

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: P165245

Luminaire Tested: **VST-E03-LED-E-U-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165245
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-E03-LED-E-U-SL3-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4337.5 lumens
Efficiency: N/A
Efficacy: 57.7 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): 75.2
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



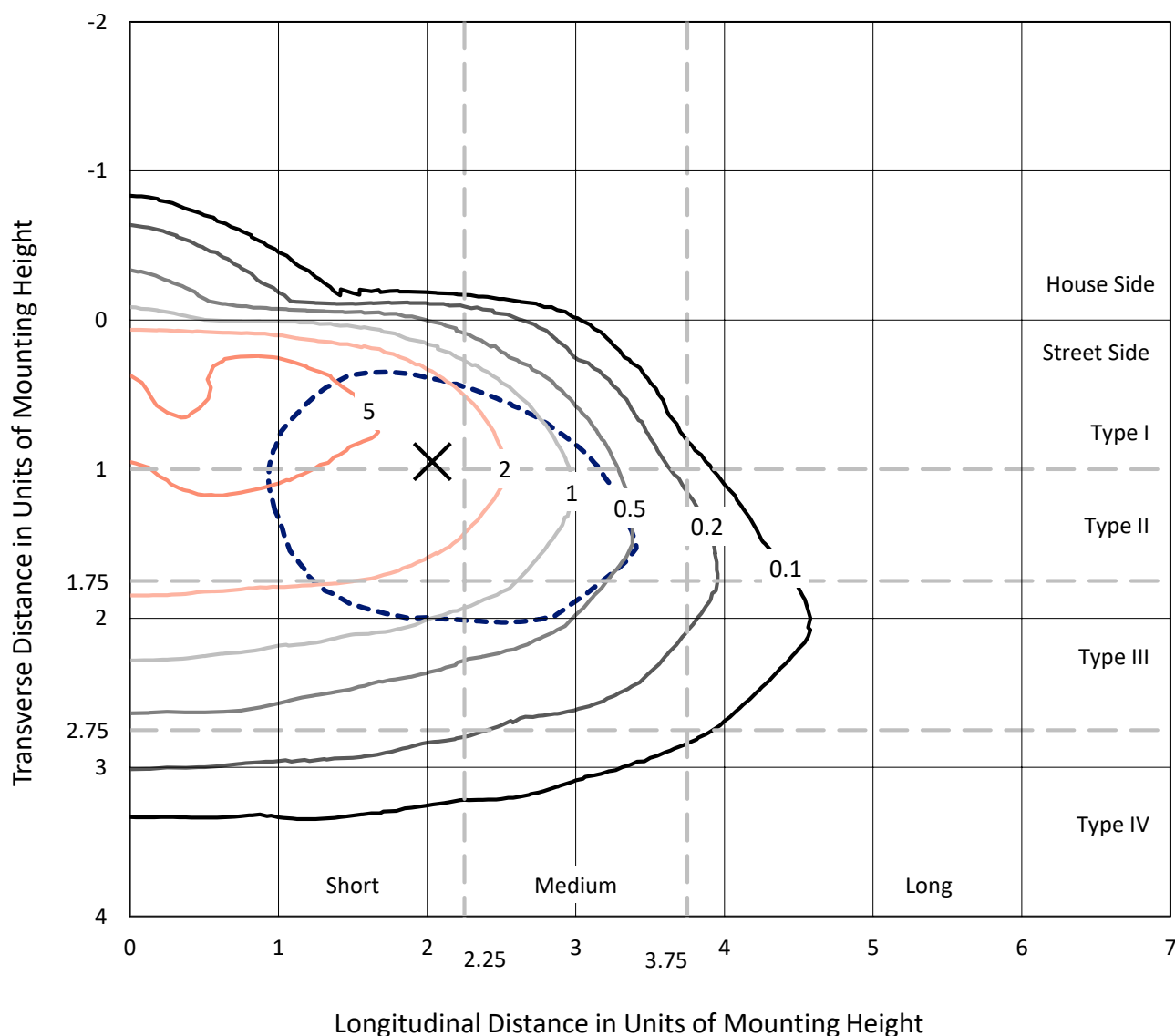
REPORT NUMBER: P165245

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

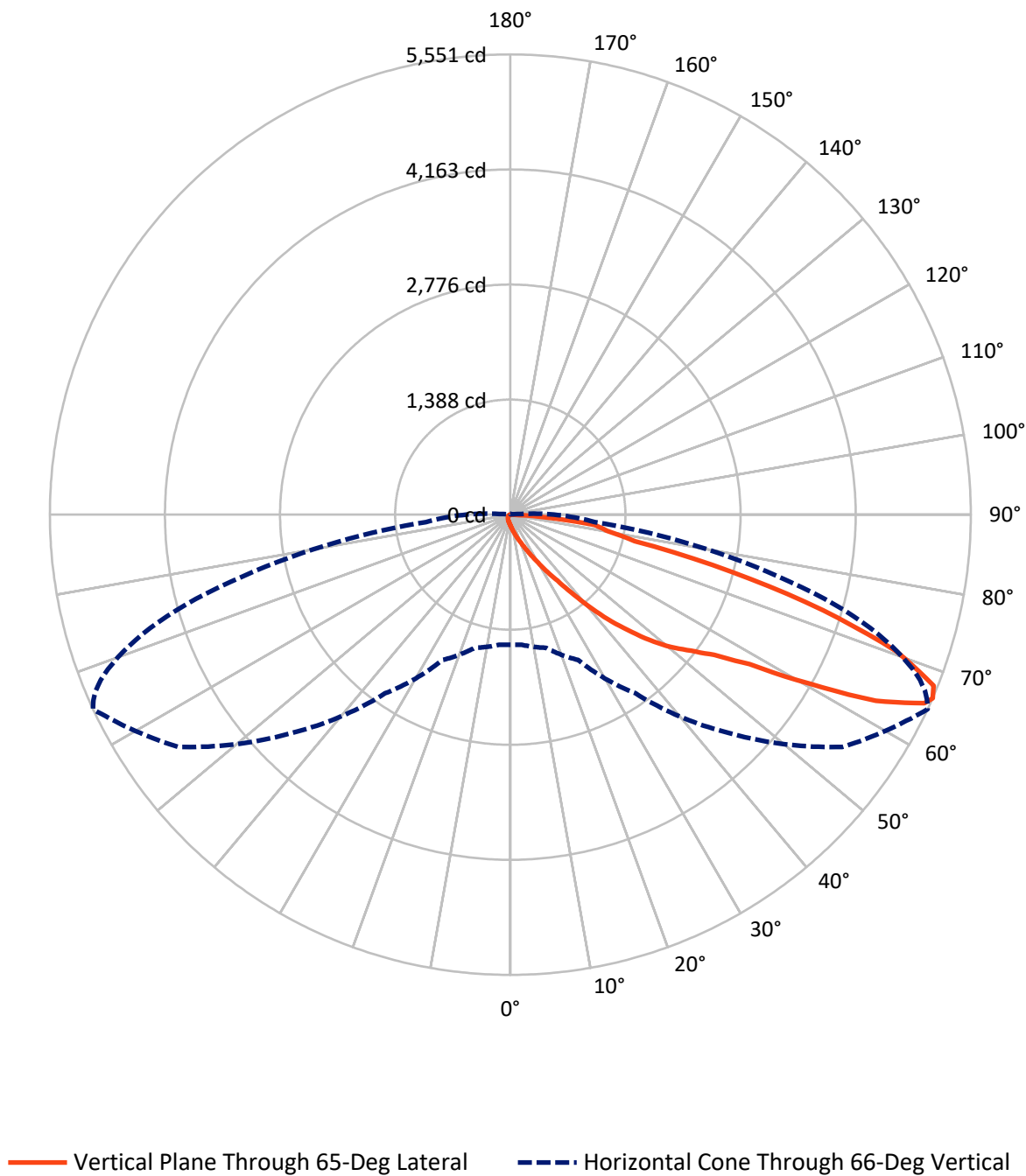


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P165245

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P165245

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-8030

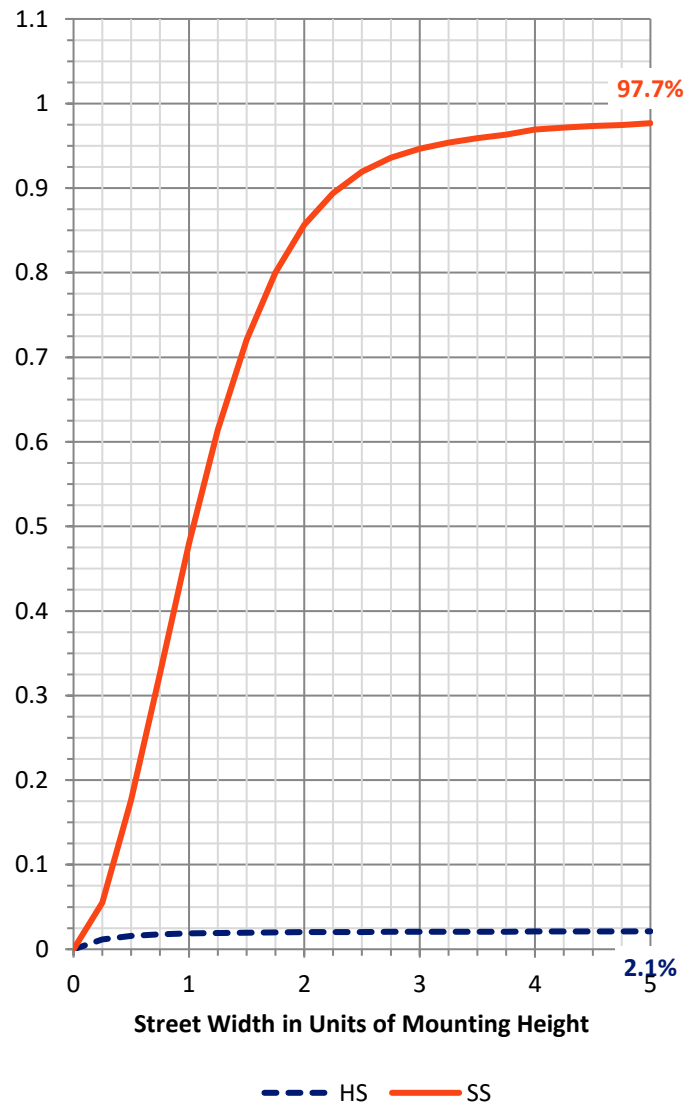
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	94.0	0.0	94.0
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4243.5	0.0	4243.5
	% Fixture	97.8	0.0	97.8
Total	Lumens	4337.5	0.0	4337.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	0.3
10°-20°	62.1	1.4
20°-30°	134.0	3.1
30°-40°	286.2	6.6
40°-50°	633.0	14.6
50°-60°	1072.7	24.7
60°-70°	1431.5	33.0
70°-80°	630.6	14.5
80°-90°	72.6	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°	4337.5	100.0
0°-180°	4337.5	100.0

Coefficient of Utilization



REPORT NUMBER: P165245

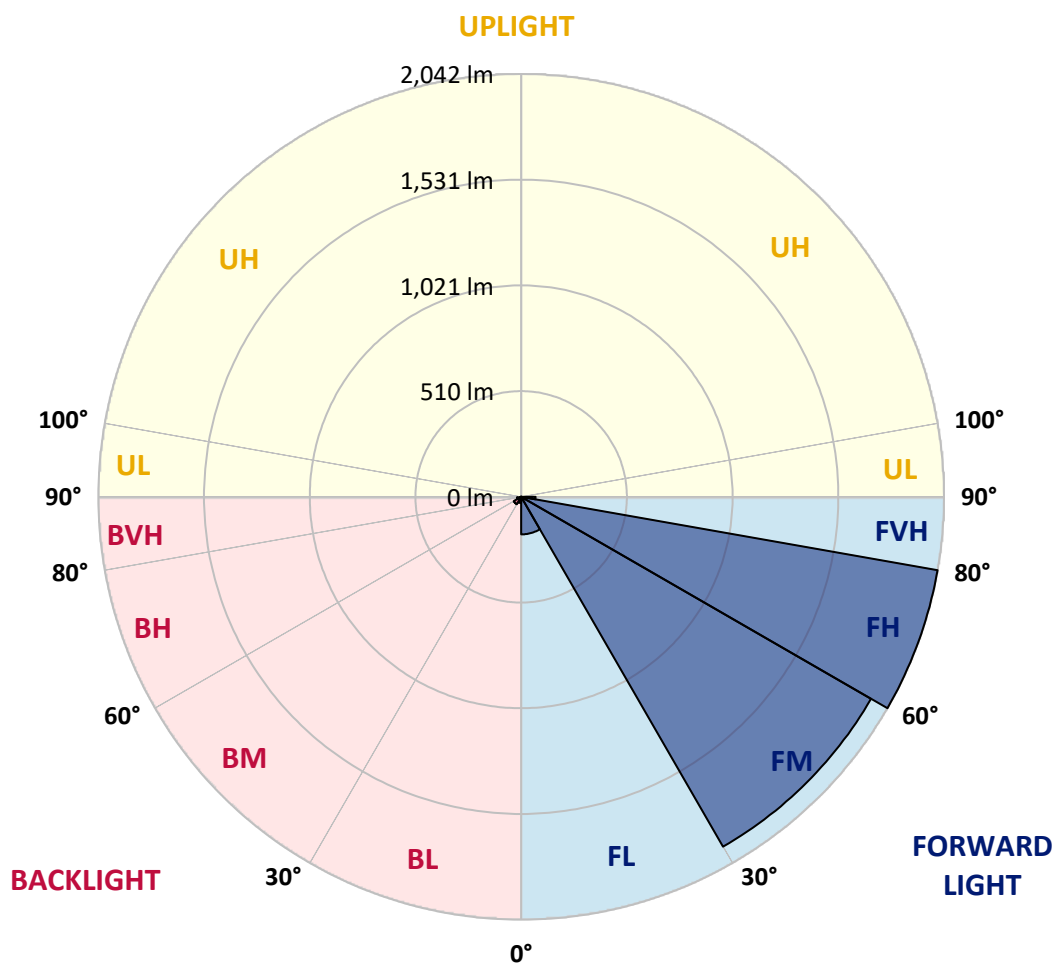
CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.2	4.2			
FM	(30°-60°)	1950.7	45.0			
FH	(60°-80°)	2041.9	47.1			G2/5000
FVH	(80°-90°)	69.7	1.6			G1/100
BL	(0°-30°)	29.7	0.7	B0/110		
BM	(30°-60°)	41.3	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: P165245

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
2.5°	165.1	164.3	160.9	160.9	155.9	152.6	148.4	144.3	144.3	143.4	142.6
5°	218.5	213.5	212.6	203.5	196.0	185.2	175.1	161.8	160.1	158.5	157.6
7.5°	277.7	276.8	269.3	258.5	243.5	223.5	203.5	181.8	178.4	176.8	173.5
10°	354.4	350.2	340.3	321.8	299.4	272.7	240.2	206.0	201.8	198.5	196.8
12.5°	427.8	420.3	414.4	391.1	362.8	323.5	284.3	235.1	231.8	227.7	221.0
15°	496.1	489.5	479.5	459.5	427.8	378.6	332.8	272.7	264.4	258.5	253.5
17.5°	549.5	545.4	533.7	511.2	477.0	433.6	378.6	311.0	304.4	296.8	287.7
20°	600.4	594.5	576.2	545.4	508.7	475.3	432.8	361.1	351.9	342.7	332.8
22.5°	648.8	642.9	613.0	562.0	522.8	508.7	493.7	417.8	403.6	396.1	386.1
25°	716.3	703.9	657.1	576.2	523.7	534.5	560.4	491.2	477.8	467.0	451.1
27.5°	807.2	790.6	717.2	597.1	527.0	562.9	637.1	580.4	566.2	553.7	536.2
30°	909.8	899.0	811.4	647.1	551.2	604.6	723.0	693.8	677.2	662.1	641.3
32.5°	1013.2	998.2	911.5	742.2	616.3	685.4	830.6	825.6	803.9	789.7	767.2
35°	1104.1	1096.6	1032.4	898.1	764.7	827.2	974.0	979.8	960.7	945.7	920.6
37.5°	1165.8	1165.8	1153.3	1065.7	1000.7	1047.4	1184.9	1185.8	1166.6	1132.4	1120.0
40°	1197.5	1206.7	1251.7	1268.3	1265.0	1325.1	1461.8	1446.8	1430.9	1413.4	1371.8
42.5°	1262.5	1270.9	1366.7	1481.9	1556.9	1636.1	1730.3	1725.4	1706.2	1674.5	1636.1
45°	1372.6	1383.5	1497.7	1680.3	1834.6	1947.2	2007.2	1983.8	1964.6	1934.7	1914.6
47.5°	1512.7	1533.5	1662.8	1888.8	2074.7	2260.7	2323.3	2261.6	2244.9	2221.5	2189.0
50°	1662.0	1682.0	1819.6	2078.1	2288.2	2510.0	2614.3	2510.0	2485.9	2478.4	2441.7
52.5°	1791.2	1807.9	1940.5	2224.0	2451.7	2711.8	2863.6	2726.0	2708.5	2683.5	2656.8
55°	1867.9	1881.3	2005.5	2294.0	2562.6	2893.6	3104.6	2983.7	2957.9	2947.9	2909.5
57.5°	1893.8	1907.2	2018.9	2303.2	2622.6	3059.6	3397.4	3401.5	3370.7	3334.8	3323.1
60°	1893.8	1908.8	2003.0	2280.8	2681.0	3236.3	3787.6	4135.3	4068.6	4061.9	4019.4
62.5°	1815.4	1829.6	1924.7	2211.5	2759.4	3474.9	4331.3	4945.0	4925.9	4882.5	4812.5
65°	1645.3	1653.7	1747.0	2034.7	2729.3	3694.2	4802.5	5483.8	5452.9	5367.8	5277.8
66°	1568.6	1575.2	1662.8	1933.8	2631.0	3724.2	4885.9	5551.3	5500.4	5428.7	5327.0
67.5°	1457.6	1469.3	1531.0	1746.2	2395.0	3620.0	4833.4	5503.8	5459.6	5372.8	5271.1
70°	973.2	964.9	1182.5	1340.1	1824.6	2949.5	4336.3	4941.7	4942.6	4901.7	4860.8
72.5°	462.0	467.0	530.3	824.7	1194.1	1970.5	3451.6	3944.3	4001.1	3927.7	3876.8
75°	331.9	339.4	377.8	504.5	712.1	1182.5	2237.3	2758.6	2760.2	2630.1	2514.2
77.5°	96.7	100.9	141.7	311.0	533.7	798.0	1285.0	1533.5	1497.7	1404.3	1316.7
80°	40.0	40.0	41.7	99.2	214.3	542.0	899.0	1180.8	1176.7	1140.8	1089.1
82.5°	15.0	15.8	20.0	40.9	50.9	133.4	599.6	1024.9	1022.3	971.5	934.8
85°	1.7	1.7	5.0	17.5	19.2	25.0	120.1	452.0	449.5	452.0	396.1
87.5°	0.0	0.0	0.8	1.7	2.5	3.4	5.0	17.5	19.2	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: P165245

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
2.5°	142.6	140.9	140.9	140.1	140.1	140.1	139.3	138.4	138.4	137.6	136.8
5°	155.9	154.3	153.4	151.7	151.0	150.1	148.4	147.6	145.9	145.1	144.3
7.5°	171.8	168.4	167.6	165.1	162.6	160.9	159.2	156.8	155.1	151.7	151.0
10°	191.8	187.6	184.3	181.0	178.4	174.3	171.8	168.4	165.1	162.6	160.1
12.5°	217.6	211.8	206.8	203.5	197.6	192.7	187.6	185.2	178.4	175.1	170.9
15°	246.0	239.3	233.5	226.8	222.7	214.3	207.6	200.1	196.8	191.0	184.3
17.5°	282.7	271.9	262.7	256.0	247.7	239.3	231.8	224.3	214.3	207.6	199.3
20°	321.8	312.7	300.2	288.5	278.5	268.6	257.6	247.7	238.5	227.7	217.6
22.5°	371.9	358.6	343.6	331.9	318.6	307.7	292.7	279.4	264.4	250.1	238.5
25°	435.3	417.8	403.6	386.9	371.1	354.4	336.1	319.4	300.2	286.9	266.9
27.5°	513.7	497.0	477.8	456.2	440.3	415.3	391.1	370.3	347.8	326.9	304.4
30°	613.7	589.6	569.5	548.7	517.0	492.8	464.5	436.1	405.2	384.5	350.2
32.5°	733.8	708.0	677.9	647.9	618.8	584.6	549.5	514.5	480.3	442.0	406.9
35°	880.6	849.7	815.5	783.1	738.0	701.3	657.1	608.8	570.4	526.2	482.0
37.5°	1074.9	1024.0	994.0	959.8	899.0	848.9	799.7	751.3	683.8	637.1	574.6
40°	1318.4	1288.4	1239.2	1184.2	1129.1	1063.2	996.5	932.3	853.9	788.9	716.3
42.5°	1604.4	1560.2	1510.2	1430.9	1375.1	1297.6	1221.7	1136.6	1040.7	957.4	872.3
45°	1873.0	1820.5	1782.1	1702.9	1644.5	1552.7	1461.0	1370.9	1260.0	1152.5	1054.1
47.5°	2163.2	2119.7	2056.4	1992.2	1933.0	1829.6	1730.3	1621.1	1504.3	1376.8	1249.2
50°	2418.4	2384.2	2340.8	2263.2	2197.3	2110.6	1993.9	1874.6	1727.0	1600.3	1455.2
52.5°	2635.1	2608.4	2547.5	2492.5	2433.3	2351.6	2247.4	2133.1	1973.9	1834.6	1669.5
55°	2891.2	2872.0	2818.6	2784.4	2731.9	2653.5	2555.9	2450.0	2281.6	2129.8	1943.0
57.5°	3310.6	3295.6	3248.9	3234.7	3183.0	3114.7	2994.5	2881.1	2684.3	2495.9	2282.4
60°	4005.2	3975.2	3906.8	3871.9	3762.5	3670.9	3514.9	3359.0	3121.3	2881.1	2624.3
62.5°	4749.1	4664.9	4534.7	4423.1	4267.9	4108.6	3900.1	3661.7	3383.2	3098.0	2802.7
65°	5150.2	5006.8	4842.5	4664.9	4463.9	4229.6	3966.9	3680.9	3381.5	3080.5	2768.6
66°	5196.1	5034.3	4860.0	4662.4	4438.9	4189.6	3922.7	3622.5	3311.4	3017.9	2706.0
67.5°	5138.5	4969.3	4785.0	4565.6	4323.8	4065.3	3785.1	3473.2	3173.8	2876.1	2572.6
70°	4735.7	4567.3	4403.0	4172.0	3914.3	3654.2	3389.0	3040.4	2756.9	2483.3	2213.2
72.5°	3781.7	3667.5	3504.9	3307.3	3056.2	2751.1	2530.0	2218.2	1972.2	1707.0	1497.7
75°	2363.3	2202.4	2001.4	1749.5	1557.7	1310.0	1180.8	944.0	803.9	681.3	562.9
77.5°	1208.3	1087.4	946.5	804.7	668.8	533.7	412.7	291.9	196.8	136.8	101.8
80°	998.2	891.5	774.7	645.5	525.4	407.8	293.6	200.1	127.6	83.4	65.0
82.5°	824.7	734.7	630.4	510.4	406.1	320.2	222.7	145.1	90.1	58.4	45.9
85°	351.1	318.6	246.0	195.1	146.8	108.4	75.9	50.9	35.9	29.2	26.7
87.5°	15.0	16.7	15.8	12.5	9.2	9.2	8.3	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: P165245

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
2.5°	136.8	135.9	135.1	135.1	134.2	133.4	128.4	124.3	119.3	115.9	112.6
5°	142.6	141.7	140.1	139.3	137.6	136.8	125.9	116.7	109.2	103.4	99.2
7.5°	148.4	147.6	145.1	142.6	141.7	140.1	122.6	110.9	100.9	94.3	90.1
10°	155.9	153.4	151.0	147.6	145.1	142.6	119.3	104.2	93.4	87.5	83.4
12.5°	166.7	162.6	158.5	154.3	151.0	146.8	117.6	98.4	87.5	80.9	76.7
15°	179.3	173.5	168.4	163.4	157.6	153.4	114.2	93.4	82.6	75.9	70.9
17.5°	191.0	184.3	176.8	169.3	163.4	157.6	110.9	88.4	77.5	70.9	65.9
20°	207.6	197.6	188.5	179.3	170.9	163.4	105.9	83.4	73.4	65.9	60.8
22.5°	226.0	214.3	202.7	190.1	179.3	169.3	101.8	79.2	69.2	61.7	55.9
25°	249.4	235.1	219.3	203.5	191.0	177.7	97.6	75.1	65.0	57.5	51.7
27.5°	281.9	261.8	244.3	224.3	205.1	190.1	94.3	71.7	60.8	53.4	47.6
30°	326.0	296.8	269.3	247.7	225.1	203.5	90.9	67.6	57.5	49.2	42.5
32.5°	375.2	341.0	309.4	276.8	248.5	223.5	87.5	64.2	53.4	45.0	39.2
35°	436.1	392.8	350.2	312.7	278.5	245.2	84.2	60.8	50.0	40.9	35.0
37.5°	523.7	469.5	413.6	365.3	321.1	276.8	81.7	57.5	45.9	36.7	30.8
40°	643.8	573.7	505.3	439.4	381.9	326.9	78.4	54.2	42.5	33.4	27.5
42.5°	773.9	688.8	598.7	524.5	445.3	376.1	75.1	50.9	39.2	30.0	24.2
45°	935.6	829.7	720.5	619.6	522.8	433.6	71.7	47.6	35.0	26.7	20.9
47.5°	1112.5	977.3	853.9	727.2	612.1	505.3	67.6	45.0	31.7	23.3	18.4
50°	1294.3	1151.6	995.7	851.4	714.7	577.1	63.4	40.9	28.4	20.9	15.0
52.5°	1490.2	1321.7	1162.5	983.2	823.9	671.3	59.2	37.5	25.8	18.4	12.5
55°	1739.5	1551.1	1364.3	1163.3	971.5	780.5	55.0	33.4	22.6	15.8	10.0
57.5°	2053.1	1829.6	1600.3	1373.5	1140.8	923.9	51.7	29.2	19.2	13.3	8.3
60°	2349.1	2088.1	1810.4	1549.4	1286.7	1034.0	46.7	25.8	16.7	10.9	8.3
62.5°	2502.5	2204.8	1905.5	1617.8	1337.6	1073.3	41.7	21.7	14.2	9.2	7.5
65°	2465.0	2161.5	1871.3	1581.1	1306.7	1048.3	36.7	19.2	12.5	8.3	7.5
66°	2410.9	2110.6	1818.8	1542.7	1280.9	1021.6	34.2	18.4	11.7	8.3	6.7
67.5°	2292.4	2002.2	1723.7	1466.8	1210.0	970.7	30.8	16.7	10.9	7.5	6.7
70°	1958.0	1694.5	1471.9	1243.4	1034.0	818.1	25.0	14.2	9.2	6.7	6.7
72.5°	1295.9	1116.6	968.2	833.0	696.3	540.4	20.9	11.7	7.5	6.7	5.8
75°	488.7	442.0	379.4	341.0	297.7	261.0	16.7	7.5	5.8	5.8	5.8
77.5°	86.8	80.0	70.9	65.0	60.1	55.0	13.3	5.0	5.0	5.8	5.8
80°	58.4	54.2	49.2	45.0	41.7	37.5	9.2	4.1	5.0	5.0	5.8
82.5°	41.7	39.2	36.7	33.4	30.8	27.5	5.8	4.1	5.0	5.0	5.0
85°	25.0	23.3	21.7	20.0	17.5	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: P165245

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	130.9	130.9	130.9	130.9	130.9
2.5°	110.9	110.9	109.2	111.8	111.8
5°	95.9	95.9	95.0	95.9	95.9
7.5°	87.5	86.8	86.8	86.8	87.5
10°	80.0	79.2	79.2	79.2	79.2
12.5°	73.4	72.5	71.7	72.5	72.5
15°	67.6	65.9	65.9	65.9	65.9
17.5°	62.5	60.8	60.1	60.1	60.1
20°	57.5	55.0	55.0	55.0	55.0
22.5°	52.5	50.0	50.0	50.0	50.0
25°	47.6	45.0	45.0	45.0	45.0
27.5°	43.3	40.9	40.9	40.9	40.9
30°	38.4	36.7	36.7	37.5	36.7
32.5°	35.0	32.5	32.5	33.4	33.4
35°	30.8	29.2	29.2	29.2	29.2
37.5°	26.7	25.0	25.0	25.0	25.0
40°	23.3	21.7	20.9	21.7	21.7
42.5°	20.0	18.4	17.5	17.5	17.5
45°	17.5	15.0	14.2	15.0	15.0
47.5°	14.2	12.5	12.5	13.3	13.3
50°	10.9	10.9	11.7	13.3	13.3
52.5°	10.0	10.0	11.7	13.3	13.3
55°	9.2	10.0	11.7	12.5	13.3
57.5°	8.3	10.0	11.7	12.5	12.5
60°	8.3	9.2	10.9	12.5	12.5
62.5°	7.5	8.3	10.0	11.7	11.7
65°	7.5	8.3	10.0	11.7	11.7
66°	7.5	8.3	10.0	11.7	11.7
67.5°	7.5	8.3	10.0	11.7	11.7
70°	7.5	8.3	10.0	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	10.0	10.9
82.5°	5.8	7.5	8.3	10.0	10.0
85°	5.8	6.7	8.3	9.2	10.0
87.5°	5.0	5.8	6.7	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)