

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: P165253

Luminaire Tested: **VST-F03-LED-E-U-SL3-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165253
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-F03-LED-E-U-SL3-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4353.4 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 78.3
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

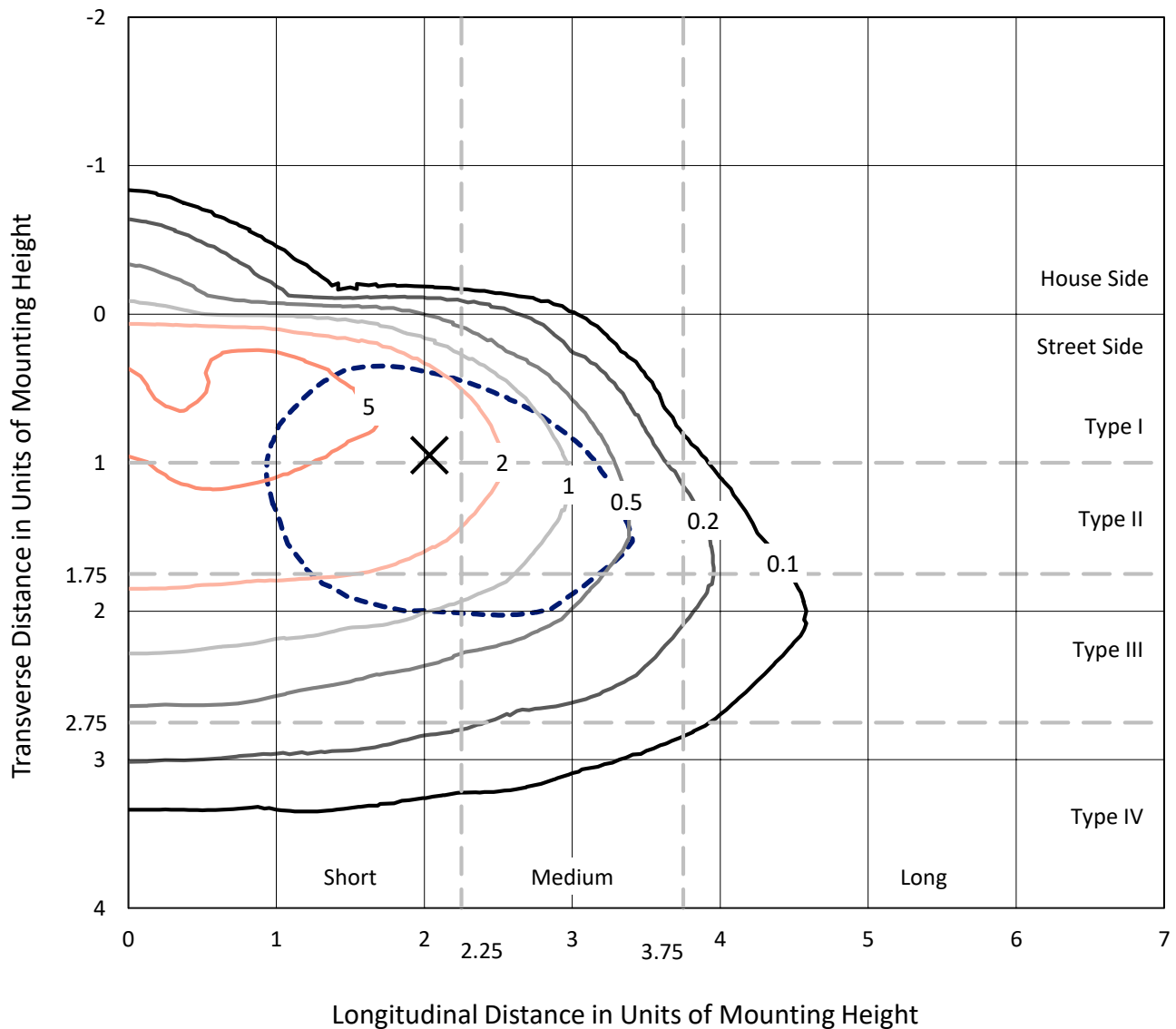


REPORT NUMBER: P165253

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

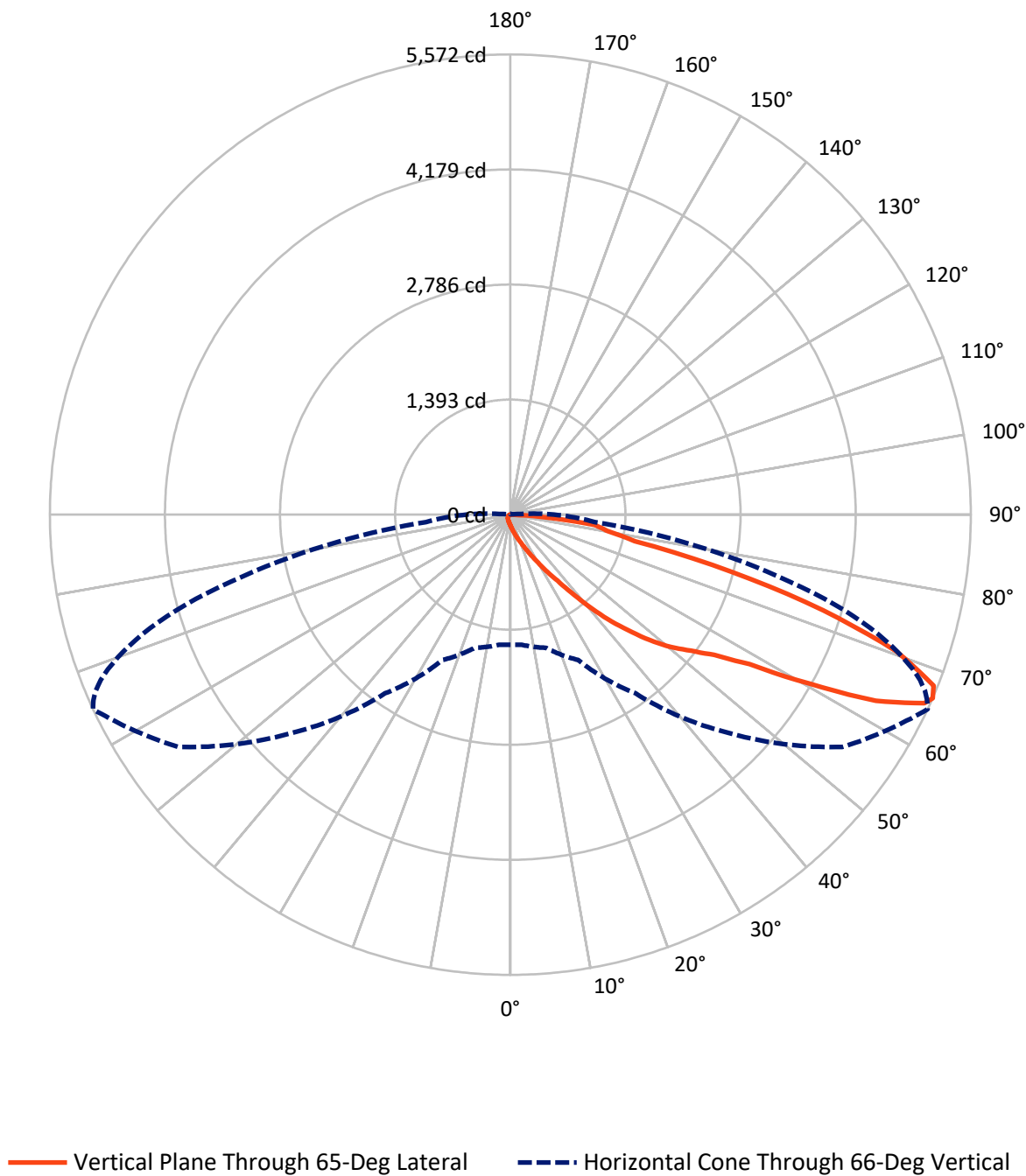


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P165253

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P165253

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	94.3	0.0	94.3
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4259.0	0.0	4259.0
	% Fixture	97.8	0.0	97.8
Total	Lumens	4353.4	0.0	4353.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	0.3
10°-20°	62.4	1.4
20°-30°	134.5	3.1
30°-40°	287.3	6.6
40°-50°	635.3	14.6
50°-60°	1076.7	24.7
60°-70°	1436.7	33.0
70°-80°	632.9	14.5
80°-90°	72.9	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°	4353.4	100.0
0°-180°	4353.4	100.0

Coefficient of Utilization



REPORT NUMBER: P165253

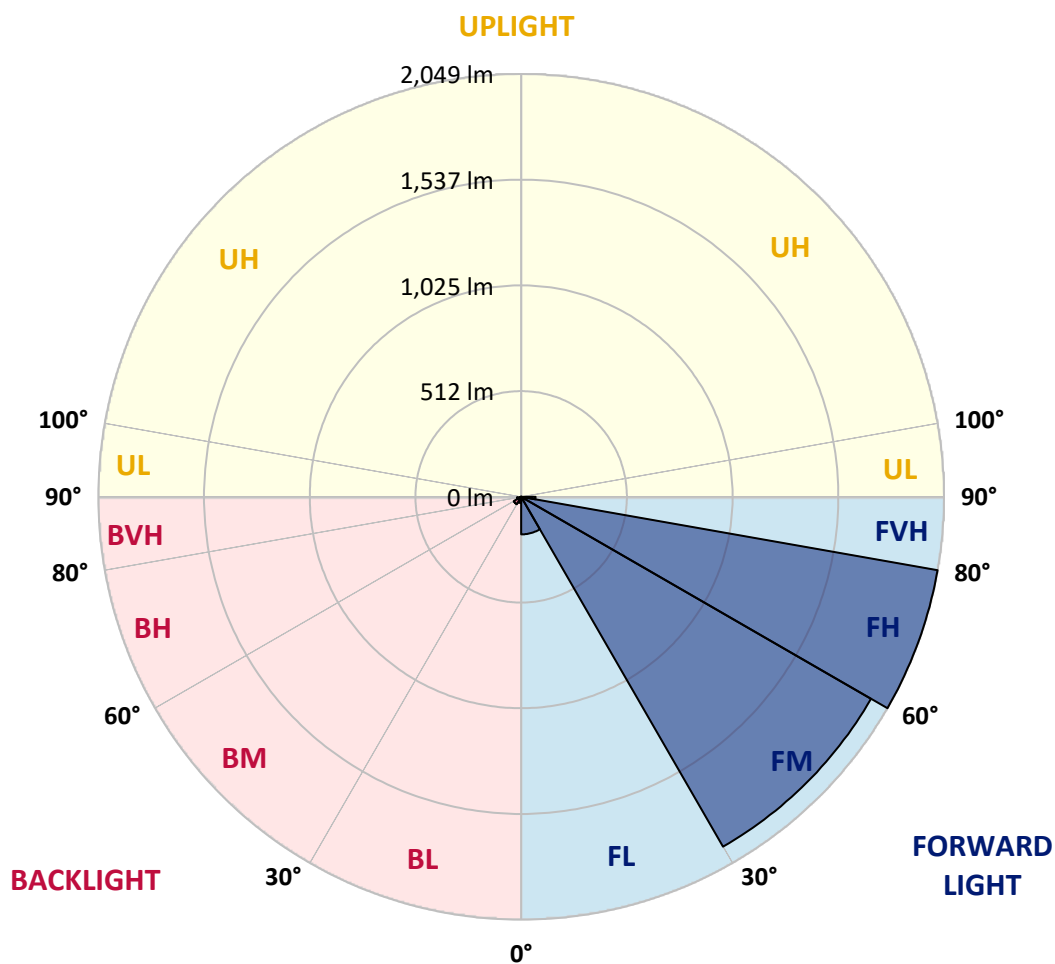
CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.8	4.2			
FM	(30°-60°)	1957.9	45.0			
FH	(60°-80°)	2049.4	47.1			G2/5000
FVH	(80°-90°)	70.0	1.6			G1/100
BL	(0°-30°)	29.8	0.7	B0/110		
BM	(30°-60°)	41.4	1.0	B0/220		
BH	(60°-80°)	20.2	0.5	B0/110		G0/110
BVH	(80°-90°)	2.9	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-G2

Type III Short





REPORT NUMBER: P165253

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4
2.5°	165.7	164.9	161.5	161.5	156.5	153.2	149.0	144.8	144.8	143.9	143.1
5°	219.2	214.3	213.4	204.2	196.7	185.8	175.7	162.4	160.7	159.0	158.2
7.5°	278.7	277.9	270.4	259.4	244.4	224.3	204.2	182.5	179.1	177.4	174.1
10°	355.7	351.5	341.5	323.0	300.5	273.7	241.1	206.7	202.6	199.2	197.5
12.5°	429.4	421.9	415.9	392.5	364.1	324.7	285.4	236.0	232.7	228.5	221.8
15°	498.0	491.3	481.3	461.2	429.4	380.0	334.0	273.7	265.3	259.4	254.4
17.5°	551.5	547.4	535.6	513.1	478.7	435.2	380.0	312.2	305.5	298.0	288.7
20°	602.6	596.8	578.3	547.4	510.5	477.1	434.4	362.4	353.2	344.0	334.0
22.5°	651.2	645.2	615.2	564.1	524.8	510.5	495.5	419.3	405.1	397.6	387.5
25°	719.0	706.4	659.5	578.3	525.6	536.5	562.4	493.0	479.6	468.7	452.8
27.5°	810.2	793.4	719.8	599.3	529.0	565.0	639.4	582.5	568.3	555.7	538.2
30°	913.1	902.2	814.4	649.5	553.2	606.8	725.6	696.4	679.6	664.6	643.6
32.5°	1016.9	1001.9	914.8	744.9	618.5	688.0	833.6	828.6	806.8	792.6	770.0
35°	1108.1	1100.6	1036.1	901.4	767.5	830.3	977.6	983.4	964.2	949.1	924.0
37.5°	1170.1	1170.1	1157.5	1069.6	1004.3	1051.2	1189.3	1190.2	1170.9	1136.6	1124.0
40°	1201.9	1211.0	1256.3	1273.0	1269.7	1329.9	1467.2	1452.1	1436.2	1418.6	1376.8
42.5°	1267.1	1275.5	1371.8	1487.3	1562.6	1642.1	1736.7	1731.7	1712.5	1680.6	1642.1
45°	1377.7	1388.5	1503.2	1686.5	1841.3	1954.3	2014.6	1991.1	1971.8	1941.8	1921.6
47.5°	1518.2	1539.2	1668.9	1895.7	2082.4	2269.0	2331.7	2269.8	2253.1	2229.6	2197.0
50°	1668.1	1688.2	1826.2	2085.7	2296.6	2519.2	2623.9	2519.2	2495.0	2487.4	2450.6
52.5°	1797.8	1814.5	1947.6	2232.2	2460.6	2721.8	2874.1	2736.0	2718.4	2693.3	2666.5
55°	1874.8	1888.2	2012.9	2302.4	2572.0	2904.2	3116.0	2994.7	2968.7	2958.7	2920.1
57.5°	1900.7	1914.1	2026.3	2311.7	2632.2	3070.7	3409.7	3413.9	3383.0	3347.0	3335.3
60°	1900.7	1915.8	2010.4	2289.1	2690.8	3248.2	3801.4	4150.4	4083.5	4076.8	4034.1
62.5°	1822.1	1836.3	1931.7	2219.6	2769.5	3487.6	4347.1	4963.1	4943.9	4900.3	4830.1
65°	1651.3	1659.7	1753.4	2042.2	2739.4	3707.7	4820.0	5503.8	5472.8	5387.5	5297.1
66°	1574.3	1581.0	1668.9	1940.9	2640.6	3737.8	4903.7	5571.6	5520.5	5448.5	5346.4
67.5°	1463.0	1474.7	1536.6	1752.6	2403.7	3633.2	4851.0	5523.9	5479.6	5392.5	5290.4
70°	976.7	968.3	1186.8	1345.0	1831.3	2960.3	4352.2	4959.8	4960.6	4919.6	4878.6
72.5°	463.7	468.7	532.3	827.7	1198.5	1977.7	3464.2	3958.8	4015.7	3942.1	3891.0
75°	333.1	340.6	379.1	506.3	714.7	1186.8	2245.5	2768.6	2770.3	2639.7	2523.4
77.5°	97.1	101.3	142.3	312.2	535.6	800.9	1289.7	1539.2	1503.2	1409.4	1321.6
80°	40.1	40.1	41.8	99.6	215.1	544.0	902.2	1185.1	1181.0	1145.0	1093.1
82.5°	15.1	15.9	20.1	41.0	51.1	133.9	601.7	1028.6	1026.1	975.1	938.2
85°	1.7	1.7	5.0	17.6	19.3	25.1	120.5	453.6	451.1	453.6	397.6
87.5°	0.0	0.0	0.8	1.7	2.5	3.4	5.0	17.6	19.3	18.4	16.7
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: P165253

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4
2.5°	143.1	141.4	141.4	140.6	140.6	140.6	139.7	139.0	139.0	138.1	137.3
5°	156.5	154.8	154.0	152.3	151.5	150.7	149.0	148.1	146.5	145.6	144.8
7.5°	172.4	169.0	168.2	165.7	163.2	161.5	159.8	157.4	155.7	152.3	151.5
10°	192.5	188.3	185.0	181.6	179.1	175.0	172.4	169.0	165.7	163.2	160.7
12.5°	218.5	212.6	207.5	204.2	198.4	193.3	188.3	185.8	179.1	175.7	171.6
15°	246.9	240.2	234.4	227.6	223.5	215.1	208.4	200.9	197.5	191.6	185.0
17.5°	283.7	272.8	263.6	257.0	248.6	240.2	232.7	225.2	215.1	208.4	200.0
20°	323.0	313.9	301.3	289.6	279.5	269.5	258.6	248.6	239.4	228.5	218.5
22.5°	373.3	359.9	344.8	333.1	319.7	308.9	293.8	280.4	265.3	251.1	239.4
25°	436.9	419.3	405.1	388.4	372.4	355.7	337.3	320.6	301.3	287.9	267.8
27.5°	515.6	498.8	479.6	457.8	441.9	416.8	392.5	371.6	349.0	328.1	305.5
30°	616.0	591.8	571.6	550.7	518.9	494.6	466.1	437.8	406.7	385.9	351.5
32.5°	736.5	710.6	680.5	650.3	621.0	586.7	551.5	516.4	482.1	443.6	408.4
35°	883.9	852.8	818.5	785.9	740.7	703.9	659.5	611.0	572.5	528.1	483.7
37.5°	1078.9	1027.8	997.6	963.3	902.2	852.0	802.6	754.1	686.3	639.4	576.7
40°	1323.2	1293.1	1243.7	1188.5	1133.2	1067.1	1000.2	935.8	857.0	791.8	719.0
42.5°	1610.3	1565.9	1515.7	1436.2	1380.1	1302.3	1226.2	1140.8	1044.5	960.8	875.5
45°	1879.8	1827.1	1788.5	1709.1	1650.5	1558.4	1466.3	1376.0	1264.6	1156.7	1057.9
47.5°	2171.1	2127.5	2063.9	1999.5	1940.1	1836.3	1736.7	1627.0	1509.8	1381.8	1253.8
50°	2427.2	2392.9	2349.3	2271.5	2205.4	2118.3	2001.2	1881.5	1733.3	1606.1	1460.5
52.5°	2644.7	2618.0	2556.9	2501.6	2442.2	2360.2	2255.6	2140.9	1981.1	1841.3	1675.6
55°	2901.7	2882.5	2828.9	2794.6	2741.9	2663.2	2565.2	2459.0	2289.9	2137.6	1950.1
57.5°	3322.7	3307.7	3260.8	3246.5	3194.6	3126.0	3005.5	2891.6	2694.2	2505.0	2290.7
60°	4019.9	3989.8	3921.1	3886.0	3776.3	3684.3	3527.8	3371.2	3132.7	2891.6	2633.9
62.5°	4766.4	4681.9	4551.4	4439.2	4283.5	4123.6	3914.4	3675.1	3395.5	3109.3	2813.0
65°	5169.0	5025.1	4860.2	4681.9	4480.3	4245.0	3981.4	3694.3	3393.8	3091.7	2778.7
66°	5215.1	5052.7	4877.8	4679.4	4455.1	4204.9	3937.0	3635.8	3323.5	3028.9	2715.9
67.5°	5157.3	4987.4	4802.5	4582.3	4339.6	4080.1	3799.0	3485.9	3185.4	2886.7	2582.0
70°	4753.1	4583.9	4419.1	4187.3	3928.6	3667.6	3401.4	3051.5	2767.0	2492.5	2221.3
72.5°	3795.6	3680.9	3517.7	3319.4	3067.4	2761.1	2539.3	2226.3	1979.4	1713.2	1503.2
75°	2371.9	2210.4	2008.7	1756.0	1563.4	1314.8	1185.1	947.4	806.8	683.8	565.0
77.5°	1212.7	1091.4	950.0	807.7	671.2	535.6	414.3	293.0	197.5	137.3	102.1
80°	1001.9	894.7	777.5	647.8	527.3	409.3	294.6	200.9	128.1	83.7	65.3
82.5°	827.7	737.3	632.7	512.2	407.6	321.4	223.5	145.6	90.4	58.6	46.0
85°	352.4	319.7	246.9	195.8	147.3	108.8	76.2	51.1	36.0	29.3	26.8
87.5°	15.1	16.7	15.9	12.5	9.2	9.2	8.4	6.7	6.7	6.7	6.7
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: P165253

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4
2.5°	137.3	136.4	135.6	135.6	134.8	133.9	128.9	124.7	119.7	116.3	113.0
5°	143.1	142.3	140.6	139.7	138.1	137.3	126.4	117.2	109.6	103.8	99.6
7.5°	149.0	148.1	145.6	143.1	142.3	140.6	123.1	111.3	101.3	94.6	90.4
10°	156.5	154.0	151.5	148.1	145.6	143.1	119.7	104.6	93.7	87.9	83.7
12.5°	167.3	163.2	159.0	154.8	151.5	147.3	118.0	98.8	87.9	81.2	77.0
15°	179.9	174.1	169.0	164.0	158.2	154.0	114.7	93.7	82.9	76.2	71.2
17.5°	191.6	185.0	177.4	169.9	164.0	158.2	111.3	88.7	77.8	71.2	66.1
20°	208.4	198.4	189.2	179.9	171.6	164.0	106.3	83.7	73.6	66.1	61.1
22.5°	226.8	215.1	203.4	190.9	179.9	169.9	102.1	79.5	69.5	62.0	56.0
25°	250.3	236.0	220.1	204.2	191.6	178.3	97.9	75.3	65.3	57.7	51.9
27.5°	282.9	262.8	245.2	225.2	205.9	190.9	94.6	71.9	61.1	53.6	47.7
30°	327.2	298.0	270.4	248.6	226.0	204.2	91.3	67.8	57.7	49.4	42.7
32.5°	376.6	342.3	310.5	277.9	249.4	224.3	87.9	64.4	53.6	45.2	39.4
35°	437.8	394.2	351.5	313.9	279.5	246.1	84.5	61.1	50.2	41.0	35.2
37.5°	525.6	471.2	415.1	366.6	322.2	277.9	82.0	57.7	46.0	36.8	31.0
40°	646.1	575.8	507.2	441.1	383.3	328.1	78.7	54.4	42.7	33.5	27.6
42.5°	776.7	691.3	601.0	526.4	446.9	377.5	75.3	51.1	39.4	30.1	24.3
45°	939.1	832.7	723.1	621.8	524.8	435.2	71.9	47.7	35.2	26.8	20.9
47.5°	1116.5	980.9	857.0	729.8	614.3	507.2	67.8	45.2	31.8	23.5	18.4
50°	1299.0	1155.8	999.3	854.5	717.3	579.2	63.7	41.0	28.4	20.9	15.1
52.5°	1495.6	1326.6	1166.7	986.8	826.9	673.7	59.4	37.7	25.9	18.4	12.5
55°	1745.9	1556.8	1369.3	1167.5	975.1	783.4	55.3	33.5	22.6	15.9	10.1
57.5°	2060.6	1836.3	1606.1	1378.4	1145.0	927.4	51.9	29.3	19.3	13.4	8.4
60°	2357.7	2095.7	1817.0	1555.1	1291.4	1037.8	46.9	25.9	16.7	10.9	8.4
62.5°	2511.7	2212.9	1912.4	1623.7	1342.5	1077.2	41.8	21.8	14.2	9.2	7.5
65°	2474.0	2169.4	1878.1	1586.8	1311.5	1052.0	36.8	19.3	12.5	8.4	7.5
66°	2419.7	2118.3	1825.4	1548.4	1285.6	1025.3	34.3	18.4	11.8	8.4	6.7
67.5°	2300.8	2009.5	1730.0	1472.2	1214.4	974.2	31.0	16.7	10.9	7.5	6.7
70°	1965.2	1700.7	1477.2	1247.9	1037.8	821.1	25.1	14.2	9.2	6.7	6.7
72.5°	1300.6	1120.7	971.7	836.1	698.8	542.3	20.9	11.8	7.5	6.7	5.8
75°	490.4	443.6	380.8	342.3	298.8	262.0	16.7	7.5	5.8	5.8	5.8
77.5°	87.1	80.3	71.2	65.3	60.3	55.3	13.4	5.0	5.0	5.8	5.8
80°	58.6	54.4	49.4	45.2	41.8	37.7	9.2	4.1	5.0	5.0	5.8
82.5°	41.8	39.4	36.8	33.5	31.0	27.6	5.8	4.1	5.0	5.0	5.0
85°	25.1	23.5	21.8	20.1	17.6	16.7	4.1	4.1	4.1	5.0	5.0
87.5°	6.7	5.8	6.7	6.7	5.0	5.8	3.4	3.4	3.4	4.1	4.1
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: P165253

CATALOG NUMBER: VST-F03-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	131.4	131.4	131.4	131.4	131.4
2.5°	111.3	111.3	109.6	112.1	112.1
5°	96.2	96.2	95.4	96.2	96.2
7.5°	87.9	87.1	87.1	87.1	87.9
10°	80.3	79.5	79.5	79.5	79.5
12.5°	73.6	72.8	71.9	72.8	72.8
15°	67.8	66.1	66.1	66.1	66.1
17.5°	62.8	61.1	60.3	60.3	60.3
20°	57.7	55.3	55.3	55.3	55.3
22.5°	52.7	50.2	50.2	50.2	50.2
25°	47.7	45.2	45.2	45.2	45.2
27.5°	43.5	41.0	41.0	41.0	41.0
30°	38.5	36.8	36.8	37.7	36.8
32.5°	35.2	32.6	32.6	33.5	33.5
35°	31.0	29.3	29.3	29.3	29.3
37.5°	26.8	25.1	25.1	25.1	25.1
40°	23.5	21.8	20.9	21.8	21.8
42.5°	20.1	18.4	17.6	17.6	17.6
45°	17.6	15.1	14.2	15.1	15.1
47.5°	14.2	12.5	12.5	13.4	13.4
50°	10.9	10.9	11.8	13.4	13.4
52.5°	10.1	10.1	11.8	13.4	13.4
55°	9.2	10.1	11.8	12.5	13.4
57.5°	8.4	10.1	11.8	12.5	12.5
60°	8.4	9.2	10.9	12.5	12.5
62.5°	7.5	8.4	10.1	11.8	11.8
65°	7.5	8.4	10.1	11.8	11.8
66°	7.5	8.4	10.1	11.8	11.8
67.5°	7.5	8.4	10.1	11.8	11.8
70°	7.5	8.4	10.1	10.9	10.9
72.5°	6.7	7.5	9.2	10.9	10.9
75°	6.7	7.5	9.2	10.9	10.9
77.5°	6.7	7.5	9.2	10.9	10.9
80°	6.7	7.5	9.2	10.1	10.9
82.5°	5.8	7.5	8.4	10.1	10.1
85°	5.8	6.7	8.4	9.2	10.1
87.5°	5.0	5.8	6.7	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)