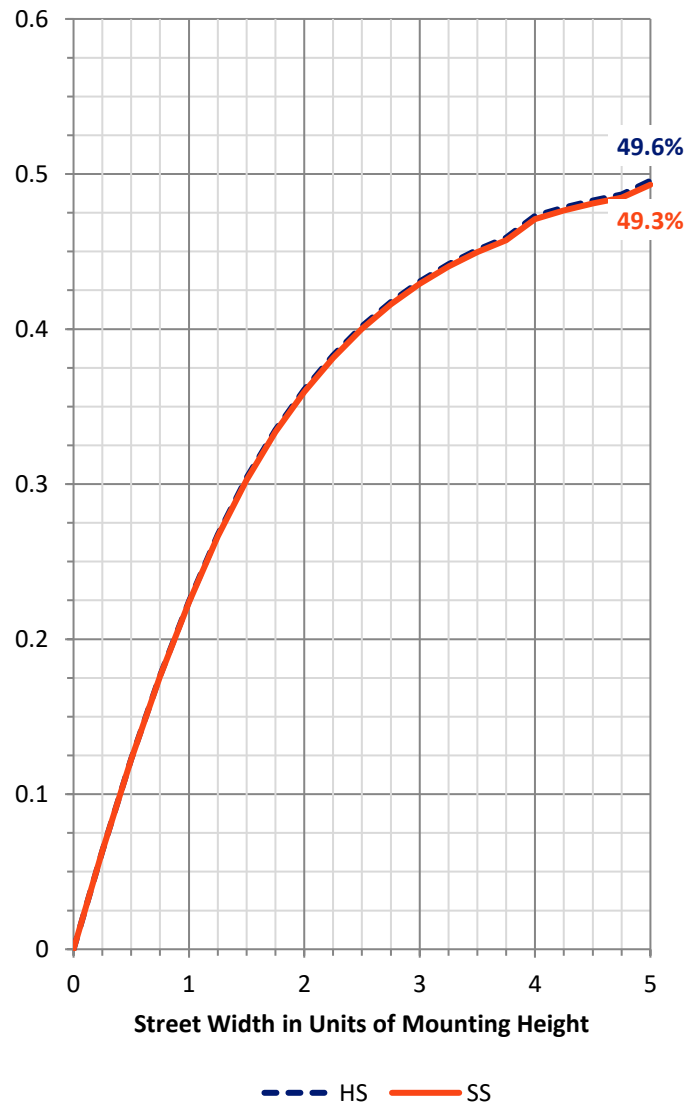
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9371.7	4.6	9376.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9371.7	4.6	9376.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18743.5	9.3	18752.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.2	0.9
10°-20°	508.6	2.7
20°-30°	850.5	4.5
30°-40°	1292.8	6.9
40°-50°	2047.5	10.9
50°-60°	3131.9	16.7
60°-70°	4482.3	23.9
70°-80°	5128.8	27.3
80°-90°	1128.8	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°	18743.5	100.0
0°-180°	18752.7	100.0



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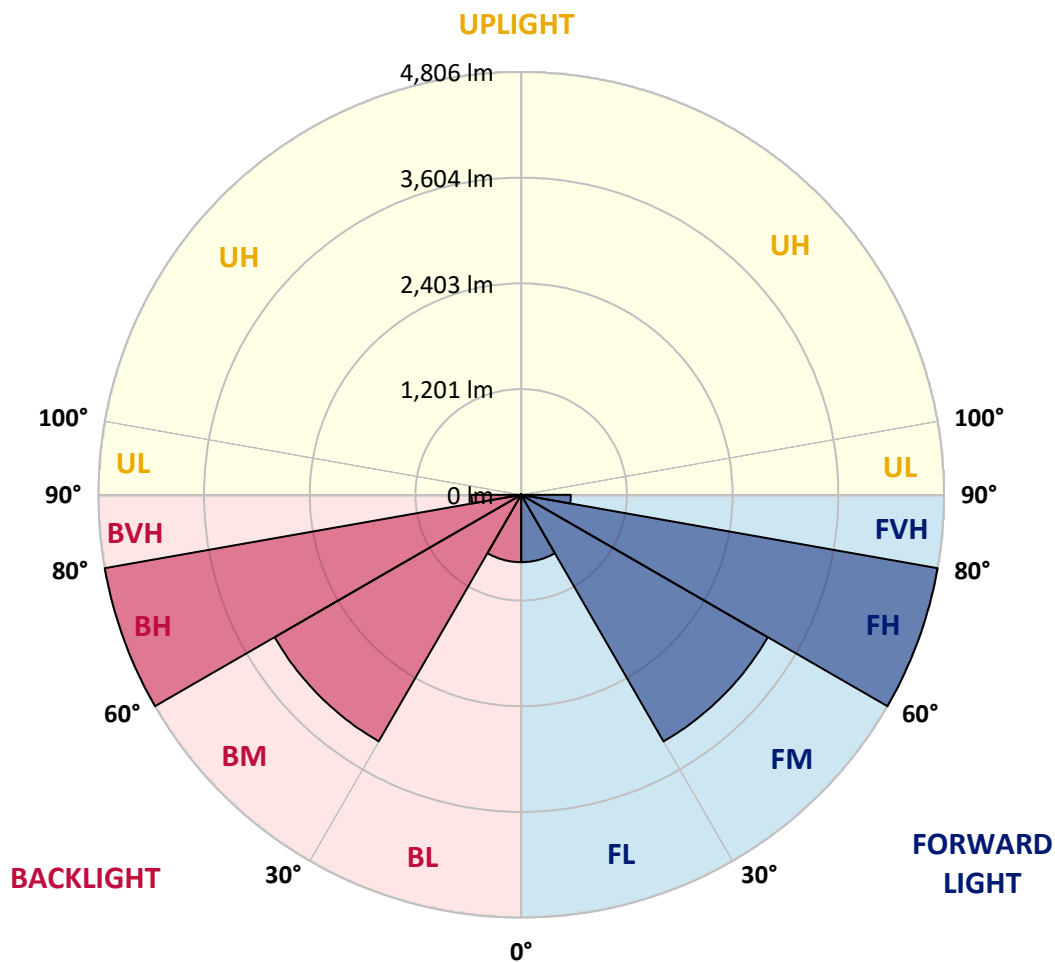
CATALOG NUMBER: VST-F07-LED-E-U-5XQ-7060

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.7	4.1			
FM	(30°-60°)	3236.1	17.3			
FH	(60°-80°)	4805.6	25.6			G2/5000
FVH	(80°-90°)	564.4	3.0			G4/750
BL	(0°-30°)	765.7	4.1	B2/1000		
BM	(30°-60°)	3236.1	17.3	B3/5000		
BH	(60°-80°)	4805.6	25.6	B4/5000		G2/5000
BVH	(80°-90°)	564.4	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°	1804.9	1804.9	1804.9	1804.9	1804.9	1804.9	1804.9	1804.9	1804.9	1804.9	1804.9
2.5°	1806.1	1803.8	1804.9	1807.3	1806.1	1806.1	1804.9	1804.9	1807.3	1804.9	1806.1
5°	1807.3	1804.9	1806.1	1807.3	1806.1	1807.3	1806.1	1806.1	1806.1	1804.9	1807.3
7.5°	1802.6	1802.6	1803.8	1803.8	1802.6	1803.8	1803.8	1803.8	1802.6	1802.6	1804.9
10°	1800.2	1799.0	1799.0	1800.2	1799.0	1799.0	1800.2	1800.2	1797.8	1797.8	1800.2
12.5°	1796.6	1795.5	1795.5	1795.5	1794.3	1794.3	1795.5	1795.5	1794.3	1793.1	1796.6
15°	1794.3	1793.1	1793.1	1793.1	1790.7	1791.9	1791.9	1791.9	1790.7	1789.5	1793.1
17.5°	1793.1	1791.9	1791.9	1791.9	1790.7	1790.7	1790.7	1790.7	1789.5	1789.5	1791.9
20°	1795.5	1795.5	1795.5	1795.5	1794.3	1794.3	1794.3	1795.5	1795.5	1795.5	1797.8
22.5°	1801.4	1801.4	1802.6	1803.8	1803.8	1806.1	1807.3	1808.5	1808.5	1809.7	1812.1
25°	1816.8	1816.8	1818.0	1819.2	1822.7	1825.1	1829.9	1832.2	1833.4	1833.4	1834.6
27.5°	1845.3	1846.5	1848.8	1851.2	1855.9	1859.5	1864.2	1869.0	1870.2	1871.4	1872.5
30°	1880.8	1882.0	1886.8	1889.1	1895.1	1902.2	1908.1	1912.9	1916.4	1918.8	1917.6
32.5°	1931.8	1934.2	1940.1	1943.7	1952.0	1959.1	1967.4	1974.5	1978.1	1981.6	1980.5
35°	2003.0	2008.9	2014.9	2018.4	2026.7	2032.6	2043.3	2050.4	2057.5	2055.2	2056.4
37.5°	2108.5	2113.3	2114.5	2116.8	2125.1	2129.9	2141.7	2151.2	2154.8	2157.2	2158.3
40°	2250.8	2250.8	2256.8	2252.0	2262.7	2263.9	2278.1	2291.2	2294.7	2304.2	2297.1
42.5°	2416.9	2415.7	2419.2	2415.7	2415.7	2427.5	2439.4	2463.1	2465.5	2477.4	2470.2
45°	2597.1	2597.1	2593.6	2594.8	2597.1	2610.2	2624.4	2650.5	2662.4	2669.5	2664.7
47.5°	2792.8	2788.1	2786.9	2785.7	2792.8	2807.0	2828.4	2853.3	2882.9	2885.3	2882.9
50°	2990.9	2989.7	2981.4	2988.5	2993.2	3000.3	3040.7	3073.9	3104.7	3123.7	3117.7
52.5°	3199.6	3188.9	3188.9	3188.9	3200.8	3223.3	3258.9	3303.9	3345.4	3365.6	3362.0
55°	3410.7	3407.1	3396.4	3391.7	3407.1	3439.1	3490.1	3544.7	3599.2	3630.1	3618.2
57.5°	3604.0	3598.0	3599.2	3600.4	3618.2	3660.9	3720.2	3792.5	3851.8	3885.0	3876.7
60°	3755.8	3748.6	3761.7	3765.3	3797.3	3868.4	3963.3	4054.6	4132.9	4166.1	4153.0
62.5°	3927.7	3923.0	3931.3	3930.1	3964.5	4043.9	4170.8	4316.7	4435.3	4478.0	4459.0
65°	4205.2	4191.0	4187.4	4174.4	4196.9	4258.6	4385.5	4555.1	4744.8	4853.9	4827.8
67.5°	4537.3	4533.7	4521.9	4514.7	4523.0	4600.1	4722.3	4885.9	5079.2	5229.8	5263.1
70°	4756.7	4761.4	4773.3	4791.1	4859.8	5009.3	5232.2	5480.1	5745.7	5858.4	5838.2
72.5°	4715.2	4722.3	4731.8	4754.3	4844.4	5023.5	5317.6	5687.6	6020.8	6170.3	6042.2
75°	4512.4	4518.3	4539.6	4574.0	4684.3	4901.3	5218.0	5610.5	5954.4	6103.9	5969.9
76°	4325.0	4344.0	4383.1	4423.4	4556.3	4792.2	5130.2	5548.9	5912.9	6064.7	5935.5
77.5°	3900.4	3917.0	3949.1	4019.0	4169.6	4472.1	4867.0	5278.5	5658.0	5794.3	5685.2
80°	2935.1	2949.3	2979.0	3063.2	3193.6	3381.0	3687.0	4089.0	4505.3	4684.3	4613.2
82.5°	1239.3	1255.9	1373.3	1495.4	1638.9	1841.7	2040.9	2396.7	2702.7	2906.7	2797.6
85°	136.4	168.4	207.5	282.2	346.3	461.3	574.0	789.8	998.5	1125.4	995.0
87.5°	23.7	27.3	39.1	49.8	55.7	64.0	77.1	107.9	147.1	126.9	129.3
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°	1804.9	1804.9	1804.9	1804.9	1804.9	1804.9	1804.9	1804.9
2.5°	1804.9	1804.9	1807.3	1806.1	1806.1	1807.3	1809.7	1808.5
5°	1806.1	1807.3	1804.9	1806.1	1807.3	1807.3	1808.5	1807.3
7.5°	1803.8	1803.8	1803.8	1804.9	1806.1	1804.9	1806.1	1806.1
10°	1799.0	1800.2	1799.0	1801.4	1802.6	1802.6	1803.8	1803.8
12.5°	1795.5	1795.5	1795.5	1797.8	1799.0	1799.0	1800.2	1799.0
15°	1791.9	1791.9	1790.7	1793.1	1795.5	1795.5	1796.6	1796.6
17.5°	1790.7	1790.7	1789.5	1791.9	1794.3	1794.3	1795.5	1795.5
20°	1794.3	1795.5	1793.1	1795.5	1797.8	1799.0	1799.0	1799.0
22.5°	1808.5	1807.3	1803.8	1804.9	1806.1	1806.1	1806.1	1806.1
25°	1829.9	1827.5	1823.9	1822.7	1821.6	1820.4	1820.4	1820.4
27.5°	1866.6	1863.1	1857.1	1855.9	1854.8	1852.4	1852.4	1852.4
30°	1910.5	1905.8	1898.6	1896.3	1892.7	1890.3	1889.1	1888.0
32.5°	1973.3	1963.9	1955.6	1949.6	1946.1	1939.0	1937.8	1935.4
35°	2045.7	2038.6	2026.7	2023.2	2017.2	2013.7	2012.5	2006.6
37.5°	2145.3	2137.0	2126.3	2124.0	2122.8	2119.2	2119.2	2118.0
40°	2284.1	2275.8	2266.3	2256.8	2259.2	2260.3	2260.3	2255.6
42.5°	2453.6	2440.6	2421.6	2427.5	2424.0	2419.2	2428.7	2422.8
45°	2646.9	2629.2	2614.9	2609.0	2609.0	2603.1	2612.6	2612.6
47.5°	2861.6	2833.1	2807.0	2808.2	2798.7	2801.1	2807.0	2815.3
50°	3088.1	3050.1	3025.2	3013.4	3003.9	3007.5	3018.1	3020.5
52.5°	3322.9	3276.7	3243.5	3225.7	3213.8	3218.5	3226.8	3234.0
55°	3567.2	3516.2	3466.4	3447.4	3433.2	3442.7	3443.9	3453.4
57.5°	3822.2	3752.2	3694.1	3665.6	3651.4	3660.9	3668.0	3677.5
60°	4079.5	3998.9	3930.1	3896.9	3876.7	3889.8	3906.4	3911.1
62.5°	4378.4	4266.9	4189.8	4142.4	4132.9	4145.9	4150.7	4164.9
65°	4731.8	4597.8	4491.0	4432.9	4430.5	4437.7	4448.3	4451.9
67.5°	5135.0	4985.5	4842.1	4783.9	4761.4	4782.8	4793.4	4807.7
70°	5704.2	5499.0	5291.5	5162.2	5107.7	5091.1	5095.8	5111.3
72.5°	5768.2	5547.7	5305.7	5130.2	5034.2	4990.3	4989.1	4991.5
75°	5628.3	5276.1	5105.3	4903.7	4767.3	4696.2	4686.7	4685.5
76°	5558.3	5142.1	4895.4	4735.3	4571.7	4499.3	4488.7	4482.7
77.5°	5263.1	4816.0	4444.8	4347.5	4191.0	4099.7	4118.7	4103.2
80°	4219.5	3775.9	3426.1	3152.1	3160.4	3094.0	3066.8	3058.5
82.5°	2486.8	2122.8	1736.2	1509.7	1293.8	1236.9	1064.9	1025.8
85°	794.6	563.3	341.5	247.9	168.4	141.1	110.3	100.8
87.5°	105.5	83.0	67.6	65.2	59.3	51.0	33.2	23.7
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-F07-LED-E-U-5XQ-7060

**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)