

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: P157784

Luminaire Tested: **VST-F04-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157784
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-F04-LED-E-U-5XQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9538.2 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U1 - G3

Input Watts (W): 102.2
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



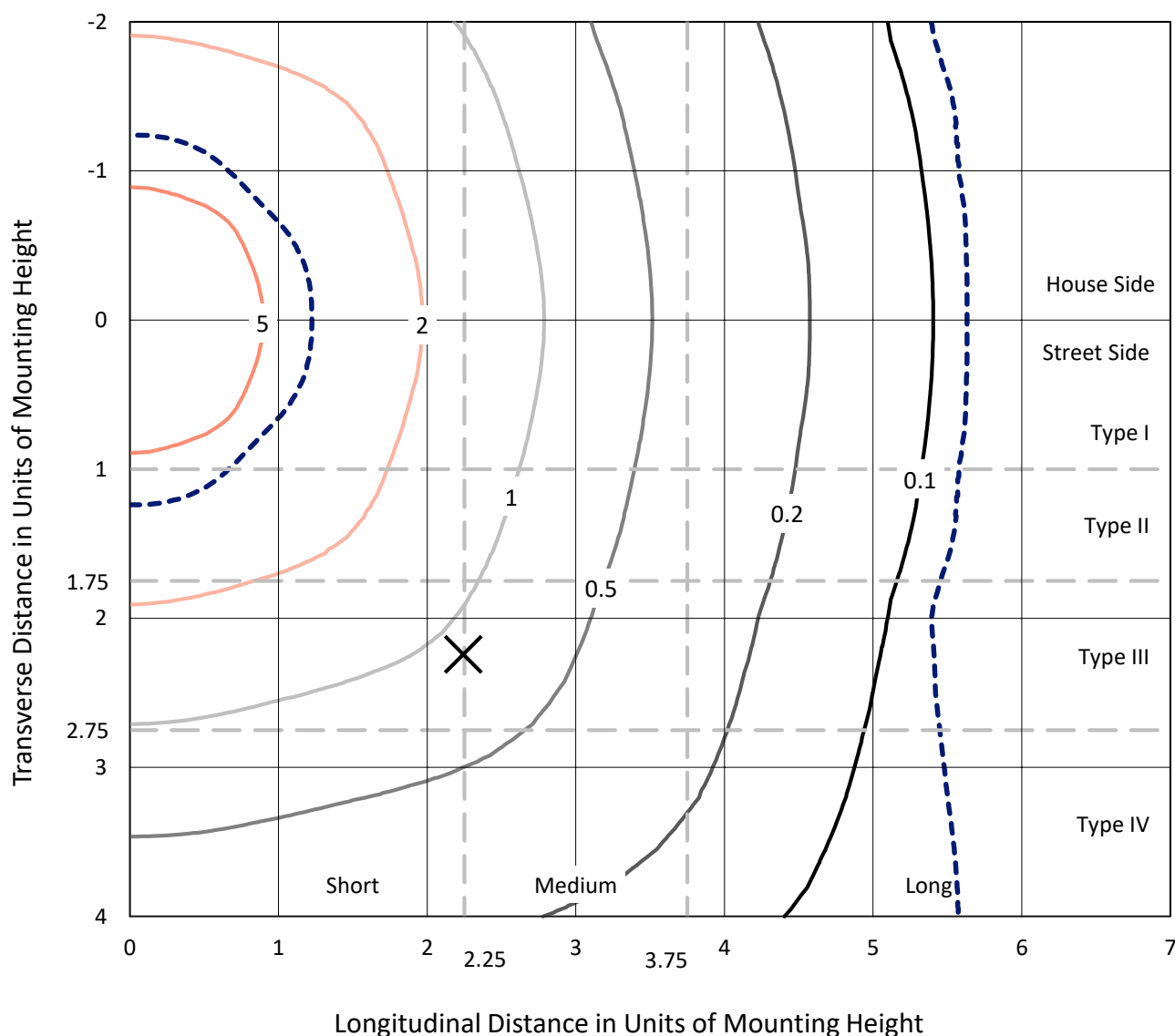
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

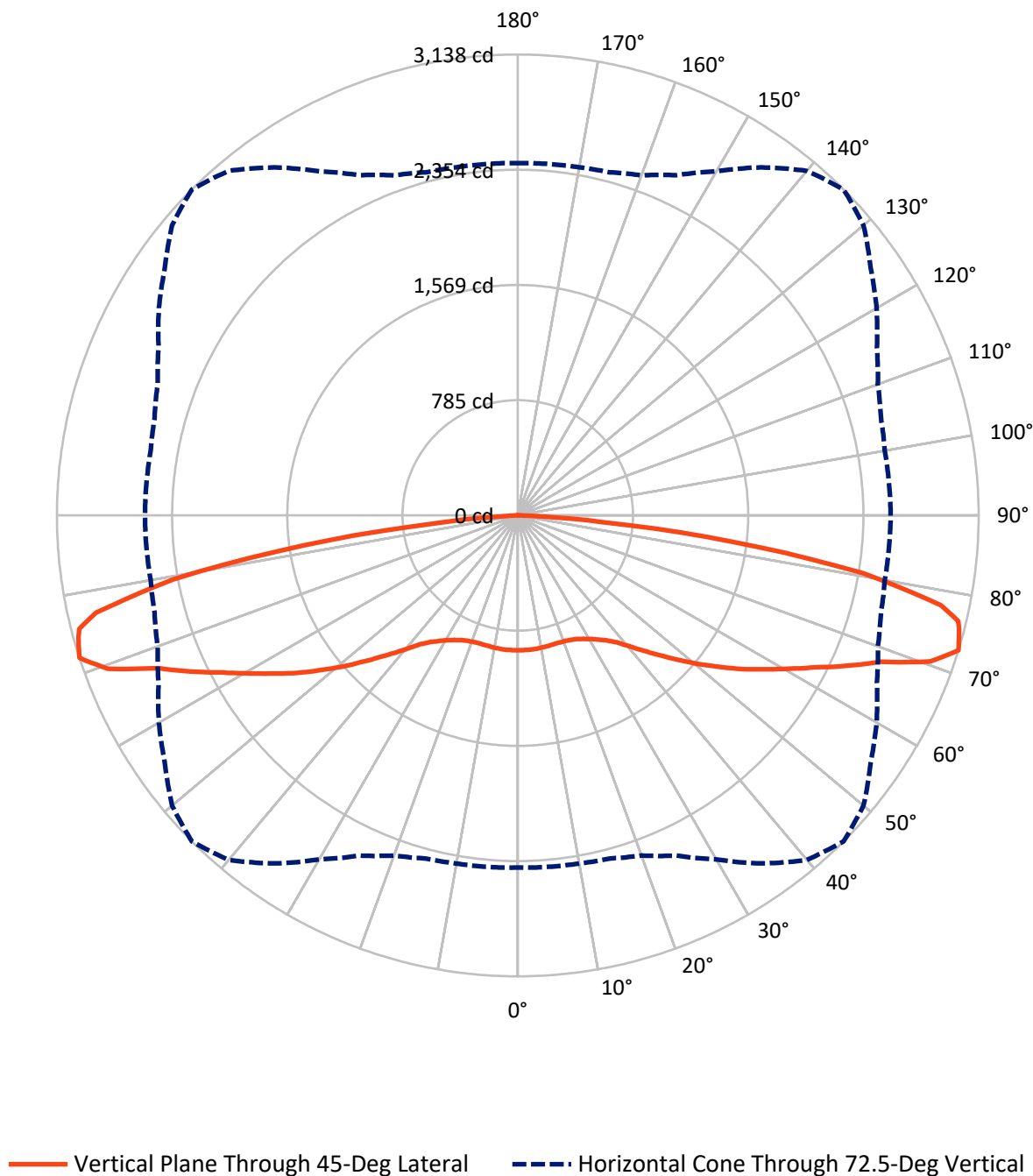


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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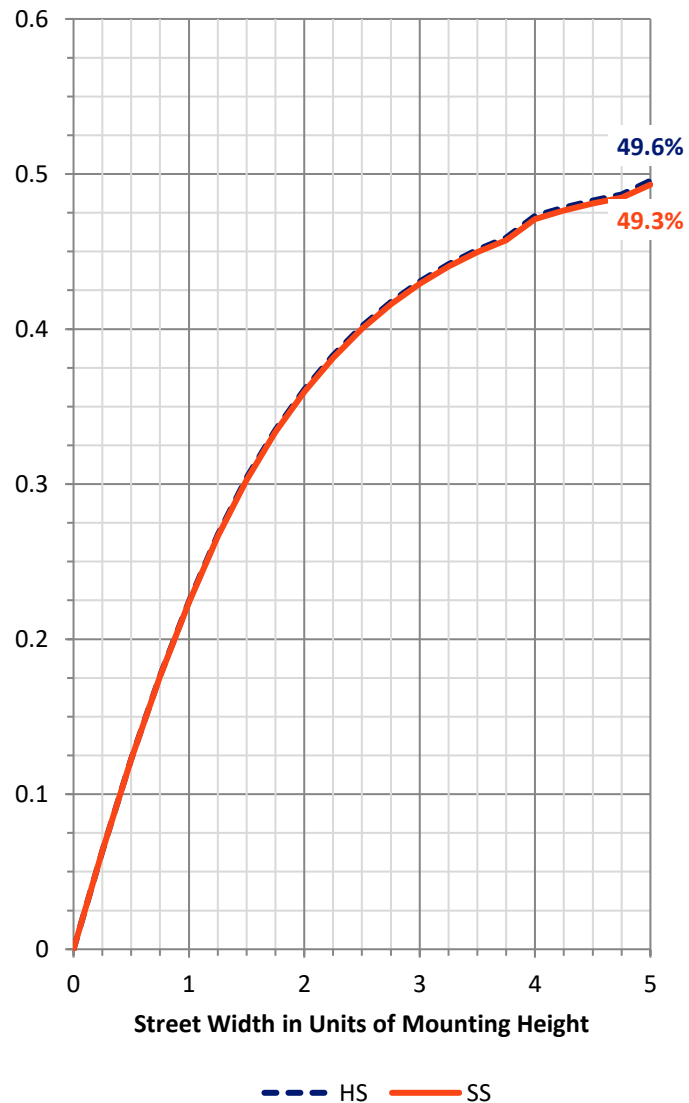
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4766.8	2.3	4769.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4766.8	2.3	4769.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	9533.6	4.6	9538.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	0.9
10°-20°	258.7	2.7
20°-30°	432.6	4.5
30°-40°	657.5	6.9
40°-50°	1041.4	10.9
50°-60°	1593.0	16.7
60°-70°	2279.9	23.9
70°-80°	2608.7	27.3
80°-90°	574.1	6.0
90°-100°	0.5	0.0
100°-110°	1.0	0.0
110°-120°	0.7	0.0
120°-130°	0.7	0.0
130°-140°	0.7	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	9533.6	100.0
0°-180°	9538.2	100.0

Coefficient of Utilization



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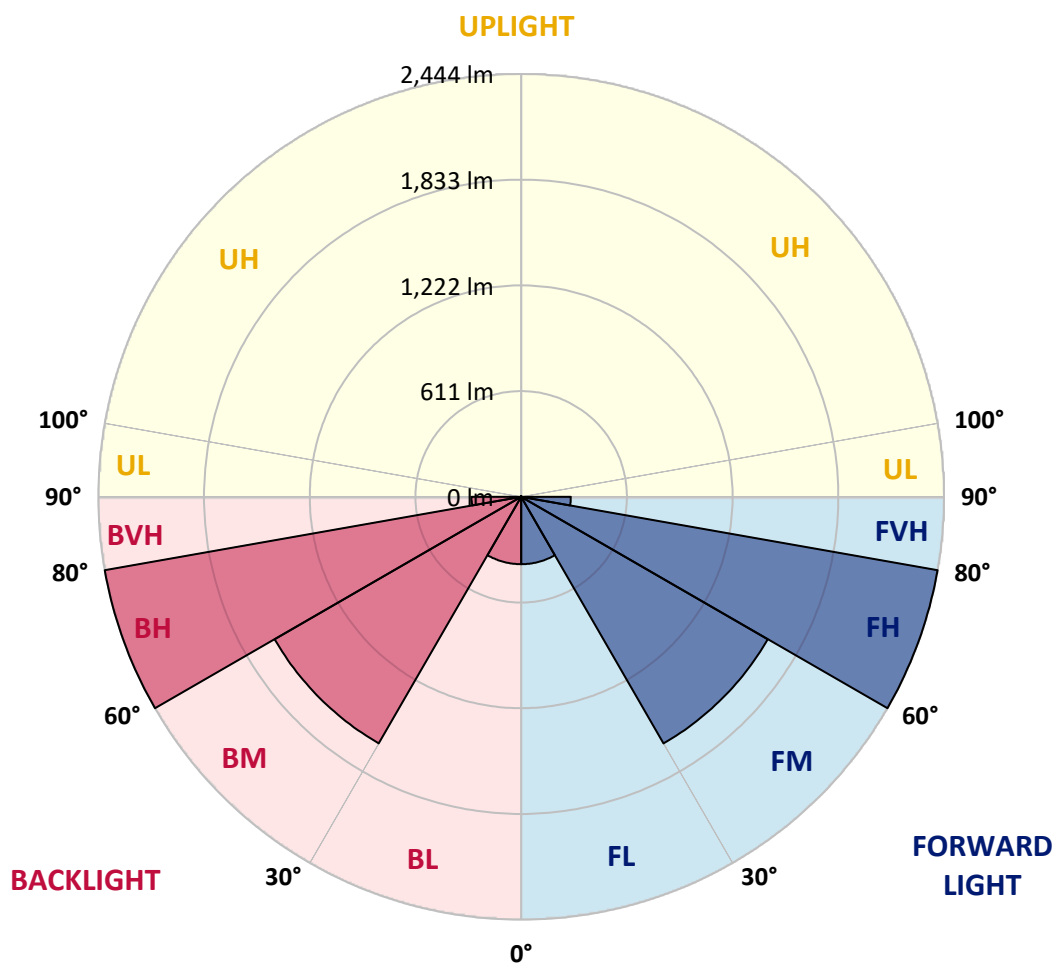
CATALOG NUMBER: VST-F04-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	389.5	4.1			
FM	(30°-60°)	1646.0	17.3			
FH	(60°-80°)	2444.3	25.6			G2/5000
FVH	(80°-90°)	287.1	3.0			G3/500
BL	(0°-30°)	389.5	4.1	B1/500		
BM	(30°-60°)	1646.0	17.3	B2/2500		
BH	(60°-80°)	2444.3	25.6	B3/2500		G2/5000
BVH	(80°-90°)	287.1	3.0			G3/500
UL	(90°-100°)	0.5	0.0		U1/10	
UH	(100°-180°)	2.3	0.0		U1/10	

BUG Rating: B3-U1-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1
2.5°	918.7	917.5	918.1	919.3	918.7	918.7	918.1	918.1	919.3	918.1	918.7
5°	919.3	918.1	918.7	919.3	918.7	919.3	918.7	918.7	918.7	918.1	919.3
7.5°	916.9	916.9	917.5	917.5	916.9	917.5	917.5	917.5	916.9	916.9	918.1
10°	915.6	915.0	915.0	915.6	915.0	915.0	915.6	915.6	914.4	914.4	915.6
12.5°	913.8	913.2	913.2	913.2	912.6	912.6	913.2	913.2	912.6	912.0	913.8
15°	912.6	912.0	912.0	912.0	910.8	911.4	911.4	911.4	910.8	910.2	912.0
17.5°	912.0	911.4	911.4	911.4	910.8	910.8	910.8	910.8	910.2	910.2	911.4
20°	913.2	913.2	913.2	913.2	912.6	912.6	912.6	913.2	913.2	913.2	914.4
22.5°	916.3	916.3	916.9	917.5	917.5	918.7	919.3	919.9	919.9	920.5	921.7
25°	924.1	924.1	924.7	925.3	927.1	928.3	930.7	931.9	932.5	932.5	933.1
27.5°	938.6	939.2	940.4	941.6	944.0	945.8	948.2	950.6	951.2	951.8	952.4
30°	956.7	957.3	959.7	960.9	963.9	967.5	970.5	973.0	974.8	976.0	975.4
32.5°	982.6	983.8	986.8	988.6	992.9	996.5	1000.7	1004.3	1006.1	1007.9	1007.3
35°	1018.8	1021.8	1024.8	1026.6	1030.9	1033.9	1039.3	1042.9	1046.5	1045.3	1045.9
37.5°	1072.5	1074.9	1075.5	1076.7	1080.9	1083.3	1089.4	1094.2	1096.0	1097.2	1097.8
40°	1144.9	1144.9	1147.9	1145.5	1150.9	1151.5	1158.7	1165.4	1167.2	1172.0	1168.4
42.5°	1229.3	1228.7	1230.5	1228.7	1228.7	1234.7	1240.8	1252.8	1254.0	1260.1	1256.5
45°	1321.0	1321.0	1319.2	1319.8	1321.0	1327.6	1334.9	1348.1	1354.2	1357.8	1355.4
47.5°	1420.5	1418.1	1417.5	1416.9	1420.5	1427.8	1438.6	1451.3	1466.4	1467.6	1466.4
50°	1521.3	1520.7	1516.4	1520.1	1522.5	1526.1	1546.6	1563.5	1579.2	1588.8	1585.8
52.5°	1627.4	1622.0	1622.0	1622.0	1628.0	1639.5	1657.6	1680.5	1701.6	1711.9	1710.1
55°	1734.8	1733.0	1727.5	1725.1	1733.0	1749.3	1775.2	1802.9	1830.7	1846.4	1840.3
57.5°	1833.1	1830.1	1830.7	1831.3	1840.3	1862.1	1892.2	1929.0	1959.2	1976.1	1971.8
60°	1910.3	1906.7	1913.3	1915.1	1931.4	1967.6	2015.9	2062.3	2102.1	2119.0	2112.4
62.5°	1997.8	1995.4	1999.6	1999.0	2016.5	2056.9	2121.4	2195.6	2255.9	2277.7	2268.0
65°	2138.9	2131.7	2129.9	2123.2	2134.7	2166.1	2230.6	2316.9	2413.4	2468.9	2455.6
67.5°	2307.8	2306.0	2300.0	2296.4	2300.6	2339.8	2401.9	2485.2	2583.5	2660.1	2677.0
70°	2419.4	2421.8	2427.9	2436.9	2471.9	2547.9	2661.3	2787.4	2922.5	2979.8	2969.5
72.5°	2398.3	2401.9	2406.7	2418.2	2464.1	2555.1	2704.7	2892.9	3062.4	3138.4	3073.3
75°	2295.2	2298.2	2309.0	2326.5	2382.6	2493.0	2654.1	2853.7	3028.6	3104.6	3036.5
76°	2199.9	2209.5	2229.4	2249.9	2317.5	2437.5	2609.4	2822.3	3007.5	3084.7	3019.0
77.5°	1983.9	1992.4	2008.6	2044.2	2120.8	2274.6	2475.5	2684.8	2877.8	2947.2	2891.7
80°	1492.9	1500.1	1515.2	1558.1	1624.4	1719.7	1875.3	2079.8	2291.5	2382.6	2346.4
82.5°	630.3	638.8	698.5	760.6	833.6	936.8	1038.1	1219.1	1374.7	1478.4	1422.9
85°	69.4	85.7	105.6	143.6	176.1	234.6	291.9	401.7	507.9	572.4	506.1
87.5°	12.1	13.9	19.9	25.3	28.4	32.6	39.2	54.9	74.8	64.5	65.7
90°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
97.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
100°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
102.5°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
105°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
107.5°	0.6	0.6	0.6	0.6	1.2	1.2	0.6	0.6	0.6	1.2	0.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
112.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
115°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
117.5°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
120°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
122.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6
125°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6
127.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6
130°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
132.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6
135°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
137.5°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
140°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
142.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6
145°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.0	0.6
147.5°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
150°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.0	0.0	0.0
152.5°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.0	0.0
155°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.0	0.6
157.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.0	0.0	0.0
160°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.0	0.0	0.0
162.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.0	0.0	0.0
165°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	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°	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1
2.5°	918.1	918.1	919.3	918.7	918.7	919.3	920.5	919.9
5°	918.7	919.3	918.1	918.7	919.3	919.3	919.9	919.3
7.5°	917.5	917.5	917.5	918.1	918.7	918.1	918.7	918.7
10°	915.0	915.6	915.0	916.3	916.9	916.9	917.5	917.5
12.5°	913.2	913.2	913.2	914.4	915.0	915.0	915.6	915.0
15°	911.4	911.4	910.8	912.0	913.2	913.2	913.8	913.8
17.5°	910.8	910.8	910.2	911.4	912.6	912.6	913.2	913.2
20°	912.6	913.2	912.0	913.2	914.4	915.0	915.0	915.0
22.5°	919.9	919.3	917.5	918.1	918.7	918.7	918.7	918.7
25°	930.7	929.5	927.7	927.1	926.5	925.9	925.9	925.9
27.5°	949.4	947.6	944.6	944.0	943.4	942.2	942.2	942.2
30°	971.7	969.3	965.7	964.5	962.7	961.5	960.9	960.3
32.5°	1003.7	998.9	994.7	991.7	989.8	986.2	985.6	984.4
35°	1040.5	1036.9	1030.9	1029.1	1026.0	1024.2	1023.6	1020.6
37.5°	1091.2	1087.0	1081.5	1080.3	1079.7	1077.9	1077.9	1077.3
40°	1161.8	1157.5	1152.7	1147.9	1149.1	1149.7	1149.7	1147.3
42.5°	1248.0	1241.4	1231.7	1234.7	1232.9	1230.5	1235.3	1232.3
45°	1346.3	1337.3	1330.0	1327.0	1327.0	1324.0	1328.8	1328.8
47.5°	1455.5	1441.0	1427.8	1428.4	1423.5	1424.7	1427.8	1432.0
50°	1570.7	1551.4	1538.7	1532.7	1527.9	1529.7	1535.1	1536.3
52.5°	1690.2	1666.6	1649.7	1640.7	1634.7	1637.1	1641.3	1644.9
55°	1814.4	1788.5	1763.1	1753.5	1746.2	1751.1	1751.7	1756.5
57.5°	1944.1	1908.5	1879.0	1864.5	1857.2	1862.1	1865.7	1870.5
60°	2075.0	2034.0	1999.0	1982.1	1971.8	1978.5	1986.9	1989.3
62.5°	2227.0	2170.3	2131.1	2107.0	2102.1	2108.8	2111.2	2118.4
65°	2406.7	2338.6	2284.3	2254.7	2253.5	2257.2	2262.6	2264.4
67.5°	2611.8	2535.8	2462.8	2433.3	2421.8	2432.7	2438.1	2445.4
70°	2901.4	2797.0	2691.5	2625.7	2598.0	2589.5	2591.9	2599.8
72.5°	2933.9	2821.7	2698.7	2609.4	2560.6	2538.2	2537.6	2538.8
75°	2862.8	2683.6	2596.8	2494.2	2424.8	2388.7	2383.8	2383.2
76°	2827.2	2615.5	2490.0	2408.6	2325.3	2288.5	2283.1	2280.1
77.5°	2677.0	2449.6	2260.8	2211.3	2131.7	2085.2	2094.9	2087.1
80°	2146.2	1920.6	1742.6	1603.3	1607.5	1573.7	1559.9	1555.6
82.5°	1264.9	1079.7	883.1	767.9	658.1	629.1	541.7	521.8
85°	404.1	286.5	173.7	126.1	85.7	71.8	56.1	51.3
87.5°	53.7	42.2	34.4	33.2	30.2	25.9	16.9	12.1
90°	0.6	0.6	0.6	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°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
97.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
100°	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6
102.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
105°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
107.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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CATALOG NUMBER: VST-F04-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
112.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
115°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
117.5°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
120°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
122.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
125°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
127.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
130°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
132.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
135°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
137.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
140°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
142.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
145°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
147.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
150°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
152.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
155°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
157.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
160°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
162.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
165°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
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)