

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: P165114

Luminaire Tested: **VST-F11-LED-E-U-SL2-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165114
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-F11-LED-E-U-SL2-HSS-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (77) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16880.8 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 282.7
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

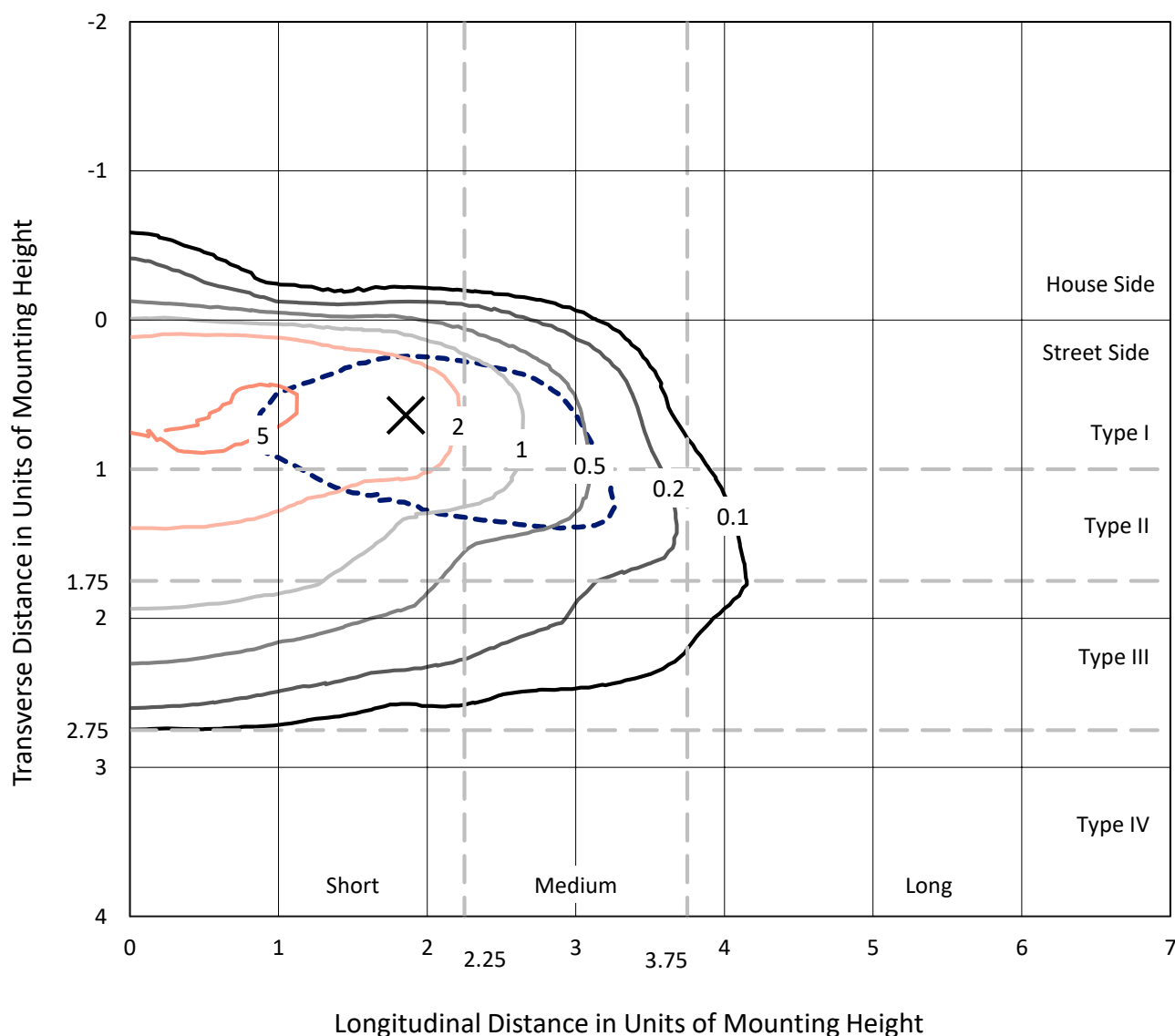


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

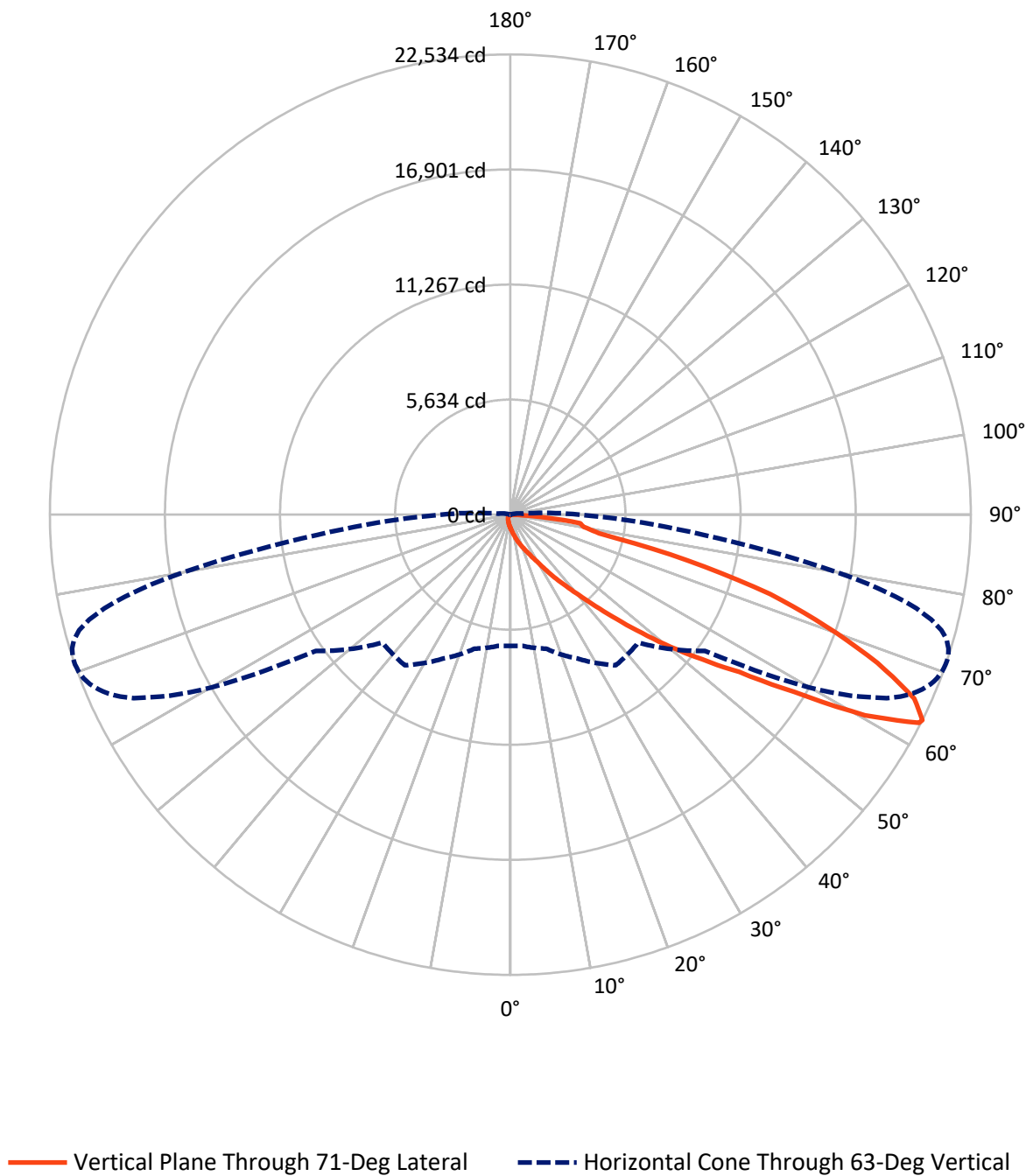


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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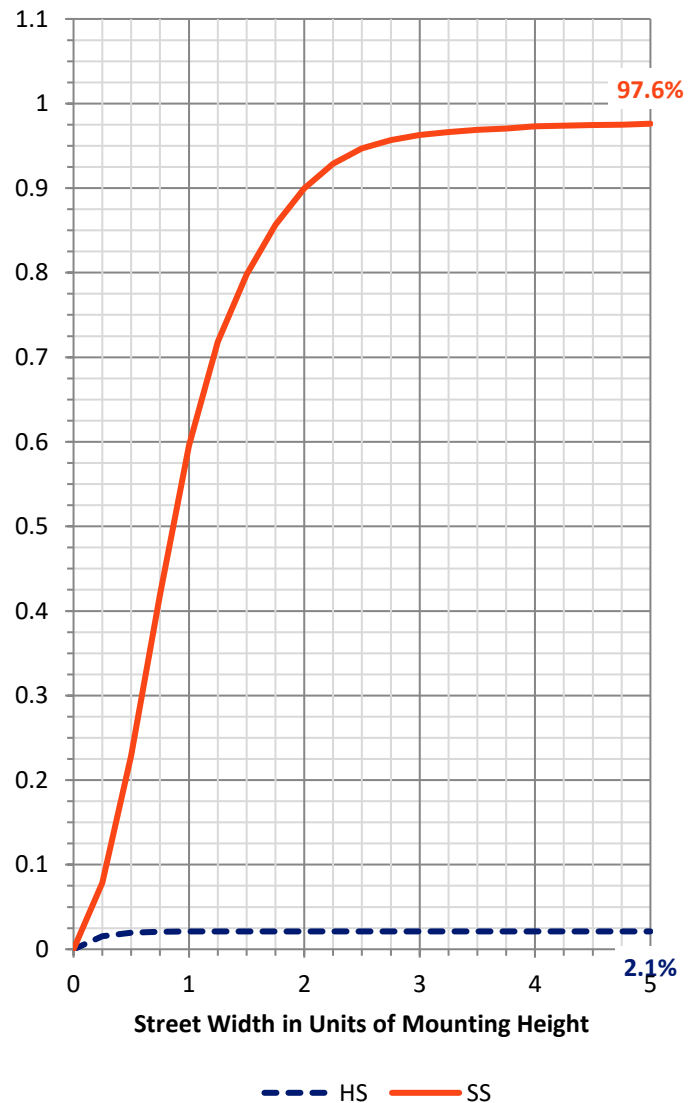
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	358.4	0.0	358.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	16522.4	0.0	16522.4
	% Fixture	97.9	0.0	97.9
Total	Lumens	16880.8	0.0	16880.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	0.4
10°-20°	277.6	1.6
20°-30°	563.8	3.3
30°-40°	1377.4	8.2
40°-50°	3080.4	18.2
50°-60°	4331.4	25.7
60°-70°	5093.4	30.2
70°-80°	1839.2	10.9
80°-90°	245.9	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°	16880.8	100.0
0°-180°	16880.8	100.0

Coefficient of Utilization



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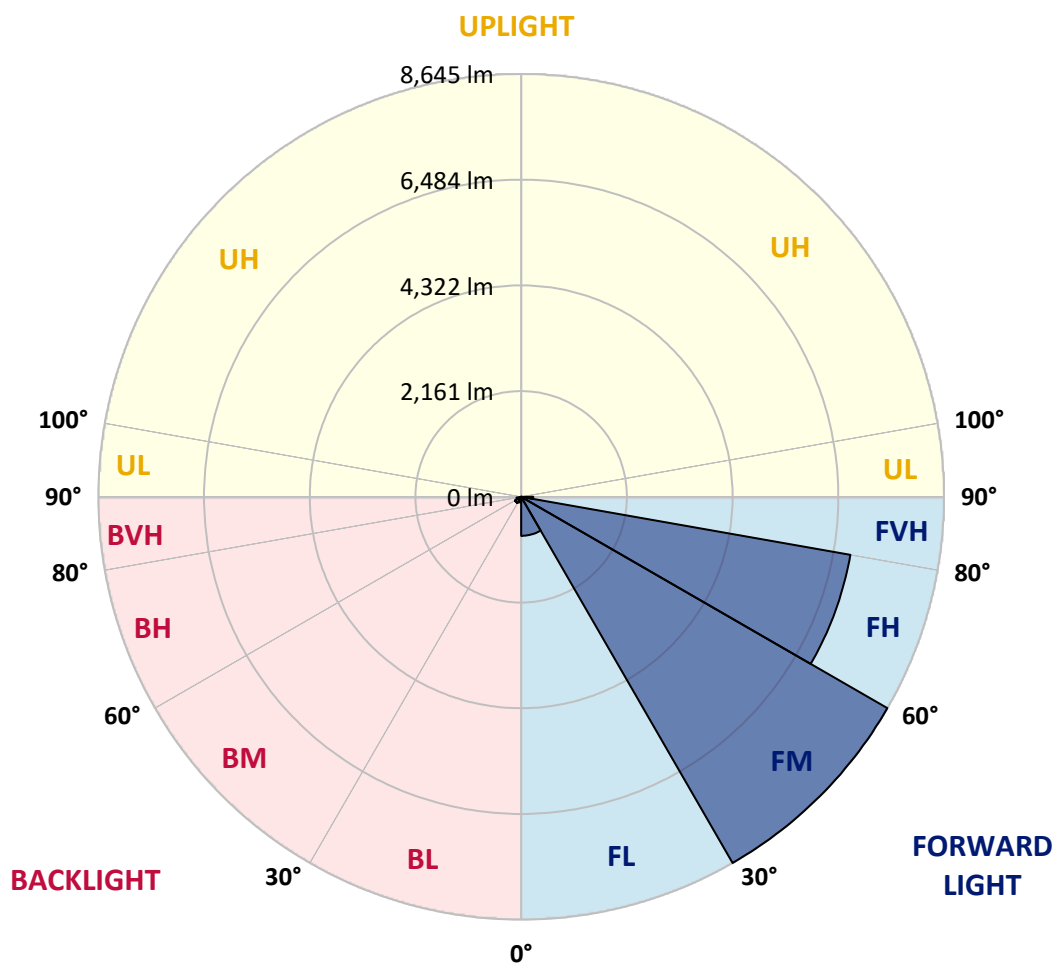
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	797.7	4.7			
FM	(30°-60°)	8644.9	51.2			
FH	(60°-80°)	6834.4	40.5			G3/7500
FVH	(80°-90°)	245.4	1.5			G3/500
BL	(0°-30°)	115.2	0.7	B1/500		
BM	(30°-60°)	144.4	0.9	B0/220		
BH	(60°-80°)	98.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6
2.5°	847.0	856.1	850.0	834.7	816.2	791.8	770.2	770.2	767.2	757.9	761.1
5°	1110.9	1114.0	1101.7	1064.8	1031.1	978.9	920.6	914.5	908.3	899.2	896.2
7.5°	1368.8	1380.9	1368.8	1328.7	1261.3	1181.5	1089.4	1080.3	1061.9	1061.9	1049.6
10°	1632.7	1632.7	1620.4	1574.3	1512.8	1399.4	1282.7	1267.4	1246.0	1239.8	1221.4
12.5°	1819.8	1819.8	1813.6	1789.2	1740.0	1638.8	1497.6	1482.3	1454.7	1445.4	1424.0
15°	1893.4	1893.4	1896.6	1918.0	1921.2	1875.1	1727.7	1715.4	1687.8	1663.2	1654.1
17.5°	1939.4	1936.4	1936.4	1967.2	2022.3	2053.1	1957.9	1945.6	1915.0	1902.7	1872.0
20°	2040.8	2034.6	2016.2	2016.2	2068.4	2175.7	2175.7	2172.7	2139.0	2129.7	2114.4
22.5°	2191.2	2185.0	2129.7	2083.7	2108.3	2243.4	2369.2	2363.0	2350.7	2338.4	2329.3
25°	2436.6	2415.2	2320.0	2185.0	2163.6	2307.8	2516.4	2531.8	2541.0	2541.0	2547.1
27.5°	2808.0	2780.4	2611.6	2360.0	2264.8	2412.0	2679.1	2709.8	2737.4	2743.5	2771.1
30°	3323.5	3274.5	3032.0	2663.8	2445.9	2565.6	2918.5	2952.3	2992.1	3004.4	3047.3
32.5°	4170.5	4142.9	3909.8	3357.2	2890.8	2866.4	3253.0	3295.9	3348.1	3369.5	3421.7
35°	5459.5	5465.7	5275.4	4778.2	4133.8	3796.1	3851.4	3888.1	3906.6	3971.1	3998.7
37.5°	6334.1	6349.4	6392.4	6196.0	5735.7	5391.9	4959.1	4999.2	4904.0	4913.1	4916.3
40°	6812.8	6861.8	7113.6	7303.9	7267.0	7067.6	6720.8	6742.2	6564.2	6524.3	6330.9
42.5°	7131.9	7196.3	7598.5	8187.6	8488.4	8669.5	8589.7	8580.4	8442.3	8390.1	8227.5
45°	7331.5	7389.8	7896.1	8764.5	9458.2	9985.9	10203.8	10228.4	10111.7	10059.5	9924.6
47.5°	7322.1	7389.8	7932.8	8979.4	10001.4	10845.2	11459.1	11489.6	11560.3	11514.2	11523.4
50°	6917.2	6981.7	7527.9	8614.1	9841.7	11238.1	12361.2	12459.4	12572.9	12649.7	12686.6
52.5°	6426.1	6472.2	6957.1	7988.2	9160.4	11075.4	12895.1	13064.0	13232.8	13377.1	13478.2
55°	6245.0	6297.2	6677.7	7534.0	8614.1	10394.0	13143.7	13392.3	13631.8	13868.1	14061.4
57.5°	6340.2	6389.2	6662.4	7319.2	8289.0	9676.0	13214.4	13601.1	13993.9	14377.4	14758.0
60°	6690.0	6742.2	6975.5	7518.6	8203.0	9261.7	12938.2	13579.6	14233.2	14902.2	15531.3
62.5°	6551.9	6573.4	6917.2	7868.5	8816.7	8908.8	11934.7	12830.8	13828.2	14859.3	15875.0
63°	6420.0	6444.6	6794.4	7773.3	9004.0	8856.6	11624.7	12569.9	13622.5	14733.4	15838.3
65°	5821.6	5824.6	6091.6	6865.0	8795.3	8948.7	10243.8	11146.0	12355.1	13687.0	15083.3
67.5°	4345.5	4324.0	4581.8	5171.0	6904.9	8951.8	8792.1	9298.6	10139.5	11321.0	12572.9
70°	1540.6	1506.9	1924.1	2740.4	4302.4	7322.1	7555.5	7589.2	7822.5	8460.8	9246.5
72.5°	500.2	509.5	613.7	1003.5	1982.5	4928.6	6840.4	6736.0	6674.7	6671.6	6775.9
75°	199.4	202.6	245.4	445.0	890.0	2375.3	5990.4	6048.6	6070.2	6100.8	6134.7
77.5°	95.0	104.4	138.1	248.6	441.9	1175.4	4287.1	4781.2	5063.5	5281.5	5413.5
80°	33.7	39.9	76.8	153.4	205.6	540.1	2258.6	2725.1	3139.4	3673.5	4133.8
82.5°	0.0	0.0	15.3	107.3	113.5	217.9	926.8	1086.3	1242.8	1611.1	2068.4
85°	0.0	0.0	0.0	30.7	33.7	36.9	313.1	377.6	423.6	494.0	570.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	9.1	18.4	46.0	70.6
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°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6
2.5°	754.9	751.9	751.9	745.8	742.6	736.5	733.5	724.2	721.2	721.2	721.2
5°	893.0	880.7	874.6	859.3	850.0	847.0	831.7	825.6	816.2	819.4	803.9
7.5°	1046.4	1025.0	1015.8	994.2	988.2	966.6	960.5	945.2	936.1	917.6	911.5
10°	1215.2	1187.7	1172.4	1138.5	1129.3	1114.0	1095.6	1077.1	1061.9	1043.4	1034.3
12.5°	1408.7	1384.1	1371.8	1325.7	1304.3	1282.7	1258.3	1233.7	1209.1	1193.8	1172.4
15°	1635.7	1595.8	1583.5	1540.6	1503.7	1476.1	1442.4	1411.7	1393.2	1362.6	1341.0
17.5°	1859.7	1819.8	1810.6	1746.2	1706.3	1687.8	1651.1	1611.1	1577.3	1546.8	1512.8
20°	2083.7	2056.1	2031.5	1970.2	1927.3	1896.6	1847.4	1807.5	1779.9	1737.0	1694.0
22.5°	2307.8	2280.1	2261.8	2197.3	2157.5	2114.4	2071.5	2028.5	1988.6	1936.4	1887.4
25°	2538.0	2519.5	2510.2	2452.1	2415.2	2375.3	2332.3	2283.2	2234.0	2175.7	2123.7
27.5°	2777.3	2783.4	2765.0	2752.7	2712.8	2685.2	2617.8	2584.0	2547.1	2476.5	2412.0
30°	3081.0	3099.5	3093.3	3102.7	3078.1	3059.6	3007.4	2964.6	2921.5	2854.1	2780.4
32.5°	3464.7	3489.3	3501.5	3535.4	3523.1	3516.9	3501.5	3440.1	3409.4	3292.9	3262.2
35°	4057.0	4044.7	4096.9	4124.4	4112.1	4106.2	4087.7	4054.0	4017.1	3934.2	3857.6
37.5°	4827.2	4839.5	4857.9	4802.8	4765.9	4762.9	4707.6	4673.8	4621.6	4529.6	4437.5
40°	6238.8	6162.3	6076.3	5843.0	5741.8	5683.5	5520.8	5474.8	5385.7	5259.9	5164.9
42.5°	8074.1	7997.3	7739.6	7349.9	7141.2	6852.7	6720.8	6558.1	6432.3	6226.7	6116.2
45°	9897.0	9676.0	9645.3	9191.1	8933.4	8552.8	8316.5	8043.3	7758.0	7488.0	7291.6
47.5°	11434.5	11385.3	11235.1	10958.7	10719.4	10400.2	10096.4	9676.0	9381.4	8997.9	8644.9
50°	12665.0	12662.0	12606.7	12447.1	12247.7	11990.0	11723.0	11367.0	11032.5	10562.9	10185.5
52.5°	13585.8	13634.8	13653.2	13604.0	13527.4	13300.3	13165.4	12867.6	12585.2	12186.2	11778.1
55°	14260.8	14441.9	14534.0	14638.3	14616.9	14537.1	14531.0	14337.5	14208.8	13892.5	13604.0
57.5°	15095.6	15393.2	15678.6	16185.1	16203.3	16381.5	16473.6	16565.6	16590.0	16464.2	16369.2
60°	16157.3	16765.0	17305.1	18364.0	18640.1	19075.8	19358.2	19665.1	19925.8	19947.4	19941.3
62.5°	16906.1	17842.2	18713.7	20284.9	20822.0	21325.3	21702.7	22000.5	22181.5	22365.6	22451.5
63°	16927.7	17952.7	18879.4	20499.8	21064.4	21543.2	21902.3	22178.5	22368.8	22479.1	22534.4
65°	16409.1	17651.9	18756.6	20370.8	20901.8	21383.7	21570.8	21751.9	21844.0	21886.8	21724.2
67.5°	13908.0	15123.2	16412.1	18216.5	18670.7	19247.7	19401.2	19493.3	19536.1	19527.0	19388.9
70°	10400.2	11419.2	12852.3	14914.5	15516.1	16080.7	16430.5	16580.9	16629.9	16614.6	16409.1
72.5°	7260.8	7859.2	9040.7	11336.3	12155.7	12879.9	13312.6	13536.6	13582.6	13490.5	13300.3
75°	6097.8	6128.5	6395.4	7650.5	8417.7	9191.1	9679.0	9820.2	9728.2	9448.8	8964.1
77.5°	5444.0	5511.7	5511.7	5698.8	5849.2	6064.0	6110.1	5766.2	5367.4	4851.8	4434.5
80°	4566.5	4802.8	4968.5	5106.5	5121.8	5079.0	4965.3	4772.0	4465.1	4072.3	3636.6
82.5°	2774.3	3240.7	3431.0	4142.9	4492.7	4729.0	4710.7	4452.8	4219.7	3811.6	3440.1
85°	699.8	754.9	819.4	1064.8	1193.8	1457.7	1623.4	1700.1	1727.7	1586.6	1436.3
87.5°	67.5	46.0	76.8	58.3	82.9	61.3	82.9	76.8	95.0	101.2	110.5
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°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6
2.5°	715.1	711.9	708.9	705.9	702.8	699.8	693.6	693.6	687.5	684.3	681.3
5°	794.8	788.7	785.7	779.5	770.2	764.1	754.9	742.6	733.5	730.3	724.2
7.5°	896.2	880.7	874.6	865.4	853.1	834.7	822.4	813.3	798.0	788.7	770.2
10°	1009.7	994.2	975.9	957.5	939.1	917.6	902.2	890.0	865.4	853.1	831.7
12.5°	1153.9	1126.3	1104.7	1080.3	1055.7	1031.1	1012.7	975.9	954.3	926.8	908.3
15°	1301.1	1276.5	1252.1	1221.4	1184.5	1144.6	1126.3	1092.4	1064.8	1022.0	997.4
17.5°	1479.1	1433.1	1396.4	1359.5	1325.7	1288.8	1252.1	1200.0	1160.1	1123.2	1074.2
20°	1654.1	1598.9	1558.9	1509.9	1460.8	1402.5	1359.5	1322.6	1267.4	1218.4	1166.2
22.5°	1841.2	1786.0	1721.6	1672.6	1605.1	1558.9	1500.7	1439.2	1384.1	1319.6	1255.1
25°	2068.4	2010.0	1936.4	1872.0	1795.2	1730.9	1660.3	1589.6	1522.2	1448.6	1365.6
27.5°	2347.7	2286.2	2206.5	2129.7	2028.5	1948.7	1881.3	1786.0	1700.1	1608.1	1512.8
30°	2700.5	2633.0	2534.8	2424.3	2323.1	2234.0	2139.0	2013.2	1918.0	1807.5	1684.9
32.5°	3161.0	3081.0	2949.1	2844.7	2718.9	2602.3	2470.3	2344.6	2209.6	2065.4	1924.1
35°	3740.9	3667.3	3513.8	3360.4	3222.3	3084.2	2918.5	2774.3	2584.0	2409.0	2227.9
37.5°	4342.5	4210.4	4069.3	3903.6	3731.6	3565.9	3363.4	3164.0	2946.1	2755.8	2528.7
40°	5029.8	4870.2	4753.6	4575.6	4333.2	4096.9	3909.8	3661.2	3388.0	3133.2	2866.4
42.5°	5972.0	5794.0	5585.3	5315.3	5140.3	4864.1	4621.6	4327.0	3967.9	3682.6	3360.4
45°	7061.4	6819.0	6616.4	6355.5	6143.8	5800.2	5517.8	5125.0	4765.9	4391.5	3998.7
47.5°	8304.2	8003.5	7708.8	7451.1	7113.6	6775.9	6417.0	5999.6	5539.3	5128.0	4661.5
50°	9731.2	9304.6	8896.5	8565.1	8101.7	7712.0	7322.1	6852.7	6343.2	5870.6	5339.7
52.5°	11317.8	10823.8	10283.7	9774.2	9237.1	8737.0	8267.3	7727.3	7159.6	6582.7	5990.4
55°	13232.8	12861.4	12226.3	11578.7	10860.5	10191.7	9586.9	8918.1	8227.5	7469.5	6846.6
57.5°	16231.1	16050.0	15519.0	14871.6	13935.6	13122.3	12097.3	11277.9	10277.6	9234.2	8430.0
60°	20294.2	20070.1	19772.4	19247.7	18505.0	17400.3	16271.0	14997.4	13475.3	12029.9	10658.1
62.5°	22460.8	22380.9	22138.6	21776.3	21082.9	20211.3	19072.9	17673.3	15954.9	14199.4	12450.3
63°	22525.1	22423.9	22215.2	21847.0	21236.3	20392.4	19275.2	17915.8	16234.1	14445.1	12658.8
65°	21653.7	21613.8	21401.9	21000.0	20582.7	19938.1	19072.9	17903.5	16491.8	14801.0	13024.1
67.5°	19204.8	19085.0	18759.8	18637.0	18345.5	17897.3	17237.6	16433.5	15424.0	14095.1	12560.6
70°	16243.2	16065.2	15657.1	15439.3	15083.3	14801.0	14399.0	13825.1	13202.1	12275.3	11130.7
72.5°	13103.9	12735.6	12361.2	11793.6	11296.4	10793.0	10348.0	9943.1	9258.6	8884.2	8015.8
75°	8509.8	7840.8	7199.5	6340.2	5566.8	4882.5	4216.5	3879.0	3176.3	2890.8	2482.6
77.5°	4038.5	3664.1	3161.0	2771.1	2273.9	1856.7	1516.0	1138.5	893.0	699.8	533.9
80°	3259.0	2942.9	2639.2	2286.2	1911.8	1525.1	1169.2	874.6	619.8	429.6	303.8
82.5°	2906.2	2562.4	2188.0	1945.6	1691.0	1384.1	1135.5	926.8	684.3	500.2	340.7
85°	1129.3	951.4	733.5	598.4	466.5	383.5	346.8	239.3	187.3	147.2	113.5
87.5°	98.2	79.8	64.5	43.0	46.0	24.6	27.6	18.4	15.3	15.3	12.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6
2.5°	678.2	675.2	672.0	665.9	665.9	659.9	656.7	653.7	638.3	604.5	577.0
5°	711.9	705.9	699.8	690.5	684.3	675.2	669.0	659.9	626.0	561.7	506.3
7.5°	761.1	748.8	739.6	721.2	711.9	699.8	690.5	675.2	619.8	521.6	445.0
10°	819.4	798.0	782.5	761.1	742.6	727.3	711.9	690.5	613.7	478.8	389.7
12.5°	890.0	865.4	834.7	810.1	785.7	764.1	742.6	715.1	604.5	441.9	346.8
15°	960.5	923.8	902.2	868.4	834.7	803.9	773.4	748.8	607.7	402.0	309.9
17.5°	1040.2	1003.5	957.5	920.6	883.9	844.0	807.1	757.9	592.2	371.4	282.3
20°	1117.0	1064.8	1022.0	975.9	923.8	874.6	828.5	785.7	579.9	340.7	257.7
22.5°	1200.0	1138.5	1083.3	1025.0	960.5	905.3	850.0	794.8	558.5	313.1	236.3
25°	1301.1	1230.5	1150.8	1080.3	1012.7	945.2	874.6	807.1	537.1	288.5	221.0
27.5°	1424.0	1331.9	1252.1	1163.1	1068.0	982.1	905.3	831.7	515.6	270.0	205.6
30°	1580.5	1473.0	1359.5	1246.0	1144.6	1046.4	939.1	847.0	494.0	251.6	190.3
32.5°	1789.2	1654.1	1516.0	1384.1	1249.0	1123.2	1009.7	890.0	481.7	236.3	175.0
35°	2065.4	1890.4	1721.6	1555.9	1393.2	1239.8	1092.4	957.5	481.7	217.9	156.5
37.5°	2326.1	2123.7	1908.9	1703.1	1509.9	1331.9	1156.9	994.2	457.3	202.6	141.3
40°	2608.4	2366.0	2114.4	1872.0	1638.8	1417.8	1218.4	1031.1	435.7	184.1	125.8
42.5°	3041.2	2734.4	2406.1	2123.7	1844.4	1571.2	1322.6	1101.7	408.1	165.7	110.5
45°	3609.0	3219.1	2832.6	2488.8	2132.9	1798.3	1503.7	1230.5	402.0	150.4	95.0
47.5°	4216.5	3756.2	3302.1	2863.2	2445.9	2056.1	1703.1	1374.8	402.0	135.1	82.9
50°	4821.0	4244.3	3759.4	3249.9	2780.4	2320.0	1899.5	1525.1	405.1	122.8	67.5
52.5°	5367.4	4750.6	4207.4	3618.1	3099.5	2565.6	2108.3	1672.6	399.0	107.3	55.2
55°	6125.4	5401.2	4772.0	4121.5	3513.8	2912.4	2393.8	1893.4	402.0	95.0	46.0
57.5°	7521.7	6671.6	5913.7	5060.5	4360.7	3584.4	2955.2	2347.7	438.9	79.8	33.7
60°	9525.6	8420.9	7356.1	6315.6	5425.8	4502.0	3685.6	2970.7	515.6	64.5	24.6
62.5°	10872.8	9427.4	8157.0	7009.2	5975.0	5008.3	4118.3	3305.0	567.6	52.2	15.3
63°	11010.9	9516.5	8239.8	7055.3	5999.6	5032.9	4136.7	3329.6	570.8	49.0	15.3
65°	11271.8	9669.9	8285.8	7064.4	5975.0	4999.2	4124.4	3326.7	577.0	39.9	12.3
67.5°	10974.2	9433.6	8018.9	6800.5	5760.1	4799.6	3971.1	3203.8	573.8	27.6	9.1
70°	9814.1	8537.6	7294.6	6159.1	5213.9	4345.5	3615.1	2921.5	527.8	18.4	6.1
72.5°	7205.7	6337.1	5373.6	4554.2	3928.0	3262.2	2783.4	2194.2	408.1	12.3	3.0
75°	2135.8	1945.6	1635.7	1442.4	1273.6	1052.5	936.1	730.3	208.7	6.1	0.0
77.5°	426.6	386.7	346.8	316.1	297.6	254.7	242.4	199.4	85.9	3.0	0.0
80°	224.0	184.1	156.5	138.1	119.6	98.2	82.9	67.5	15.3	0.0	0.0
82.5°	214.9	144.2	104.4	85.9	73.6	58.3	46.0	33.7	9.1	0.0	0.0
85°	79.8	61.3	46.0	36.9	30.7	27.6	21.4	18.4	0.0	0.0	0.0
87.5°	12.3	9.1	9.1	6.1	6.1	3.0	3.0	3.0	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-F11-LED-E-U-SL2-HSS-7060

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	647.6	647.6	647.6	647.6	647.6	647.6	647.6
2.5°	549.4	524.8	512.5	497.2	497.2	494.0	500.2
5°	457.3	423.6	399.0	380.5	383.5	374.4	377.6
7.5°	386.7	353.0	331.3	319.2	316.1	313.1	313.1
10°	334.5	303.8	285.3	276.2	273.2	273.2	273.2
12.5°	297.6	267.0	251.6	245.4	245.4	242.4	242.4
15°	267.0	242.4	227.2	221.0	221.0	217.9	221.0
17.5°	242.4	217.9	205.6	199.4	199.4	196.4	196.4
20°	221.0	199.4	187.3	178.0	178.0	175.0	178.0
22.5°	202.6	181.1	165.7	159.5	156.5	153.4	156.5
25°	184.1	162.7	147.2	138.1	135.1	135.1	131.9
27.5°	168.8	147.2	129.0	119.6	116.7	116.7	113.5
30°	153.4	129.0	110.5	101.2	98.2	98.2	98.2
32.5°	138.1	110.5	95.0	85.9	82.9	82.9	82.9
35°	122.8	95.0	79.8	70.6	67.5	67.5	67.5
37.5°	104.4	79.8	61.3	55.2	52.2	49.0	49.0
40°	89.1	61.3	46.0	39.9	33.7	33.7	33.7
42.5°	73.6	49.0	33.7	24.6	21.4	18.4	21.4
45°	61.3	36.9	21.4	12.3	9.1	9.1	9.1
47.5°	49.0	24.6	9.1	3.0	3.0	3.0	3.0
50°	36.9	15.3	3.0	0.0	0.0	3.0	3.0
52.5°	27.6	9.1	0.0	0.0	0.0	0.0	0.0
55°	15.3	3.0	0.0	0.0	0.0	0.0	0.0
57.5°	9.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	6.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
63°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3.0	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)