

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: P157813

Luminaire Tested: **VST-F07-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157813
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15424.6 lumens
Efficiency: N/A
Efficacy: 85.5 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 - G3

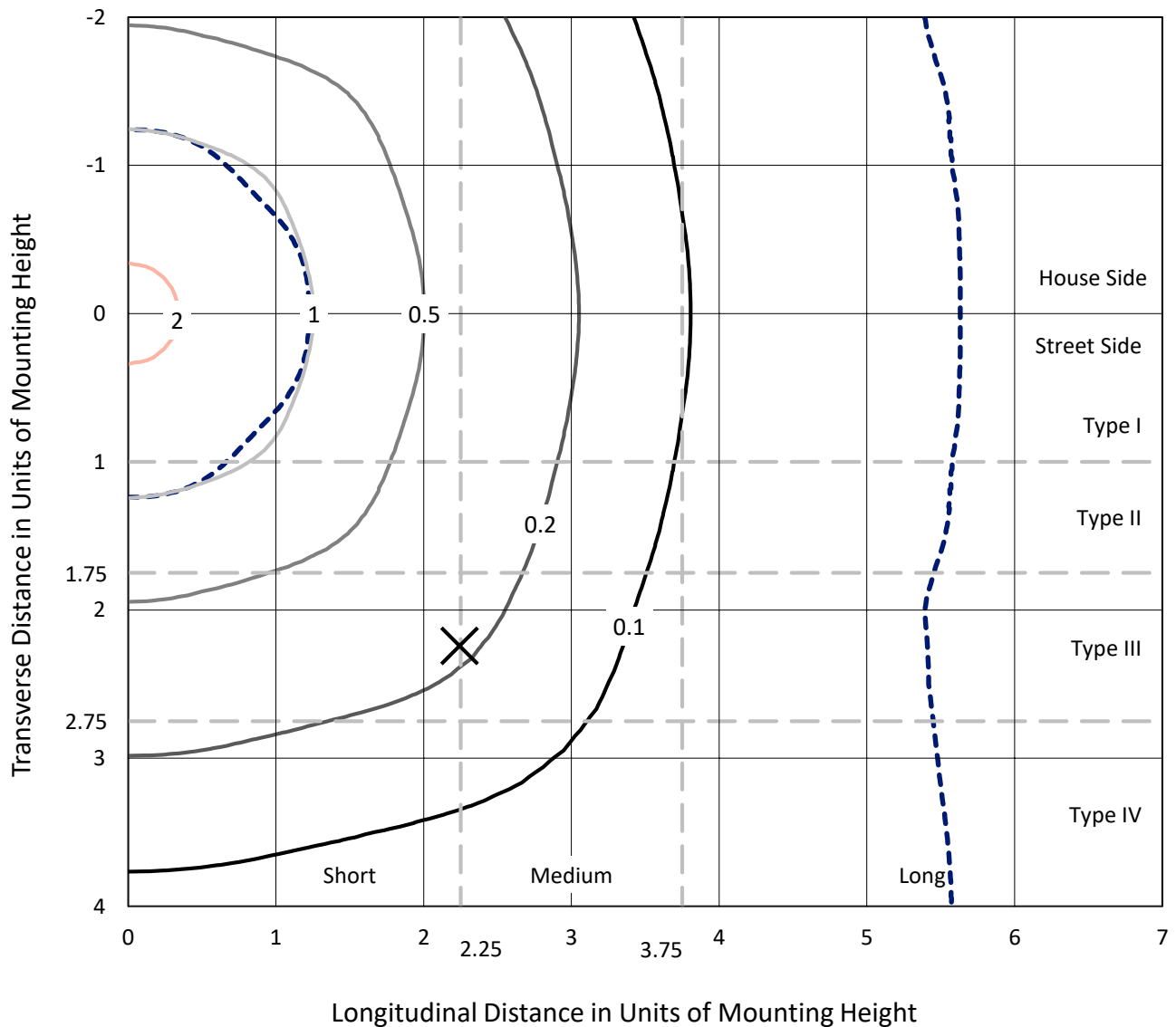
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

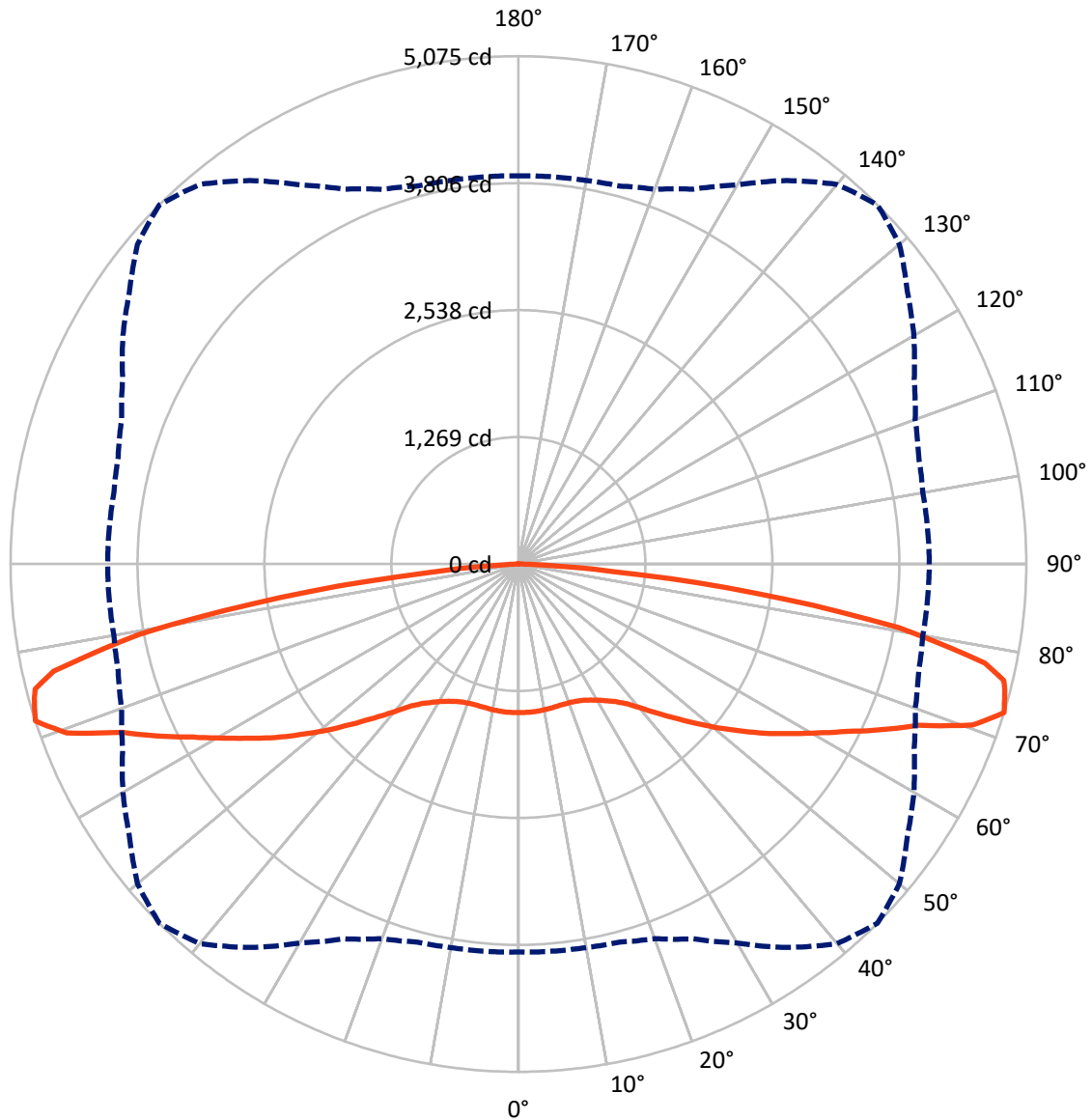
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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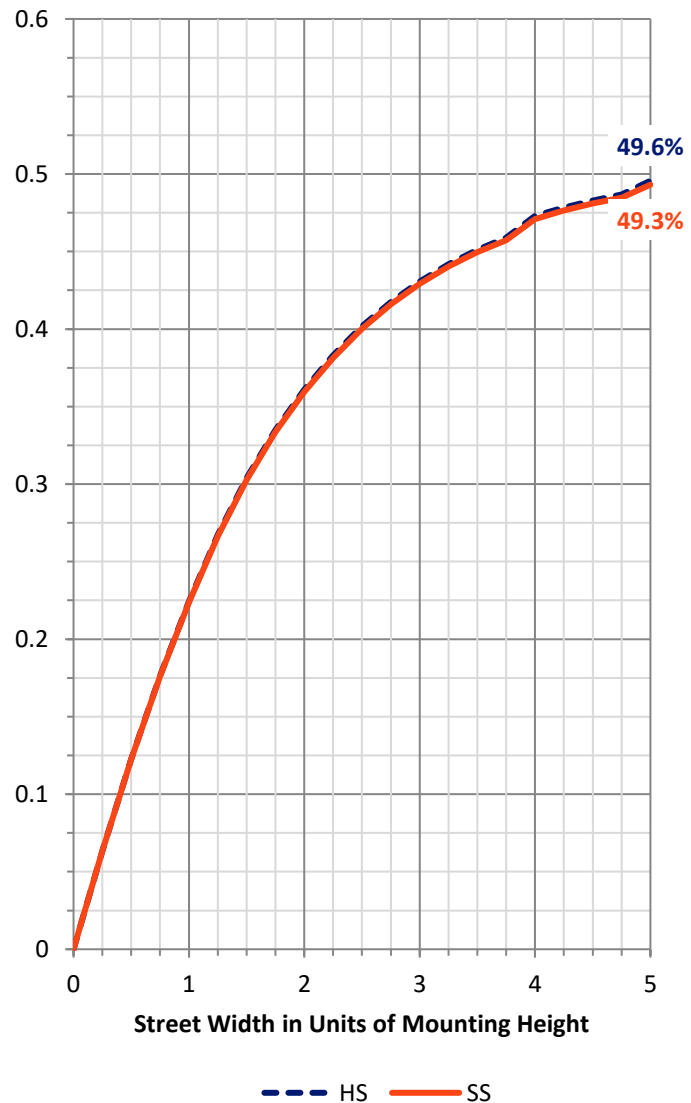
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7708.4	3.9	7712.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7708.4	3.9	7712.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	15416.9	7.7	15424.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	0.9
10°-20°	418.4	2.7
20°-30°	699.6	4.5
30°-40°	1063.3	6.9
40°-50°	1684.1	10.9
50°-60°	2576.1	16.7
60°-70°	3686.8	23.9
70°-80°	4218.5	27.3
80°-90°	928.4	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°	15416.9	100.0
0°-180°	15424.6	100.0



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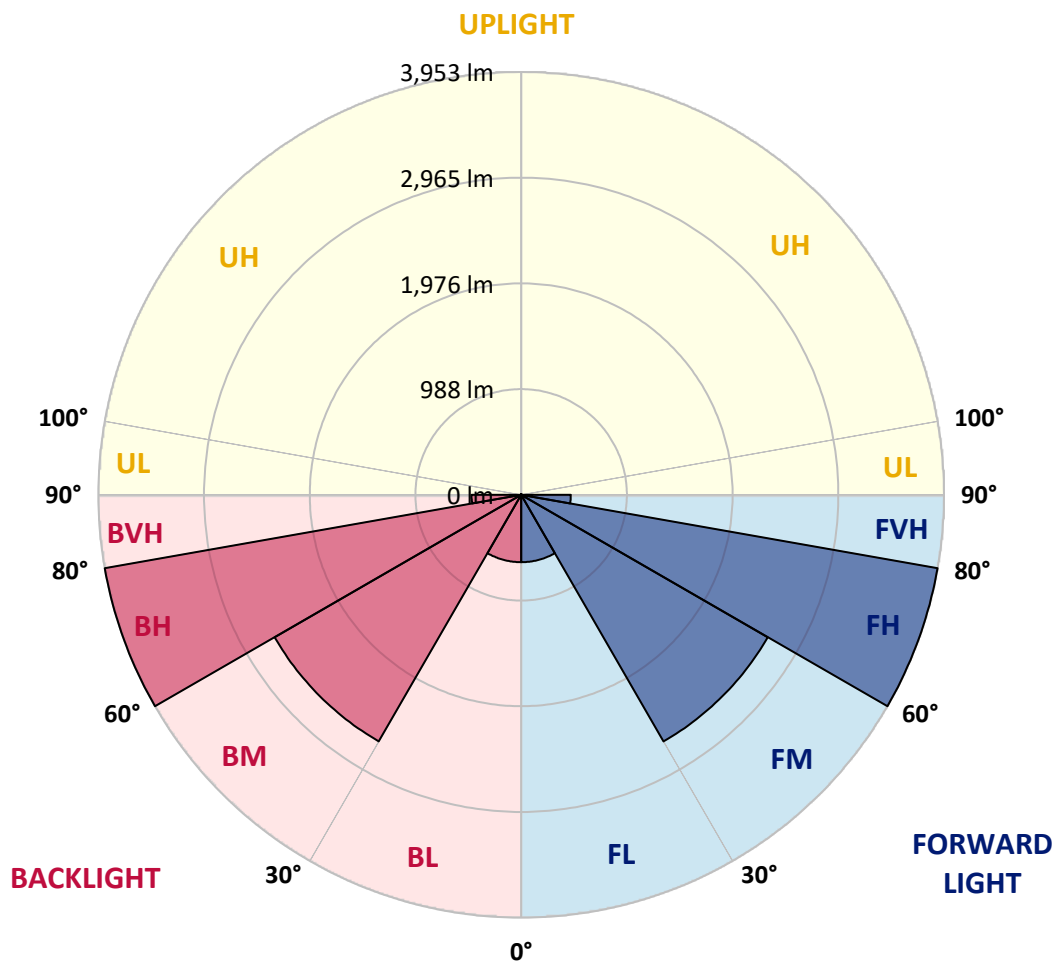
CATALOG NUMBER: VST-F07-LED-E-U-5XQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	629.8	4.1			
FM	(30°-60°)	2661.7	17.3			
FH	(60°-80°)	3952.7	25.6			G2/5000
FVH	(80°-90°)	464.2	3.0			G3/500
BL	(0°-30°)	629.8	4.1	B2/1000		
BM	(30°-60°)	2661.7	17.3	B3/5000		
BH	(60°-80°)	3952.7	25.6	B4/5000		G2/5000
BVH	(80°-90°)	464.2	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°	1484.6	1484.6	1484.6	1484.6	1484.6	1484.6	1484.6	1484.6	1484.6	1484.6	1484.6
2.5°	1485.6	1483.6	1484.6	1486.6	1485.6	1485.6	1484.6	1484.6	1486.6	1484.6	1485.6
5°	1486.6	1484.6	1485.6	1486.6	1485.6	1486.6	1485.6	1485.6	1485.6	1484.6	1486.6
7.5°	1482.7	1482.7	1483.6	1483.6	1482.7	1483.6	1483.6	1483.6	1482.7	1482.7	1484.6
10°	1480.7	1479.7	1479.7	1480.7	1479.7	1479.7	1480.7	1480.7	1478.8	1478.8	1480.7
12.5°	1477.8	1476.8	1476.8	1476.8	1475.8	1475.8	1476.8	1476.8	1475.8	1474.8	1477.8
15°	1475.8	1474.8	1474.8	1474.8	1472.9	1473.9	1473.9	1473.9	1472.9	1471.9	1474.8
17.5°	1474.8	1473.9	1473.9	1473.9	1472.9	1472.9	1472.9	1472.9	1471.9	1471.9	1473.9
20°	1476.8	1476.8	1476.8	1476.8	1475.8	1475.8	1475.8	1476.8	1476.8	1476.8	1478.8
22.5°	1481.7	1481.7	1482.7	1483.6	1483.6	1485.6	1486.6	1487.5	1487.5	1488.5	1490.5
25°	1494.4	1494.4	1495.3	1496.3	1499.2	1501.2	1505.1	1507.0	1508.0	1508.0	1509.0
27.5°	1517.8	1518.7	1520.7	1522.6	1526.5	1529.5	1533.4	1537.3	1538.3	1539.2	1540.2
30°	1547.0	1548.0	1551.9	1553.9	1558.7	1564.6	1569.5	1573.4	1576.3	1578.2	1577.3
32.5°	1589.0	1590.9	1595.8	1598.7	1605.6	1611.4	1618.2	1624.1	1627.0	1629.9	1629.0
35°	1647.5	1652.4	1657.3	1660.2	1667.0	1671.9	1680.7	1686.5	1692.4	1690.4	1691.4
37.5°	1734.3	1738.2	1739.2	1741.1	1748.0	1751.9	1761.6	1769.4	1772.4	1774.3	1775.3
40°	1851.4	1851.4	1856.2	1852.3	1861.1	1862.1	1873.8	1884.5	1887.5	1895.3	1889.4
42.5°	1987.9	1987.0	1989.9	1987.0	1987.0	1996.7	2006.5	2026.0	2027.9	2037.7	2031.8
45°	2136.2	2136.2	2133.3	2134.2	2136.2	2146.9	2158.6	2180.1	2189.8	2195.7	2191.8
47.5°	2297.1	2293.2	2292.3	2291.3	2297.1	2308.8	2326.4	2346.9	2371.3	2373.2	2371.3
50°	2460.0	2459.1	2452.2	2458.1	2462.0	2467.8	2501.0	2528.3	2553.7	2569.3	2564.4
52.5°	2631.7	2622.9	2622.9	2622.9	2632.7	2651.2	2680.5	2717.5	2751.7	2768.3	2765.3
55°	2805.3	2802.4	2793.6	2789.7	2802.4	2828.7	2870.7	2915.6	2960.4	2985.8	2976.0
57.5°	2964.3	2959.5	2960.4	2961.4	2976.0	3011.2	3059.9	3119.4	3168.2	3195.5	3188.7
60°	3089.2	3083.3	3094.1	3097.0	3123.3	3181.9	3259.9	3335.0	3399.4	3426.7	3416.0
62.5°	3230.6	3226.7	3233.5	3232.6	3260.9	3326.2	3430.6	3550.6	3648.1	3683.2	3667.6
65°	3458.9	3447.2	3444.2	3433.5	3452.0	3502.8	3607.1	3746.6	3902.7	3992.4	3971.0
67.5°	3732.0	3729.1	3719.3	3713.5	3720.3	3783.7	3884.2	4018.8	4177.8	4301.6	4329.0
70°	3912.4	3916.4	3926.1	3940.7	3997.3	4120.2	4303.6	4507.5	4726.0	4818.6	4802.0
72.5°	3878.3	3884.2	3892.0	3910.5	3984.6	4131.9	4373.8	4678.2	4952.3	5075.2	4969.8
75°	3711.5	3716.4	3733.9	3762.2	3852.9	4031.5	4291.9	4614.8	4897.6	5020.5	4910.3
76°	3557.4	3573.0	3605.2	3638.4	3747.6	3941.7	4219.7	4564.0	4863.5	4988.3	4882.0
77.5°	3208.2	3221.8	3248.2	3305.7	3429.6	3678.3	4003.2	4341.6	4653.8	4765.9	4676.2
80°	2414.2	2425.9	2450.3	2519.5	2626.8	2781.0	3032.6	3363.3	3705.7	3852.9	3794.4
82.5°	1019.3	1033.0	1129.5	1230.0	1348.0	1514.8	1678.7	1971.3	2223.0	2390.8	2301.0
85°	112.2	138.5	170.7	232.2	284.8	379.4	472.1	649.6	821.3	925.7	818.4
87.5°	19.5	22.4	32.2	41.0	45.8	52.7	63.4	88.8	121.0	104.4	106.3
90°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	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°	1484.6	1484.6	1484.6	1484.6	1484.6	1484.6	1484.6	1484.6
2.5°	1484.6	1484.6	1486.6	1485.6	1485.6	1486.6	1488.5	1487.5
5°	1485.6	1486.6	1484.6	1485.6	1486.6	1486.6	1487.5	1486.6
7.5°	1483.6	1483.6	1483.6	1484.6	1485.6	1484.6	1485.6	1485.6
10°	1479.7	1480.7	1479.7	1481.7	1482.7	1482.7	1483.6	1483.6
12.5°	1476.8	1476.8	1476.8	1478.8	1479.7	1479.7	1480.7	1479.7
15°	1473.9	1473.9	1472.9	1474.8	1476.8	1476.8	1477.8	1477.8
17.5°	1472.9	1472.9	1471.9	1473.9	1475.8	1475.8	1476.8	1476.8
20°	1475.8	1476.8	1474.8	1476.8	1478.8	1479.7	1479.7	1479.7
22.5°	1487.5	1486.6	1483.6	1484.6	1485.6	1485.6	1485.6	1485.6
25°	1505.1	1503.1	1500.2	1499.2	1498.3	1497.3	1497.3	1497.3
27.5°	1535.3	1532.4	1527.5	1526.5	1525.6	1523.6	1523.6	1523.6
30°	1571.4	1567.5	1561.7	1559.7	1556.8	1554.8	1553.9	1552.9
32.5°	1623.1	1615.3	1608.5	1603.6	1600.7	1594.8	1593.9	1591.9
35°	1682.6	1676.8	1667.0	1664.1	1659.2	1656.3	1655.3	1650.4
37.5°	1764.6	1757.7	1748.9	1747.0	1746.0	1743.1	1743.1	1742.1
40°	1878.7	1871.8	1864.0	1856.2	1858.2	1859.2	1859.2	1855.3
42.5°	2018.2	2007.4	1991.8	1996.7	1993.8	1989.9	1997.7	1992.8
45°	2177.2	2162.5	2150.8	2145.9	2145.9	2141.1	2148.9	2148.9
47.5°	2353.7	2330.3	2308.8	2309.8	2302.0	2304.0	2308.8	2315.7
50°	2540.0	2508.8	2488.3	2478.6	2470.8	2473.7	2482.5	2484.4
52.5°	2733.2	2695.1	2667.8	2653.2	2643.4	2647.3	2654.1	2660.0
55°	2934.1	2892.1	2851.2	2835.6	2823.9	2831.7	2832.6	2840.5
57.5°	3143.8	3086.3	3038.5	3015.1	3003.3	3011.2	3017.0	3024.8
60°	3355.5	3289.1	3232.6	3205.3	3188.7	3199.4	3213.1	3217.0
62.5°	3601.3	3509.6	3446.2	3407.2	3399.4	3410.1	3414.0	3425.7
65°	3892.0	3781.7	3694.0	3646.2	3644.2	3650.1	3658.8	3661.8
67.5°	4223.6	4100.7	3982.7	3934.9	3916.4	3933.9	3942.7	3954.4
70°	4691.8	4523.1	4352.4	4246.0	4201.2	4187.5	4191.4	4204.1
72.5°	4744.5	4563.1	4364.1	4219.7	4140.7	4104.6	4103.6	4105.6
75°	4629.4	4339.7	4199.2	4033.4	3921.2	3862.7	3854.9	3853.9
76°	4571.8	4229.5	4026.6	3894.9	3760.3	3700.8	3692.0	3687.1
77.5°	4329.0	3961.2	3655.9	3575.9	3447.2	3372.1	3387.7	3375.0
80°	3470.6	3105.8	2818.0	2592.7	2599.5	2544.9	2522.5	2515.6
82.5°	2045.5	1746.0	1428.0	1241.7	1064.2	1017.4	875.9	843.7
85°	653.5	463.3	280.9	203.9	138.5	116.1	90.7	82.9
87.5°	86.8	68.3	55.6	53.6	48.8	41.9	27.3	19.5
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-F07-LED-E-U-5XQ-8030

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)