

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: P158861

Luminaire Tested: **VST-E02-LED-E-U-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158861
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-E02-LED-E-U-SLL-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5514.9 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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

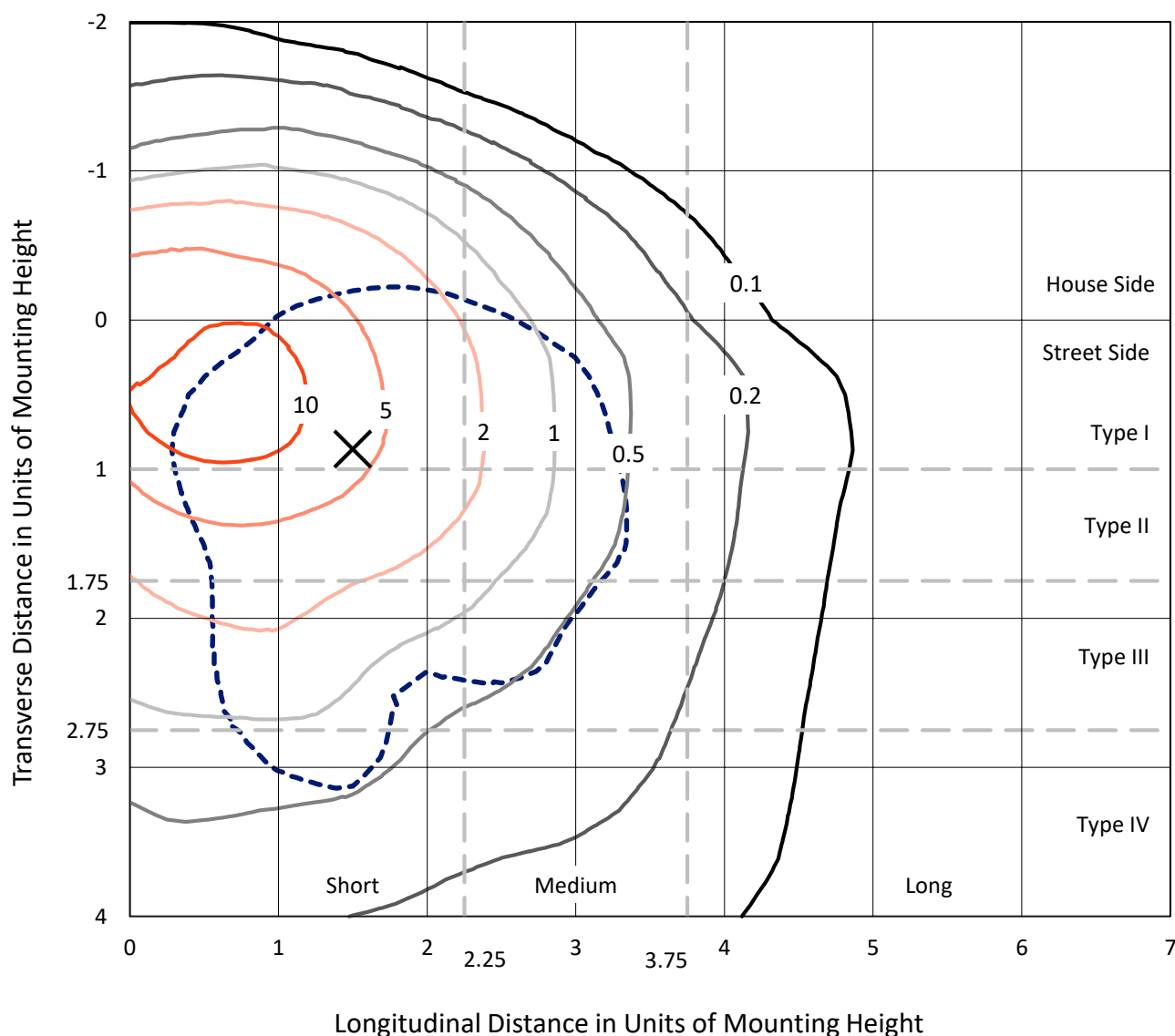


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

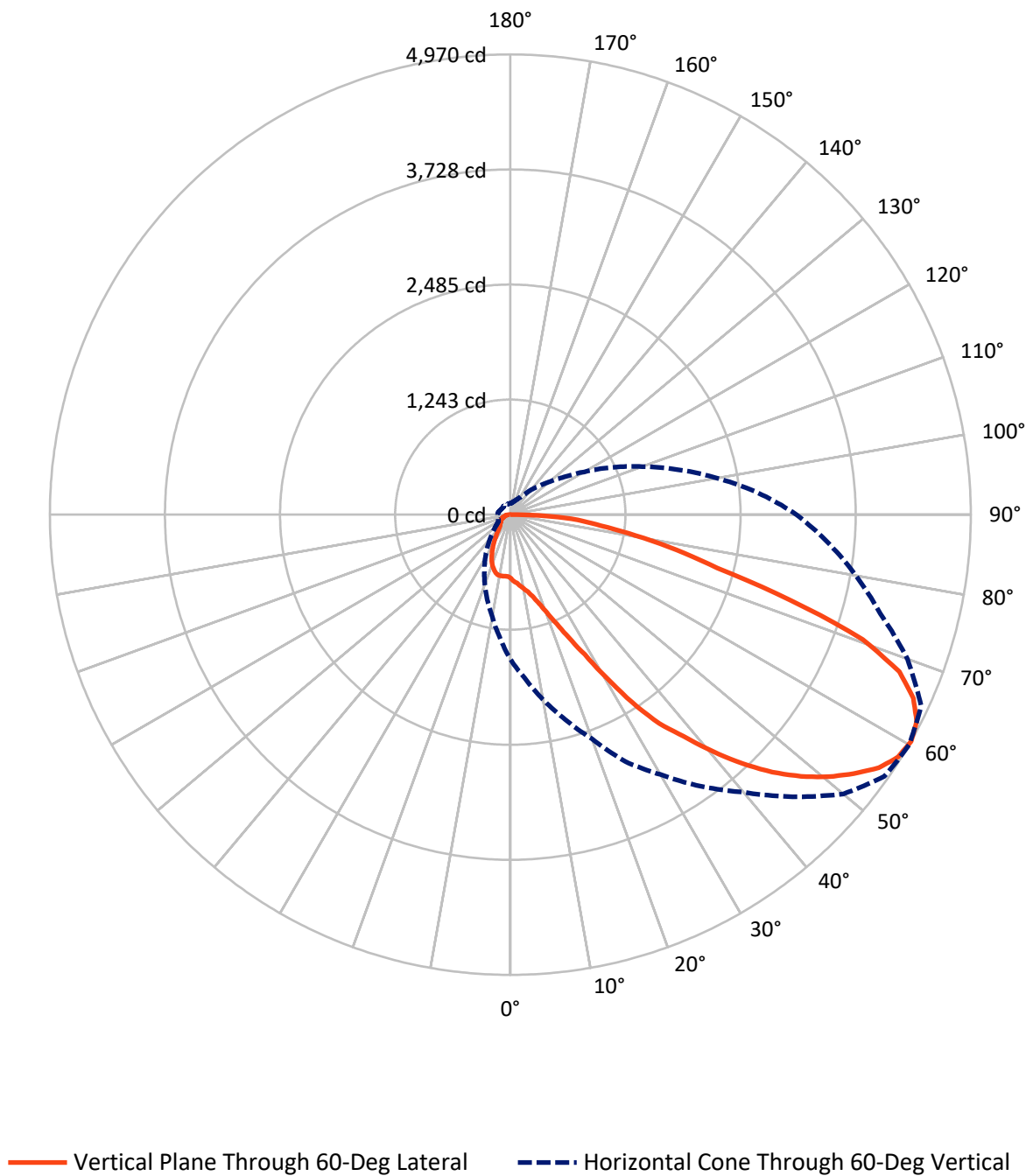


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1241.8	0.0	1241.8
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	4273.1	0.0	4273.1
	% Fixture	77.5	0.0	77.5
Total	Lumens	5514.9	0.0	5514.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	1.2
10°-20°	218.5	4.0
20°-30°	414.6	7.5
30°-40°	652.9	11.8
40°-50°	911.3	16.5
50°-60°	1127.0	20.4
60°-70°	1168.2	21.2
70°-80°	735.1	13.3
80°-90°	219.7	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°	5514.9	100.0
0°-180°	5514.9	100.0

Coefficient of Utilization



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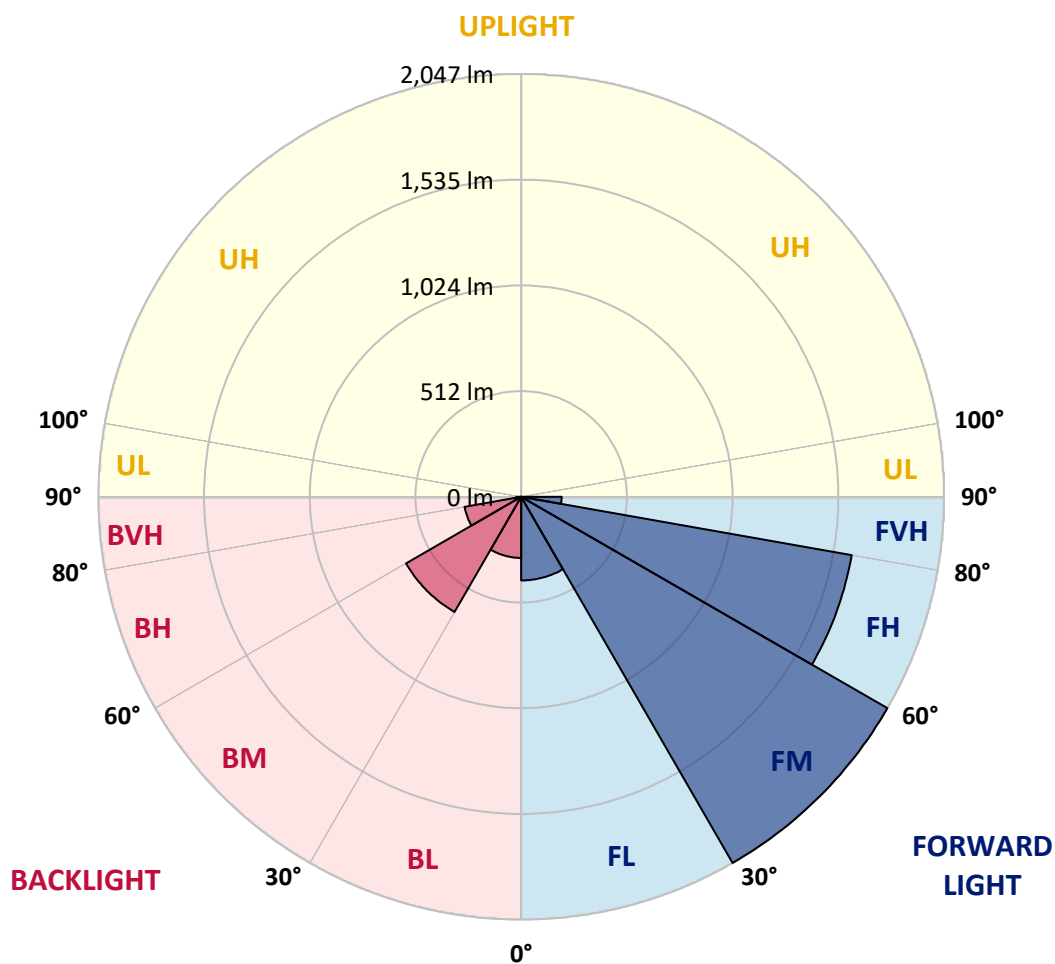
CATALOG NUMBER: VST-E02-LED-E-U-SLL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	404.9	7.3			
FM	(30°-60°)	2047.2	37.1			
FH	(60°-80°)	1625.2	29.5			G1/1800
FVH	(80°-90°)	195.8	3.6			G2/225
BL	(0°-30°)	295.8	5.4	B1/500		
BM	(30°-60°)	643.9	11.7	B1/1000		
BH	(60°-80°)	278.1	5.0	B1/500		G1/500
BVH	(80°-90°)	23.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9
2.5°	726.5	725.6	725.6	725.6	725.3	724.4	725.6	725.3	723.2	722.0	723.2
5°	735.9	736.3	737.6	738.0	738.0	739.2	742.5	742.9	742.5	743.3	745.4
7.5°	745.0	747.0	748.3	750.3	752.8	754.8	760.6	766.3	770.0	772.9	773.7
10°	759.7	763.0	766.7	772.0	777.8	788.0	793.0	798.7	802.4	808.1	809.4
12.5°	797.5	801.6	804.1	812.3	819.7	829.5	836.5	838.1	846.7	851.6	857.4
15°	861.1	867.2	875.9	880.8	889.0	897.7	903.8	912.0	913.3	919.8	924.3
17.5°	939.1	947.7	965.3	977.3	988.0	996.5	1008.8	1018.3	1020.4	1027.7	1018.3
20°	1048.3	1069.2	1072.1	1095.9	1105.3	1122.5	1147.2	1151.7	1163.6	1151.7	1144.7
22.5°	1196.0	1228.9	1237.9	1260.9	1272.4	1298.6	1306.0	1330.3	1338.5	1329.4	1310.5
25°	1366.0	1416.8	1443.1	1478.4	1484.2	1537.9	1543.7	1572.0	1556.8	1535.0	1535.5
27.5°	1491.1	1577.8	1645.4	1705.8	1748.1	1808.8	1856.0	1869.2	1854.8	1826.5	1816.6
30°	1562.6	1660.6	1757.9	1841.2	1939.7	2032.5	2129.0	2177.0	2185.2	2200.0	2140.4
32.5°	1608.5	1734.5	1850.3	1953.3	2054.3	2173.7	2303.0	2426.5	2530.4	2608.8	2571.8
35°	1647.1	1802.6	1950.8	2075.6	2195.0	2325.2	2455.7	2601.4	2773.4	2873.9	2894.8
37.5°	1662.7	1852.7	2034.2	2194.2	2362.1	2508.6	2638.3	2768.0	2948.6	3128.0	3183.4
40°	1659.8	1877.3	2083.8	2284.9	2490.5	2673.6	2825.5	2979.0	3190.4	3400.1	3490.4
42.5°	1640.5	1881.1	2115.4	2345.3	2579.6	2823.0	3017.2	3194.0	3396.8	3665.6	3793.3
45°	1616.3	1868.3	2122.0	2376.1	2645.7	2927.3	3172.7	3391.5	3629.1	3894.7	4049.0
47.5°	1583.5	1848.2	2113.8	2386.7	2675.3	2994.2	3282.7	3545.8	3807.2	4113.1	4308.8
50°	1547.8	1819.5	2096.9	2378.9	2682.7	3030.7	3345.5	3645.1	3950.5	4280.5	4528.0
52.5°	1522.7	1788.7	2081.8	2362.9	2675.3	3041.8	3368.5	3698.5	4038.4	4379.4	4675.0
55°	1492.0	1747.7	2041.1	2325.5	2648.2	3035.6	3366.1	3716.9	4062.5	4417.6	4755.0
57.5°	1494.0	1728.8	2006.6	2280.8	2592.8	2978.6	3319.7	3698.5	4024.4	4393.0	4757.8
60°	1558.9	1769.4	2024.7	2289.8	2576.3	2942.5	3240.8	3579.5	3912.4	4308.0	4691.3
62.5°	1692.7	1885.6	2117.5	2380.1	2668.7	3014.7	3205.1	3381.7	3677.2	4151.6	4578.1
65°	1852.3	2026.4	2227.4	2477.4	2800.9	3132.1	3185.0	3220.7	3370.1	3847.5	4365.5
67.5°	2012.0	2167.6	2325.5	2532.8	2876.0	3165.7	3103.0	3018.0	3098.4	3494.1	3947.6
70°	2069.5	2275.9	2379.7	2522.2	2818.9	3087.4	2970.4	2756.5	2784.4	3144.0	3475.6
72.5°	1983.2	2277.5	2312.0	2365.0	2564.9	2817.3	2693.8	2418.7	2413.0	2687.6	2955.6
75°	1663.5	2077.7	2077.3	2057.5	2102.7	2246.3	2182.3	2016.5	2086.7	2303.0	2391.2
77.5°	1185.8	1621.3	1641.8	1509.2	1505.9	1570.7	1609.3	1802.3	2056.7	2178.2	2150.3
80°	745.0	1093.8	1182.1	1018.3	983.4	1075.4	1313.8	1594.6	1907.8	2016.9	1922.9
82.5°	448.6	704.7	892.7	800.0	791.8	959.2	1222.7	1331.9	1425.9	1542.1	1384.9
85°	304.6	469.6	610.7	629.2	701.0	874.3	988.7	940.3	942.8	912.4	831.1
87.5°	58.3	128.0	209.3	255.3	283.2	380.5	413.7	374.8	395.6	289.4	316.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9
2.5°	721.1	721.1	721.1	719.1	719.5	716.6	715.4	715.4	714.2	714.2	713.8
5°	743.7	741.2	742.5	742.1	742.1	738.0	735.9	735.9	730.6	731.0	729.4
7.5°	777.4	776.9	778.2	775.7	772.4	769.1	765.9	764.2	756.8	752.3	749.5
10°	815.5	815.2	816.4	815.9	810.2	804.1	795.0	788.5	779.4	772.4	765.5
12.5°	857.4	857.0	856.2	852.5	846.4	836.5	825.0	813.9	800.3	791.3	781.1
15°	922.7	921.4	916.5	911.2	904.6	889.4	869.3	853.3	835.3	819.7	802.8
17.5°	1019.1	1008.8	1008.1	996.1	978.5	958.4	939.5	912.8	887.0	863.6	840.6
20°	1152.1	1128.3	1121.8	1108.2	1084.8	1063.9	1022.8	987.1	951.8	919.8	890.6
22.5°	1297.0	1279.7	1263.8	1241.6	1209.6	1179.2	1127.1	1082.3	1037.2	996.1	963.7
25°	1499.3	1469.4	1440.7	1405.4	1361.0	1324.9	1265.4	1220.2	1161.1	1123.8	1077.0
27.5°	1760.8	1709.5	1661.0	1630.7	1552.7	1500.2	1424.2	1366.0	1294.6	1244.0	1188.7
30°	2101.1	2041.6	1969.7	1864.6	1771.9	1667.6	1573.6	1498.9	1423.0	1352.4	1288.4
32.5°	2523.0	2417.9	2304.2	2137.6	1985.3	1836.7	1711.6	1619.6	1542.1	1454.2	1363.9
35°	2879.6	2771.3	2610.0	2398.2	2210.2	2040.3	1890.5	1764.9	1663.5	1552.3	1432.9
37.5°	3161.2	3037.7	2886.2	2661.3	2462.6	2269.3	2112.1	1952.0	1819.1	1666.0	1514.9
40°	3483.8	3359.9	3193.3	2960.1	2724.9	2515.2	2330.9	2165.5	2002.1	1815.4	1621.3
42.5°	3765.0	3675.5	3506.8	3265.9	3005.3	2771.7	2570.2	2381.0	2167.6	1958.6	1728.8
45°	4058.0	3966.9	3806.9	3554.8	3277.8	3017.6	2776.6	2573.0	2321.0	2072.3	1809.2
47.5°	4317.1	4223.5	4061.8	3811.4	3517.1	3242.9	2977.7	2731.5	2438.8	2153.2	1861.7
50°	4564.1	4449.6	4301.5	4051.9	3737.5	3444.4	3156.7	2840.7	2530.4	2209.8	1897.5
52.5°	4791.1	4645.4	4505.0	4248.1	3908.2	3602.0	3281.1	2933.5	2586.6	2254.6	1921.7
55°	4920.0	4826.0	4658.1	4405.7	4029.7	3710.4	3359.9	2998.7	2642.4	2286.2	1931.9
57.5°	4959.8	4936.8	4796.0	4496.8	4101.1	3769.9	3413.2	3050.4	2679.8	2295.2	1917.6
60°	4928.2	4970.0	4892.9	4560.8	4133.6	3787.6	3439.5	3087.4	2686.3	2266.4	1874.1
62.5°	4826.8	4922.0	4912.2	4582.2	4116.7	3765.4	3436.6	3068.5	2624.8	2177.0	1776.4
65°	4660.1	4780.0	4822.3	4502.9	4021.9	3684.5	3363.6	2949.8	2453.6	2002.1	1612.6
67.5°	4346.6	4528.0	4569.1	4243.6	3774.0	3460.9	3153.0	2703.6	2136.8	1731.7	1356.9
70°	3718.2	4035.5	4090.9	3749.4	3336.9	3061.9	2800.9	2313.2	1779.2	1388.9	1041.3
72.5°	2968.3	3167.8	3281.1	3045.9	2738.9	2539.4	2341.6	1774.7	1342.6	1024.9	716.6
75°	2320.6	2308.7	2410.1	2253.7	2073.1	1980.0	1831.4	1238.3	899.3	678.9	453.5
77.5°	1984.1	1831.4	1716.1	1606.1	1498.9	1469.4	1327.0	768.4	555.7	406.7	271.3
80°	1649.2	1370.5	1159.9	1005.2	967.0	1025.3	868.5	453.1	329.2	233.5	170.3
82.5°	1178.4	985.9	802.4	704.3	639.1	731.8	512.2	251.6	178.6	140.0	112.9
85°	763.9	730.2	722.4	690.4	611.2	577.1	389.1	216.7	133.8	87.0	70.2
87.5°	293.9	376.8	434.6	465.8	503.6	448.6	202.7	74.7	73.4	45.1	34.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9
2.5°	710.9	709.3	708.8	707.6	706.8	706.8	704.7	667.4	667.0	667.0	666.5
5°	726.1	724.0	722.0	721.6	719.9	719.9	717.8	680.5	680.5	680.5	679.7
7.5°	746.6	742.5	740.0	738.8	736.3	737.6	739.2	701.5	701.9	701.5	702.2
10°	761.4	758.9	756.1	755.2	753.6	754.8	757.3	719.9	721.1	721.6	722.4
12.5°	775.7	771.7	767.9	766.7	765.9	769.1	772.0	735.9	737.2	738.4	738.4
15°	793.4	786.4	781.5	778.6	776.9	780.2	784.4	748.6	749.0	750.3	749.9
17.5°	823.3	813.1	801.6	799.6	794.2	795.4	796.3	756.4	754.8	751.9	747.0
20°	869.7	854.2	838.6	832.0	821.3	816.8	807.8	756.8	746.6	738.0	730.6
22.5°	936.2	913.3	896.4	885.3	863.6	848.4	823.7	754.8	735.5	720.7	709.3
25°	1043.8	1016.3	990.4	962.5	928.4	898.0	861.9	772.9	742.9	717.5	695.3
27.5°	1148.4	1104.9	1065.1	1023.2	975.2	929.6	878.8	778.6	744.5	711.7	675.6
30°	1226.8	1163.6	1103.3	1042.1	979.3	920.2	862.7	758.9	718.3	681.4	643.1
32.5°	1274.4	1192.3	1114.0	1038.0	964.1	897.7	833.2	724.9	680.1	636.6	596.0
35°	1319.6	1217.8	1120.5	1031.0	946.5	872.6	803.2	685.0	631.7	585.3	534.0
37.5°	1375.4	1244.5	1124.6	1018.3	920.6	836.1	759.7	635.0	581.6	524.5	476.1
40°	1442.3	1271.9	1120.5	992.9	880.4	788.0	707.2	582.4	522.9	467.5	419.9
42.5°	1505.9	1296.2	1109.8	958.8	836.5	738.0	659.2	535.6	476.1	419.5	372.3
45°	1553.1	1316.7	1104.5	935.0	802.8	703.9	616.9	497.9	435.1	378.0	330.0
47.5°	1585.9	1329.0	1102.0	921.8	779.4	668.6	578.3	460.1	394.0	336.5	289.8
50°	1603.2	1328.6	1095.9	907.5	745.0	626.3	538.5	421.9	356.3	300.1	257.3
52.5°	1607.7	1321.2	1082.8	881.2	703.1	584.0	495.8	382.1	323.0	269.3	226.1
55°	1597.4	1303.1	1055.2	837.3	658.3	539.3	456.8	350.9	290.6	239.7	206.0
57.5°	1568.3	1271.2	1003.6	776.9	611.2	497.9	412.1	313.1	255.3	212.6	184.7
60°	1514.1	1203.4	922.7	705.5	551.2	434.6	350.5	263.9	217.9	185.9	163.4
62.5°	1414.0	1097.1	809.0	607.0	465.1	352.6	279.9	210.5	176.1	155.2	141.2
65°	1252.7	937.0	677.2	478.1	353.4	256.5	208.1	158.5	133.4	120.7	116.6
67.5°	1022.4	723.6	492.5	332.0	239.3	179.8	144.9	115.7	103.9	98.9	97.3
70°	743.3	493.0	318.9	209.8	158.0	125.6	109.6	93.2	86.6	85.4	85.4
72.5°	466.7	299.6	195.4	143.6	119.8	101.8	93.6	82.1	79.6	78.8	77.6
75°	273.8	181.8	138.3	117.8	102.6	91.1	84.1	74.7	73.1	72.7	71.4
77.5°	174.4	130.9	111.7	100.6	92.8	82.5	76.3	66.5	66.1	65.7	65.3
80°	125.2	108.8	97.7	89.0	81.2	71.8	68.2	60.4	59.5	59.1	59.9
82.5°	94.8	89.9	85.4	78.8	68.2	61.1	58.3	52.9	53.3	51.3	50.9
85°	65.3	64.4	64.0	61.1	53.3	47.2	45.1	42.3	44.3	42.3	39.8
87.5°	32.0	31.6	29.2	34.5	32.0	25.4	23.0	25.4	28.3	27.5	25.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: VST-E02-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9
2.5°	664.9	663.3	664.5	663.7	663.7	663.3	664.1	662.9	662.0	662.9	663.3
5°	678.1	676.0	676.4	673.6	674.8	671.9	672.7	670.7	668.6	667.8	667.8
7.5°	700.2	698.2	695.7	695.3	690.8	689.2	686.3	684.6	683.4	680.5	678.9
10°	720.3	717.1	714.2	713.8	709.3	705.1	701.5	698.2	696.1	692.0	689.9
12.5°	736.7	733.4	728.9	726.5	722.0	717.1	714.6	709.7	706.8	702.2	698.6
15°	746.2	740.5	733.9	729.4	722.8	717.5	713.8	710.0	707.2	701.5	696.1
17.5°	741.7	732.2	723.2	715.0	706.0	701.0	695.7	691.2	690.4	683.8	675.6
20°	722.8	711.7	699.8	688.7	676.8	669.8	663.3	656.3	654.2	646.4	635.8
22.5°	699.8	687.1	673.6	660.0	644.8	635.0	625.1	616.5	609.5	598.0	582.8
25°	676.4	657.5	637.8	620.6	602.9	590.6	580.4	570.9	562.7	544.3	528.7
27.5°	645.6	616.1	596.0	576.2	554.9	538.9	527.4	514.3	505.3	483.9	467.5
30°	606.2	576.7	547.9	528.2	506.9	489.7	474.9	456.0	442.9	427.3	412.1
32.5°	556.6	527.0	497.9	475.7	458.0	436.7	418.3	400.2	385.0	369.8	357.9
35°	496.2	467.5	440.0	417.8	398.1	381.3	363.7	348.1	330.8	314.4	307.4
37.5°	432.6	401.8	371.5	352.1	336.5	324.7	308.2	295.5	279.9	270.1	261.8
40°	377.2	344.3	315.7	299.2	286.9	273.4	259.8	250.0	238.9	229.0	222.9
42.5°	330.4	299.6	275.0	261.1	246.2	231.5	221.2	213.0	206.0	198.7	191.3
45°	287.3	257.8	237.2	220.0	207.7	195.8	188.8	185.1	181.0	176.5	171.5
47.5°	251.2	225.7	205.6	189.6	176.9	168.7	165.4	164.2	162.5	158.8	156.4
50°	223.7	202.7	182.2	167.9	157.2	153.1	149.4	148.1	146.1	144.9	143.2
52.5°	200.7	178.6	161.3	148.1	141.6	140.0	138.3	136.7	136.3	135.4	134.6
55°	181.8	162.5	146.5	136.7	133.4	132.2	131.8	130.1	129.7	129.7	128.5
57.5°	165.0	148.6	134.2	128.0	126.0	124.8	124.0	123.1	123.1	124.0	123.5
60°	147.8	133.8	125.2	121.9	120.7	118.6	116.6	115.7	116.2	118.2	118.2
62.5°	130.9	120.7	115.3	114.1	112.9	111.2	108.8	107.9	108.8	111.2	112.4
65°	112.4	107.9	106.3	105.5	104.6	103.4	101.8	101.0	101.4	102.6	104.3
67.5°	95.6	95.2	95.2	95.6	95.2	94.8	94.0	92.8	92.3	92.3	93.2
70°	85.4	85.4	86.6	86.6	86.2	86.2	85.0	83.8	82.9	82.1	82.5
72.5°	77.6	77.6	78.0	78.4	78.0	78.0	76.3	75.5	73.4	73.1	72.2
75°	71.0	70.2	70.2	69.8	69.4	69.8	68.2	66.1	65.3	64.9	64.0
77.5°	64.4	62.8	62.0	61.1	61.6	61.1	59.9	58.7	57.5	57.1	56.6
80°	57.1	54.6	53.3	51.3	52.6	52.9	52.1	50.9	50.5	50.1	49.7
82.5°	47.2	44.8	43.1	41.9	41.0	41.9	43.1	46.0	45.1	44.8	43.9
85°	37.0	32.8	30.8	31.2	29.2	29.6	33.2	34.9	34.9	35.7	34.9
87.5°	20.9	20.1	15.2	14.0	14.8	17.6	19.7	21.8	21.8	20.5	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9
2.5°	663.3	664.1	664.5	666.1	667.0	667.4	667.8	668.6	669.0	668.6	670.7
5°	666.5	666.5	665.8	667.0	667.4	667.4	666.5	667.4	667.4	667.4	669.4
7.5°	675.2	672.7	671.5	669.8	668.6	667.0	664.9	664.9	664.5	664.9	666.1
10°	684.2	680.5	676.0	671.9	668.2	665.3	661.6	660.4	660.0	659.6	662.9
12.5°	691.2	684.6	677.6	670.7	663.3	658.3	652.2	648.5	648.1	648.1	652.2
15°	686.3	675.6	662.0	649.7	643.1	636.2	629.2	624.7	624.3	625.1	627.5
17.5°	661.6	644.4	632.5	620.6	611.9	606.2	601.7	600.9	602.5	600.9	604.2
20°	619.7	601.3	593.1	583.6	580.4	576.2	569.7	563.9	563.9	556.6	558.6
22.5°	565.6	555.3	544.7	537.2	534.8	527.8	520.9	513.1	512.2	503.2	502.0
25°	508.9	498.7	490.1	488.4	481.0	471.6	465.1	456.0	454.0	444.9	443.7
27.5°	451.1	442.9	434.2	429.3	425.2	415.0	409.2	398.5	394.4	384.6	383.3
30°	396.1	390.4	380.0	376.0	368.2	356.3	344.0	337.4	334.1	323.8	320.6
32.5°	344.3	335.3	327.5	322.6	312.8	299.2	288.1	278.7	272.5	260.2	256.9
35°	295.1	286.1	282.4	269.6	261.1	252.0	236.8	231.1	220.0	210.5	207.3
37.5°	251.6	243.0	238.1	227.4	218.8	209.8	200.7	193.3	188.0	185.9	185.9
40°	214.3	209.8	203.6	195.8	190.0	183.5	178.6	176.1	175.7	176.5	178.6
42.5°	187.6	182.6	178.6	174.4	170.3	169.5	168.3	169.9	172.0	174.0	176.1
45°	167.5	163.4	160.9	159.2	158.8	160.1	162.5	165.0	168.7	171.2	172.8
47.5°	153.1	149.8	149.0	148.6	150.7	154.3	157.6	161.3	164.2	166.6	168.3
50°	140.8	137.9	137.5	137.1	140.0	143.2	146.1	151.0	153.1	154.7	155.9
52.5°	132.2	129.7	128.5	128.9	131.8	134.6	138.7	142.4	145.3	146.5	147.8
55°	125.2	124.4	121.5	122.7	125.6	129.3	133.4	137.5	140.4	142.4	144.5
57.5°	119.8	117.8	115.7	117.8	120.7	124.4	129.3	133.0	136.7	139.6	141.6
60°	114.1	112.4	110.8	112.9	115.7	119.5	123.1	128.0	132.6	135.4	137.5
62.5°	109.2	107.9	106.3	106.7	107.9	110.4	112.4	117.0	121.1	124.8	127.3
65°	102.2	101.8	99.3	99.7	100.6	103.0	104.6	108.8	112.9	116.2	118.2
67.5°	91.9	91.1	91.1	92.3	92.8	94.0	95.2	99.3	102.6	105.1	107.5
70°	81.7	81.2	81.2	82.1	81.7	82.9	84.5	88.3	92.3	94.8	97.3
72.5°	71.8	71.8	71.4	72.2	72.2	72.7	74.7	78.0	81.7	83.8	85.4
75°	63.2	62.8	62.8	62.8	63.2	63.2	65.3	68.2	71.8	73.1	75.5
77.5°	55.4	55.4	55.4	55.4	55.8	55.4	56.6	58.7	59.9	62.0	62.0
80°	48.8	48.4	48.8	49.3	49.3	48.8	48.8	49.3	49.7	49.7	49.7
82.5°	43.1	41.9	42.7	44.8	44.8	44.8	44.3	41.5	39.4	39.4	40.2
85°	34.5	34.5	34.9	37.7	38.2	36.5	38.2	34.1	29.9	28.7	29.6
87.5°	21.4	16.8	20.5	23.4	23.4	22.1	24.6	23.0	19.3	15.6	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	0°
2.5°	672.3	672.7	675.2	676.4	676.4	678.1	678.9	681.4	680.9	680.9	681.7	2.5°
5°	671.5	672.7	675.2	676.8	677.6	679.7	681.4	684.2	683.8	684.6	685.0	5°
7.5°	668.6	671.9	674.3	677.6	680.5	682.1	684.2	686.6	685.9	686.3	685.9	7.5°
10°	666.1	669.4	674.3	678.9	683.0	685.4	686.6	689.5	689.2	689.9	689.9	10°
12.5°	656.3	662.0	668.2	675.2	681.4	687.9	692.0	698.2	701.0	704.7	708.8	12.5°
15°	631.3	637.8	647.7	655.5	667.4	676.4	688.3	700.2	710.9	721.1	733.0	15°
17.5°	606.7	609.5	617.3	628.0	638.6	652.2	666.5	687.9	707.2	728.1	751.1	17.5°
20°	561.1	566.0	571.3	584.0	596.8	616.1	633.7	661.6	689.9	722.8	758.1	20°
22.5°	504.8	509.8	515.5	529.9	545.5	565.2	586.5	617.7	655.5	698.2	745.4	22.5°
25°	444.1	447.0	451.5	465.8	475.3	501.1	527.0	559.4	600.5	655.5	710.5	25°
27.5°	377.2	382.6	386.2	392.8	414.5	436.7	463.8	498.7	548.3	604.6	671.1	27.5°
30°	313.1	317.7	315.7	329.6	344.0	367.3	396.5	435.1	482.7	549.6	626.3	30°
32.5°	250.4	253.7	252.4	262.3	276.7	300.1	327.5	369.4	419.9	491.3	574.6	32.5°
35°	206.5	207.3	211.8	216.3	228.6	247.5	270.9	307.4	359.2	424.8	513.1	35°
37.5°	185.9	187.6	190.4	196.6	205.6	219.2	238.4	266.8	311.1	369.0	447.8	37.5°
40°	179.8	181.0	182.6	186.8	195.4	207.3	224.5	248.3	280.7	329.6	393.6	40°
42.5°	176.9	176.9	176.9	179.3	185.9	198.7	218.3	241.7	270.1	307.0	358.7	42.5°
45°	172.8	172.8	172.4	173.6	178.1	190.9	212.2	238.4	268.9	304.1	348.9	45°
47.5°	168.3	167.9	166.6	166.6	169.5	182.2	204.4	232.7	266.0	306.6	354.6	47.5°
50°	155.9	155.9	155.9	157.2	159.7	171.2	194.9	224.9	263.1	308.2	363.7	50°
52.5°	149.0	149.4	150.7	150.7	153.1	165.0	190.0	223.3	264.7	314.4	375.1	52.5°
55°	145.7	146.9	148.1	148.1	150.2	162.5	188.4	224.5	270.9	327.1	394.9	55°
57.5°	142.9	144.1	144.9	144.9	146.5	157.2	183.9	222.5	274.6	339.4	419.0	57.5°
60°	137.5	138.3	138.7	138.7	139.1	148.1	173.6	212.6	266.4	338.6	432.2	60°
62.5°	127.6	129.3	129.7	130.1	130.1	138.7	160.5	196.6	248.7	326.3	428.5	62.5°
65°	120.2	121.1	122.3	123.1	124.8	130.5	147.8	177.3	225.7	301.7	408.0	65°
67.5°	108.8	110.0	111.2	112.9	114.5	118.2	131.8	155.6	194.5	259.8	362.0	67.5°
70°	98.5	98.9	100.1	102.2	102.6	104.6	114.5	130.9	159.2	208.5	291.4	70°
72.5°	85.8	86.6	88.3	90.7	90.7	92.3	98.1	106.7	124.8	159.2	215.1	72.5°
75°	74.7	75.5	76.7	76.7	74.7	75.1	79.2	85.4	98.9	119.8	156.8	75°
77.5°	62.0	63.6	64.9	62.4	61.6	62.8	64.9	69.4	79.2	95.2	117.8	77.5°
80°	51.3	52.1	52.6	52.9	52.1	53.3	55.0	57.9	64.4	76.7	93.2	80°
82.5°	41.0	41.9	43.1	44.8	44.8	49.3	49.7	49.7	53.3	61.1	73.1	82.5°
85°	30.4	32.0	33.7	35.7	36.1	38.6	37.4	37.0	38.2	45.5	50.5	85°
87.5°	15.6	16.8	17.6	19.3	17.2	18.1	18.1	16.8	14.8	18.5	20.5	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°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
685.9	685.9	685.9	685.9	685.9	685.9	685.9
682.6	681.7	682.6	682.6	683.8	683.0	726.5
685.9	685.0	685.9	686.6	687.9	687.9	735.9
686.3	686.3	685.4	687.5	689.2	690.8	745.0
691.2	691.2	692.0	692.4	696.1	700.2	759.7
711.3	713.3	717.1	718.3	724.9	729.4	797.5
742.1	753.6	761.0	763.4	769.1	777.8	861.1
773.3	792.5	812.7	825.0	832.4	842.6	939.1
796.7	832.8	867.2	898.0	915.7	935.8	1048.3
798.7	856.2	914.5	971.5	1018.7	1056.1	1196.0
779.0	854.5	935.0	1022.4	1103.7	1171.0	1366.0
754.0	846.7	949.4	1061.0	1167.7	1267.0	1491.1
722.4	833.6	951.8	1077.4	1202.6	1322.0	1562.6
674.3	794.6	922.3	1061.0	1206.3	1351.6	1608.5
612.8	735.5	866.5	1024.4	1189.1	1363.5	1647.1
550.0	671.1	811.9	975.6	1161.5	1361.5	1662.7
483.5	603.8	747.8	923.5	1124.2	1342.6	1659.8
438.4	547.9	689.2	870.5	1082.8	1317.5	1640.5
412.1	508.1	642.8	822.1	1045.0	1287.5	1616.3
411.7	496.2	618.1	787.6	1006.8	1254.3	1583.5
426.1	503.6	615.2	772.9	985.9	1230.1	1547.8
442.9	524.2	630.4	778.2	985.5	1219.4	1522.7
469.6	559.0	663.7	801.2	996.1	1217.8	1492.0
503.6	606.2	723.6	857.8	1037.6	1250.2	1494.0
538.5	661.6	802.0	954.7	1119.3	1325.7	1558.9
551.2	704.3	881.6	1068.4	1241.6	1439.0	1692.7
540.1	714.2	930.1	1156.6	1360.6	1571.6	1852.3
499.1	674.3	910.4	1181.6	1429.1	1665.6	2012.0
410.9	575.5	820.9	1125.4	1423.8	1684.9	2069.5
301.3	446.2	667.4	956.3	1265.8	1564.2	1983.2
217.6	315.7	481.9	720.3	1000.7	1259.6	1663.5
155.9	218.8	312.8	473.2	681.7	877.1	1185.8
112.1	148.6	194.9	284.0	415.4	538.5	745.0
82.5	101.8	128.0	176.5	244.6	313.6	448.6
56.2	59.9	77.2	104.3	160.5	230.6	304.6
21.4	24.2	28.3	42.7	71.8	82.5	58.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)