

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: P165321

Luminaire Tested: **VST-F10-LED-E-U-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165321
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F10-LED-E-U-SL3-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (70) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12916.7 lumens
Efficiency: N/A
Efficacy: 49.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

Input Watts (W): 258.7
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



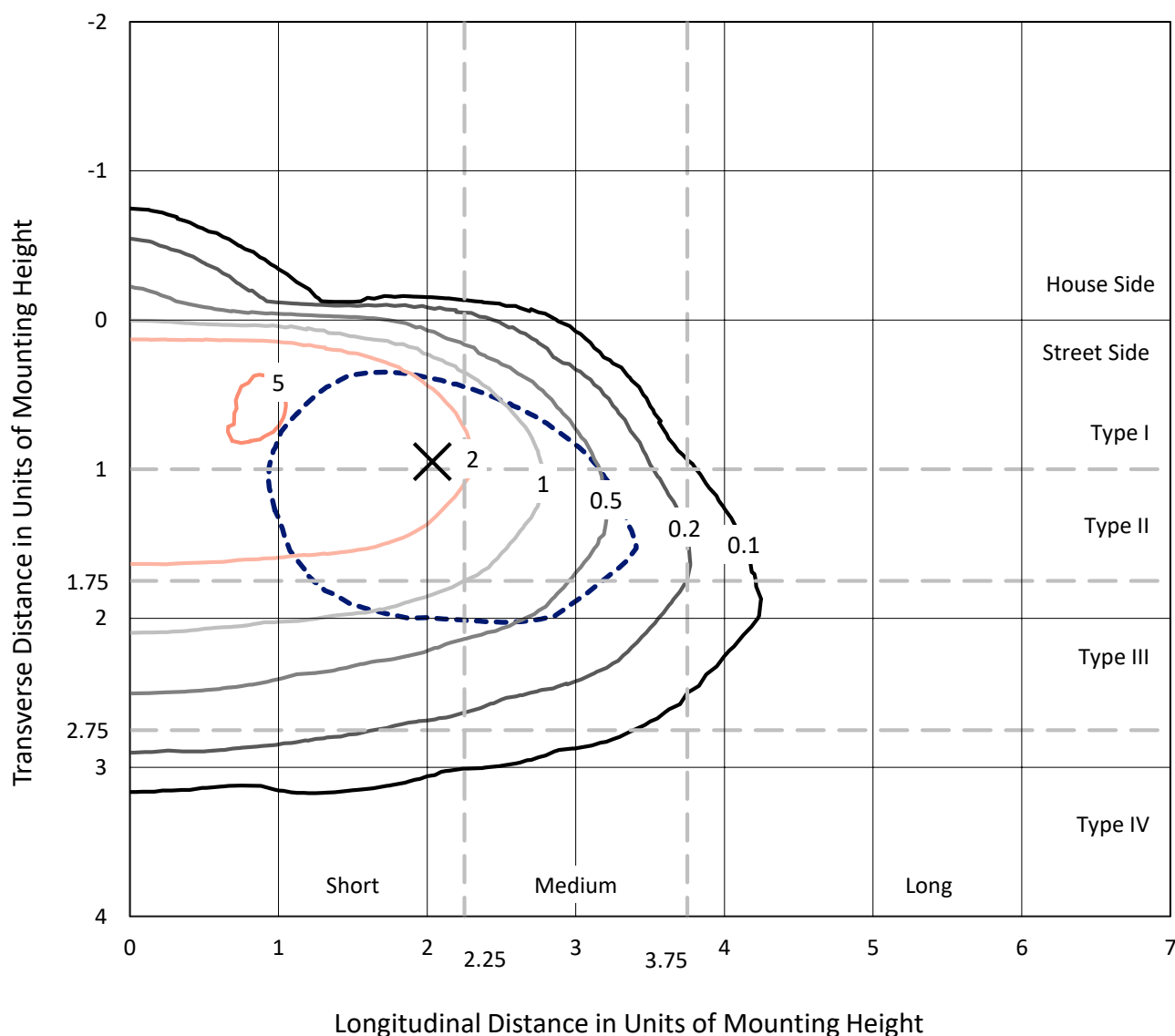
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

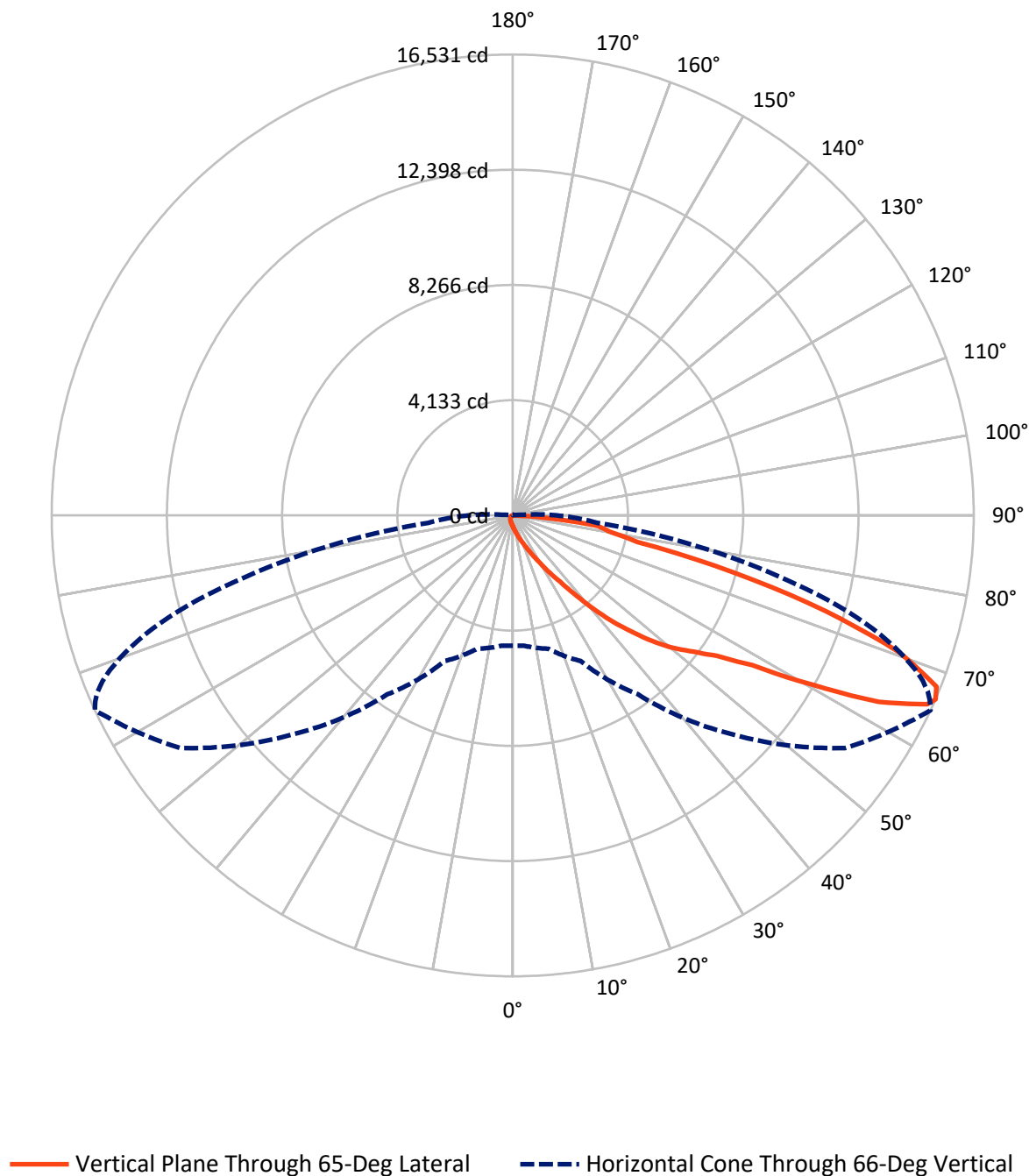


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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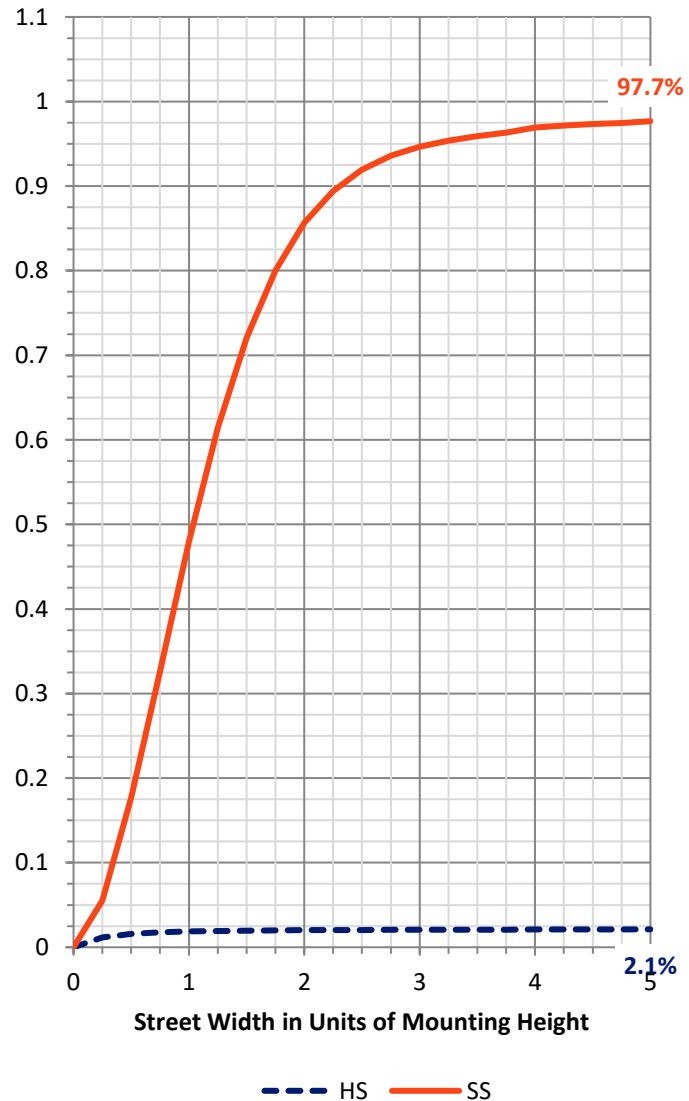
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	279.9	0.0	279.9
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	12636.8	0.0	12636.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	12916.7	0.0	12916.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	0.3
10°-20°	185.1	1.4
20°-30°	399.1	3.1
30°-40°	852.4	6.6
40°-50°	1885.0	14.6
50°-60°	3194.5	24.7
60°-70°	4262.8	33.0
70°-80°	1877.7	14.5
80°-90°	216.3	1.7
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°	12916.7	100.0
0°-180°	12916.7	100.0

Coefficient of Utilization



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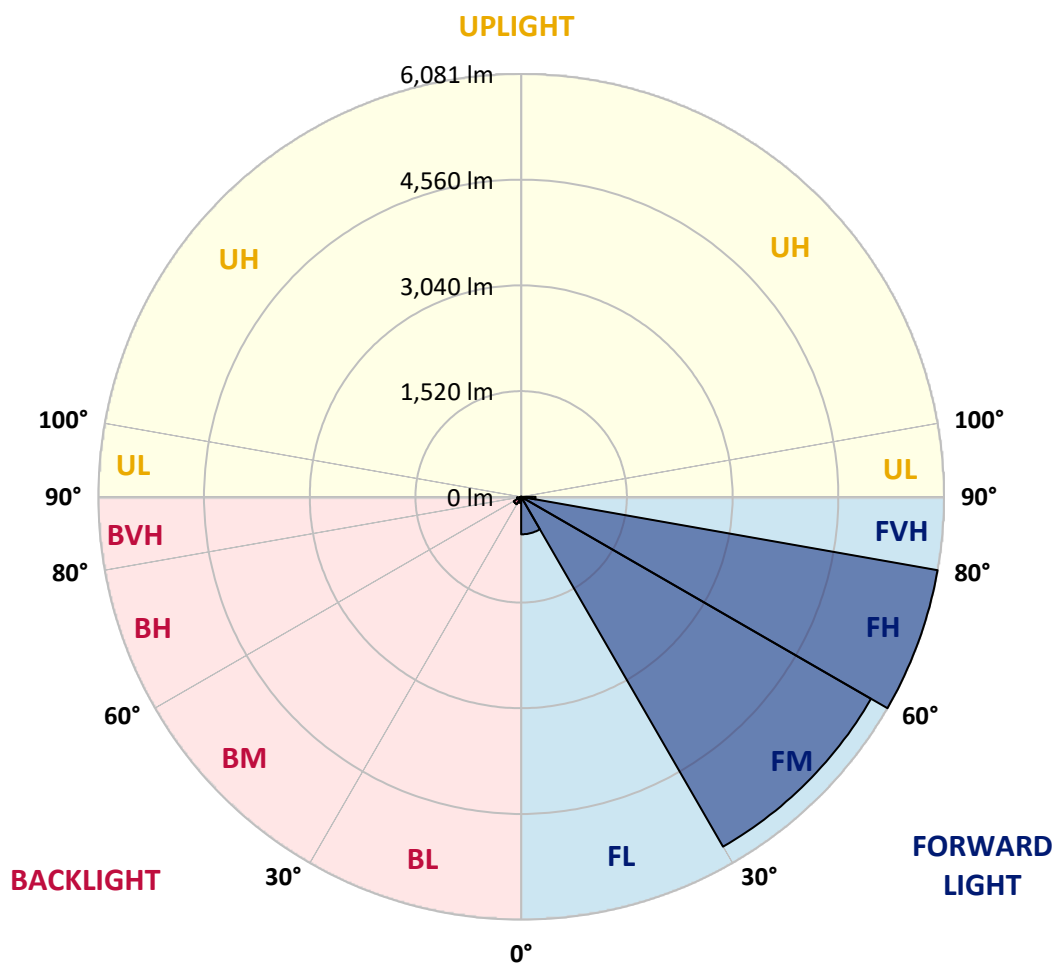
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.5	4.2			
FM	(30°-60°)	5809.0	45.0			
FH	(60°-80°)	6080.5	47.1			G3/7500
FVH	(80°-90°)	207.7	1.6			G2/225
BL	(0°-30°)	88.3	0.7	B0/110		
BM	(30°-60°)	122.9	1.0	B0/220		
BH	(60°-80°)	60.0	0.5	B0/110		G0/110
BVH	(80°-90°)	8.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8
2.5°	491.8	489.2	479.2	479.2	464.3	454.5	442.0	429.6	429.6	427.1	424.6
5°	650.5	635.8	633.2	605.9	583.6	551.3	521.5	481.8	476.8	471.8	469.3
7.5°	827.0	824.4	802.1	769.8	725.2	665.5	605.9	541.4	531.4	526.4	516.5
10°	1055.4	1042.9	1013.2	958.5	891.5	812.1	715.2	613.3	600.9	591.0	586.0
12.5°	1273.9	1251.6	1234.1	1164.6	1080.2	963.5	846.7	700.3	690.4	678.0	658.1
15°	1477.5	1457.6	1427.9	1368.3	1273.9	1127.4	990.9	812.1	787.2	769.8	754.9
17.5°	1636.5	1624.1	1589.3	1522.3	1420.4	1291.3	1127.4	926.2	906.5	884.0	856.7
20°	1788.0	1770.5	1715.9	1624.1	1514.8	1415.4	1288.9	1075.2	1047.9	1020.6	990.9
22.5°	1932.0	1914.5	1825.3	1673.7	1557.0	1514.8	1470.1	1244.1	1201.9	1179.5	1149.7
25°	2133.2	2096.0	1956.8	1715.9	1559.6	1591.8	1668.7	1462.6	1422.9	1390.7	1343.5
27.5°	2403.9	2354.1	2135.6	1778.1	1569.4	1676.3	1897.2	1728.3	1686.1	1648.8	1596.8
30°	2709.2	2677.0	2416.2	1927.1	1641.4	1800.4	2153.0	2066.1	2016.5	1971.7	1909.7
32.5°	3017.2	2972.5	2714.2	2210.1	1835.1	2041.2	2473.4	2458.5	2393.9	2351.7	2284.6
35°	3287.9	3265.5	3074.3	2674.4	2277.2	2463.4	2900.5	2917.8	2860.8	2816.0	2741.5
37.5°	3471.7	3471.7	3434.4	3173.6	2979.9	3119.0	3528.7	3531.3	3474.1	3372.3	3335.1
40°	3565.9	3593.2	3727.4	3777.1	3767.1	3945.9	4353.3	4308.5	4261.3	4209.1	4085.0
42.5°	3759.7	3784.4	4070.1	4412.8	4636.3	4872.2	5152.8	5137.9	5080.9	4986.5	4872.2
45°	4087.5	4119.8	4460.0	5003.8	5463.1	5798.5	5977.2	5907.7	5850.5	5761.3	5701.5
47.5°	4504.7	4566.8	4951.6	5624.6	6178.4	6732.1	6918.3	6734.7	6685.1	6615.4	6518.6
50°	4949.2	5008.8	5418.5	6188.3	6814.1	7474.6	7785.1	7474.6	7402.7	7380.2	7271.1
52.5°	5334.1	5383.8	5778.6	6622.9	7300.8	8075.6	8527.5	8117.8	8065.6	7991.1	7911.7
55°	5562.5	5602.3	5972.2	6831.5	7631.2	8616.9	9245.3	8885.2	8808.2	8778.4	8664.1
57.5°	5639.6	5679.2	6012.0	6858.8	7809.9	9111.1	10116.9	10129.3	10037.5	9930.7	9895.9
60°	5639.6	5684.2	5964.8	6791.8	7983.7	9637.5	11279.0	12314.5	12115.9	12096.0	11969.3
62.5°	5406.1	5448.4	5731.4	6585.7	8217.2	10347.8	12898.1	14725.8	14668.8	14539.6	14331.0
65°	4899.4	4924.3	5202.4	6059.2	8127.7	11000.9	14301.1	16330.0	16238.2	15984.8	15716.7
66°	4671.0	4690.9	4951.6	5758.7	7834.7	11090.3	14549.5	16531.2	16379.8	16166.1	15863.1
67.5°	4340.7	4375.6	4559.2	5200.0	7132.0	10779.8	14393.1	16389.7	16258.1	15999.7	15696.8
70°	2898.0	2873.2	3521.3	3990.6	5433.4	8783.4	12913.0	14715.8	14718.4	14596.7	14475.0
72.5°	1375.7	1390.7	1579.3	2455.9	3556.0	5868.0	10278.3	11745.9	11914.8	11696.2	11544.7
75°	988.3	1010.7	1125.0	1502.4	2120.7	3521.3	6662.6	8214.6	8219.6	7832.2	7487.2
77.5°	288.0	300.5	422.1	926.2	1589.3	2376.4	3826.7	4566.8	4460.0	4181.8	3921.1
80°	119.1	119.1	124.1	295.6	638.2	1614.1	2677.0	3516.3	3504.0	3397.2	3243.2
82.5°	44.6	47.2	59.6	121.7	151.6	397.4	1785.5	3052.0	3044.5	2893.1	2783.7
85°	5.0	5.0	14.9	52.2	57.2	74.5	357.5	1345.9	1338.5	1345.9	1179.5
87.5°	0.0	0.0	2.4	5.0	7.4	10.0	14.9	52.2	57.2	54.6	49.6
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8
2.5°	424.6	419.7	419.7	417.3	417.3	417.3	414.7	412.3	412.3	409.7	407.3
5°	464.3	459.3	456.9	451.9	449.5	447.0	442.0	439.6	434.6	432.0	429.6
7.5°	511.5	501.6	499.1	491.8	484.2	479.2	474.3	466.9	461.9	451.9	449.5
10°	571.2	558.7	548.8	538.8	531.4	519.0	511.5	501.6	491.8	484.2	476.8
12.5°	648.1	630.8	615.9	605.9	588.6	573.6	558.7	551.3	531.4	521.5	509.1
15°	732.6	712.7	695.3	675.4	663.1	638.2	618.3	596.0	586.0	568.7	548.8
17.5°	841.8	809.5	782.2	762.4	737.6	712.7	690.4	668.0	638.2	618.3	593.5
20°	958.5	931.2	893.9	859.3	829.4	799.7	767.3	737.6	710.3	678.0	648.1
22.5°	1107.6	1067.8	1023.2	988.3	948.7	916.4	871.6	832.0	787.2	744.9	710.3
25°	1296.3	1244.1	1201.9	1152.3	1105.1	1055.4	1000.7	951.1	893.9	854.3	794.7
27.5°	1529.7	1480.1	1422.9	1358.4	1311.2	1236.7	1164.6	1102.6	1035.5	973.4	906.5
30°	1827.7	1755.7	1696.0	1634.1	1539.7	1467.6	1383.1	1298.8	1206.8	1144.9	1042.9
32.5°	2185.2	2108.3	2018.9	1929.5	1842.6	1740.8	1636.5	1532.1	1430.3	1316.2	1211.8
35°	2622.4	2530.4	2428.6	2331.8	2197.7	2088.4	1956.8	1812.8	1698.6	1566.9	1435.3
37.5°	3201.0	3049.5	2960.0	2858.2	2677.0	2528.0	2381.4	2237.4	2036.2	1897.2	1711.0
40°	3926.0	3836.6	3690.2	3526.3	3362.4	3166.2	2967.6	2776.4	2542.9	2349.1	2133.2
42.5°	4777.8	4646.3	4497.3	4261.3	4094.9	3863.9	3638.0	3384.7	3099.1	2850.8	2597.5
45°	5577.4	5421.1	5306.8	5070.9	4897.0	4623.8	4350.7	4082.6	3752.2	3431.9	3138.9
47.5°	6441.7	6312.4	6123.8	5932.6	5756.3	5448.4	5152.8	4827.5	4479.8	4099.9	3719.9
50°	7201.5	7099.8	6970.5	6739.6	6543.5	6285.1	5937.5	5582.4	5142.8	4765.4	4333.4
52.5°	7847.1	7767.6	7586.4	7422.5	7246.2	7002.8	6692.4	6352.2	5878.0	5463.1	4971.5
55°	8609.5	8552.4	8393.5	8291.7	8135.3	7901.9	7611.3	7295.9	6794.2	6342.3	5786.0
57.5°	9858.6	9814.0	9674.8	9632.6	9478.6	9275.0	8917.5	8579.7	7993.7	7432.4	6796.8
60°	11927.1	11837.8	11634.1	11529.9	11204.5	10931.4	10467.1	10002.6	9294.9	8579.7	7814.8
62.5°	14142.2	13891.4	13504.0	13171.4	12709.5	12235.1	11614.2	10904.1	10074.7	9225.4	8346.3
65°	15336.7	14909.6	14420.4	13891.4	13293.1	12595.2	11813.0	10961.3	10069.7	9173.2	8244.5
66°	15473.3	14991.5	14472.6	13884.0	13218.6	12476.0	11681.3	10787.4	9861.0	8987.0	8058.2
67.5°	15302.0	14797.9	14249.1	13596.0	12875.8	12106.0	11271.6	10342.8	9451.3	8564.8	7660.9
70°	14102.5	13600.8	13111.6	12423.9	11656.4	10881.8	10092.1	9054.1	8209.8	7395.2	6590.7
72.5°	11261.6	10921.4	10437.2	9848.7	9101.2	8192.3	7534.2	6605.6	5873.0	5083.3	4460.0
75°	7037.6	6558.4	5959.9	5209.9	4638.7	3901.2	3516.3	2811.0	2393.9	2028.8	1676.3
77.5°	3598.2	3238.3	2818.6	2396.3	1991.6	1589.3	1229.2	869.2	586.0	407.3	303.0
80°	2972.5	2654.7	2306.9	1922.1	1564.5	1214.4	874.2	596.0	380.0	248.4	193.6
82.5°	2455.9	2187.8	1877.3	1519.7	1209.4	953.7	663.1	432.0	268.1	173.9	136.6
85°	1045.5	948.7	732.6	581.0	437.0	322.9	226.0	151.6	106.8	86.9	79.5
87.5°	44.6	49.6	47.2	37.2	27.3	27.3	24.9	19.9	19.9	19.9	19.9
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8
2.5°	407.3	404.7	402.3	402.3	399.8	397.4	382.4	370.1	355.1	345.2	335.2
5°	424.6	422.1	417.3	414.7	409.7	407.3	375.0	347.6	325.3	307.9	295.6
7.5°	442.0	439.6	432.0	424.6	422.1	417.3	365.1	330.2	300.5	280.6	268.1
10°	464.3	456.9	449.5	439.6	432.0	424.6	355.1	310.3	278.1	260.7	248.4
12.5°	496.6	484.2	471.8	459.3	449.5	437.0	350.2	293.0	260.7	240.8	228.5
15°	534.0	516.5	501.6	486.8	469.3	456.9	340.2	278.1	245.8	226.0	211.1
17.5°	568.7	548.8	526.4	504.1	486.8	469.3	330.2	263.3	230.9	211.1	196.2
20°	618.3	588.6	561.3	534.0	509.1	486.8	315.3	248.4	218.5	196.2	181.3
22.5°	673.0	638.2	603.5	566.2	534.0	504.1	303.0	235.8	206.1	183.8	166.3
25°	742.5	700.3	653.1	605.9	568.7	529.0	290.6	223.5	193.6	171.3	154.0
27.5°	839.3	779.8	727.6	668.0	610.9	566.2	280.6	213.5	181.3	158.9	141.6
30°	971.0	884.0	802.1	737.6	670.5	605.9	270.7	201.2	171.3	146.6	126.7
32.5°	1117.4	1015.6	921.2	824.4	740.0	665.5	260.7	191.2	158.9	134.1	116.7
35°	1298.8	1169.6	1042.9	931.2	829.4	730.0	250.8	181.3	149.0	121.7	104.4
37.5°	1559.6	1398.1	1231.7	1087.7	956.1	824.4	243.4	171.3	136.6	109.3	91.8
40°	1917.1	1708.5	1504.8	1308.6	1137.3	973.4	233.4	161.4	126.7	99.4	81.9
42.5°	2304.5	2051.2	1783.0	1562.0	1326.1	1120.0	223.5	151.6	116.7	89.4	72.1
45°	2786.3	2470.8	2145.6	1845.0	1557.0	1291.3	213.5	141.6	104.4	79.5	62.1
47.5°	3312.7	2910.4	2542.9	2165.5	1822.7	1504.8	201.2	134.1	94.4	69.5	54.6
50°	3854.1	3429.5	2965.0	2535.4	2128.2	1718.5	188.8	121.7	84.4	62.1	44.6
52.5°	4437.6	3936.0	3461.7	2927.8	2453.5	1999.0	176.3	111.7	76.9	54.6	37.2
55°	5180.1	4619.0	4062.7	3464.1	2893.1	2324.4	163.9	99.4	67.1	47.2	29.9
57.5°	6113.8	5448.4	4765.4	4090.0	3397.2	2751.5	154.0	86.9	57.2	39.7	24.9
60°	6995.4	6218.2	5391.2	4614.0	3831.6	3079.3	139.0	76.9	49.6	32.3	24.9
62.5°	7452.3	6565.8	5674.3	4817.6	3983.2	3196.0	124.1	64.5	42.2	27.3	22.3
65°	7340.6	6436.7	5572.5	4708.2	3891.4	3121.5	109.3	57.2	37.2	24.9	22.3
66°	7179.2	6285.1	5416.1	4594.1	3814.3	3042.1	101.8	54.6	34.8	24.9	19.9
67.5°	6826.5	5962.3	5132.9	4368.0	3603.2	2890.5	91.8	49.6	32.3	22.3	19.9
70°	5830.8	5046.0	4383.0	3702.6	3079.3	2436.2	74.5	42.2	27.3	19.9	19.9
72.5°	3858.9	3325.1	2883.1	2480.8	2073.5	1609.2	62.1	34.8	22.3	19.9	17.3
75°	1455.2	1316.2	1129.9	1015.6	886.5	777.2	49.6	22.3	17.3	17.3	17.3
77.5°	258.3	238.4	211.1	193.6	178.8	163.9	39.7	14.9	14.9	17.3	17.3
80°	173.9	161.4	146.6	134.1	124.1	111.7	27.3	12.4	14.9	14.9	17.3
82.5°	124.1	116.7	109.3	99.4	91.8	81.9	17.3	12.4	14.9	14.9	14.9
85°	74.5	69.5	64.5	59.6	52.2	49.6	12.4	12.4	12.4	14.9	14.9
87.5°	19.9	17.3	19.9	19.9	14.9	17.3	10.0	10.0	10.0	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P165321

CATALOG NUMBER: VST-F10-LED-E-U-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	389.8	389.8	389.8	389.8	389.8
2.5°	330.2	330.2	325.3	332.8	332.8
5°	285.6	285.6	283.0	285.6	285.6
7.5°	260.7	258.3	258.3	258.3	260.7
10°	238.4	235.8	235.8	235.8	235.8
12.5°	218.5	216.1	213.5	216.1	216.1
15°	201.2	196.2	196.2	196.2	196.2
17.5°	186.2	181.3	178.8	178.8	178.8
20°	171.3	163.9	163.9	163.9	163.9
22.5°	156.4	149.0	149.0	149.0	149.0
25°	141.6	134.1	134.1	134.1	134.1
27.5°	129.1	121.7	121.7	121.7	121.7
30°	114.3	109.3	109.3	111.7	109.3
32.5°	104.4	96.8	96.8	99.4	99.4
35°	91.8	86.9	86.9	86.9	86.9
37.5°	79.5	74.5	74.5	74.5	74.5
40°	69.5	64.5	62.1	64.5	64.5
42.5°	59.6	54.6	52.2	52.2	52.2
45°	52.2	44.6	42.2	44.6	44.6
47.5°	42.2	37.2	37.2	39.7	39.7
50°	32.3	32.3	34.8	39.7	39.7
52.5°	29.9	29.9	34.8	39.7	39.7
55°	27.3	29.9	34.8	37.2	39.7
57.5°	24.9	29.9	34.8	37.2	37.2
60°	24.9	27.3	32.3	37.2	37.2
62.5°	22.3	24.9	29.9	34.8	34.8
65°	22.3	24.9	29.9	34.8	34.8
66°	22.3	24.9	29.9	34.8	34.8
67.5°	22.3	24.9	29.9	34.8	34.8
70°	22.3	24.9	29.9	32.3	32.3
72.5°	19.9	22.3	27.3	32.3	32.3
75°	19.9	22.3	27.3	32.3	32.3
77.5°	19.9	22.3	27.3	32.3	32.3
80°	19.9	22.3	27.3	29.9	32.3
82.5°	17.3	22.3	24.9	29.9	29.9
85°	17.3	19.9	24.9	27.3	29.9
87.5°	14.9	17.3	19.9	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)