

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: P165122

Luminaire Tested: **VST-F12-LED-E-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165122
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F12-LED-E-U-SL2-HSS
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17946.9 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 306.6
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

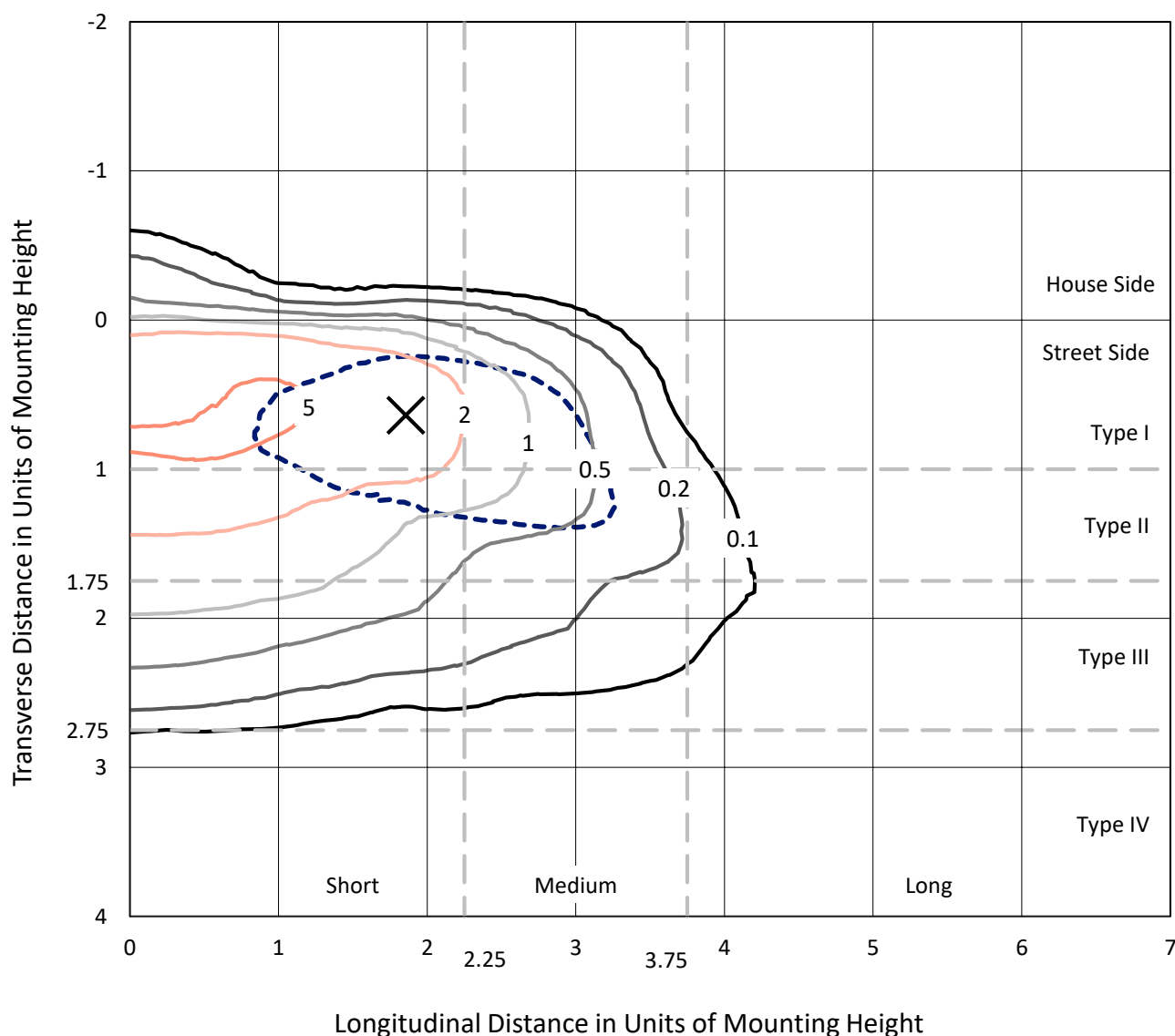


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

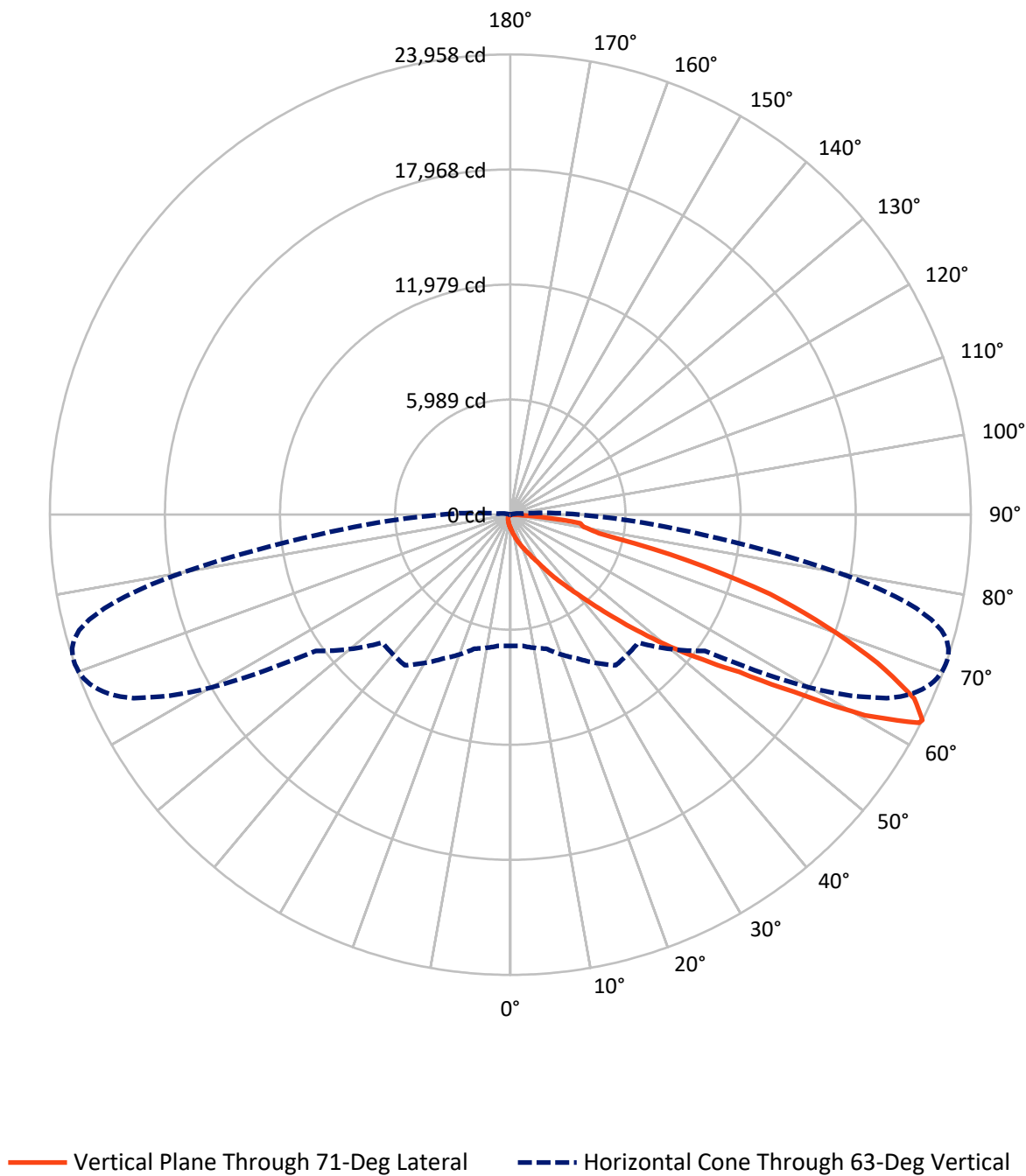


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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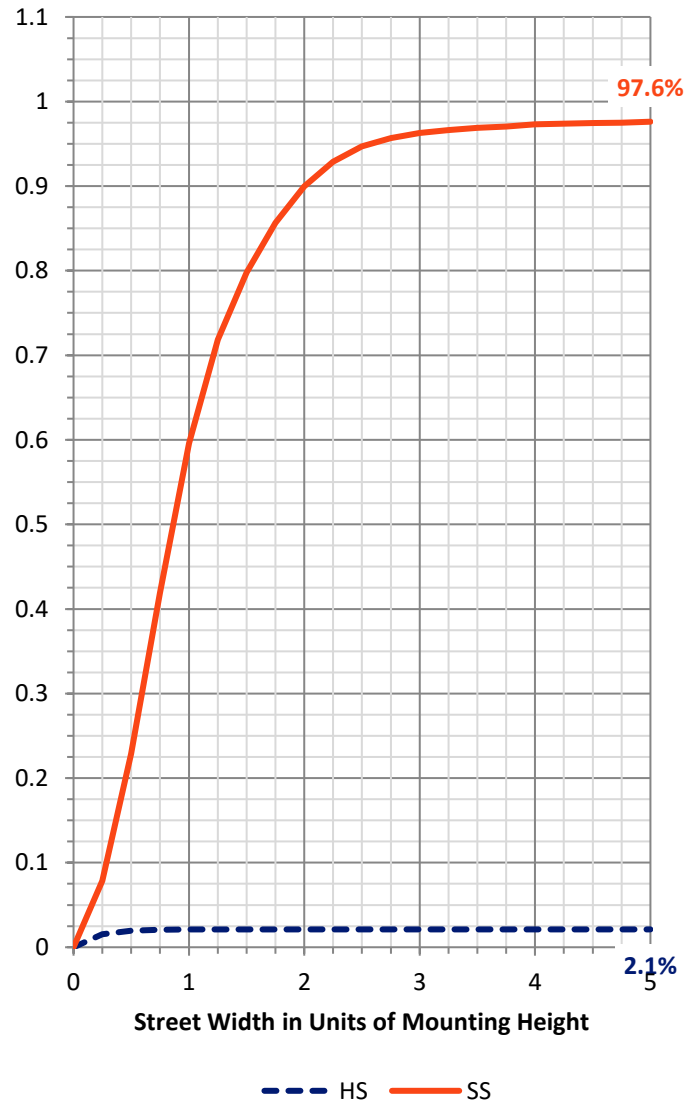
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	381.0	0.0	381.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	17565.8	0.0	17565.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	17946.9	0.0	17946.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	0.4
10°-20°	295.1	1.6
20°-30°	599.4	3.3
30°-40°	1464.4	8.2
40°-50°	3275.0	18.2
50°-60°	4605.0	25.7
60°-70°	5415.1	30.2
70°-80°	1955.3	10.9
80°-90°	261.5	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17946.9	100.0
0°-180°	17946.9	100.0

Coefficient of Utilization



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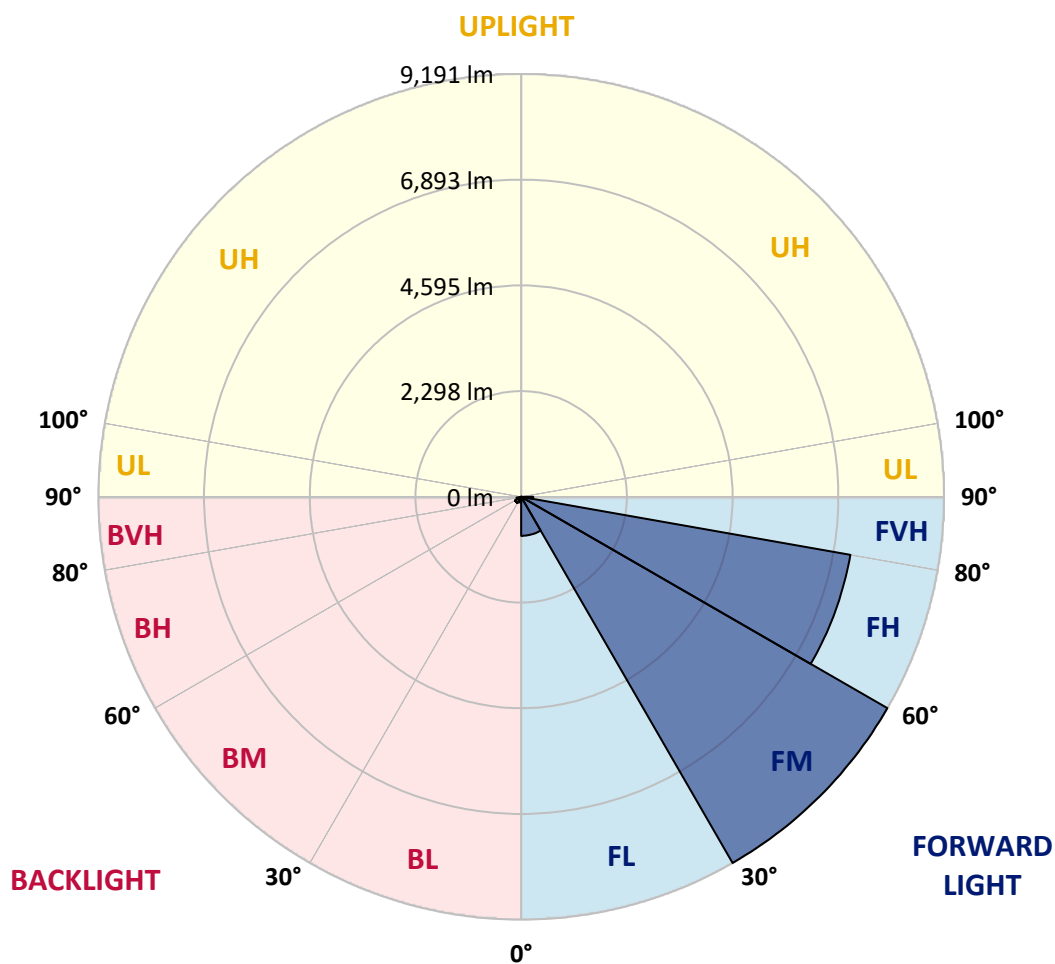
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	848.0	4.7			
FM	(30°-60°)	9190.9	51.2			
FH	(60°-80°)	7266.0	40.5			G3/7500
FVH	(80°-90°)	260.9	1.5			G3/500
BL	(0°-30°)	122.5	0.7	B1/500		
BM	(30°-60°)	153.5	0.9	B0/220		
BH	(60°-80°)	104.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
2.5°	900.5	910.2	903.7	887.4	867.8	841.8	818.9	818.9	815.7	805.8	809.1
5°	1181.0	1184.4	1171.3	1132.1	1096.2	1040.8	978.7	972.2	965.7	956.0	952.8
7.5°	1455.2	1468.1	1455.2	1412.6	1340.9	1256.1	1158.2	1148.5	1128.9	1128.9	1115.8
10°	1735.8	1735.8	1722.7	1673.8	1608.4	1487.7	1363.7	1347.5	1324.7	1318.1	1298.5
12.5°	1934.7	1934.7	1928.2	1902.2	1849.9	1742.3	1592.1	1575.9	1546.6	1536.7	1513.9
15°	2013.0	2013.0	2016.3	2039.1	2042.5	1993.5	1836.8	1823.7	1794.4	1768.3	1758.6
17.5°	2061.9	2058.7	2058.7	2091.4	2150.1	2182.8	2081.5	2068.4	2035.9	2022.9	1990.2
20°	2169.7	2163.1	2143.5	2143.5	2199.0	2313.1	2313.1	2310.0	2274.1	2264.2	2247.9
22.5°	2329.6	2323.0	2264.2	2215.2	2241.4	2385.0	2518.8	2512.2	2499.2	2486.1	2476.4
25°	2590.5	2567.7	2466.5	2323.0	2300.2	2453.6	2675.3	2691.7	2701.4	2701.4	2708.0
27.5°	2985.4	2956.0	2776.5	2509.1	2407.8	2564.3	2848.3	2880.9	2910.3	2916.8	2946.1
30°	3533.4	3481.3	3223.5	2832.0	2600.4	2727.6	3102.9	3138.7	3181.1	3194.2	3239.8
32.5°	4433.9	4404.5	4156.7	3569.2	3073.3	3047.4	3458.5	3504.1	3559.5	3582.3	3637.8
35°	5804.3	5810.8	5608.6	5080.0	4394.8	4035.8	4094.7	4133.7	4153.3	4221.9	4251.2
37.5°	6734.1	6750.4	6796.1	6587.3	6097.9	5732.4	5272.3	5314.9	5213.7	5223.4	5226.8
40°	7243.1	7295.2	7562.9	7765.2	7725.9	7513.9	7145.2	7168.0	6978.8	6936.4	6730.7
42.5°	7582.3	7650.8	8078.4	8704.7	9024.4	9217.0	9132.2	9122.3	8975.5	8920.0	8747.1
45°	7794.5	7856.5	8394.8	9318.1	10055.5	10616.6	10848.2	10874.3	10750.3	10694.8	10551.4
47.5°	7784.6	7856.5	8433.8	9546.5	10633.0	11530.1	12182.8	12215.3	12290.3	12241.4	12251.1
50°	7354.0	7422.6	8003.3	9158.2	10463.2	11947.8	13141.9	13246.3	13367.0	13448.6	13487.8
52.5°	6832.0	6880.9	7396.4	8492.7	9738.9	11774.8	13709.5	13889.0	14068.5	14221.9	14329.5
55°	6639.4	6694.9	7099.4	8009.8	9158.2	11050.5	13973.8	14238.1	14492.7	14743.9	14949.4
57.5°	6740.6	6792.7	7083.2	7781.4	8812.4	10287.1	14048.9	14460.0	14877.7	15285.4	15690.0
60°	7112.5	7168.0	7416.1	7993.4	8721.1	9846.7	13755.3	14437.2	15132.1	15843.3	16512.2
62.5°	6965.7	6988.5	7354.0	8365.5	9373.5	9471.4	12688.4	13641.2	14701.5	15797.8	16877.6
63°	6825.4	6851.6	7223.5	8264.2	9572.7	9415.9	12358.9	13363.8	14482.8	15663.8	16838.5
65°	6189.3	6192.4	6476.3	7298.6	9350.8	9513.8	10890.8	11849.9	13135.4	14551.4	16035.9
67.5°	4619.9	4597.1	4871.1	5497.6	7341.0	9517.2	9347.4	9885.9	10779.8	12036.0	13367.0
70°	1637.9	1602.0	2045.7	2913.4	4574.1	7784.6	8032.6	8068.5	8316.5	8995.1	9830.4
72.5°	531.8	541.7	652.4	1066.9	2107.7	5239.8	7272.4	7161.5	7096.3	7092.9	7203.9
75°	212.0	215.4	260.9	473.1	946.2	2525.3	6368.8	6430.6	6453.6	6486.1	6522.1
77.5°	101.0	111.0	146.8	264.3	469.8	1249.6	4557.9	5083.1	5383.3	5615.1	5755.4
80°	35.9	42.4	81.6	163.1	218.5	574.2	2401.3	2897.2	3337.6	3905.5	4394.8
82.5°	0.0	0.0	16.2	114.1	120.7	231.6	985.3	1154.9	1321.3	1712.8	2199.0
85°	0.0	0.0	0.0	32.7	35.9	39.2	332.9	401.4	450.3	525.2	606.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	9.7	19.6	48.9	75.1
90°	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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
2.5°	802.6	799.4	799.4	792.9	789.5	783.0	779.8	769.9	766.7	766.7	766.7
5°	949.4	936.3	929.8	913.6	903.7	900.5	884.2	877.7	867.8	871.2	854.7
7.5°	1112.5	1089.7	1080.0	1057.0	1050.7	1027.7	1021.1	1004.9	995.2	975.6	969.0
10°	1292.0	1262.7	1246.4	1210.4	1200.6	1184.4	1164.8	1145.2	1128.9	1109.3	1099.6
12.5°	1497.6	1471.5	1458.4	1409.5	1386.7	1363.7	1337.7	1311.6	1285.4	1269.2	1246.4
15°	1739.0	1696.6	1683.5	1637.9	1598.7	1569.4	1533.5	1500.8	1481.2	1448.7	1425.7
17.5°	1977.1	1934.7	1925.0	1856.4	1814.0	1794.4	1755.4	1712.8	1676.9	1644.4	1608.4
20°	2215.2	2185.9	2159.8	2094.6	2049.0	2016.3	1964.0	1921.6	1892.3	1846.7	1801.0
22.5°	2453.6	2424.1	2404.7	2336.1	2293.7	2247.9	2202.4	2156.6	2114.2	2058.7	2006.6
25°	2698.3	2678.7	2668.8	2606.9	2567.7	2525.3	2479.5	2427.4	2375.1	2313.1	2257.8
27.5°	2952.7	2959.2	2939.6	2926.5	2884.1	2854.8	2783.1	2747.2	2708.0	2632.9	2564.3
30°	3275.6	3295.2	3288.7	3298.6	3272.4	3252.8	3197.4	3151.8	3106.0	3034.3	2956.0
32.5°	3683.6	3709.7	3722.6	3758.6	3745.6	3739.0	3722.6	3657.4	3624.7	3500.9	3468.2
35°	4313.2	4300.1	4355.6	4384.9	4371.8	4365.5	4345.9	4310.0	4270.8	4182.6	4101.2
37.5°	5132.1	5145.1	5164.7	5106.1	5066.9	5063.7	5004.9	4969.0	4913.5	4815.7	4717.8
40°	6632.9	6551.4	6460.1	6212.0	6104.5	6042.4	5869.5	5820.5	5725.8	5592.1	5491.1
42.5°	8584.0	8502.4	8228.4	7814.1	7592.2	7285.5	7145.2	6972.3	6838.5	6620.0	6502.5
45°	10522.1	10287.1	10254.4	9771.6	9497.6	9093.0	8841.8	8551.3	8248.0	7960.9	7752.1
47.5°	12156.6	12104.3	11944.6	11650.8	11396.4	11057.0	10734.1	10287.1	9973.9	9566.1	9190.9
50°	13464.8	13461.7	13402.8	13233.2	13021.2	12747.2	12463.3	12084.9	11729.3	11230.0	10828.8
52.5°	14443.8	14495.9	14515.5	14463.2	14381.8	14140.3	13996.8	13680.2	13380.0	12955.9	12522.0
55°	15161.4	15354.0	15451.8	15562.8	15540.0	15455.2	15448.7	15243.0	15106.1	14769.9	14463.2
57.5°	16049.0	16365.4	16668.7	17207.2	17226.7	17416.1	17513.9	17611.8	17637.8	17504.0	17403.0
60°	17177.7	17823.8	18398.0	19523.7	19817.4	20280.6	20580.7	20907.0	21184.2	21207.2	21200.7
62.5°	17973.8	18969.0	19895.6	21566.0	22137.0	22672.2	23073.4	23390.0	23582.3	23778.1	23869.4
63°	17996.8	19086.5	20071.7	21794.5	22394.8	22903.8	23285.5	23579.2	23781.5	23898.7	23957.6
65°	17445.4	18766.7	19941.2	21657.3	22221.8	22734.2	22933.1	23125.7	23223.5	23269.1	23096.1
67.5°	14786.3	16078.3	17448.6	19367.0	19849.8	20463.2	20626.5	20724.4	20769.9	20760.2	20613.4
70°	11057.0	12140.4	13664.0	15856.4	16496.0	17096.3	17468.2	17628.1	17680.2	17663.9	17445.4
72.5°	7719.4	8355.6	9611.7	12052.2	12923.4	13693.3	14153.3	14391.5	14440.4	14342.5	14140.3
75°	6482.9	6515.6	6799.3	8133.7	8949.4	9771.6	10290.3	10440.4	10342.6	10045.6	9530.3
77.5°	5787.9	5859.8	5859.8	6058.7	6218.6	6447.0	6496.0	6130.4	5706.4	5158.2	4714.6
80°	4854.9	5106.1	5282.2	5429.0	5445.3	5399.7	5278.9	5073.4	4747.1	4329.4	3866.2
82.5°	2949.5	3445.4	3647.7	4404.5	4776.4	5027.6	5008.2	4734.0	4486.2	4052.3	3657.4
85°	744.0	802.6	871.2	1132.1	1269.2	1549.7	1725.9	1807.5	1836.8	1686.8	1527.0
87.5°	71.7	48.9	81.6	62.0	88.2	65.2	88.2	81.6	101.0	107.6	117.5
90°	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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
2.5°	760.2	756.8	753.7	750.5	747.1	744.0	737.4	737.4	730.9	727.5	724.3
5°	845.0	838.5	835.3	828.8	818.9	812.3	802.6	789.5	779.8	776.5	769.9
7.5°	952.8	936.3	929.8	920.1	907.0	887.4	874.3	864.6	848.4	838.5	818.9
10°	1073.4	1057.0	1037.6	1018.0	998.4	975.6	959.1	946.2	920.1	907.0	884.2
12.5°	1226.8	1197.5	1174.5	1148.5	1122.4	1096.2	1076.6	1037.6	1014.6	985.3	965.7
15°	1383.3	1357.2	1331.2	1298.5	1259.3	1216.9	1197.5	1161.4	1132.1	1086.5	1060.4
17.5°	1572.5	1523.6	1484.6	1445.3	1409.5	1370.2	1331.2	1275.7	1233.3	1194.1	1142.0
20°	1758.6	1699.9	1657.3	1605.2	1553.1	1491.1	1445.3	1406.1	1347.5	1295.3	1239.9
22.5°	1957.5	1898.8	1830.3	1778.2	1706.5	1657.3	1595.5	1530.1	1471.5	1402.9	1334.4
25°	2199.0	2137.0	2058.7	1990.2	1908.5	1840.2	1765.1	1690.0	1618.3	1540.0	1451.9
27.5°	2496.0	2430.6	2345.8	2264.2	2156.6	2071.8	2000.1	1898.8	1807.5	1709.6	1608.4
30°	2871.0	2799.3	2694.9	2577.4	2469.8	2375.1	2274.1	2140.4	2039.1	1921.6	1791.3
32.5°	3360.6	3275.6	3135.3	3024.4	2890.7	2766.6	2626.4	2492.6	2349.2	2195.8	2045.7
35°	3977.2	3898.9	3735.7	3572.6	3425.8	3279.0	3102.9	2949.5	2747.2	2561.2	2368.6
37.5°	4616.7	4476.3	4326.3	4150.1	3967.3	3791.1	3575.8	3363.8	3132.2	2929.9	2688.4
40°	5347.4	5177.8	5053.8	4864.6	4606.8	4355.6	4156.7	3892.4	3601.9	3331.1	3047.4
42.5°	6349.1	6159.9	5938.0	5650.9	5464.9	5171.3	4913.5	4600.3	4218.5	3915.2	3572.6
45°	7507.4	7249.6	7034.3	6756.9	6531.8	6166.5	5866.3	5448.7	5066.9	4668.8	4251.2
47.5°	8828.7	8508.9	8195.7	7921.7	7562.9	7203.9	6822.3	6378.5	5889.1	5451.8	4955.9
50°	10345.7	9892.2	9458.3	9106.1	8613.3	8199.0	7784.6	7285.5	6743.8	6241.4	5676.9
52.5°	12032.6	11507.4	10933.2	10391.5	9820.5	9288.7	8789.5	8215.3	7611.8	6998.4	6368.8
55°	14068.5	13673.7	12998.5	12310.0	11546.4	10835.3	10192.4	9481.3	8747.1	7941.3	7279.0
57.5°	17256.2	17063.6	16499.1	15810.8	14815.7	13951.0	12861.3	11990.2	10926.6	9817.3	8962.4
60°	21575.9	21337.6	21021.2	20463.2	19673.7	18499.2	17298.6	15944.6	14326.3	12789.6	11331.2
62.5°	23879.3	23794.3	23536.8	23151.6	22414.4	21487.8	20277.4	18789.5	16962.6	15096.2	13236.6
63°	23947.7	23840.1	23618.2	23226.7	22577.4	21680.3	20492.6	19047.2	17259.3	15357.3	13458.3
65°	23021.2	22978.8	22753.6	22326.2	21882.6	21197.3	20277.4	19034.2	17533.4	15735.8	13846.6
67.5°	20417.7	20290.3	19944.6	19814.0	19504.1	19027.6	18326.3	17471.3	16398.1	14985.3	13353.9
70°	17269.1	17079.8	16646.0	16414.3	16035.9	15735.8	15308.4	14698.2	14035.8	13050.6	11833.7
72.5°	13931.4	13539.9	13141.9	12538.4	12009.8	11474.7	11001.5	10571.0	9843.3	9445.3	8522.0
75°	9047.2	8336.0	7654.2	6740.6	5918.4	5190.9	4482.8	4124.0	3376.9	3073.3	2639.4
77.5°	4293.6	3895.6	3360.6	2946.1	2417.5	1973.9	1611.8	1210.4	949.4	744.0	567.6
80°	3464.8	3128.8	2805.9	2430.6	2032.6	1621.5	1243.0	929.8	659.0	456.7	322.9
82.5°	3089.8	2724.2	2326.2	2068.4	1797.8	1471.5	1207.2	985.3	727.5	531.8	362.2
85°	1200.6	1011.4	779.8	636.2	495.9	407.7	368.7	254.4	199.1	156.5	120.7
87.5°	104.4	84.8	68.6	45.8	48.9	26.2	29.3	19.6	16.2	16.2	13.1
90°	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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CATALOG NUMBER: VST-F12-LED-E-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
2.5°	721.0	717.8	714.4	707.9	707.9	701.6	698.2	695.0	678.6	642.7	613.4
5°	756.8	750.5	744.0	734.1	727.5	717.8	711.3	701.6	665.5	597.2	538.3
7.5°	809.1	796.1	786.4	766.7	756.8	744.0	734.1	717.8	659.0	554.6	473.1
10°	871.2	848.4	831.9	809.1	789.5	773.3	756.8	734.1	652.4	509.0	414.3
12.5°	946.2	920.1	887.4	861.3	835.3	812.3	789.5	760.2	642.7	469.8	368.7
15°	1021.1	982.1	959.1	923.3	887.4	854.7	822.2	796.1	646.1	427.4	329.5
17.5°	1105.9	1066.9	1018.0	978.7	939.7	897.3	858.1	805.8	629.6	394.9	300.2
20°	1187.6	1132.1	1086.5	1037.6	982.1	929.8	880.9	835.3	616.6	362.2	274.0
22.5°	1275.7	1210.4	1151.7	1089.7	1021.1	962.5	903.7	845.0	593.8	332.9	251.2
25°	1383.3	1308.2	1223.4	1148.5	1076.6	1004.9	929.8	858.1	571.0	306.7	235.0
27.5°	1513.9	1416.0	1331.2	1236.5	1135.5	1044.1	962.5	884.2	548.2	287.1	218.5
30°	1680.3	1566.0	1445.3	1324.7	1216.9	1112.5	998.4	900.5	525.2	267.5	202.3
32.5°	1902.2	1758.6	1611.8	1471.5	1327.8	1194.1	1073.4	946.2	512.2	251.2	186.0
35°	2195.8	2009.8	1830.3	1654.2	1481.2	1318.1	1161.4	1018.0	512.2	231.6	166.4
37.5°	2473.0	2257.8	2029.4	1810.7	1605.2	1416.0	1230.0	1057.0	486.2	215.4	150.2
40°	2773.2	2515.4	2247.9	1990.2	1742.3	1507.3	1295.3	1096.2	463.2	195.7	133.7
42.5°	3233.2	2907.1	2558.0	2257.8	1960.9	1670.4	1406.1	1171.3	433.9	176.1	117.5
45°	3836.9	3422.4	3011.5	2646.0	2267.6	1911.9	1598.7	1308.2	427.4	159.9	101.0
47.5°	4482.8	3993.4	3510.6	3044.0	2600.4	2185.9	1810.7	1461.6	427.4	143.6	88.2
50°	5125.5	4512.3	3996.8	3455.1	2956.0	2466.5	2019.5	1621.5	430.7	130.6	71.7
52.5°	5706.4	5050.6	4473.1	3846.6	3295.2	2727.6	2241.4	1778.2	424.2	114.1	58.6
55°	6512.2	5742.3	5073.4	4381.8	3735.7	3096.3	2544.9	2013.0	427.4	101.0	48.9
57.5°	7996.8	7092.9	6287.1	5380.1	4636.1	3810.8	3141.9	2496.0	466.6	84.8	35.9
60°	10127.2	8952.7	7820.6	6714.5	5768.4	4786.3	3918.3	3158.3	548.2	68.6	26.2
62.5°	11559.5	10022.8	8672.2	7451.9	6352.3	5324.6	4378.4	3513.8	603.5	55.5	16.2
63°	11706.3	10117.5	8760.1	7500.9	6378.5	5350.8	4398.0	3539.9	606.9	52.1	16.2
65°	11983.7	10280.6	8809.1	7510.6	6352.3	5314.9	4384.9	3536.7	613.4	42.4	13.1
67.5°	11667.2	10029.3	8525.4	7230.0	6123.9	5102.7	4221.9	3406.2	610.0	29.3	9.7
70°	10433.9	9076.7	7755.2	6548.1	5543.2	4619.9	3843.4	3106.0	561.1	19.6	6.5
72.5°	7660.7	6737.3	5713.0	4841.8	4176.1	3468.2	2959.2	2332.7	433.9	13.1	3.2
75°	2270.7	2068.4	1739.0	1533.5	1354.0	1119.0	995.2	776.5	221.9	6.5	0.0
77.5°	453.5	411.1	368.7	336.0	316.4	270.8	257.8	212.0	91.3	3.2	0.0
80°	238.1	195.7	166.4	146.8	127.2	104.4	88.2	71.7	16.2	0.0	0.0
82.5°	228.4	153.3	111.0	91.3	78.3	62.0	48.9	35.9	9.7	0.0	0.0
85°	84.8	65.2	48.9	39.2	32.7	29.3	22.8	19.6	0.0	0.0	0.0
87.5°	13.1	9.7	9.7	6.5	6.5	3.2	3.2	3.2	0.0	0.0	0.0
90°	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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CATALOG NUMBER: VST-F12-LED-E-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	688.5	688.5	688.5	688.5	688.5	688.5	688.5
2.5°	584.1	557.9	544.8	528.6	528.6	525.2	531.8
5°	486.2	450.3	424.2	404.6	407.7	398.0	401.4
7.5°	411.1	375.3	352.3	339.4	336.0	332.9	332.9
10°	355.6	322.9	303.3	293.6	290.5	290.5	290.5
12.5°	316.4	283.9	267.5	260.9	260.9	257.8	257.8
15°	283.9	257.8	241.5	235.0	235.0	231.6	235.0
17.5°	257.8	231.6	218.5	212.0	212.0	208.8	208.8
20°	235.0	212.0	199.1	189.2	189.2	186.0	189.2
22.5°	215.4	192.6	176.1	169.6	166.4	163.1	166.4
25°	195.7	173.0	156.5	146.8	143.6	143.6	140.3
27.5°	179.5	156.5	137.1	127.2	124.0	124.0	120.7
30°	163.1	137.1	117.5	107.6	104.4	104.4	104.4
32.5°	146.8	117.5	101.0	91.3	88.2	88.2	88.2
35°	130.6	101.0	84.8	75.1	71.7	71.7	71.7
37.5°	111.0	84.8	65.2	58.6	55.5	52.1	52.1
40°	94.7	65.2	48.9	42.4	35.9	35.9	35.9
42.5°	78.3	52.1	35.9	26.2	22.8	19.6	22.8
45°	65.2	39.2	22.8	13.1	9.7	9.7	9.7
47.5°	52.1	26.2	9.7	3.2	3.2	3.2	3.2
50°	39.2	16.2	3.2	0.0	0.0	3.2	3.2
52.5°	29.3	9.7	0.0	0.0	0.0	0.0	0.0
55°	16.2	3.2	0.0	0.0	0.0	0.0	0.0
57.5°	9.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	6.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0
63°	3.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	3.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)