

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: P159095

Luminaire Tested: **VST-F03-LED-E-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159095
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
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-SLR
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6655.2 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

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



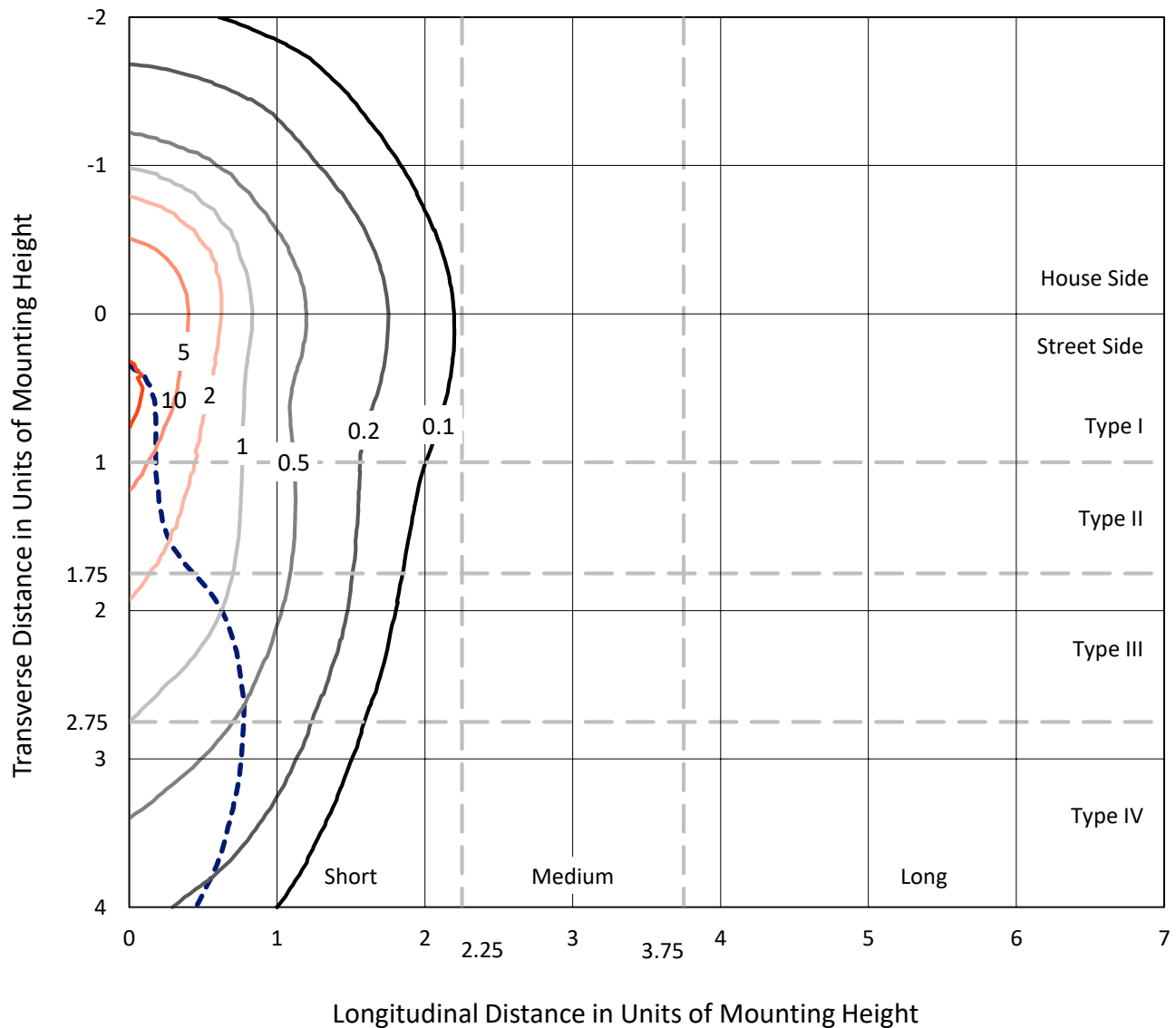
REPORT NUMBER: P159095

CATALOG NUMBER: VST-F03-LED-E-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

✘ Max cd

--- 1/2 Max cd



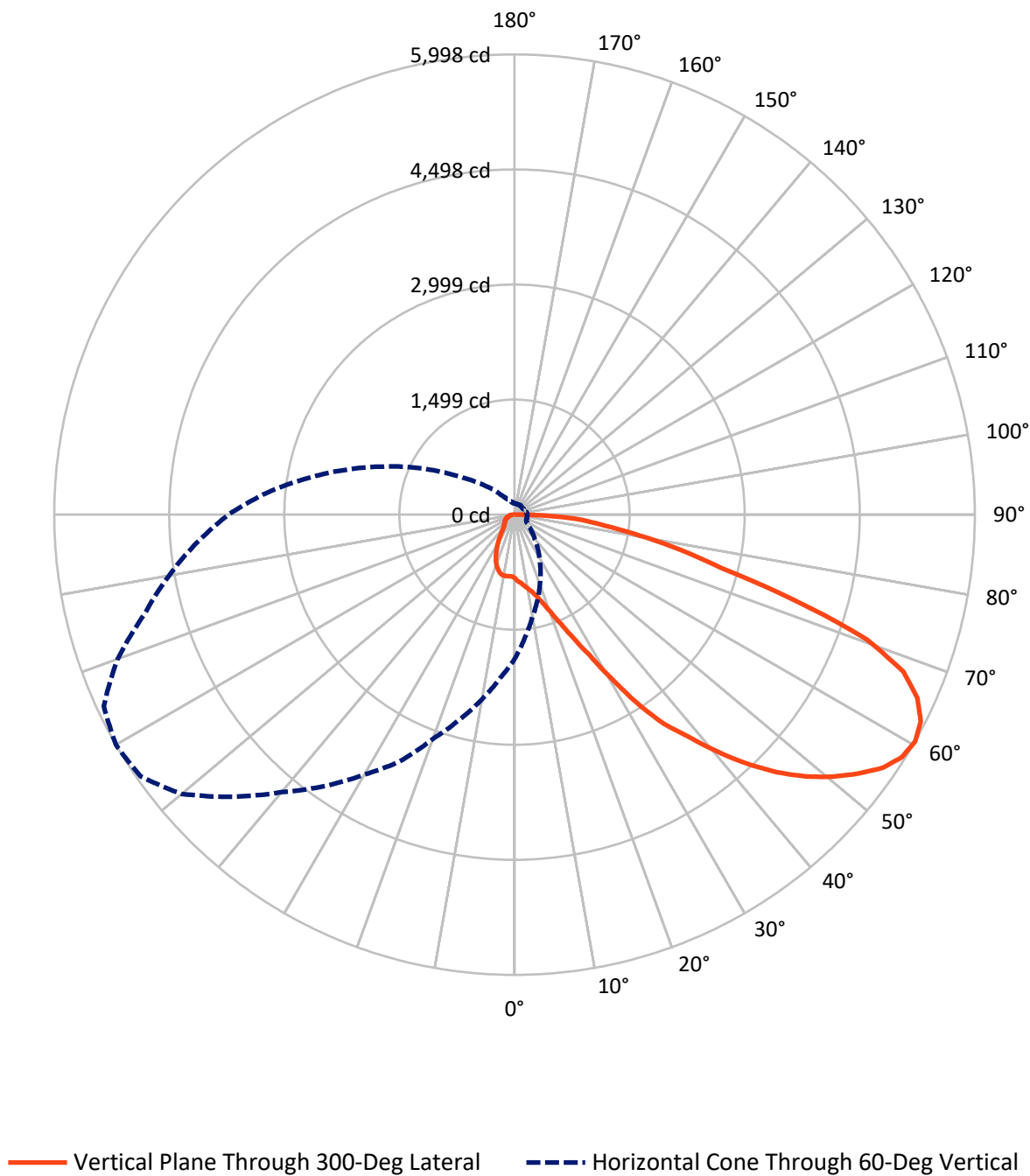
Based on 10 foot mounting height. Maximum calculated value = 12.5 fc

Type IV - Short - Non-Cutoff

REPORT NUMBER: P159095

CATALOG NUMBER: VST-F03-LED-E-U-SLR

Luminous Intensity Polar Plot



REPORT NUMBER: P159095

CATALOG NUMBER: VST-F03-LED-E-U-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1498.6	0.0	1498.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	5156.7	0.0	5156.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	6655.2	0.0	6655.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	1.2
10°-20°	263.7	4.0
20°-30°	500.3	7.5
30°-40°	787.9	11.8
40°-50°	1099.7	16.5
50°-60°	1360.1	20.4
60°-70°	1409.8	21.2
70°-80°	887.1	13.3
80°-90°	265.2	4.0
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°	6655.2	100.0
0°-180°	6655.2	100.0

Coefficient of Utilization



REPORT NUMBER: P159095

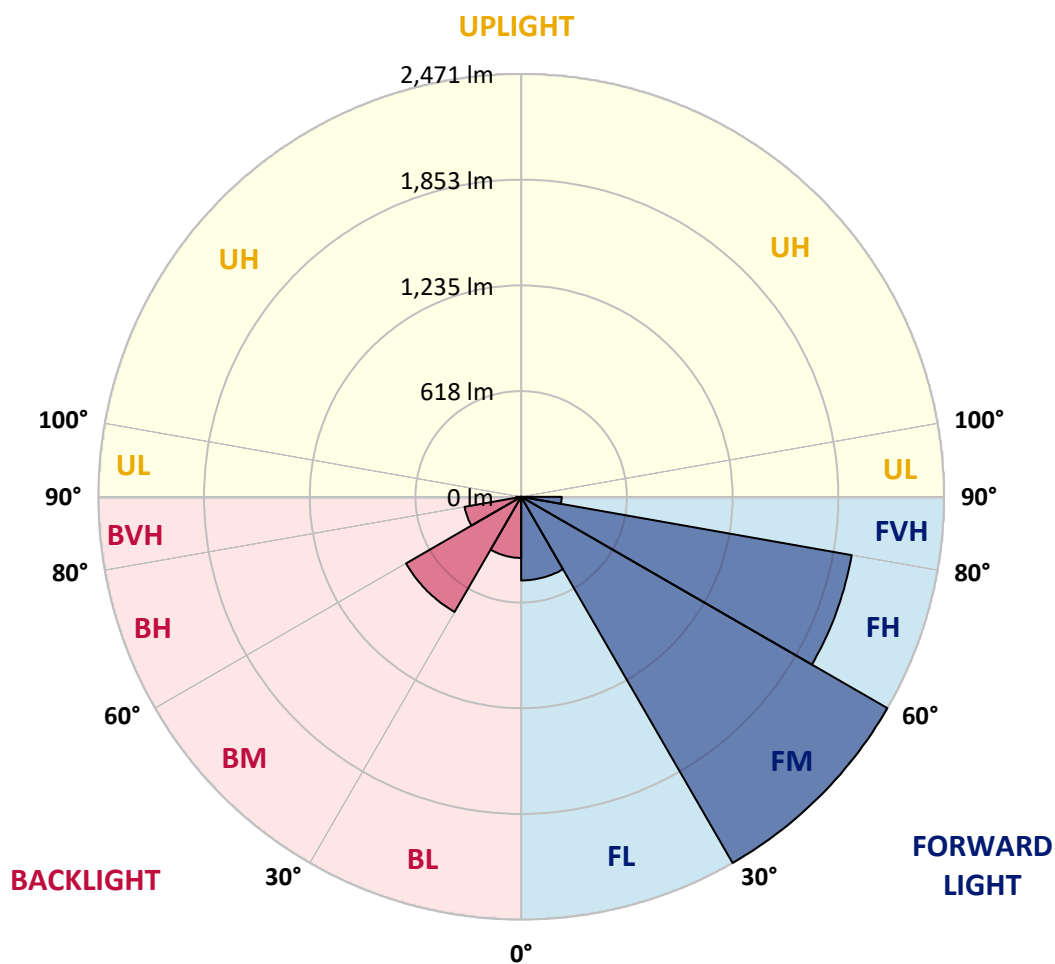
CATALOG NUMBER: VST-F03-LED-E-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	488.6	7.3			
FM	(30°-60°)	2470.5	37.1			
FH	(60°-80°)	1961.2	29.5			G2/5000
FVH	(80°-90°)	236.3	3.6			G3/500
BL	(0°-30°)	357.0	5.4	B1/500		
BM	(30°-60°)	777.1	11.7	B1/1000		
BH	(60°-80°)	335.6	5.0	B1/500		G1/500
BVH	(80°-90°)	28.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P159095

CATALOG NUMBER: VST-F03-LED-E-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	876.7	824.2	825.2	823.7	823.7	822.7	823.7	822.7	821.7	821.7	822.2
5°	888.1	830.2	830.2	828.7	827.7	826.7	827.7	826.7	826.2	825.2	825.7
7.5°	899.0	833.6	831.7	829.7	827.2	828.2	828.2	827.7	828.2	827.7	828.7
10°	916.8	845.0	840.1	835.6	835.1	834.1	834.1	832.6	832.6	831.7	832.1
12.5°	962.4	880.2	874.7	866.8	865.3	860.9	858.4	855.4	850.4	846.0	842.5
15°	1039.2	938.6	928.2	921.3	918.3	909.4	895.5	884.6	870.2	857.9	845.0
17.5°	1133.3	1016.9	1004.5	995.6	980.7	956.5	933.2	906.4	878.7	853.4	830.2
20°	1265.0	1129.3	1105.0	1083.7	1046.6	1005.0	961.4	914.8	872.2	832.6	798.4
22.5°	1443.4	1274.5	1229.4	1172.4	1103.6	1033.2	963.9	899.5	842.5	791.0	745.4
25°	1648.4	1413.1	1331.9	1233.8	1128.3	1031.2	940.1	857.4	791.0	724.6	675.1
27.5°	1799.5	1529.0	1409.2	1280.4	1145.6	1021.9	909.9	809.8	729.6	661.7	601.8
30°	1885.7	1595.4	1451.3	1300.2	1148.6	1006.0	871.7	755.9	663.2	582.5	525.1
32.5°	1941.1	1631.1	1455.7	1280.4	1113.0	958.9	813.8	693.4	592.9	506.7	445.8
35°	1987.7	1645.4	1434.9	1236.3	1045.6	887.6	739.5	619.1	512.6	433.4	371.0
37.5°	2006.5	1643.0	1401.7	1177.4	979.7	809.8	663.7	540.4	445.3	375.4	322.0
40°	2003.0	1620.2	1356.7	1114.4	902.5	728.6	583.5	475.0	397.7	338.8	299.6
42.5°	1979.8	1589.9	1306.6	1050.5	831.7	661.3	529.0	432.9	370.5	325.9	291.7
45°	1950.5	1553.8	1261.1	992.1	775.7	613.2	497.3	421.0	367.0	324.4	287.8
47.5°	1910.9	1513.7	1215.0	950.5	745.9	598.9	496.8	428.0	370.0	320.9	280.9
50°	1867.9	1484.5	1189.7	932.7	742.5	607.7	514.1	438.8	372.0	317.5	271.4
52.5°	1837.6	1471.6	1189.3	939.1	760.8	632.5	534.4	452.7	379.4	319.5	269.5
55°	1800.5	1469.6	1202.1	966.8	800.9	674.6	566.6	476.5	394.7	326.9	271.0
57.5°	1802.9	1508.7	1252.1	1035.2	873.2	731.6	607.7	505.7	409.6	331.4	268.4
60°	1881.2	1599.8	1350.7	1152.1	967.9	798.4	649.9	521.6	408.7	321.5	256.6
62.5°	2042.7	1736.6	1498.3	1289.3	1063.9	850.0	665.2	517.1	393.8	300.2	237.2
65°	2235.4	1896.5	1642.0	1395.8	1122.4	861.8	651.8	492.4	364.1	272.4	214.0
67.5°	2428.0	2010.0	1724.7	1426.0	1098.6	813.8	602.3	436.9	313.6	234.8	187.7
70°	2497.4	2033.3	1718.2	1358.2	990.6	694.4	495.8	351.7	251.6	192.2	158.0
72.5°	2393.3	1887.7	1527.5	1154.1	805.4	538.4	363.5	259.6	192.2	150.6	128.8
75°	2007.5	1520.1	1207.6	869.3	581.5	380.9	262.5	189.2	144.7	119.4	103.0
77.5°	1430.9	1058.5	822.7	571.1	377.4	264.0	188.2	142.1	114.9	95.6	83.7
80°	899.0	649.9	501.2	342.8	235.3	179.3	135.2	112.4	92.6	77.8	69.8
82.5°	541.4	378.4	295.2	213.0	154.6	122.8	99.5	88.1	73.8	64.4	59.9
85°	367.5	278.3	193.7	125.8	93.1	72.3	67.9	60.9	55.0	46.1	44.6
87.5°	70.3	99.5	86.7	51.5	34.2	29.2	25.7	24.8	22.3	17.8	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: P159095

CATALOG NUMBER: VST-F03-LED-E-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	819.2	818.3	816.3	816.3	814.8	811.8	811.3	809.3	806.9	807.4	806.9
5°	822.2	820.3	817.7	816.8	814.8	811.8	810.4	807.8	805.4	805.4	805.4
7.5°	825.7	823.2	821.2	817.7	813.8	810.8	806.9	803.9	802.4	801.9	802.4
10°	828.7	827.2	824.2	819.2	813.8	807.8	803.9	799.9	796.0	796.4	797.0
12.5°	835.1	830.2	822.2	814.8	806.4	799.0	792.0	787.1	782.1	782.1	782.6
15°	830.6	816.3	805.4	791.0	781.6	769.7	761.8	757.3	754.4	753.4	753.8
17.5°	804.4	787.1	770.7	757.9	745.0	735.5	732.1	729.1	725.2	727.1	725.2
20°	764.8	743.5	720.2	704.8	689.5	683.0	677.1	674.1	671.6	680.6	680.6
22.5°	707.8	682.0	658.3	639.5	622.1	615.2	609.2	605.8	607.3	618.2	619.1
25°	636.0	604.8	573.6	562.2	544.9	539.4	535.9	535.4	536.9	547.8	550.3
27.5°	559.7	527.0	500.3	474.0	466.1	461.6	455.2	462.6	464.1	476.0	481.0
30°	478.5	443.3	415.1	397.7	380.9	383.4	377.9	386.8	390.8	403.2	407.2
32.5°	395.3	362.1	333.8	316.5	304.6	306.1	302.2	310.1	314.0	328.9	336.3
35°	326.9	298.7	275.9	261.1	255.6	250.1	249.1	250.1	254.1	265.5	278.9
37.5°	287.8	264.5	248.2	237.2	229.8	226.4	224.4	224.4	224.4	226.9	233.3
40°	271.0	250.1	235.7	225.4	220.4	218.5	217.0	215.5	213.0	212.0	212.5
42.5°	263.5	239.8	224.4	216.5	213.5	213.5	213.5	212.5	210.0	207.5	205.1
45°	256.1	230.3	215.0	209.5	208.0	208.5	208.5	208.5	206.5	203.6	199.1
47.5°	246.7	219.9	204.5	201.1	201.1	202.6	203.1	203.1	201.1	198.1	194.6
50°	235.3	206.5	192.7	189.7	188.2	188.2	188.2	188.2	186.7	184.7	182.3
52.5°	229.3	199.1	184.7	181.8	181.8	180.3	179.8	178.3	176.8	175.3	171.9
55°	227.3	196.1	181.3	178.8	178.8	177.3	175.9	174.4	171.9	169.4	166.0
57.5°	221.9	189.7	176.8	174.8	174.8	173.9	172.4	170.9	168.4	164.9	160.5
60°	209.5	178.8	167.9	167.4	167.4	166.9	166.0	166.0	163.4	160.0	154.6
62.5°	193.7	167.4	157.0	157.0	156.5	156.0	154.0	153.5	150.6	146.1	141.2
65°	178.3	157.5	150.6	148.6	147.6	146.1	145.1	142.7	140.2	136.2	131.3
67.5°	159.0	142.7	138.2	136.2	134.2	132.7	131.3	129.8	126.8	123.8	119.9
70°	138.2	126.3	123.8	123.4	120.8	119.4	118.9	117.4	114.4	111.4	106.5
72.5°	118.4	111.4	109.4	109.4	106.5	104.5	103.5	103.0	101.0	98.6	94.1
75°	95.6	90.7	90.1	92.6	92.6	91.1	90.1	91.1	88.1	86.7	82.2
77.5°	78.2	75.8	74.3	75.3	78.2	76.8	74.8	74.8	74.8	72.3	70.9
80°	66.4	64.4	62.9	63.9	63.4	62.9	61.9	59.9	59.9	59.9	59.5
82.5°	59.9	59.5	54.0	54.0	52.0	50.5	49.6	48.5	47.6	47.6	50.0
85°	45.1	46.6	43.6	43.1	40.6	38.6	36.7	35.6	34.7	36.2	41.1
87.5°	21.8	21.8	20.8	23.3	21.3	20.3	18.8	17.8	18.8	23.3	27.7
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: P159095

CATALOG NUMBER: VST-F03-LED-E-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	805.9	805.4	804.9	803.9	801.9	801.4	800.4	800.4	799.9	799.0	799.9
5°	804.4	805.4	805.4	804.9	803.4	804.4	804.4	805.9	805.9	806.9	809.3
7.5°	802.4	804.9	806.9	808.4	810.4	811.8	814.8	819.2	821.2	824.7	826.2
10°	798.4	802.9	806.4	810.8	815.8	821.2	825.7	832.6	835.1	840.1	842.5
12.5°	787.1	794.5	800.4	809.3	817.7	826.2	834.1	843.0	847.5	853.0	856.4
15°	759.3	767.8	776.2	784.1	799.0	815.3	828.2	840.1	846.5	853.4	856.9
17.5°	726.1	731.6	738.5	748.9	763.3	777.7	798.4	815.3	825.2	833.1	834.1
20°	687.5	695.4	700.4	704.3	715.7	725.6	747.9	767.2	780.1	789.5	792.0
22.5°	628.6	637.0	645.4	648.4	657.3	670.1	682.6	703.3	721.7	735.5	743.9
25°	561.2	569.1	580.5	589.4	591.4	601.8	614.2	638.0	656.8	679.1	689.0
27.5°	493.8	500.8	513.1	518.1	524.0	534.4	544.4	564.2	584.0	609.7	620.6
30°	415.1	430.0	444.3	453.7	458.6	471.1	478.0	497.3	515.6	534.4	550.3
32.5°	347.7	361.1	377.4	389.3	395.3	404.7	415.6	431.9	446.3	464.6	482.9
35°	285.8	304.1	315.0	325.4	340.8	345.2	356.2	371.0	379.4	399.2	420.0
37.5°	242.2	253.1	264.0	274.4	287.3	293.2	303.6	316.0	325.9	337.8	356.6
40°	215.5	221.4	229.3	236.3	245.7	253.1	258.5	269.0	276.4	288.3	301.6
42.5°	203.1	204.5	205.6	210.5	215.5	220.4	226.4	230.8	239.8	248.6	257.0
45°	196.1	193.2	191.7	192.2	194.2	197.2	202.1	207.1	213.0	218.5	223.4
47.5°	190.2	186.2	181.8	179.3	179.8	180.8	184.7	188.7	191.7	196.1	198.1
50°	176.3	172.9	168.9	165.4	166.0	166.4	169.9	172.9	174.8	176.3	178.8
52.5°	167.4	162.5	159.0	155.5	155.0	156.5	159.5	162.5	163.4	164.5	164.9
55°	161.0	156.0	151.6	148.1	146.6	150.1	151.1	155.0	156.5	156.5	157.0
57.5°	156.0	150.1	145.6	142.1	139.7	142.1	144.7	149.1	149.6	148.6	148.6
60°	148.6	144.1	139.7	136.2	133.7	135.7	137.7	142.7	142.7	140.2	139.7
62.5°	135.7	133.3	130.3	128.8	128.3	130.3	131.8	135.7	134.2	131.3	130.3
65°	126.3	124.3	121.4	120.4	119.9	122.8	123.4	125.8	123.8	122.3	121.9
67.5°	114.9	113.4	112.0	111.4	110.0	110.0	110.9	112.4	111.4	111.4	112.0
70°	102.1	100.1	98.6	99.1	98.1	98.1	98.6	99.5	99.1	100.1	101.0
72.5°	90.1	87.7	87.2	87.2	86.2	86.7	86.7	87.2	88.1	88.7	91.1
75°	78.8	76.3	76.3	75.8	75.8	75.8	76.3	77.3	78.2	78.8	79.7
77.5°	68.3	66.8	67.4	66.8	66.8	66.8	66.8	68.3	68.8	69.4	70.9
80°	58.9	58.9	59.5	59.5	58.9	58.4	58.9	59.9	60.4	60.9	61.4
82.5°	53.5	54.0	54.0	54.0	51.5	50.5	52.0	53.0	54.0	54.5	55.5
85°	46.1	44.1	46.1	45.5	42.1	41.6	41.6	42.1	43.1	42.1	42.1
87.5°	29.7	26.8	28.3	28.3	24.8	20.3	25.7	27.7	24.8	26.3	26.3
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: P159095

CATALOG NUMBER: VST-F03-LED-E-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	801.4	800.4	800.9	800.9	801.9	800.4	802.4	804.4	804.9	804.9	805.4
5°	811.8	810.8	814.3	812.8	816.3	815.8	818.3	820.3	821.2	821.2	821.2
7.5°	828.2	831.7	833.6	839.0	839.6	842.5	845.0	847.5	846.5	847.0	846.5
10°	846.5	851.0	855.9	861.4	861.8	865.3	869.3	871.7	870.8	870.2	868.8
12.5°	862.3	865.3	871.3	876.7	879.7	885.1	889.1	891.1	891.1	889.6	888.1
15°	861.4	865.8	872.2	880.2	885.6	893.5	900.5	904.9	905.5	904.0	903.5
17.5°	839.6	846.0	851.9	862.9	872.8	883.6	895.0	901.5	907.4	910.9	912.8
20°	800.4	808.4	816.8	831.1	844.5	858.9	872.2	881.6	890.6	901.0	913.4
22.5°	754.4	766.3	778.1	796.4	812.8	829.1	844.5	855.9	869.8	887.6	910.9
25°	700.4	712.7	727.6	748.9	769.7	793.5	816.3	839.0	865.8	896.5	932.7
27.5°	636.5	650.3	669.7	695.4	719.2	743.5	779.2	815.3	858.9	898.5	939.6
30°	573.1	590.9	611.7	637.5	661.3	695.9	731.6	776.2	822.2	866.8	915.8
32.5°	504.7	527.0	552.8	574.1	600.8	636.0	671.6	719.2	768.2	820.7	874.7
35°	438.8	460.1	480.5	504.2	531.0	564.2	598.9	644.4	706.3	762.3	826.7
37.5°	372.0	391.8	406.1	425.0	448.3	484.9	522.1	574.6	633.0	701.9	766.3
40°	313.6	329.9	346.2	361.1	380.9	415.6	455.2	506.7	564.2	631.0	702.8
42.5°	267.0	279.4	297.2	315.0	331.9	361.6	398.7	449.3	506.2	574.6	646.4
45°	227.8	236.3	250.6	265.5	286.3	311.0	346.7	398.2	456.2	525.1	600.8
47.5°	199.6	203.6	213.5	228.8	248.2	272.4	303.1	349.7	406.1	475.5	555.2
50°	180.3	184.7	189.7	202.6	219.9	244.7	269.9	310.6	362.1	430.0	509.2
52.5°	166.9	168.9	170.9	178.8	194.6	215.5	242.2	272.9	324.9	389.8	461.2
55°	159.0	159.5	161.0	164.9	176.8	196.1	219.4	248.6	289.3	350.7	423.5
57.5°	149.6	150.6	152.0	154.6	161.9	179.3	199.1	222.9	256.6	308.1	377.9
60°	140.6	143.2	145.6	147.1	151.1	161.5	178.3	197.2	224.4	263.0	318.5
62.5°	131.3	134.2	136.2	137.7	139.2	145.6	158.0	170.4	187.2	212.5	254.1
65°	122.8	124.8	126.3	127.3	128.3	130.3	135.7	140.6	145.6	161.0	191.2
67.5°	113.4	114.4	114.9	115.4	114.9	114.9	115.4	117.4	119.4	125.3	139.7
70°	102.5	104.0	104.0	104.5	104.5	103.0	103.0	103.0	103.0	104.5	112.4
72.5°	92.1	94.1	94.1	94.6	94.1	93.6	93.6	93.6	95.1	96.1	99.1
75°	82.2	84.2	83.7	84.2	84.7	84.7	85.7	86.2	87.7	88.1	90.1
77.5°	72.3	73.8	74.3	73.8	74.8	75.8	77.8	78.8	79.3	79.7	80.2
80°	62.9	63.9	63.4	61.9	64.4	65.9	68.8	72.3	71.3	71.8	72.8
82.5°	52.0	50.5	49.6	50.5	52.0	54.0	56.9	61.4	61.9	64.4	63.9
85°	40.1	35.6	35.2	37.6	37.1	39.6	44.6	48.1	51.0	53.5	51.0
87.5°	23.8	21.3	17.8	16.9	18.3	24.3	25.3	30.7	33.2	34.2	30.7
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: P159095

CATALOG NUMBER: VST-F03-LED-E-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	850.4	853.0	853.0	853.9	855.4	855.9	857.9	861.4	861.8	861.8	863.3
5°	866.3	868.8	868.8	870.8	871.3	873.7	876.2	880.2	882.2	881.6	888.1
7.5°	892.1	890.1	888.6	891.5	893.0	896.0	901.0	904.4	907.9	913.4	922.3
10°	913.9	910.9	909.4	911.4	912.4	915.8	918.8	923.8	932.2	940.6	951.5
12.5°	931.7	928.2	924.2	925.3	926.8	931.2	936.1	942.6	955.0	965.9	982.2
15°	946.6	941.6	937.6	939.6	943.1	949.0	957.4	968.8	989.2	1007.9	1029.8
17.5°	960.9	959.9	958.4	964.9	967.4	981.2	993.6	1014.4	1042.1	1070.4	1101.6
20°	974.8	985.7	991.1	1004.0	1011.9	1030.7	1049.6	1074.8	1110.0	1148.6	1191.2
22.5°	994.1	1023.8	1042.1	1068.4	1081.7	1102.1	1129.8	1163.0	1202.1	1251.7	1306.1
25°	1040.2	1083.7	1120.4	1161.5	1195.2	1226.4	1259.6	1299.7	1356.2	1401.2	1472.6
27.5°	1060.4	1121.9	1176.8	1234.8	1285.3	1333.4	1385.9	1434.4	1501.3	1562.2	1648.4
30°	1041.2	1110.5	1181.8	1257.6	1331.4	1404.2	1480.5	1554.8	1632.1	1717.3	1808.9
32.5°	1005.5	1083.2	1163.5	1252.7	1344.3	1438.9	1538.0	1645.9	1754.9	1860.9	1954.5
35°	969.4	1053.1	1142.2	1244.2	1352.2	1469.6	1592.5	1729.1	1873.3	2007.5	2129.9
37.5°	916.8	1009.0	1111.0	1228.9	1357.1	1501.8	1659.8	1828.2	2010.5	2195.2	2355.7
40°	853.4	951.0	1062.5	1198.1	1352.2	1535.0	1740.5	1956.5	2190.8	2416.1	2613.3
42.5°	795.5	890.6	1009.4	1157.0	1339.3	1564.2	1817.3	2086.3	2363.6	2615.8	2873.3
45°	744.5	849.5	968.8	1128.3	1332.9	1589.0	1874.3	2183.3	2500.9	2801.0	3105.1
47.5°	697.9	806.9	940.6	1112.5	1329.9	1603.8	1913.9	2246.8	2598.4	2943.2	3296.3
50°	649.9	755.9	899.0	1095.1	1322.5	1603.3	1934.7	2289.8	2666.8	3053.6	3428.1
52.5°	598.3	704.8	848.5	1063.4	1306.6	1594.4	1940.2	2319.1	2720.8	3121.5	3540.0
55°	551.3	650.8	794.5	1010.5	1273.4	1572.6	1927.7	2331.4	2758.9	3188.8	3618.8
57.5°	497.3	600.8	737.5	937.6	1211.0	1534.0	1892.6	2314.1	2769.8	3233.9	3681.2
60°	423.0	524.5	665.2	851.5	1113.5	1452.2	1827.2	2261.6	2735.1	3241.9	3725.8
62.5°	337.8	425.5	561.2	732.6	976.3	1324.0	1706.3	2143.7	2627.2	3167.5	3703.0
65°	251.1	309.6	426.5	577.0	817.3	1130.8	1511.7	1946.1	2416.1	2961.0	3559.8
67.5°	174.8	217.0	288.8	400.7	594.4	873.2	1233.8	1637.5	2089.7	2578.6	3262.6
70°	132.2	151.6	190.7	253.1	384.8	594.9	897.0	1256.6	1676.2	2147.2	2791.6
72.5°	112.9	122.8	144.7	173.3	235.7	361.6	563.2	864.8	1236.8	1620.2	2141.8
75°	101.5	110.0	123.8	142.1	166.9	219.4	330.4	547.3	819.2	1085.2	1494.4
77.5°	92.1	99.5	112.0	121.4	134.7	158.0	210.5	327.4	490.9	670.7	927.2
80°	82.2	86.7	98.1	107.5	117.9	131.3	151.1	205.6	281.8	397.3	546.8
82.5°	70.3	73.8	82.2	95.1	103.0	108.5	114.4	136.2	168.9	215.5	303.6
85°	54.5	56.9	64.4	73.8	77.3	77.8	78.8	84.7	105.0	161.5	261.5
87.5°	27.7	30.7	38.6	41.6	35.2	38.2	38.6	41.1	54.5	88.7	90.1
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: P159095
CATALOG NUMBER: VST-F03-LED-E-U-SLR

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	0°
2.5°	863.3	864.8	868.3	867.8	870.2	870.2	870.2	872.8	871.3	872.8	875.2	2.5°
5°	888.1	890.6	895.5	895.5	896.0	894.5	897.5	899.5	897.0	896.0	896.5	5°
7.5°	924.2	928.2	932.2	936.1	939.1	937.6	938.1	933.7	932.7	929.2	924.8	7.5°
10°	959.4	970.3	977.8	984.7	985.2	983.7	984.2	976.7	975.3	968.3	963.9	10°
12.5°	995.6	1009.4	1021.3	1028.8	1033.2	1034.2	1034.7	1034.7	1027.8	1021.9	1011.4	12.5°
15°	1049.1	1073.3	1091.7	1099.6	1106.0	1112.0	1113.5	1115.5	1110.0	1102.1	1100.6	15°
17.5°	1133.8	1156.6	1180.9	1202.1	1216.5	1217.5	1229.9	1228.9	1240.3	1231.4	1228.9	17.5°
20°	1234.3	1283.9	1309.1	1337.3	1353.7	1361.6	1390.3	1381.4	1389.8	1404.2	1389.8	20°
22.5°	1360.1	1423.0	1459.7	1498.3	1525.1	1544.4	1565.2	1581.5	1604.3	1615.2	1605.3	22.5°
25°	1527.1	1598.9	1642.4	1696.0	1738.6	1773.2	1809.4	1853.0	1852.5	1878.7	1897.1	25°
27.5°	1718.8	1810.4	1873.8	1967.9	2004.5	2063.0	2124.9	2192.3	2204.2	2238.3	2255.6	27.5°
30°	1899.1	2012.5	2138.3	2250.2	2377.0	2463.7	2535.5	2583.1	2654.9	2637.1	2627.2	30°
32.5°	2065.4	2216.5	2395.9	2579.6	2780.7	2917.9	3044.7	3103.6	3148.2	3053.6	2928.3	32.5°
35°	2281.4	2462.2	2667.3	2894.1	3149.7	3344.3	3475.1	3493.4	3468.2	3346.9	3139.3	35°
37.5°	2548.9	2738.6	2971.9	3211.6	3483.1	3665.8	3814.9	3841.7	3774.8	3558.4	3340.4	37.5°
40°	2812.9	3035.3	3288.4	3572.2	3853.6	4054.6	4204.3	4212.2	4103.2	3850.1	3595.0	40°
42.5°	3101.6	3344.9	3626.7	3941.2	4232.0	4435.6	4543.5	4577.7	4423.7	4099.2	3854.5	42.5°
45°	3350.8	3641.6	3955.6	4289.9	4594.0	4787.2	4897.2	4886.3	4700.0	4379.6	4092.8	45°
47.5°	3593.5	3913.5	4244.3	4599.5	4901.6	5096.8	5209.7	5199.8	4963.6	4594.6	4279.0	47.5°
50°	3809.5	4156.7	4510.3	4889.8	5190.9	5369.7	5507.9	5464.3	5165.6	4767.4	4398.9	50°
52.5°	3959.5	4346.9	4716.4	5126.5	5436.6	5606.0	5781.8	5641.6	5285.0	4873.4	4463.3	52.5°
55°	4054.6	4477.6	4863.0	5316.7	5621.3	5823.9	5937.4	5738.2	5331.1	4902.6	4485.6	55°
57.5°	4119.1	4549.4	4949.2	5426.7	5787.8	5957.6	5985.4	5741.7	5301.4	4856.6	4463.3	57.5°
60°	4150.7	4570.7	4988.3	5503.9	5904.7	5997.8	5947.3	5661.4	5198.8	4721.3	4319.6	60°
62.5°	4147.3	4544.0	4968.0	5529.7	5927.9	5939.8	5824.9	5524.7	5010.1	4437.5	4080.9	62.5°
65°	4059.1	4446.4	4853.6	5434.1	5819.5	5768.5	5623.8	5268.2	4643.1	4067.0	3886.7	65°
67.5°	3805.0	4176.5	4554.4	5121.1	5513.8	5464.3	5245.4	4763.9	4216.6	3739.1	3642.1	67.5°
70°	3380.0	3695.0	4026.9	4524.7	4936.8	4870.0	4487.0	4194.3	3794.1	3360.2	3326.5	70°
72.5°	2825.8	3064.5	3305.2	3675.7	3959.5	3822.8	3582.1	3566.8	3243.3	2912.0	2918.9	72.5°
75°	2210.1	2389.4	2501.8	2719.8	2908.5	2786.2	2800.5	2885.7	2779.2	2518.2	2433.5	75°
77.5°	1601.3	1773.2	1808.9	1938.2	2070.9	2210.1	2394.4	2594.9	2628.7	2482.0	2174.9	77.5°
80°	1048.1	1237.3	1166.9	1213.0	1399.7	1653.8	1990.2	2320.6	2434.0	2302.2	1924.3	80°
82.5°	618.2	883.1	771.2	850.0	968.3	1189.7	1422.1	1671.2	1860.9	1720.7	1607.3	82.5°
85°	469.6	696.4	737.5	833.1	871.7	881.2	921.8	1003.0	1101.1	1137.7	1134.8	85°
87.5°	244.7	541.4	607.7	562.2	524.5	454.7	354.7	381.9	349.2	477.5	452.2	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P159095

NUMBER: VST-F03-LED-E-U-SLR

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
827.7	827.7	827.7	827.7	827.7	827.7	827.7
875.7	874.3	875.2	875.7	875.7	875.7	876.7
896.0	892.1	890.6	890.6	890.1	888.6	888.1
917.8	910.9	908.4	905.5	902.9	901.5	899.0
956.9	951.0	938.6	931.7	925.3	920.8	916.8
1009.4	1001.0	989.2	980.2	970.3	967.4	962.4
1090.7	1083.2	1072.9	1063.0	1057.0	1046.6	1039.2
1217.5	1202.6	1192.2	1179.4	1165.0	1143.7	1133.3
1384.4	1354.7	1333.9	1322.5	1293.8	1290.3	1265.0
1576.1	1567.2	1535.5	1521.6	1493.9	1483.0	1443.4
1862.9	1855.9	1791.1	1784.1	1741.5	1709.8	1648.4
2239.8	2182.9	2109.5	2058.5	1985.7	1904.0	1799.5
2569.2	2452.8	2340.8	2222.0	2121.4	2004.1	1885.7
2779.2	2623.2	2479.1	2357.2	2232.9	2093.2	1941.1
2963.5	2806.0	2648.9	2504.8	2354.2	2175.4	1987.7
3183.9	3027.4	2850.5	2648.0	2454.8	2235.8	2006.5
3409.7	3226.5	3005.6	2757.4	2514.7	2265.6	2003.0
3641.0	3406.8	3113.0	2830.2	2552.9	2270.0	1979.8
3828.8	3532.6	3192.8	2867.4	2560.8	2254.7	1950.5
3961.5	3613.3	3228.5	2880.2	2550.9	2230.4	1910.9
4037.3	3657.4	3237.4	2870.8	2530.6	2195.8	1867.9
4065.1	3670.8	3228.5	2851.5	2512.3	2158.6	1837.6
4062.1	3663.4	3195.8	2806.4	2463.2	2109.1	1800.5
4006.1	3594.5	3128.9	2752.4	2421.6	2086.3	1802.9
3911.0	3550.9	3109.1	2763.4	2443.4	2135.3	1881.2
3867.9	3638.1	3220.6	2872.3	2555.3	2275.5	2042.7
3843.7	3779.8	3380.0	2989.7	2688.1	2445.4	2235.4
3744.6	3820.4	3470.7	3056.6	2806.4	2615.8	2428.0
3584.6	3725.8	3401.8	3043.7	2871.8	2746.5	2497.4
3250.7	3399.8	3095.2	2854.0	2790.1	2748.5	2393.3
2633.6	2710.9	2537.5	2483.0	2506.8	2507.3	2007.5
1942.1	1895.6	1817.3	1821.3	1981.3	1956.5	1430.9
1585.5	1297.7	1186.8	1228.9	1426.5	1320.0	899.0
1475.5	1157.6	955.4	965.3	1077.3	850.4	541.4
1193.2	1055.0	846.0	759.3	737.0	566.6	367.5
499.3	459.2	341.8	308.1	252.6	154.6	70.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)