

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: P165248

Luminaire Tested: **VST-E03-LED-E-U-SL3-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165248
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-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5273.5 lumens
Efficiency: N/A
Efficacy: 70.1 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



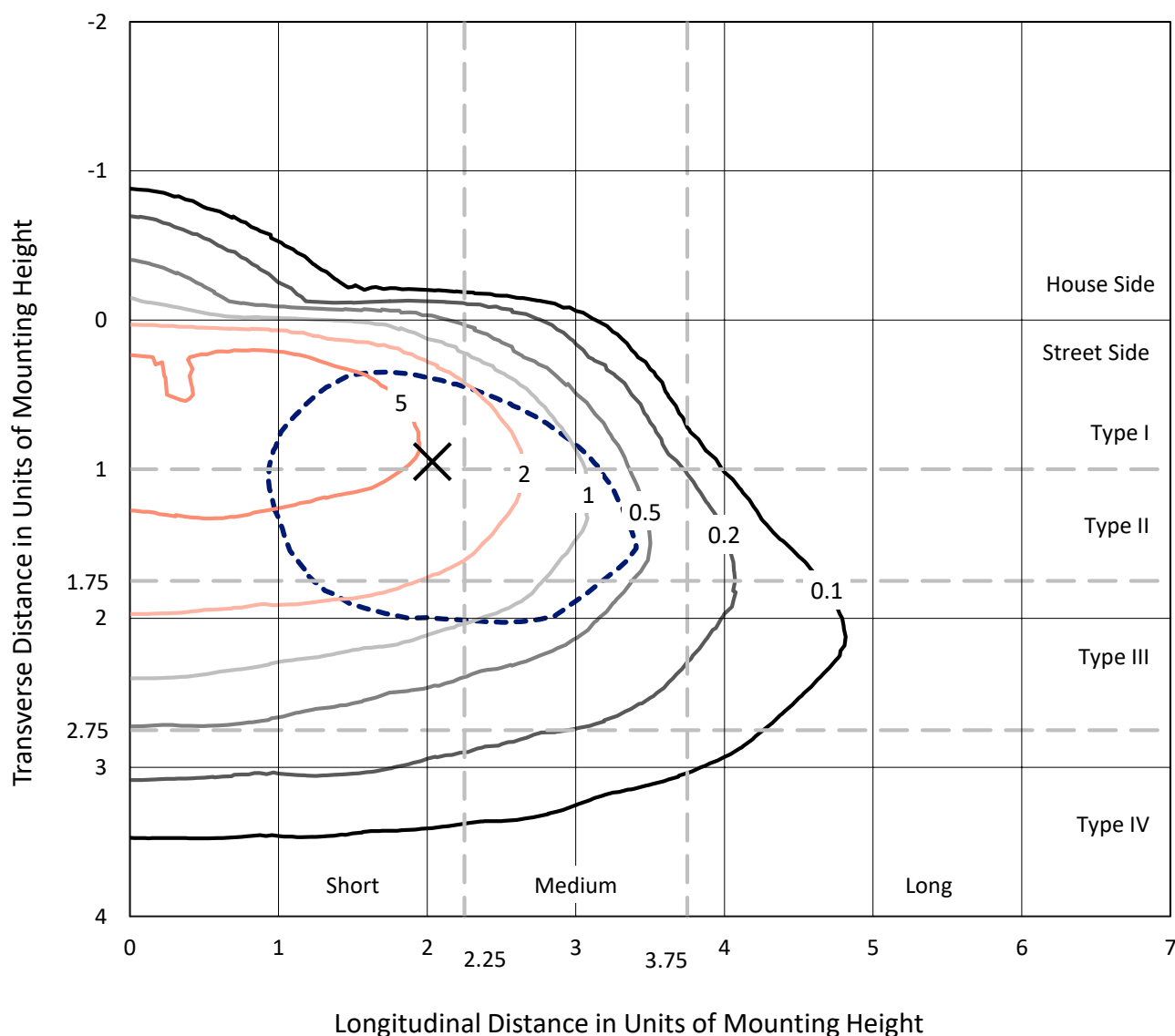
REPORT NUMBER: P165248

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-7050

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

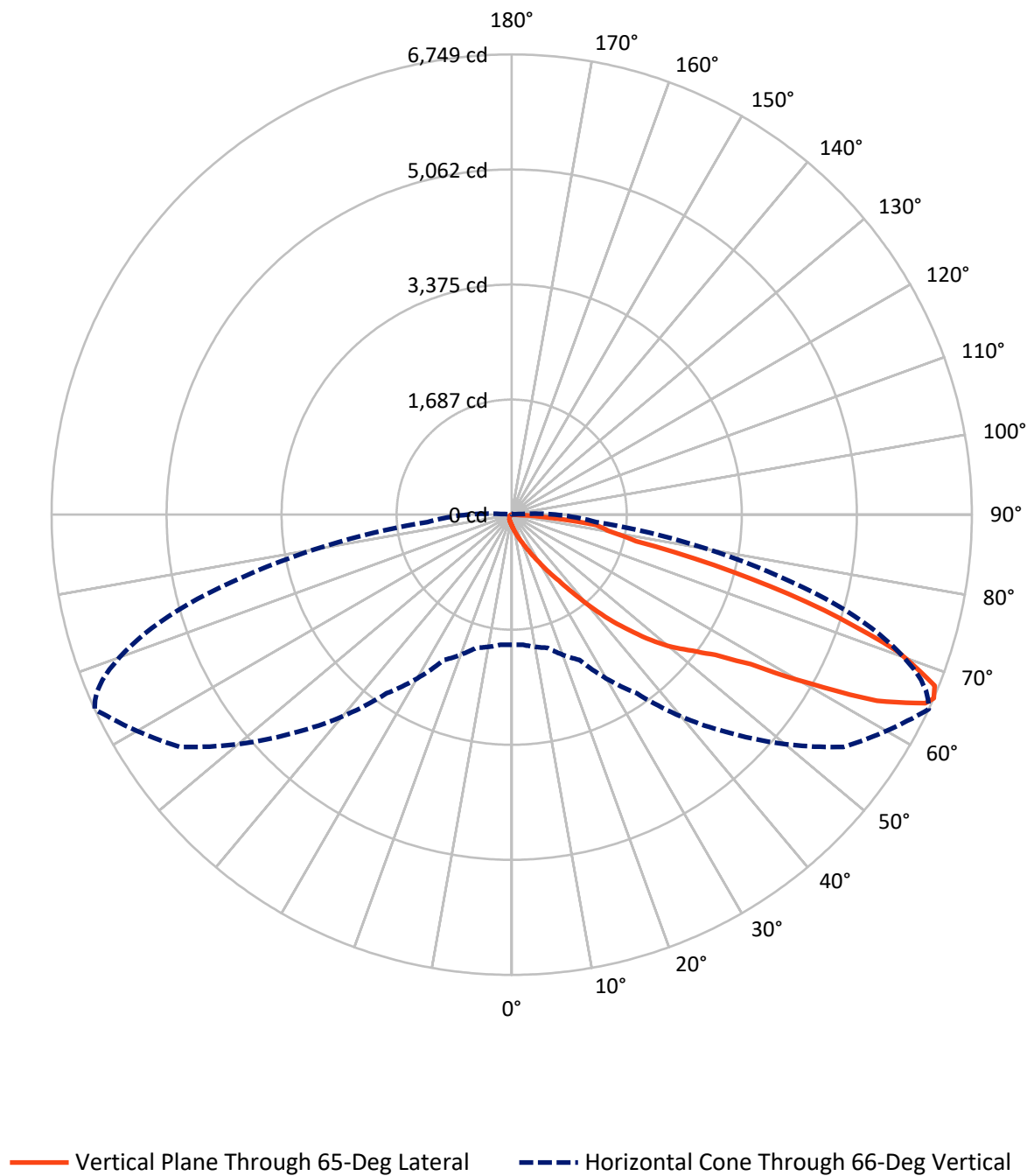


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P165248

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P165248

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	114.3	0.0	114.3
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	5159.2	0.0	5159.2
	% Fixture	97.8	0.0	97.8
Total	Lumens	5273.5	0.0	5273.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	0.3
10°-20°	75.6	1.4
20°-30°	163.0	3.1
30°-40°	348.0	6.6
40°-50°	769.6	14.6
50°-60°	1304.2	24.7
60°-70°	1740.4	33.0
70°-80°	766.6	14.5
80°-90°	88.3	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°	5273.5	100.0
0°-180°	5273.5	100.0

Coefficient of Utilization



REPORT NUMBER: P165248

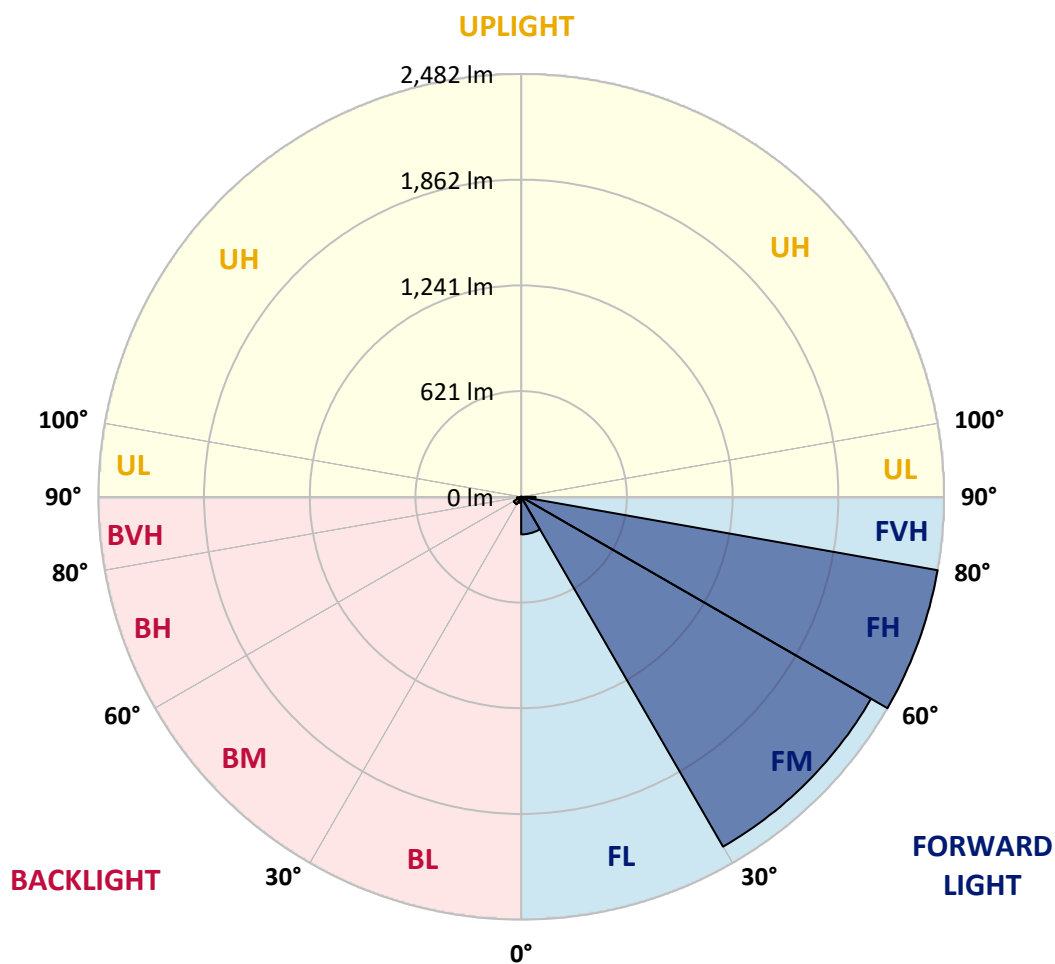
CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.3	4.2			
FM	(30°-60°)	2371.6	45.0			
FH	(60°-80°)	2482.5	47.1			G2/5000
FVH	(80°-90°)	84.8	1.6			G1/100
BL	(0°-30°)	36.1	0.7	B0/110		
BM	(30°-60°)	50.2	1.0	B0/220		
BH	(60°-80°)	24.5	0.5	B0/110		G0/110
BVH	(80°-90°)	3.5	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: P165248

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	200.8	199.7	195.7	195.7	189.5	185.6	180.5	175.4	175.4	174.4	173.4
5°	265.6	259.6	258.5	247.4	238.3	225.1	212.9	196.7	194.7	192.7	191.6
7.5°	337.6	336.6	327.5	314.3	296.1	271.7	247.4	221.0	217.0	214.9	210.8
10°	430.9	425.8	413.6	391.3	364.0	331.6	292.0	250.4	245.3	241.3	239.2
12.5°	520.1	511.0	503.9	475.5	441.0	393.4	345.7	285.9	281.9	276.8	268.7
15°	603.2	595.1	583.0	558.7	520.1	460.3	404.6	331.6	321.4	314.3	308.2
17.5°	668.1	663.1	648.8	621.5	579.9	527.2	460.3	378.1	370.1	360.9	349.7
20°	730.0	722.9	700.6	663.1	618.4	577.9	526.2	439.0	427.8	416.7	404.6
22.5°	788.8	781.6	745.2	683.3	635.7	618.4	600.2	507.9	490.7	481.6	469.4
25°	870.9	855.7	798.9	700.6	636.7	649.9	681.3	597.1	580.9	567.8	548.5
27.5°	981.4	961.1	871.9	725.9	640.7	684.4	774.5	705.6	688.4	673.1	651.9
30°	1106.1	1092.9	986.5	786.8	670.1	735.1	879.0	843.5	823.3	805.0	779.7
32.5°	1231.8	1213.6	1108.1	902.3	749.2	833.3	1009.8	1003.7	977.3	960.1	932.7
35°	1342.3	1333.2	1255.1	1091.9	929.7	1005.7	1184.2	1191.2	1168.0	1149.7	1119.3
37.5°	1417.4	1417.4	1402.2	1295.6	1216.6	1273.4	1440.7	1441.7	1418.3	1376.8	1361.6
40°	1455.8	1467.0	1521.8	1542.1	1538.0	1611.0	1777.3	1759.0	1739.8	1718.5	1667.8
42.5°	1535.0	1545.1	1661.7	1801.6	1892.9	1989.1	2103.7	2097.6	2074.4	2035.8	1989.1
45°	1668.8	1682.0	1820.9	2042.9	2230.4	2367.4	2440.3	2411.9	2388.6	2352.1	2327.8
47.5°	1839.1	1864.5	2021.6	2296.4	2522.5	2748.5	2824.6	2749.6	2729.3	2700.8	2661.3
50°	2020.6	2044.9	2212.2	2526.5	2782.0	3051.7	3178.4	3051.7	3022.3	3013.1	2968.6
52.5°	2177.7	2198.0	2359.2	2704.0	2980.7	3297.0	3481.5	3314.2	3292.9	3262.5	3230.1
55°	2271.0	2287.3	2438.3	2789.1	3115.6	3518.0	3774.5	3627.5	3596.1	3584.0	3537.3
57.5°	2302.4	2318.6	2454.5	2800.2	3188.5	3719.8	4130.4	4135.5	4098.0	4054.4	4040.2
60°	2302.4	2320.7	2435.3	2772.9	3259.5	3934.7	4604.9	5027.6	4946.5	4938.4	4886.7
62.5°	2207.2	2224.4	2339.9	2688.7	3354.8	4224.7	5265.9	6012.1	5988.8	5936.0	5850.9
65°	2000.3	2010.4	2124.0	2473.8	3318.3	4491.3	5838.7	6667.0	6629.5	6526.1	6416.6
66°	1907.0	1915.1	2021.6	2351.1	3198.7	4527.8	5940.1	6749.2	6687.4	6600.1	6476.4
67.5°	1772.2	1786.4	1861.4	2123.0	2911.8	4401.1	5876.3	6691.4	6637.7	6532.2	6408.5
70°	1183.2	1173.0	1437.7	1629.2	2218.3	3586.0	5272.0	6008.0	6009.1	5959.4	5909.7
72.5°	561.7	567.8	644.8	1002.7	1451.8	2395.7	4196.3	4795.4	4864.4	4775.2	4713.4
75°	403.5	412.6	459.3	613.4	865.8	1437.7	2720.1	3353.8	3355.8	3197.6	3056.8
77.5°	117.6	122.7	172.3	378.1	648.8	970.2	1562.3	1864.5	1820.9	1707.3	1600.9
80°	48.7	48.7	50.6	120.7	260.5	659.0	1092.9	1435.6	1430.6	1387.0	1324.1
82.5°	18.2	19.3	24.3	49.7	61.9	162.2	728.9	1246.0	1243.0	1181.2	1136.5
85°	2.0	2.0	6.1	21.3	23.3	30.4	146.0	549.5	546.5	549.5	481.6
87.5°	0.0	0.0	1.0	2.0	3.0	4.1	6.1	21.3	23.3	22.3	20.3
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: P165248

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	173.4	171.4	171.4	170.3	170.3	170.3	169.3	168.3	168.3	167.3	166.3
5°	189.5	187.6	186.5	184.5	183.5	182.5	180.5	179.5	177.4	176.4	175.4
7.5°	208.9	204.8	203.8	200.8	197.7	195.7	193.6	190.6	188.6	184.5	183.5
10°	233.2	228.1	224.0	220.0	217.0	211.9	208.9	204.8	200.8	197.7	194.7
12.5°	264.6	257.5	251.5	247.4	240.3	234.2	228.1	225.1	217.0	212.9	207.8
15°	299.1	290.9	283.9	275.8	270.7	260.5	252.4	243.3	239.2	232.1	224.0
17.5°	343.7	330.5	319.3	311.3	301.1	290.9	281.9	272.8	260.5	252.4	242.3
20°	391.3	380.2	365.0	350.8	338.6	326.5	313.3	301.1	290.0	276.8	264.6
22.5°	452.2	436.0	417.7	403.5	387.3	374.2	355.9	339.7	321.4	304.1	290.0
25°	529.2	507.9	490.7	470.4	451.1	430.9	408.5	388.3	365.0	348.8	324.5
27.5°	624.5	604.3	580.9	554.6	535.3	504.9	475.5	450.2	422.8	397.4	370.1
30°	746.2	716.8	692.5	667.1	628.6	599.2	564.7	530.3	492.7	467.4	425.8
32.5°	892.1	860.8	824.2	787.7	752.3	710.7	668.1	625.5	584.0	537.4	494.8
35°	1070.6	1033.1	991.5	952.0	897.2	852.7	798.9	740.1	693.5	639.7	586.0
37.5°	1306.9	1245.0	1208.5	1166.9	1092.9	1032.1	972.2	913.4	831.4	774.5	698.5
40°	1602.9	1566.4	1506.6	1439.6	1372.7	1292.6	1211.6	1133.5	1038.2	959.1	870.9
42.5°	1950.6	1896.9	1836.1	1739.8	1671.8	1577.5	1485.3	1381.9	1265.2	1163.9	1060.5
45°	2277.1	2213.2	2166.6	2070.3	1999.3	1887.7	1776.2	1666.8	1531.9	1401.1	1281.5
47.5°	2629.9	2577.2	2500.1	2422.1	2350.1	2224.4	2103.7	1970.9	1829.0	1673.9	1518.7
50°	2940.2	2898.6	2845.9	2751.6	2671.5	2566.0	2424.1	2279.1	2099.6	1945.6	1769.2
52.5°	3203.7	3171.3	3097.3	3030.4	2958.4	2859.0	2732.3	2593.4	2399.8	2230.4	2029.7
55°	3515.0	3491.7	3426.8	3385.2	3321.4	3226.1	3107.5	2978.7	2773.9	2589.4	2362.3
57.5°	4025.0	4006.7	3949.9	3932.7	3869.8	3786.7	3640.7	3502.8	3263.6	3034.4	2774.9
60°	4869.5	4833.0	4749.8	4707.3	4574.5	4462.9	4273.4	4083.8	3794.8	3502.8	3190.6
62.5°	5773.8	5671.4	5513.3	5377.4	5188.9	4995.2	4741.7	4451.8	4113.2	3766.4	3407.5
65°	6261.5	6087.1	5887.4	5671.4	5427.1	5142.2	4822.9	4475.2	4111.1	3745.1	3365.9
66°	6317.3	6120.5	5908.7	5668.4	5396.7	5093.6	4769.1	4404.1	4025.9	3669.1	3289.9
67.5°	6247.3	6041.5	5817.5	5550.8	5256.8	4942.5	4601.8	4222.6	3858.7	3496.7	3127.7
70°	5757.6	5552.8	5353.1	5072.3	4759.0	4442.7	4120.3	3696.5	3351.8	3019.2	2690.8
72.5°	4597.8	4458.9	4261.2	4020.9	3715.7	3344.6	3076.0	2696.9	2397.8	2075.3	1820.9
75°	2873.2	2677.6	2433.2	2127.1	1893.8	1592.7	1435.6	1147.7	977.3	828.3	684.4
77.5°	1469.0	1322.1	1150.7	978.4	813.1	648.8	501.8	354.8	239.2	166.3	123.7
80°	1213.6	1083.8	941.8	784.7	638.8	495.8	356.9	243.3	155.2	101.4	79.1
82.5°	1002.7	893.2	766.4	620.5	493.7	389.3	270.7	176.4	109.4	71.0	55.8
85°	426.8	387.3	299.1	237.2	178.4	131.8	92.3	61.9	43.6	35.5	32.5
87.5°	18.2	20.3	19.3	15.2	11.2	11.2	10.1	8.1	8.1	8.1	8.1
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: P165248

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	166.3	165.2	164.3	164.3	163.2	162.2	156.1	151.1	145.0	140.9	136.9
5°	173.4	172.3	170.3	169.3	167.3	166.3	153.1	141.9	132.8	125.7	120.7
7.5°	180.5	179.5	176.4	173.4	172.3	170.3	149.0	134.8	122.7	114.6	109.4
10°	189.5	186.5	183.5	179.5	176.4	173.4	145.0	126.7	113.5	106.4	101.4
12.5°	202.7	197.7	192.7	187.6	183.5	178.4	143.0	119.6	106.4	98.3	93.3
15°	218.0	210.8	204.8	198.7	191.6	186.5	138.9	113.5	100.4	92.3	86.2
17.5°	232.1	224.0	214.9	205.8	198.7	191.6	134.8	107.5	94.3	86.2	80.1
20°	252.4	240.3	229.1	218.0	207.8	198.7	128.8	101.4	89.2	80.1	74.0
22.5°	274.8	260.5	246.4	231.2	218.0	205.8	123.7	96.3	84.2	75.1	67.9
25°	303.2	285.9	266.6	247.4	232.1	216.0	118.6	91.3	79.1	70.0	62.9
27.5°	342.7	318.4	297.1	272.8	249.4	231.2	114.6	87.2	74.0	64.9	57.8
30°	396.4	360.9	327.5	301.1	273.7	247.4	110.5	82.1	70.0	59.8	51.7
32.5°	456.2	414.7	376.1	336.6	302.1	271.7	106.4	78.1	64.9	54.7	47.6
35°	530.3	477.5	425.8	380.2	338.6	298.0	102.4	74.0	60.8	49.7	42.6
37.5°	636.7	570.8	502.9	444.1	390.4	336.6	99.4	70.0	55.8	44.6	37.5
40°	782.7	697.6	614.4	534.3	464.3	397.4	95.3	65.9	51.7	40.6	33.4
42.5°	940.9	837.4	728.0	637.7	541.4	457.3	91.3	61.9	47.6	36.5	29.4
45°	1137.5	1008.8	875.9	753.2	635.7	527.2	87.2	57.8	42.6	32.5	25.4
47.5°	1352.5	1188.2	1038.2	884.1	744.2	614.4	82.1	54.7	38.5	28.4	22.3
50°	1573.5	1400.2	1210.5	1035.1	868.9	701.6	77.1	49.7	34.5	25.4	18.2
52.5°	1811.7	1606.9	1413.3	1195.3	1001.7	816.1	72.0	45.6	31.4	22.3	15.2
55°	2114.9	1885.8	1658.6	1414.3	1181.2	949.0	66.9	40.6	27.4	19.3	12.2
57.5°	2496.1	2224.4	1945.6	1669.8	1387.0	1123.3	62.9	35.5	23.3	16.2	10.1
60°	2856.0	2538.7	2201.0	1883.8	1564.3	1257.2	56.8	31.4	20.3	13.2	10.1
62.5°	3042.5	2680.6	2316.6	1966.9	1626.2	1304.8	50.6	26.3	17.2	11.2	9.1
65°	2996.9	2627.9	2275.1	1922.2	1588.7	1274.4	44.6	23.3	15.2	10.1	9.1
66°	2931.1	2566.0	2211.2	1875.6	1557.2	1242.0	41.6	22.3	14.2	10.1	8.1
67.5°	2787.1	2434.2	2095.6	1783.3	1471.1	1180.1	37.5	20.3	13.2	9.1	8.1
70°	2380.5	2060.2	1789.4	1511.6	1257.2	994.6	30.4	17.2	11.2	8.1	8.1
72.5°	1575.5	1357.6	1177.1	1012.8	846.5	657.0	25.4	14.2	9.1	8.1	7.1
75°	594.1	537.4	461.3	414.7	361.9	317.3	20.3	9.1	7.1	7.1	7.1
77.5°	105.5	97.3	86.2	79.1	73.0	66.9	16.2	6.1	6.1	7.1	7.1
80°	71.0	65.9	59.8	54.7	50.6	45.6	11.2	5.0	6.1	6.1	7.1
82.5°	50.6	47.6	44.6	40.6	37.5	33.4	7.1	5.0	6.1	6.1	6.1
85°	30.4	28.4	26.3	24.3	21.3	20.3	5.0	5.0	5.0	6.1	6.1
87.5°	8.1	7.1	8.1	8.1	6.1	7.1	4.1	4.1	4.1	5.0	5.0
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: P165248

CATALOG NUMBER: VST-E03-LED-E-U-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	159.1	159.1	159.1	159.1	159.1
2.5°	134.8	134.8	132.8	135.9	135.9
5°	116.6	116.6	115.6	116.6	116.6
7.5°	106.4	105.5	105.5	105.5	106.4
10°	97.3	96.3	96.3	96.3	96.3
12.5°	89.2	88.2	87.2	88.2	88.2
15°	82.1	80.1	80.1	80.1	80.1
17.5°	76.0	74.0	73.0	73.0	73.0
20°	70.0	66.9	66.9	66.9	66.9
22.5°	63.8	60.8	60.8	60.8	60.8
25°	57.8	54.7	54.7	54.7	54.7
27.5°	52.7	49.7	49.7	49.7	49.7
30°	46.7	44.6	44.6	45.6	44.6
32.5°	42.6	39.5	39.5	40.6	40.6
35°	37.5	35.5	35.5	35.5	35.5
37.5°	32.5	30.4	30.4	30.4	30.4
40°	28.4	26.3	25.4	26.3	26.3
42.5°	24.3	22.3	21.3	21.3	21.3
45°	21.3	18.2	17.2	18.2	18.2
47.5°	17.2	15.2	15.2	16.2	16.2
50°	13.2	13.2	14.2	16.2	16.2
52.5°	12.2	12.2	14.2	16.2	16.2
55°	11.2	12.2	14.2	15.2	16.2
57.5°	10.1	12.2	14.2	15.2	15.2
60°	10.1	11.2	13.2	15.2	15.2
62.5°	9.1	10.1	12.2	14.2	14.2
65°	9.1	10.1	12.2	14.2	14.2
66°	9.1	10.1	12.2	14.2	14.2
67.5°	9.1	10.1	12.2	14.2	14.2
70°	9.1	10.1	12.2	13.2	13.2
72.5°	8.1	9.1	11.2	13.2	13.2
75°	8.1	9.1	11.2	13.2	13.2
77.5°	8.1	9.1	11.2	13.2	13.2
80°	8.1	9.1	11.2	12.2	13.2
82.5°	7.1	9.1	10.1	12.2	12.2
85°	7.1	8.1	10.1	11.2	12.2
87.5°	6.1	7.1	8.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)