

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: P157806

Luminaire Tested: **VST-F06-LED-E-U-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157806
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-F06-LED-E-U-5XQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16073.5 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G3

Input Watts (W): 156.5
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

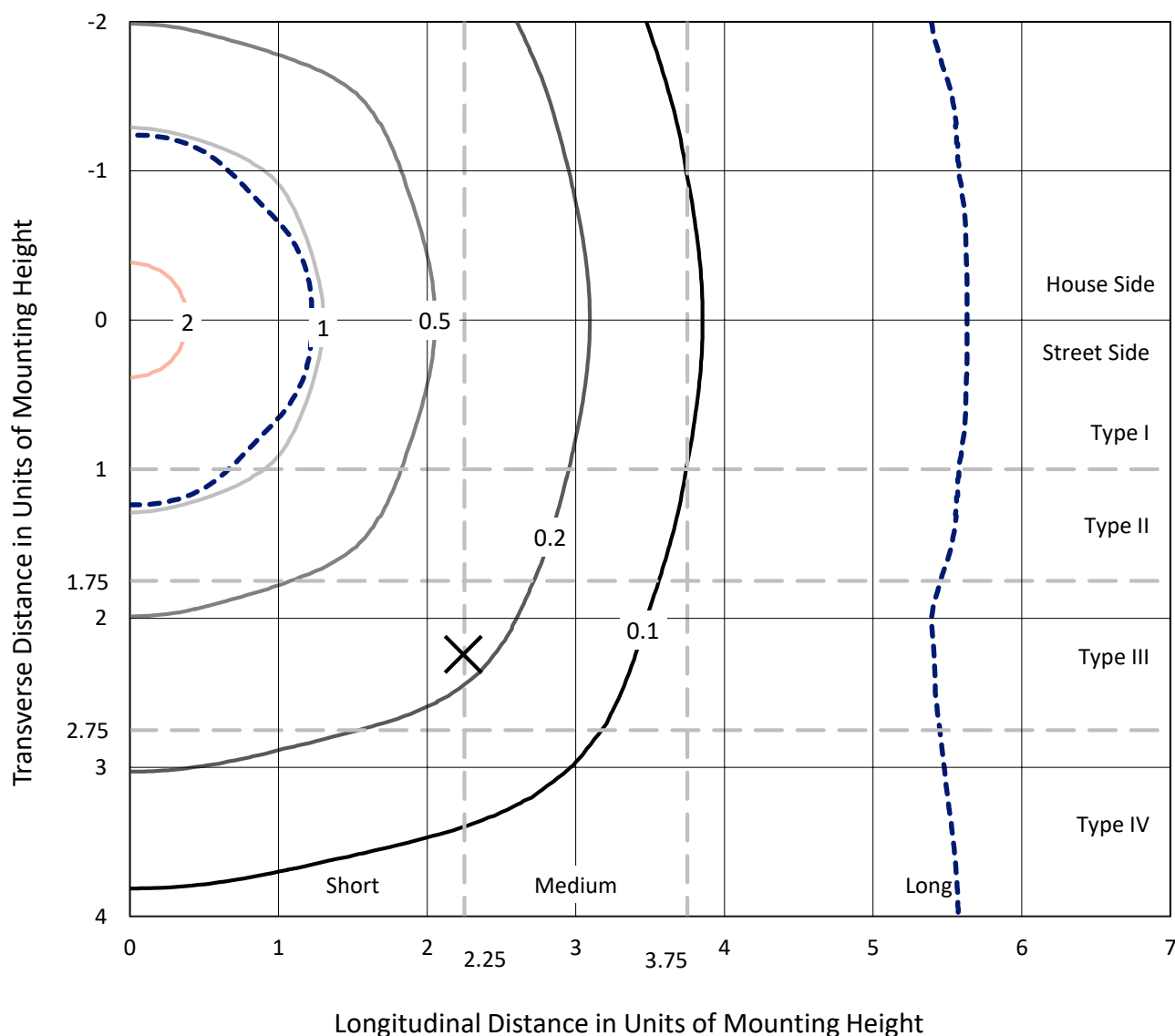


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

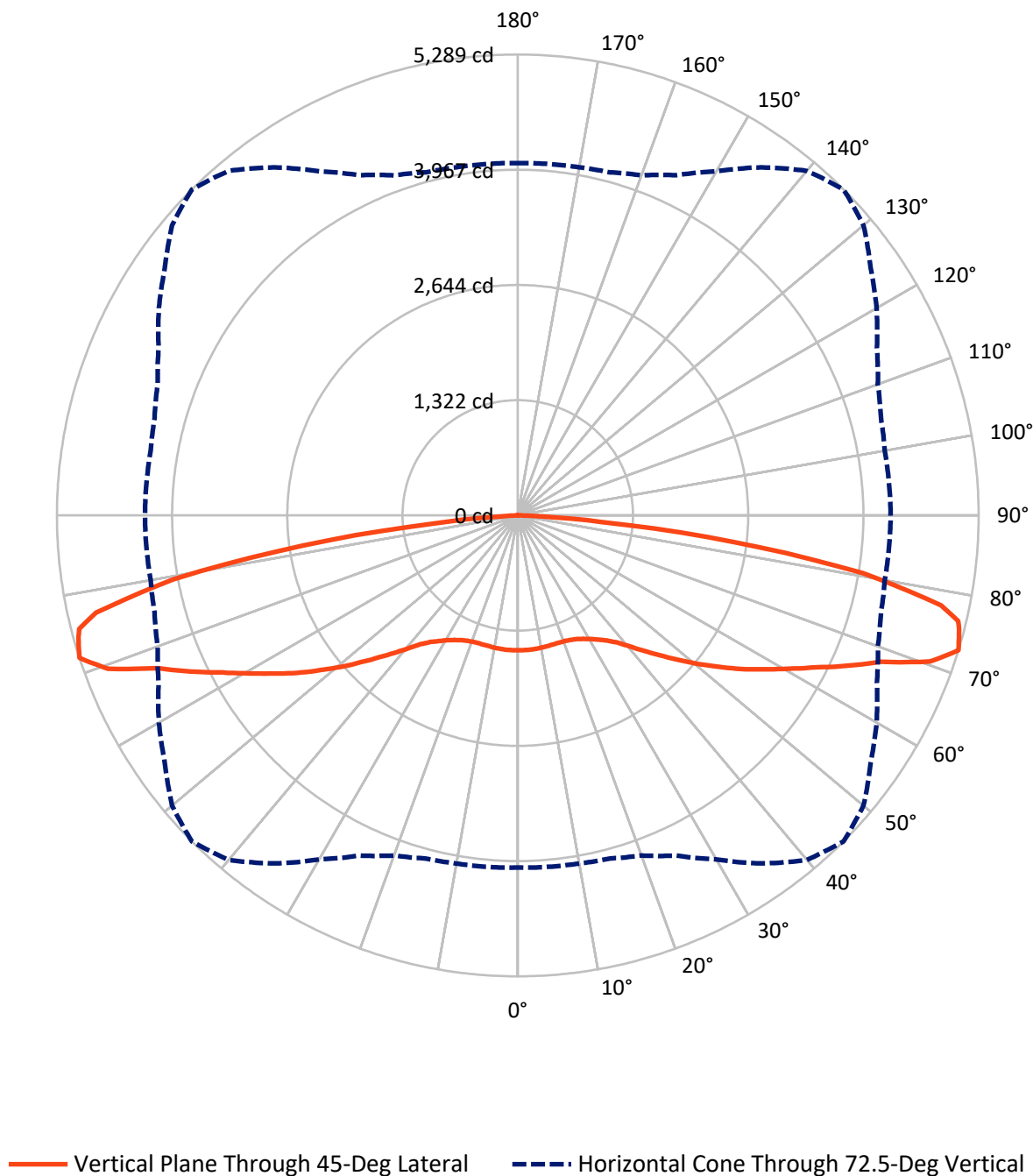


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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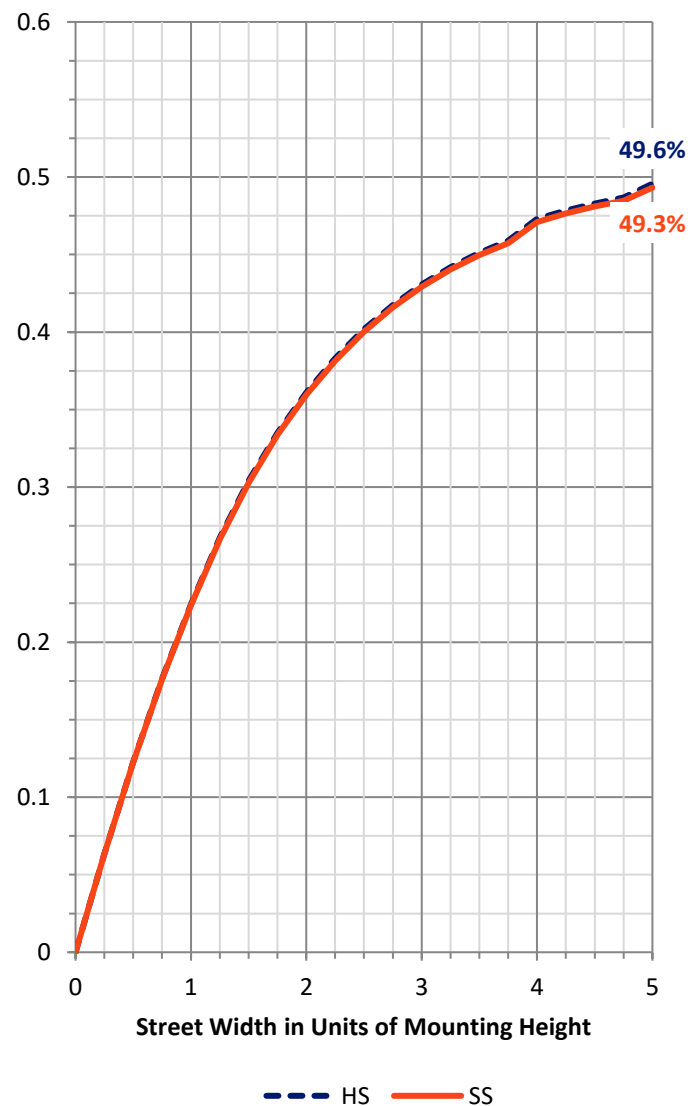
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8032.9	3.9	8036.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8032.9	3.9	8036.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	16065.8	7.7	16073.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	0.9
10°-20°	436.0	2.7
20°-30°	729.0	4.5
30°-40°	1108.1	6.9
40°-50°	1755.0	10.9
50°-60°	2684.5	16.7
60°-70°	3842.0	23.9
70°-80°	4396.1	27.3
80°-90°	967.5	6.0
90°-100°	0.8	0.0
100°-110°	1.6	0.0
110°-120°	1.1	0.0
120°-130°	1.2	0.0
130°-140°	1.2	0.0
140°-150°	0.9	0.0
150°-160°	0.6	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	16065.8	100.0
0°-180°	16073.5	100.0

Coefficient of Utilization



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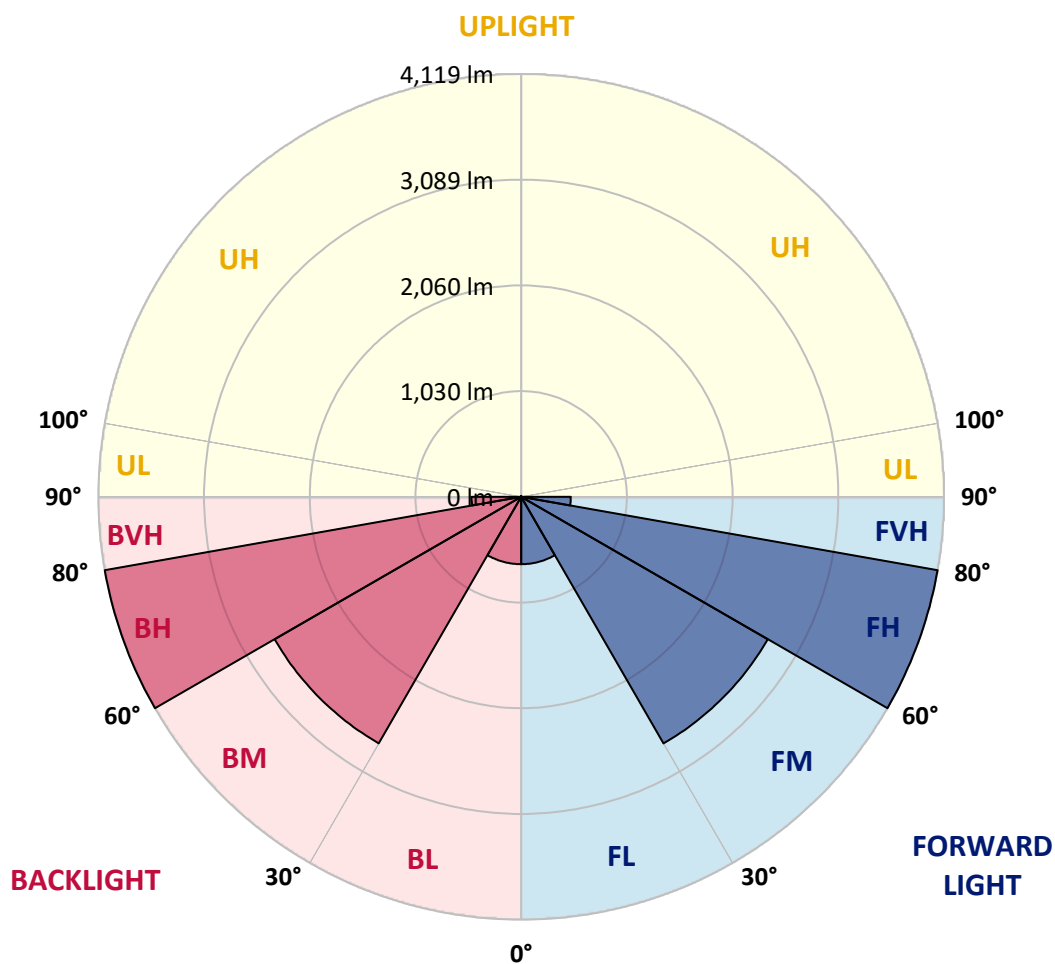
CATALOG NUMBER: VST-F06-LED-E-U-5XQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	656.3	4.1			
FM	(30°-60°)	2773.8	17.3			
FH	(60°-80°)	4119.1	25.6			G2/5000
FVH	(80°-90°)	483.8	3.0			G3/500
BL	(0°-30°)	656.3	4.1	B2/1000		
BM	(30°-60°)	2773.8	17.3	B3/5000		
BH	(60°-80°)	4119.1	25.6	B4/5000		G2/5000
BVH	(80°-90°)	483.8	3.0			G3/500
UL	(90°-100°)	0.8	0.0		U1/10	
UH	(100°-180°)	3.9	0.0		U1/10	

BUG Rating: B4-U1-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1
2.5°	1548.1	1546.1	1547.1	1549.1	1548.1	1548.1	1547.1	1547.1	1549.1	1547.1	1548.1
5°	1549.1	1547.1	1548.1	1549.1	1548.1	1549.1	1548.1	1548.1	1548.1	1547.1	1549.1
7.5°	1545.1	1545.1	1546.1	1546.1	1545.1	1546.1	1546.1	1546.1	1545.1	1545.1	1547.1
10°	1543.0	1542.0	1542.0	1543.0	1542.0	1542.0	1543.0	1543.0	1541.0	1541.0	1543.0
12.5°	1540.0	1539.0	1539.0	1539.0	1538.0	1538.0	1539.0	1539.0	1538.0	1536.9	1540.0
15°	1538.0	1536.9	1536.9	1536.9	1534.9	1535.9	1535.9	1535.9	1534.9	1533.9	1536.9
17.5°	1536.9	1535.9	1535.9	1535.9	1534.9	1534.9	1534.9	1534.9	1533.9	1533.9	1535.9
20°	1539.0	1539.0	1539.0	1539.0	1538.0	1538.0	1538.0	1539.0	1539.0	1539.0	1541.0
22.5°	1544.0	1544.0	1545.1	1546.1	1546.1	1548.1	1549.1	1550.1	1550.1	1551.2	1553.2
25°	1557.3	1557.3	1558.3	1559.3	1562.3	1564.4	1568.4	1570.5	1571.5	1571.5	1572.5
27.5°	1581.7	1582.7	1584.7	1586.7	1590.8	1593.9	1597.9	1602.0	1603.0	1604.0	1605.0
30°	1612.2	1613.2	1617.2	1619.3	1624.4	1630.5	1635.5	1639.6	1642.6	1644.7	1643.7
32.5°	1655.9	1657.9	1663.0	1666.0	1673.1	1679.2	1686.4	1692.5	1695.5	1698.6	1697.5
35°	1716.9	1721.9	1727.0	1730.1	1737.2	1742.3	1751.4	1757.5	1763.6	1761.6	1762.6
37.5°	1807.3	1811.4	1812.4	1814.4	1821.6	1825.6	1835.8	1843.9	1847.0	1849.0	1850.0
40°	1929.3	1929.3	1934.4	1930.3	1939.5	1940.5	1952.7	1963.9	1966.9	1975.0	1968.9
42.5°	2071.6	2070.6	2073.6	2070.6	2070.6	2080.8	2090.9	2111.3	2113.3	2123.4	2117.4
45°	2226.1	2226.1	2223.1	2224.1	2226.1	2237.3	2249.5	2271.9	2282.0	2288.1	2284.1
47.5°	2393.8	2389.8	2388.8	2387.7	2393.8	2406.0	2424.3	2445.7	2471.1	2473.1	2471.1
50°	2563.6	2562.6	2555.5	2561.6	2565.6	2571.7	2606.3	2634.7	2661.2	2677.4	2672.4
52.5°	2742.5	2733.3	2733.3	2733.3	2743.5	2762.8	2793.3	2831.9	2867.5	2884.8	2881.8
55°	2923.4	2920.4	2911.2	2907.2	2920.4	2947.8	2991.5	3038.3	3085.0	3111.5	3101.3
57.5°	3089.1	3084.0	3085.0	3086.1	3101.3	3137.9	3188.7	3250.7	3301.6	3330.0	3322.9
60°	3219.2	3213.1	3224.3	3227.4	3254.8	3315.8	3397.1	3475.4	3542.5	3570.9	3559.8
62.5°	3366.6	3362.6	3369.7	3368.7	3398.1	3466.2	3575.0	3700.0	3801.7	3838.3	3822.0
65°	3604.5	3592.3	3589.2	3578.0	3597.4	3650.2	3759.0	3904.3	4067.0	4160.5	4138.1
67.5°	3889.1	3886.0	3875.9	3869.8	3876.9	3943.0	4047.7	4187.9	4353.6	4482.7	4511.2
70°	4077.1	4081.2	4091.4	4106.6	4165.6	4293.7	4484.8	4697.2	4924.9	5021.5	5004.2
72.5°	4041.6	4047.7	4055.8	4075.1	4152.4	4305.9	4557.9	4875.1	5160.7	5288.8	5179.0
75°	3867.7	3872.8	3891.1	3920.6	4015.1	4201.2	4472.6	4809.0	5103.8	5231.9	5117.0
76°	3707.1	3723.4	3756.9	3791.5	3905.4	4107.6	4397.3	4756.2	5068.2	5198.3	5087.5
77.5°	3343.2	3357.5	3384.9	3444.9	3574.0	3833.2	4171.7	4524.4	4849.7	4966.6	4873.1
80°	2515.8	2528.0	2553.4	2625.6	2737.4	2898.0	3160.3	3504.9	3861.6	4015.1	3954.1
82.5°	1062.2	1076.5	1177.1	1281.8	1404.8	1578.6	1749.4	2054.3	2316.6	2491.4	2397.9
85°	116.9	144.3	177.9	241.9	296.8	395.4	492.0	677.0	855.9	964.6	852.8
87.5°	20.3	23.4	33.5	42.7	47.8	54.9	66.1	92.5	126.0	108.8	110.8
90°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
97.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
102.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
105°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
107.5°	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0	2.0	1.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
112.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
115°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
117.5°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
120°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
122.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
125°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
127.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
130°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
132.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
135°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
137.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
140°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
142.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
145°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	1.0
147.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
152.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0
155°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	1.0
157.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
160°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
162.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
165°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	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°	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1
2.5°	1547.1	1547.1	1549.1	1548.1	1548.1	1549.1	1551.2	1550.1
5°	1548.1	1549.1	1547.1	1548.1	1549.1	1549.1	1550.1	1549.1
7.5°	1546.1	1546.1	1546.1	1547.1	1548.1	1547.1	1548.1	1548.1
10°	1542.0	1543.0	1542.0	1544.0	1545.1	1545.1	1546.1	1546.1
12.5°	1539.0	1539.0	1539.0	1541.0	1542.0	1542.0	1543.0	1542.0
15°	1535.9	1535.9	1534.9	1536.9	1539.0	1539.0	1540.0	1540.0
17.5°	1534.9	1534.9	1533.9	1535.9	1538.0	1538.0	1539.0	1539.0
20°	1538.0	1539.0	1536.9	1539.0	1541.0	1542.0	1542.0	1542.0
22.5°	1550.1	1549.1	1546.1	1547.1	1548.1	1548.1	1548.1	1548.1
25°	1568.4	1566.4	1563.4	1562.3	1561.3	1560.3	1560.3	1560.3
27.5°	1600.0	1596.9	1591.8	1590.8	1589.8	1587.8	1587.8	1587.8
30°	1637.6	1633.5	1627.4	1625.4	1622.3	1620.3	1619.3	1618.3
32.5°	1691.4	1683.3	1676.2	1671.1	1668.1	1662.0	1660.9	1658.9
35°	1753.4	1747.3	1737.2	1734.1	1729.1	1726.0	1725.0	1719.9
37.5°	1838.8	1831.7	1822.6	1820.5	1819.5	1816.5	1816.5	1815.5
40°	1957.8	1950.6	1942.5	1934.4	1936.4	1937.4	1937.4	1933.4
42.5°	2103.1	2091.9	2075.7	2080.8	2077.7	2073.6	2081.8	2076.7
45°	2268.8	2253.6	2241.4	2236.3	2236.3	2231.2	2239.3	2239.3
47.5°	2452.8	2428.4	2406.0	2407.1	2398.9	2401.0	2406.0	2413.1
50°	2646.9	2614.4	2593.1	2582.9	2574.8	2577.8	2587.0	2589.0
52.5°	2848.2	2808.6	2780.1	2764.9	2754.7	2758.8	2765.9	2772.0
55°	3057.6	3013.9	2971.2	2954.9	2942.7	2950.9	2951.9	2960.0
57.5°	3276.1	3216.2	3166.4	3142.0	3129.8	3137.9	3144.0	3152.1
60°	3496.7	3427.6	3368.7	3340.2	3322.9	3334.1	3348.3	3352.4
62.5°	3752.9	3657.3	3591.3	3550.6	3542.5	3553.7	3557.7	3569.9
65°	4055.8	3940.9	3849.5	3799.6	3797.6	3803.7	3812.9	3815.9
67.5°	4401.4	4273.3	4150.3	4100.5	4081.2	4099.5	4108.7	4120.9
70°	4889.3	4713.5	4535.6	4424.8	4378.0	4363.8	4367.9	4381.1
72.5°	4944.2	4755.1	4547.8	4397.3	4315.0	4277.4	4276.4	4278.4
75°	4824.3	4522.4	4376.0	4203.2	4086.3	4025.3	4017.2	4016.2
76°	4764.3	4407.5	4196.1	4058.8	3918.6	3856.6	3847.4	3842.3
77.5°	4511.2	4128.0	3809.8	3726.5	3592.3	3514.0	3530.3	3517.1
80°	3616.7	3236.5	2936.6	2701.8	2708.9	2652.0	2628.6	2621.5
82.5°	2131.6	1819.5	1488.1	1294.0	1109.0	1060.2	912.8	879.3
85°	681.0	482.8	292.7	212.4	144.3	121.0	94.5	86.4
87.5°	90.5	71.2	57.9	55.9	50.8	43.7	28.5	20.3
90°	1.0	1.0	1.0	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°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
97.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100°	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
102.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
105°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
107.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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CATALOG NUMBER: VST-F06-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
112.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
115°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
117.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
120°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
122.5°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
125°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
127.5°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
130°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
132.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
135°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
137.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
140°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
142.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
145°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
147.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
150°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
152.5°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
155°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
157.5°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
160°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
162.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
165°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
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)