

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: P158419

Luminaire Tested: **VST-E02-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158419
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E02-LED-E-U-SL3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5510.9 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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



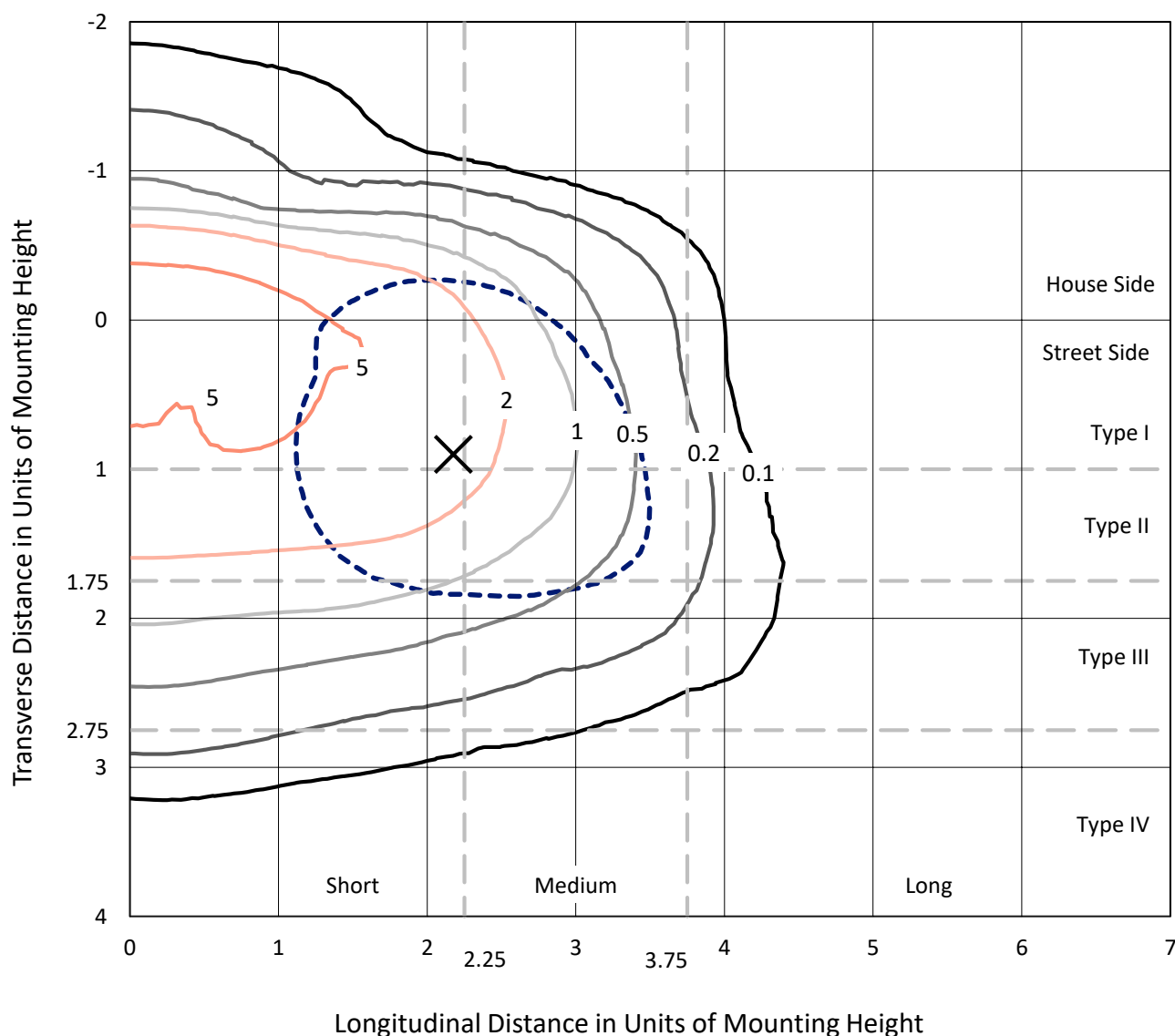
REPORT NUMBER: P158419

CATALOG NUMBER: VST-E02-LED-E-U-SL3-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

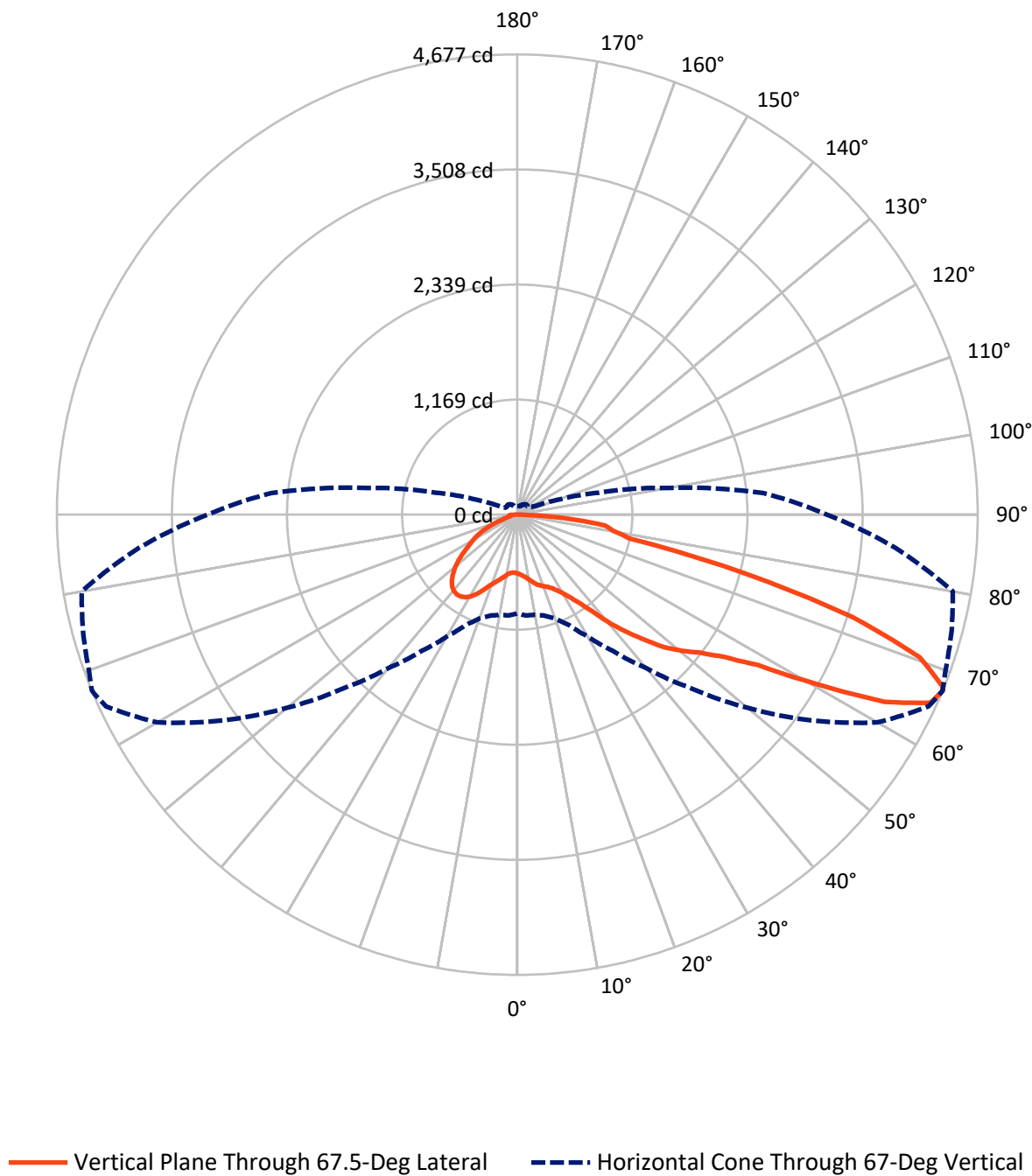


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P158419

CATALOG NUMBER: VST-E02-LED-E-U-SL3-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P158419

CATALOG NUMBER: VST-E02-LED-E-U-SL3-7030

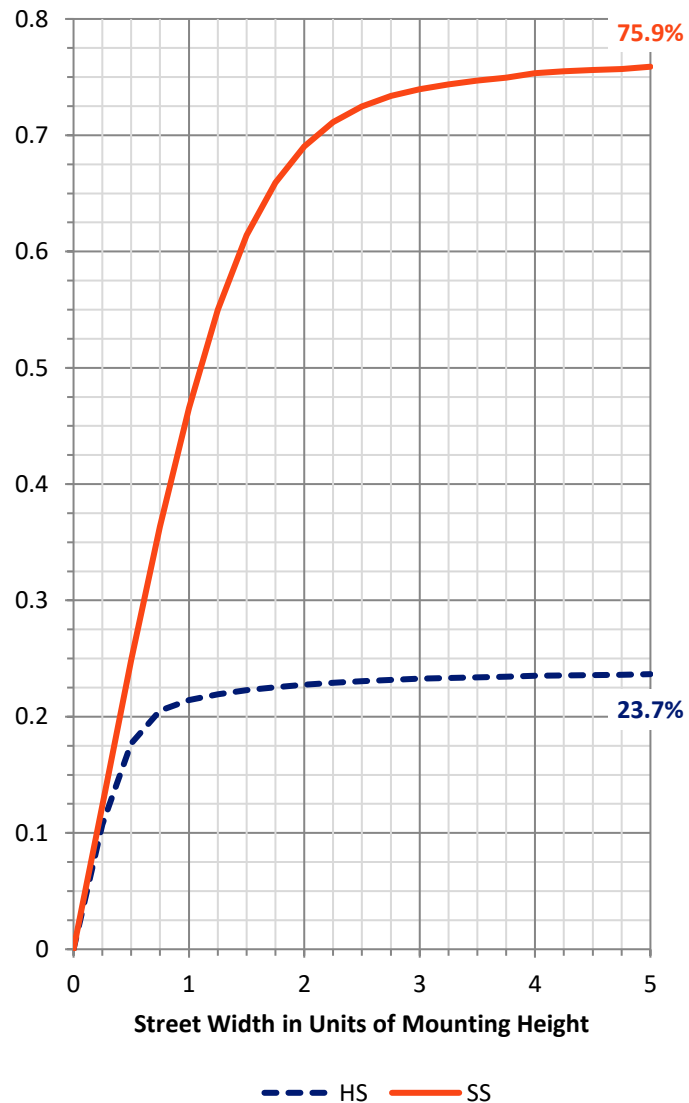
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1322.1	0.0	1322.1
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	4188.8	0.0	4188.8
	% Fixture	76.0	0.0	76.0
Total	Lumens	5510.9	0.0	5510.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	1.1
10°-20°	202.3	3.7
20°-30°	361.1	6.6
30°-40°	529.2	9.6
40°-50°	817.7	14.8
50°-60°	1190.7	21.6
60°-70°	1551.1	28.1
70°-80°	694.3	12.6
80°-90°	105.0	1.9
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°	5510.9	100.0
0°-180°	5510.9	100.0

Coefficient of Utilization



REPORT NUMBER: P158419

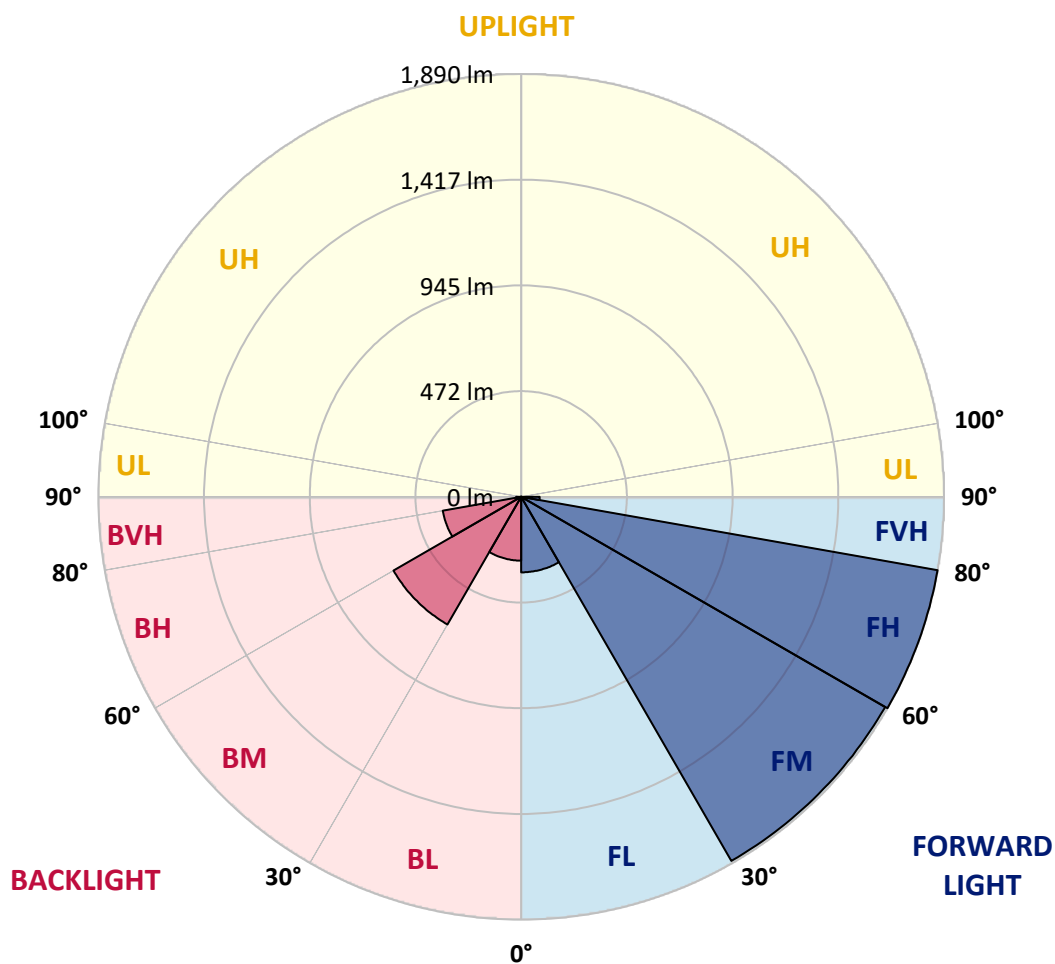
CATALOG NUMBER: VST-E02-LED-E-U-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.7	6.1			
FM	(30°-60°)	1878.9	34.1			
FH	(60°-80°)	1889.8	34.3			G2/5000
FVH	(80°-90°)	82.4	1.5			G1/100
BL	(0°-30°)	285.1	5.2	B1/500		
BM	(30°-60°)	658.8	12.0	B1/1000		
BH	(60°-80°)	355.7	6.5	B1/500		G1/500
BVH	(80°-90°)	22.5	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-G2

Type III Short





REPORT NUMBER: P158419

CATALOG NUMBER: VST-E02-LED-E-U-SL3-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	620.7	622.2	622.6	622.2	622.6	621.1	620.7	618.5	619.6	616.7	616.0
5°	654.3	655.4	656.2	653.2	653.9	652.5	650.7	648.5	645.5	641.5	639.0
7.5°	687.2	689.0	688.7	687.6	685.0	683.6	679.9	676.6	671.5	666.7	663.5
10°	731.4	731.0	731.0	724.9	721.2	717.9	711.3	706.2	701.1	694.1	690.5
12.5°	782.6	780.0	778.9	774.5	766.9	761.0	751.5	741.7	732.5	725.2	719.3
15°	831.9	831.9	829.0	822.0	814.7	807.1	793.5	779.3	764.3	752.6	746.8
17.5°	876.8	872.8	870.2	861.1	853.4	841.0	826.0	810.7	792.1	775.6	764.3
20°	909.7	906.4	900.9	889.6	876.5	861.8	844.3	826.4	806.3	788.4	775.6
22.5°	928.7	924.7	916.3	901.3	883.4	862.9	842.5	825.7	807.4	793.9	783.3
25°	938.6	934.6	923.2	903.5	879.4	852.4	829.0	812.5	801.9	798.7	797.2
27.5°	938.2	934.9	922.9	900.2	869.2	838.1	812.9	799.0	797.9	810.7	820.2
30°	928.7	926.5	915.5	892.9	860.4	827.9	804.5	797.2	808.5	835.6	858.9
32.5°	919.2	918.1	910.4	890.0	862.2	834.8	818.7	819.5	842.8	884.5	922.1
35°	920.3	921.8	920.6	909.7	892.1	877.9	870.2	886.3	922.9	973.3	1023.7
37.5°	929.8	935.3	942.2	943.3	943.7	941.5	957.5	991.6	1044.9	1110.7	1189.6
40°	950.6	956.8	976.9	994.4	1017.1	1044.1	1076.6	1123.8	1189.9	1271.0	1367.8
42.5°	1015.3	1024.0	1048.9	1081.4	1123.1	1165.4	1214.0	1278.3	1359.4	1444.9	1546.5
45°	1099.7	1117.9	1145.3	1181.5	1244.0	1303.6	1366.4	1438.3	1524.5	1631.6	1733.9
47.5°	1204.9	1223.2	1263.0	1301.7	1375.5	1449.7	1518.4	1593.6	1687.1	1796.8	1910.0
50°	1297.0	1317.8	1353.2	1405.4	1490.9	1581.9	1657.9	1739.4	1817.9	1933.4	2047.7
52.5°	1369.3	1384.3	1418.3	1466.1	1561.4	1661.2	1757.3	1847.9	1941.1	2056.5	2162.5
55°	1378.4	1392.3	1425.5	1480.4	1577.2	1687.9	1798.6	1906.0	2037.8	2163.9	2304.2
57.5°	1339.0	1350.3	1383.9	1432.9	1527.1	1653.2	1793.1	1930.8	2099.6	2269.9	2441.2
60°	1283.1	1294.4	1320.7	1359.8	1444.9	1580.8	1744.1	1932.7	2156.9	2402.8	2654.9
62.5°	1221.7	1231.6	1252.7	1280.5	1355.4	1480.7	1667.8	1920.6	2203.7	2535.1	2923.8
65°	1118.3	1142.0	1151.2	1179.7	1254.6	1372.9	1563.3	1839.1	2184.7	2593.9	3092.6
67°	1004.0	1028.0	1032.8	1061.7	1121.6	1235.2	1428.8	1688.2	2034.2	2492.3	3055.3
67.5°	967.4	987.9	995.2	1024.0	1080.7	1187.7	1371.5	1633.8	1988.2	2436.8	3010.4
70°	711.3	734.0	742.0	754.1	794.6	883.7	1005.4	1233.0	1585.2	1988.5	2539.5
72.5°	380.7	398.9	406.6	424.5	445.3	493.9	587.1	750.4	972.9	1330.6	1806.6
75°	257.6	264.9	270.4	282.8	304.3	343.1	384.0	441.4	575.8	750.8	1028.0
77.5°	146.9	150.2	150.9	153.1	170.2	207.1	274.4	371.6	476.4	544.0	657.6
80°	63.5	70.1	75.2	72.0	70.9	78.5	98.3	146.5	287.2	455.9	541.1
82.5°	34.3	37.3	41.6	42.0	44.2	46.7	50.8	60.3	84.8	171.0	373.0
85°	17.9	18.7	24.8	28.5	30.3	31.8	32.5	36.2	41.6	53.0	92.8
87.5°	2.6	3.7	4.4	5.8	6.6	7.0	8.0	10.2	12.1	14.6	24.8
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: P158419

CATALOG NUMBER: VST-E02-LED-E-U-SL3-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	612.7	611.9	609.8	608.3	606.8	605.3	603.5	602.1	599.5	597.7	595.5
5°	635.3	631.0	628.0	624.0	623.3	618.5	613.8	611.6	607.2	603.5	599.2
7.5°	658.3	653.2	648.5	645.2	643.4	636.8	632.0	626.6	621.4	616.7	611.6
10°	685.4	680.3	675.1	673.0	669.7	663.5	659.5	652.5	647.4	641.5	634.6
12.5°	713.5	709.9	706.2	703.3	701.8	698.9	693.1	687.2	680.3	674.4	666.4
15°	738.4	735.8	734.3	733.6	733.6	731.8	726.3	720.8	713.5	706.9	698.2
17.5°	755.9	754.8	755.9	757.0	758.5	757.0	755.9	749.7	744.9	736.9	728.1
20°	766.1	768.3	773.8	777.4	780.7	783.3	784.4	779.3	773.0	767.2	761.3
22.5°	777.1	783.3	792.8	798.2	803.8	812.9	815.1	811.4	806.7	803.0	796.8
25°	795.4	804.5	820.9	829.7	837.4	850.9	852.7	853.4	852.4	849.4	841.7
27.5°	823.9	841.7	863.6	875.0	883.4	900.9	907.9	907.9	904.9	908.2	908.2
30°	873.5	897.3	925.8	932.3	945.5	960.8	972.2	973.6	974.0	980.9	991.1
32.5°	949.9	972.5	1004.3	1011.6	1022.9	1037.6	1050.4	1048.9	1052.2	1067.2	1080.7
35°	1060.9	1084.0	1104.8	1114.7	1119.8	1132.9	1137.7	1145.7	1155.6	1174.2	1172.4
37.5°	1225.4	1245.8	1248.7	1255.0	1248.7	1251.3	1255.0	1264.4	1290.7	1307.6	1280.5
40°	1423.4	1457.3	1454.0	1446.7	1432.9	1414.3	1420.8	1435.4	1463.9	1449.3	1376.6
42.5°	1610.0	1645.1	1638.5	1630.1	1599.5	1592.5	1591.8	1603.9	1619.2	1577.5	1451.9
45°	1793.8	1829.6	1818.3	1813.6	1793.1	1778.1	1790.5	1791.2	1787.2	1698.1	1517.6
47.5°	1983.4	2016.3	2009.0	2013.0	1991.8	1982.0	1983.1	1978.0	1940.3	1800.4	1568.8
50°	2136.5	2180.7	2185.1	2176.0	2164.6	2149.7	2188.0	2174.2	2090.5	1899.8	1618.1
52.5°	2255.6	2315.2	2337.8	2332.0	2322.8	2324.6	2396.6	2412.4	2273.9	2025.1	1672.5
55°	2396.6	2490.5	2527.4	2549.3	2539.9	2576.4	2741.2	2749.2	2528.9	2188.7	1743.4
57.5°	2600.1	2734.6	2851.1	2882.2	2912.1	3030.8	3298.3	3216.8	2859.9	2436.5	1833.3
60°	2909.6	3204.1	3393.3	3492.7	3562.8	3728.6	3982.9	3776.5	3272.3	2731.3	1946.2
62.5°	3342.8	3773.2	4089.6	4189.4	4218.2	4313.6	4497.7	4102.7	3497.0	2863.6	1956.1
65°	3665.5	4181.7	4560.5	4611.7	4577.3	4579.2	4627.4	4085.6	3413.4	2748.1	1786.5
67°	3644.3	4222.3	4610.2	4677.4	4630.0	4567.5	4492.2	3852.9	3144.5	2506.3	1564.4
67.5°	3611.8	4183.1	4588.7	4659.5	4616.1	4544.8	4434.8	3762.7	3060.8	2431.0	1519.1
70°	3122.2	3689.6	4235.8	4335.5	4353.8	4288.7	3980.0	3172.6	2485.0	1977.6	1179.7
72.5°	2430.2	2935.5	3475.9	3562.4	3632.6	3445.1	2896.8	2191.3	1811.3	1425.2	854.2
75°	1604.6	2118.6	2391.2	2404.0	2314.4	1967.3	1415.3	1097.5	1010.2	837.7	528.7
77.5°	858.5	1245.8	1253.5	1160.7	1118.3	833.7	338.3	186.7	207.9	236.0	210.4
80°	640.4	793.5	919.6	988.6	1009.1	715.0	175.0	99.0	86.6	78.9	77.8
82.5°	577.6	766.5	859.3	896.9	887.4	588.2	98.3	66.5	55.1	59.9	68.3
85°	226.5	409.2	538.1	521.0	437.7	219.2	53.7	35.8	35.8	51.9	67.2
87.5°	46.4	84.0	114.0	108.9	97.9	42.4	26.3	21.5	21.9	42.0	63.5
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: P158419

CATALOG NUMBER: VST-E02-LED-E-U-SL3-7030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	593.3	591.1	589.7	588.2	586.7	586.0	584.9	584.9	582.7	582.0	581.3
5°	595.9	592.2	589.7	586.4	583.8	581.6	578.7	578.0	575.4	573.6	572.9
7.5°	606.8	601.3	595.9	591.8	588.2	583.4	580.1	577.3	574.7	572.9	570.7
10°	627.7	621.8	614.2	606.8	602.1	594.8	589.7	584.5	581.6	579.4	576.5
12.5°	658.3	649.9	640.8	632.0	624.0	614.5	609.4	603.2	599.5	597.7	595.5
15°	689.8	680.6	669.3	660.9	651.8	644.5	639.7	634.3	631.3	629.1	627.7
17.5°	721.9	711.3	703.3	694.9	690.5	685.0	678.8	671.9	663.5	658.3	651.4
20°	754.8	746.8	742.0	737.3	732.1	724.4	712.0	697.8	682.1	667.1	652.9
22.5°	793.1	788.4	787.7	783.3	772.7	754.4	731.4	704.8	678.1	653.2	633.8
25°	847.2	847.2	843.6	825.7	800.8	767.9	729.2	690.8	655.4	621.4	595.9
27.5°	915.2	912.6	894.7	857.8	813.2	762.1	710.2	661.6	616.3	579.1	546.2
30°	990.1	972.2	933.8	875.7	808.9	743.1	679.6	623.3	569.9	524.3	485.5
32.5°	1067.9	1024.4	955.4	875.7	793.5	714.6	641.2	572.1	511.1	460.0	413.9
35°	1138.4	1059.1	960.5	861.5	763.6	672.6	587.5	509.3	436.2	381.1	330.7
37.5°	1202.3	1082.2	955.0	833.7	720.1	613.4	513.7	427.4	344.9	291.5	248.5
40°	1244.0	1086.9	932.3	790.3	658.0	533.4	423.1	326.6	261.2	212.6	183.8
42.5°	1269.9	1077.8	895.8	730.7	574.3	432.9	317.5	234.2	185.6	158.6	147.6
45°	1284.5	1054.0	841.7	649.2	473.1	329.2	225.4	169.1	142.9	133.3	129.7
47.5°	1283.8	1015.6	774.2	554.9	361.3	229.4	159.7	131.9	124.6	121.7	120.9
50°	1276.1	968.5	694.9	452.6	260.9	160.0	126.4	118.4	116.5	114.7	114.0
52.5°	1265.5	910.1	607.2	352.9	185.2	127.9	114.7	112.5	111.1	109.3	108.5
55°	1245.8	838.1	512.2	265.6	145.0	115.4	110.7	110.0	108.1	105.6	104.1
57.5°	1221.7	765.0	421.3	207.5	128.2	112.5	110.0	108.9	106.3	103.4	100.4
60°	1212.9	704.8	350.0	175.0	124.2	113.6	111.8	110.3	106.7	102.3	99.0
62.5°	1158.1	636.8	298.9	162.2	126.4	118.4	117.7	115.4	110.0	104.9	99.7
65°	1016.4	538.5	253.2	153.4	130.8	126.4	127.1	123.8	118.4	111.4	102.3
67°	859.6	439.1	210.8	145.0	134.1	134.8	137.3	134.8	127.9	118.0	105.6
67.5°	818.0	413.9	200.2	142.5	134.8	137.0	139.9	138.1	131.2	119.8	107.0
70°	607.9	291.5	149.4	128.9	134.8	143.6	150.2	152.0	144.3	128.6	110.0
72.5°	428.2	188.2	114.7	111.8	122.4	134.1	146.5	152.7	143.9	126.8	106.0
75°	257.2	117.7	93.2	95.0	103.0	115.1	124.9	127.5	116.5	105.6	91.7
77.5°	119.1	78.2	73.1	75.6	83.3	88.8	88.8	83.6	75.2	68.7	65.8
80°	70.1	64.0	63.5	68.3	73.4	69.4	63.2	56.3	51.9	49.7	48.6
82.5°	65.8	68.3	72.7	73.8	69.8	59.9	52.3	45.3	43.1	42.0	40.9
85°	77.5	82.9	75.6	69.8	61.7	50.4	40.9	35.1	34.0	32.9	31.4
87.5°	71.6	68.3	59.6	51.1	42.4	30.7	22.3	20.1	21.5	21.2	20.5
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: P158419

CATALOG NUMBER: VST-E02-LED-E-U-SL3-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	597.4	597.4	597.4	597.4	597.4
2.5°	581.6	581.6	580.1	579.4	581.3
5°	571.4	571.7	570.7	570.3	570.7
7.5°	569.2	568.9	568.1	567.4	568.1
10°	575.8	575.4	574.3	575.0	574.0
12.5°	595.5	597.7	597.4	598.1	599.5
15°	627.7	627.3	626.2	626.9	628.0
17.5°	645.9	643.0	640.4	639.4	639.4
20°	641.5	633.1	628.7	626.2	625.4
22.5°	615.6	603.5	594.4	592.2	590.4
25°	573.2	558.2	546.5	544.0	539.2
27.5°	523.9	503.8	489.9	487.0	484.4
30°	459.2	436.2	420.1	409.9	413.2
32.5°	380.3	358.4	339.8	323.3	320.8
35°	293.8	269.6	253.2	245.9	241.1
37.5°	219.2	199.1	188.2	181.2	181.6
40°	167.7	157.1	151.3	146.5	146.9
42.5°	139.9	135.2	133.7	131.5	130.4
45°	126.8	125.3	125.7	123.5	122.8
47.5°	119.5	118.4	118.7	117.3	116.9
50°	113.6	112.9	113.3	112.1	111.8
52.5°	107.8	108.1	107.8	107.0	107.0
55°	102.7	102.3	103.0	101.9	101.9
57.5°	98.6	98.3	98.3	97.9	97.9
60°	96.4	95.0	94.6	94.6	95.0
62.5°	95.3	92.8	92.5	92.5	92.8
65°	95.7	91.7	90.2	89.9	89.5
67°	96.1	90.2	87.3	85.9	85.5
67.5°	96.4	89.5	86.2	84.8	84.0
70°	94.3	84.4	79.6	77.1	76.4
72.5°	88.8	78.2	72.4	69.1	68.3
75°	78.9	70.9	65.8	62.1	60.7
77.5°	61.0	57.4	55.6	53.3	52.6
80°	47.5	45.7	44.9	43.5	43.1
82.5°	39.5	37.6	36.5	34.7	33.6
85°	30.7	28.5	27.8	26.3	25.6
87.5°	20.1	19.0	18.7	16.8	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)