

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: P157814

Luminaire Tested: **VST-F07-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157814
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (49) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16692.1 lumens
Efficiency: N/A
Efficacy: 92.5 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

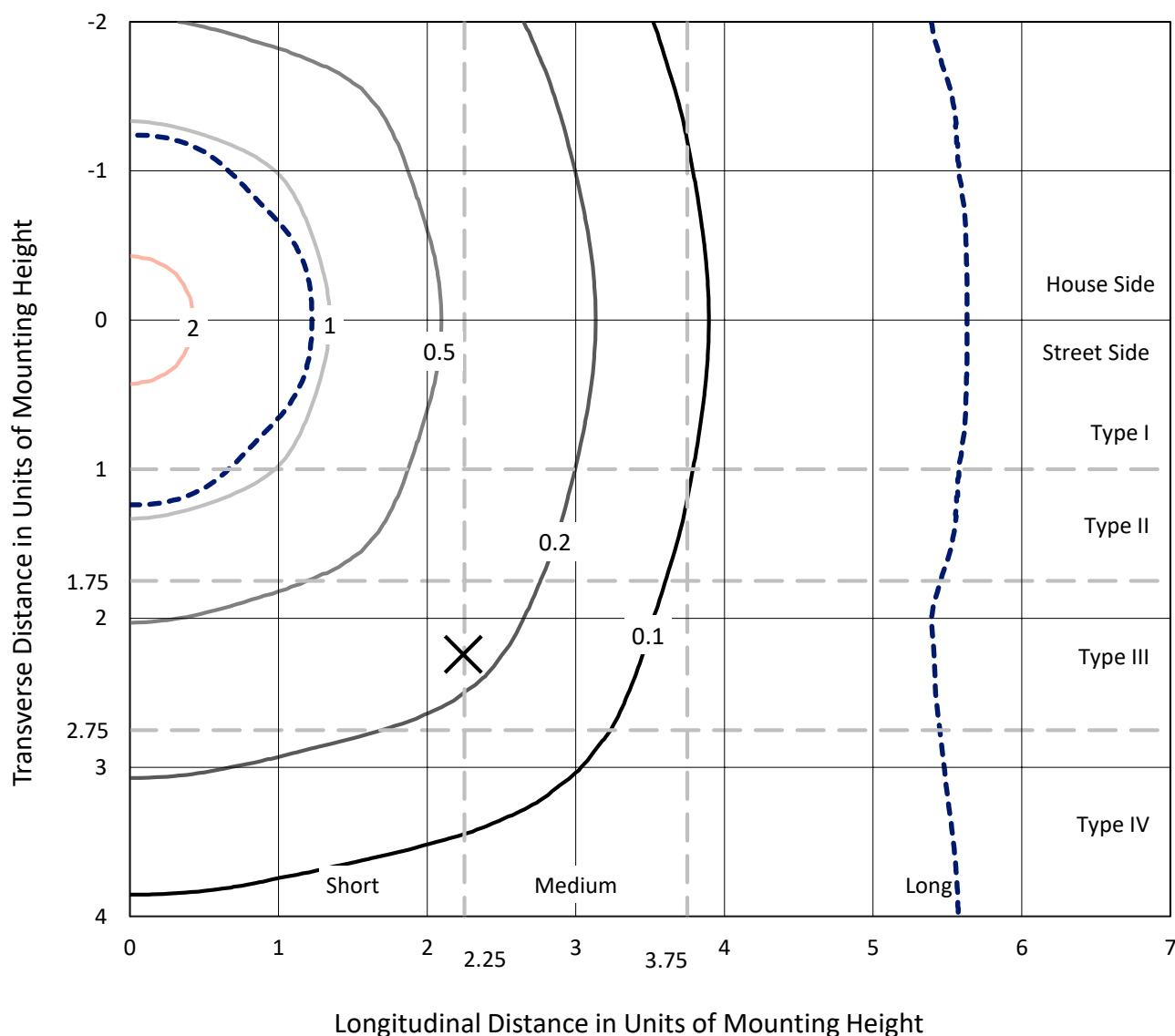


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

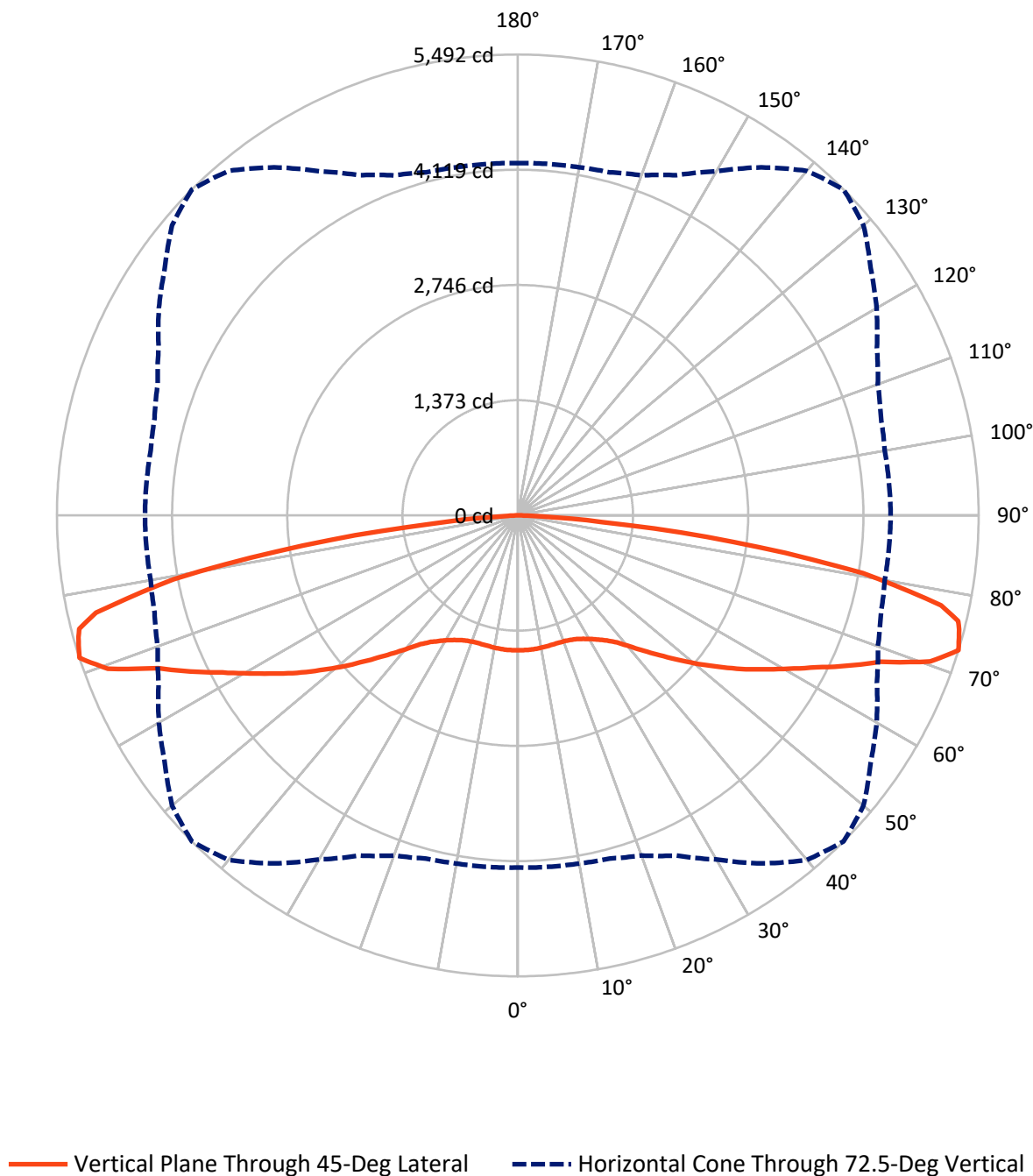


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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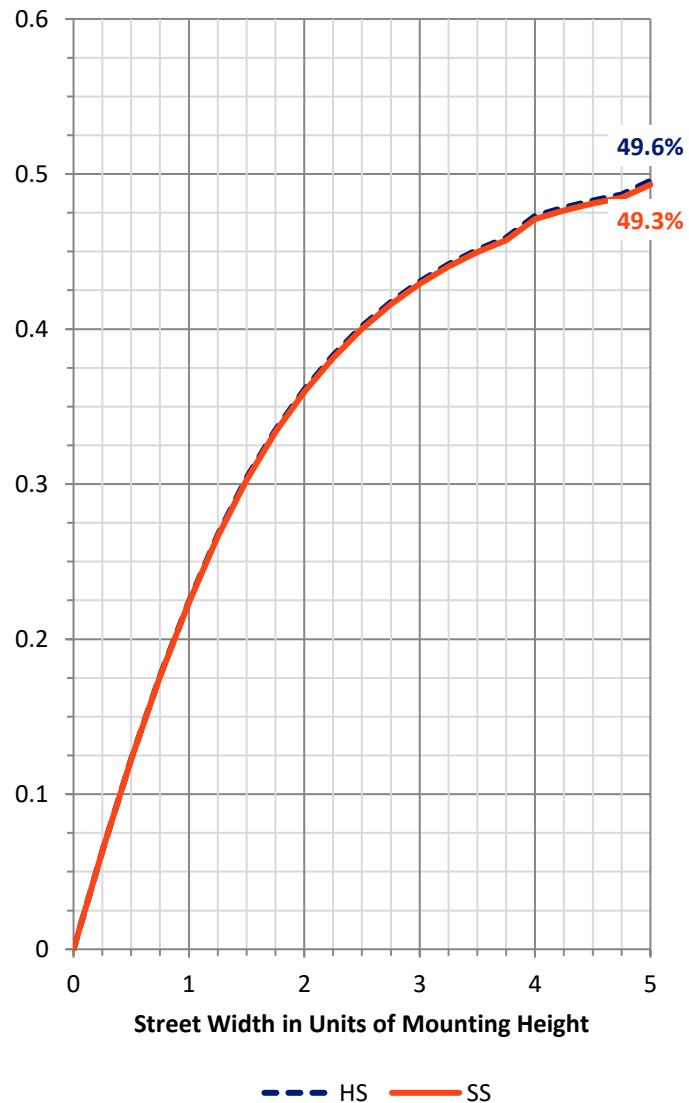
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8341.9	4.1	8346.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8341.9	4.1	8346.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16683.8	8.3	16692.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	0.9
10°-20°	452.7	2.7
20°-30°	757.1	4.5
30°-40°	1150.7	6.9
40°-50°	1822.5	10.9
50°-60°	2787.8	16.7
60°-70°	3989.8	23.9
70°-80°	4565.2	27.3
80°-90°	1004.8	6.0
90°-100°	0.9	0.0
100°-110°	1.7	0.0
110°-120°	1.2	0.0
120°-130°	1.3	0.0
130°-140°	1.2	0.0
140°-150°	1.0	0.0
150°-160°	0.6	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-90°	16683.8	100.0
0°-180°	16692.1	100.0

Coefficient of Utilization



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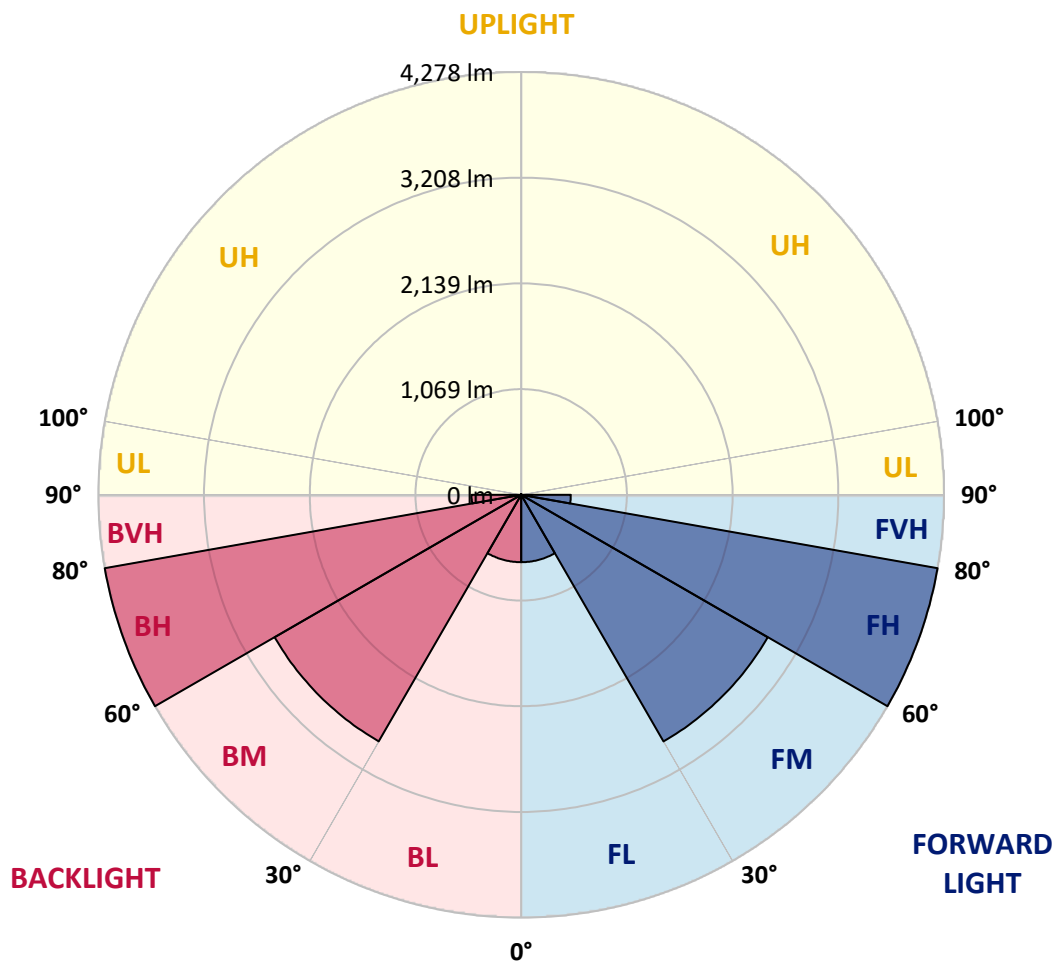
CATALOG NUMBER: VST-F07-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	681.5	4.1			
FM	(30°-60°)	2880.5	17.3			
FH	(60°-80°)	4277.5	25.6			G2/5000
FVH	(80°-90°)	502.4	3.0			G4/750
BL	(0°-30°)	681.5	4.1	B2/1000		
BM	(30°-60°)	2880.5	17.3	B3/5000		
BH	(60°-80°)	4277.5	25.6	B4/5000		G2/5000
BVH	(80°-90°)	502.4	3.0			G4/750
UL	(90°-100°)	0.9	0.0		U1/10	
UH	(100°-180°)	4.1	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°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1607.7	1605.6	1606.6	1608.7	1607.7	1607.7	1606.6	1606.6	1608.7	1606.6	1607.7
5°	1608.7	1606.6	1607.7	1608.7	1607.7	1608.7	1607.7	1607.7	1607.7	1606.6	1608.7
7.5°	1604.5	1604.5	1605.6	1605.6	1604.5	1605.6	1605.6	1605.6	1604.5	1604.5	1606.6
10°	1602.4	1601.3	1601.3	1602.4	1601.3	1601.3	1602.4	1602.4	1600.3	1600.3	1602.4
12.5°	1599.2	1598.2	1598.2	1598.2	1597.1	1597.1	1598.2	1598.2	1597.1	1596.1	1599.2
15°	1597.1	1596.1	1596.1	1596.1	1593.9	1595.0	1595.0	1595.0	1593.9	1592.9	1596.1
17.5°	1596.1	1595.0	1595.0	1595.0	1593.9	1593.9	1593.9	1593.9	1592.9	1592.9	1595.0
20°	1598.2	1598.2	1598.2	1598.2	1597.1	1597.1	1597.1	1598.2	1598.2	1598.2	1600.3
22.5°	1603.4	1603.4	1604.5	1605.6	1605.6	1607.7	1608.7	1609.8	1609.8	1610.8	1612.9
25°	1617.2	1617.2	1618.2	1619.3	1622.4	1624.6	1628.8	1630.9	1631.9	1631.9	1633.0
27.5°	1642.5	1643.6	1645.7	1647.8	1652.0	1655.2	1659.4	1663.6	1664.7	1665.7	1666.8
30°	1674.2	1675.2	1679.4	1681.6	1686.8	1693.2	1698.4	1702.7	1705.8	1707.9	1706.9
32.5°	1719.6	1721.7	1726.9	1730.1	1737.5	1743.8	1751.2	1757.6	1760.7	1763.9	1762.8
35°	1782.9	1788.2	1793.4	1796.6	1804.0	1809.3	1818.8	1825.1	1831.5	1829.3	1830.4
37.5°	1876.8	1881.1	1882.1	1884.2	1891.6	1895.8	1906.4	1914.8	1918.0	1920.1	1921.2
40°	2003.5	2003.5	2008.8	2004.6	2014.1	2015.1	2027.8	2039.4	2042.6	2051.0	2044.7
42.5°	2151.3	2150.2	2153.4	2150.2	2150.2	2160.8	2171.4	2192.5	2194.6	2205.1	2198.8
45°	2311.7	2311.7	2308.6	2309.6	2311.7	2323.4	2336.0	2359.2	2369.8	2376.1	2371.9
47.5°	2485.9	2481.7	2480.6	2479.6	2485.9	2498.6	2517.6	2539.8	2566.1	2568.3	2566.1
50°	2662.2	2661.1	2653.8	2660.1	2664.3	2670.6	2706.5	2736.1	2763.5	2780.4	2775.1
52.5°	2848.0	2838.5	2838.5	2838.5	2849.0	2869.1	2900.8	2940.9	2977.8	2995.8	2992.6
55°	3035.9	3032.7	3023.2	3019.0	3032.7	3061.2	3106.6	3155.2	3203.7	3231.2	3220.6
57.5°	3207.9	3202.7	3203.7	3204.8	3220.6	3258.6	3311.4	3375.8	3428.6	3458.1	3450.7
60°	3343.1	3336.7	3348.3	3351.5	3380.0	3443.3	3527.8	3609.1	3678.7	3708.3	3696.7
62.5°	3496.1	3491.9	3499.3	3498.2	3528.8	3599.6	3712.5	3842.4	3947.9	3985.9	3969.0
65°	3743.1	3730.5	3727.3	3715.7	3735.7	3790.6	3903.6	4054.5	4223.4	4320.5	4297.3
67.5°	4038.7	4035.5	4025.0	4018.6	4026.0	4094.6	4203.4	4349.0	4521.1	4655.2	4684.7
70°	4234.0	4238.2	4248.8	4264.6	4325.8	4458.8	4657.3	4877.9	5114.3	5214.6	5196.7
72.5°	4197.0	4203.4	4211.8	4231.9	4312.1	4471.5	4733.3	5062.6	5359.2	5492.2	5378.2
75°	4016.5	4021.8	4040.8	4071.4	4169.6	4362.8	4644.6	4994.0	5300.1	5433.1	5313.8
76°	3849.7	3866.6	3901.5	3937.4	4055.6	4265.6	4566.5	4939.1	5263.2	5398.3	5283.2
77.5°	3471.8	3486.6	3515.1	3577.4	3711.5	3980.6	4332.1	4698.4	5036.2	5157.6	5060.5
80°	2612.6	2625.3	2651.6	2726.6	2842.7	3009.5	3281.8	3639.7	4010.2	4169.6	4106.2
82.5°	1103.1	1117.9	1222.4	1331.1	1458.8	1639.3	1816.7	2133.3	2405.7	2587.3	2490.1
85°	121.4	149.9	184.7	251.2	308.2	410.6	510.9	703.0	888.8	1001.8	885.6
87.5°	21.1	24.3	34.8	44.3	49.6	57.0	68.6	96.1	130.9	112.9	115.1
90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.1	2.1	2.1	2.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
97.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
100°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
102.5°	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1
105°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
107.5°	1.1	1.1	1.1	1.1	2.1	2.1	1.1	1.1	1.1	2.1	1.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
112.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
115°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
117.5°	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
120°	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
122.5°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
125°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
127.5°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
130°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1
132.5°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
135°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1
137.5°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1
140°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1
142.5°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
145°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	0.0	1.1
147.5°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1
150°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	0.0	0.0	0.0
152.5°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	0.0	0.0
155°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	0.0	1.1
157.5°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
160°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
162.5°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
165°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	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°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1606.6	1606.6	1608.7	1607.7	1607.7	1608.7	1610.8	1609.8
5°	1607.7	1608.7	1606.6	1607.7	1608.7	1608.7	1609.8	1608.7
7.5°	1605.6	1605.6	1605.6	1606.6	1607.7	1606.6	1607.7	1607.7
10°	1601.3	1602.4	1601.3	1603.4	1604.5	1604.5	1605.6	1605.6
12.5°	1598.2	1598.2	1598.2	1600.3	1601.3	1601.3	1602.4	1601.3
15°	1595.0	1595.0	1593.9	1596.1	1598.2	1598.2	1599.2	1599.2
17.5°	1593.9	1593.9	1592.9	1595.0	1597.1	1597.1	1598.2	1598.2
20°	1597.1	1598.2	1596.1	1598.2	1600.3	1601.3	1601.3	1601.3
22.5°	1609.8	1608.7	1605.6	1606.6	1607.7	1607.7	1607.7	1607.7
25°	1628.8	1626.7	1623.5	1622.4	1621.4	1620.3	1620.3	1620.3
27.5°	1661.5	1658.3	1653.1	1652.0	1650.9	1648.8	1648.8	1648.8
30°	1700.6	1696.3	1690.0	1687.9	1684.7	1682.6	1681.6	1680.5
32.5°	1756.5	1748.1	1740.7	1735.4	1732.2	1725.9	1724.8	1722.7
35°	1820.9	1814.6	1804.0	1800.8	1795.6	1792.4	1791.3	1786.1
37.5°	1909.6	1902.2	1892.7	1890.6	1889.5	1886.3	1886.3	1885.3
40°	2033.1	2025.7	2017.2	2008.8	2010.9	2012.0	2012.0	2007.7
42.5°	2184.0	2172.4	2155.5	2160.8	2157.6	2153.4	2161.9	2156.6
45°	2356.1	2340.2	2327.6	2322.3	2322.3	2317.0	2325.5	2325.5
47.5°	2547.1	2521.8	2498.6	2499.6	2491.2	2493.3	2498.6	2506.0
50°	2748.8	2715.0	2692.8	2682.3	2673.8	2677.0	2686.5	2688.6
52.5°	2957.8	2916.6	2887.0	2871.2	2860.7	2864.9	2872.3	2878.6
55°	3175.2	3129.8	3085.5	3068.6	3055.9	3064.4	3065.4	3073.9
57.5°	3402.2	3339.9	3288.2	3262.8	3250.2	3258.6	3264.9	3273.4
60°	3631.2	3559.5	3498.2	3468.7	3450.7	3462.3	3477.1	3481.3
62.5°	3897.2	3798.0	3729.4	3687.2	3678.7	3690.3	3694.6	3707.2
65°	4211.8	4092.5	3997.5	3945.8	3943.7	3950.0	3959.5	3962.7
67.5°	4570.7	4437.7	4310.0	4258.3	4238.2	4257.2	4266.7	4279.4
70°	5077.4	4894.8	4710.0	4595.0	4546.4	4531.7	4535.9	4549.6
72.5°	5134.4	4938.1	4722.7	4566.5	4481.0	4441.9	4440.9	4443.0
75°	5009.8	4696.3	4544.3	4364.9	4243.5	4180.1	4171.7	4170.6
76°	4947.6	4577.0	4357.5	4215.0	4069.3	4004.9	3995.4	3990.1
77.5°	4684.7	4286.8	3956.4	3869.8	3730.5	3649.2	3666.1	3652.3
80°	3755.8	3361.0	3049.6	2805.8	2813.1	2754.0	2729.8	2722.4
82.5°	2213.6	1889.5	1545.4	1343.8	1151.6	1101.0	947.9	913.1
85°	707.2	501.4	304.0	220.6	149.9	125.6	98.2	89.7
87.5°	93.9	73.9	60.2	58.1	52.8	45.4	29.6	21.1
90°	1.1	1.1	1.1	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°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
97.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
100°	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
102.5°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1
105°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
107.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1



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CATALOG NUMBER: VST-F07-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
112.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1
115°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1
117.5°	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
120°	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
122.5°	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
125°	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
127.5°	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
130°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
132.5°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
135°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
137.5°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
140°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
142.5°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
145°	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
147.5°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
150°	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
152.5°	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
155°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
157.5°	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
160°	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
162.5°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
165°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
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)