

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: P165241

Luminaire Tested: **VST-F02-LED-E-U-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165241
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-F02-LED-E-U-SL3-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2583.3 lumens
Efficiency: N/A
Efficacy: 47.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 55
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



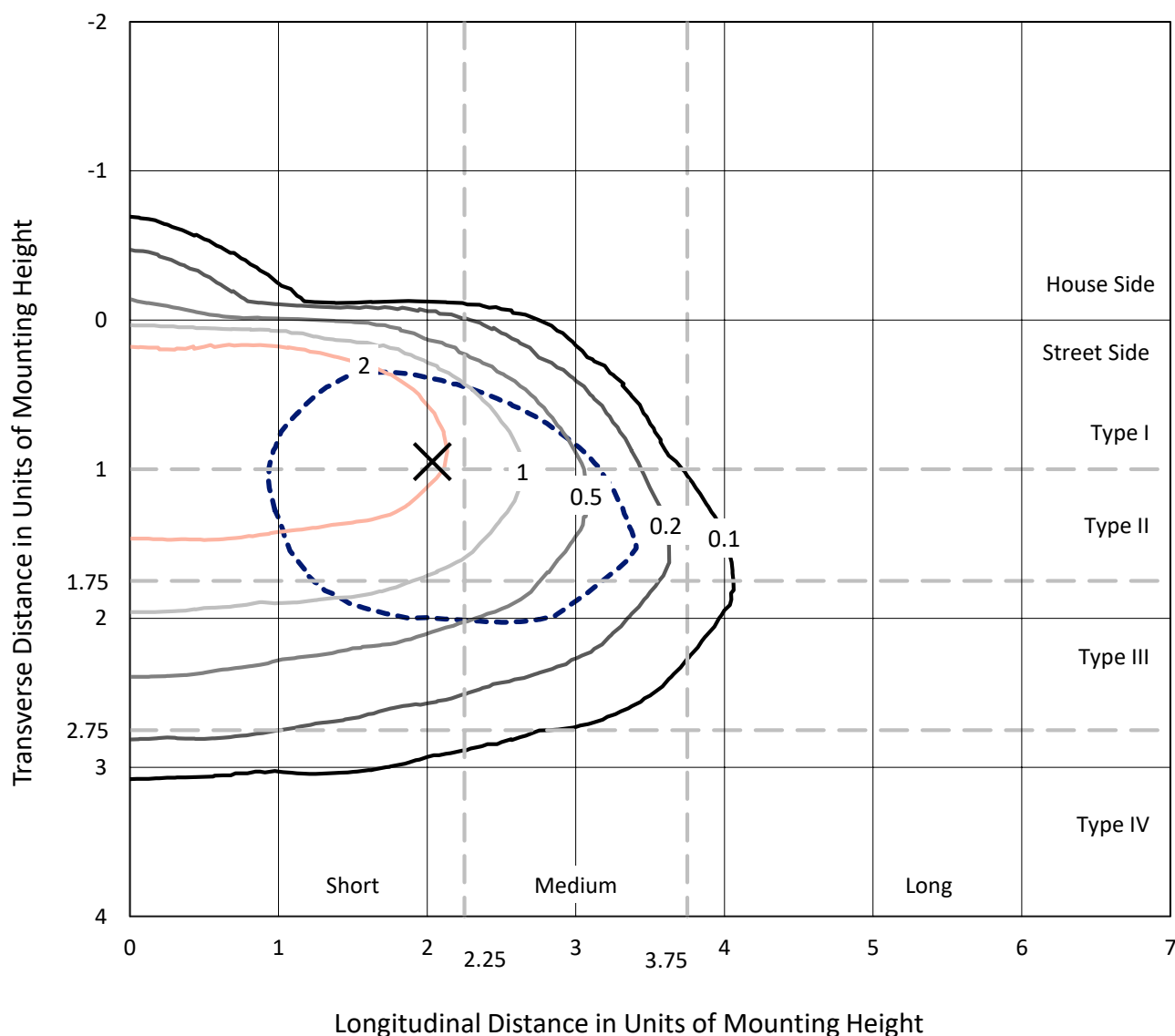
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

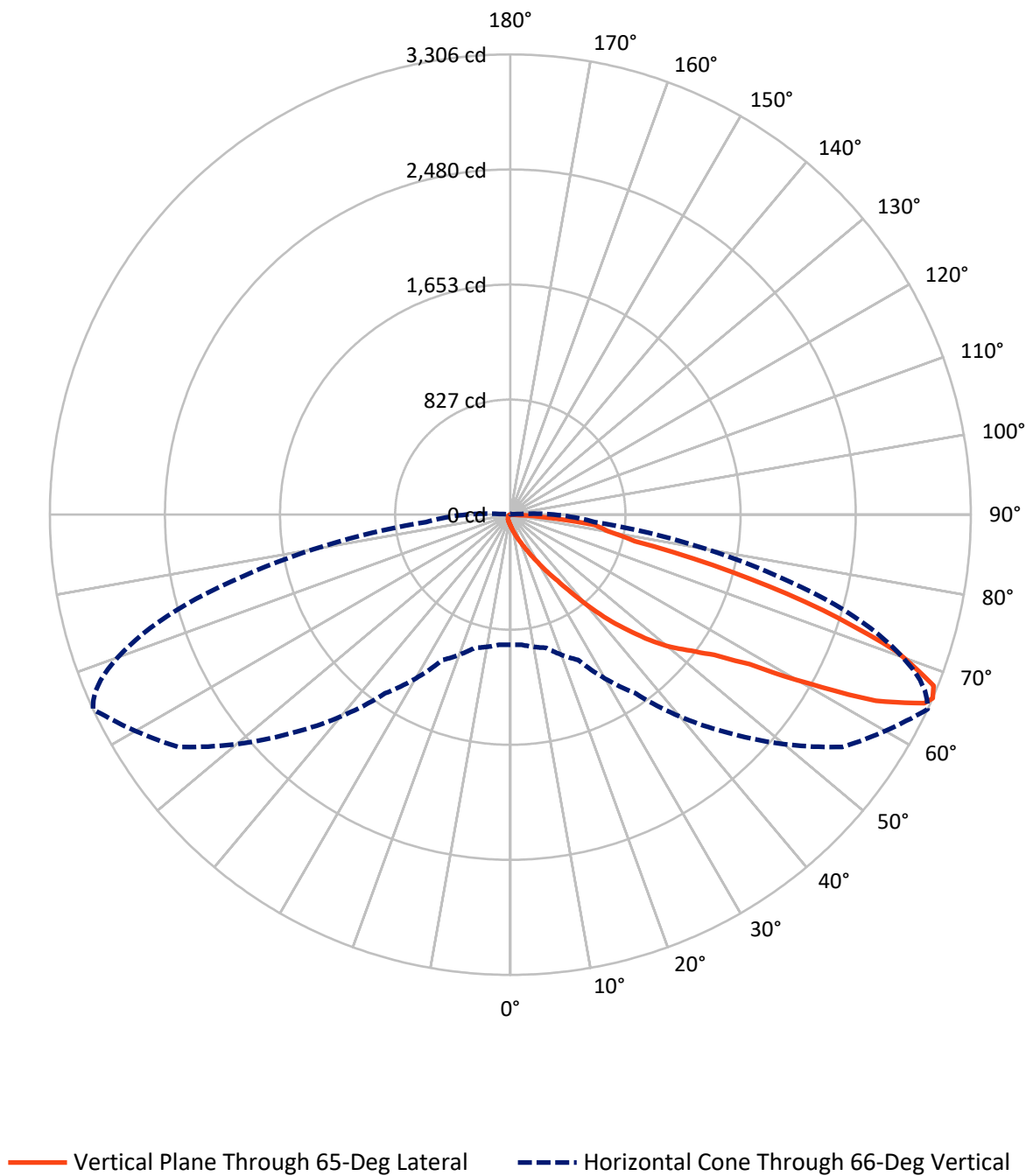


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	56.0	0.0	56.0
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2527.3	0.0	2527.3
	% Fixture	97.8	0.0	97.8
Total	Lumens	2583.3	0.0	2583.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.3
10°-20°	37.0	1.4
20°-30°	79.8	3.1
30°-40°	170.5	6.6
40°-50°	377.0	14.6
50°-60°	638.9	24.7
60°-70°	852.6	33.0
70°-80°	375.6	14.5
80°-90°	43.3	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°	2583.3	100.0
0°-180°	2583.3	100.0

Coefficient of Utilization



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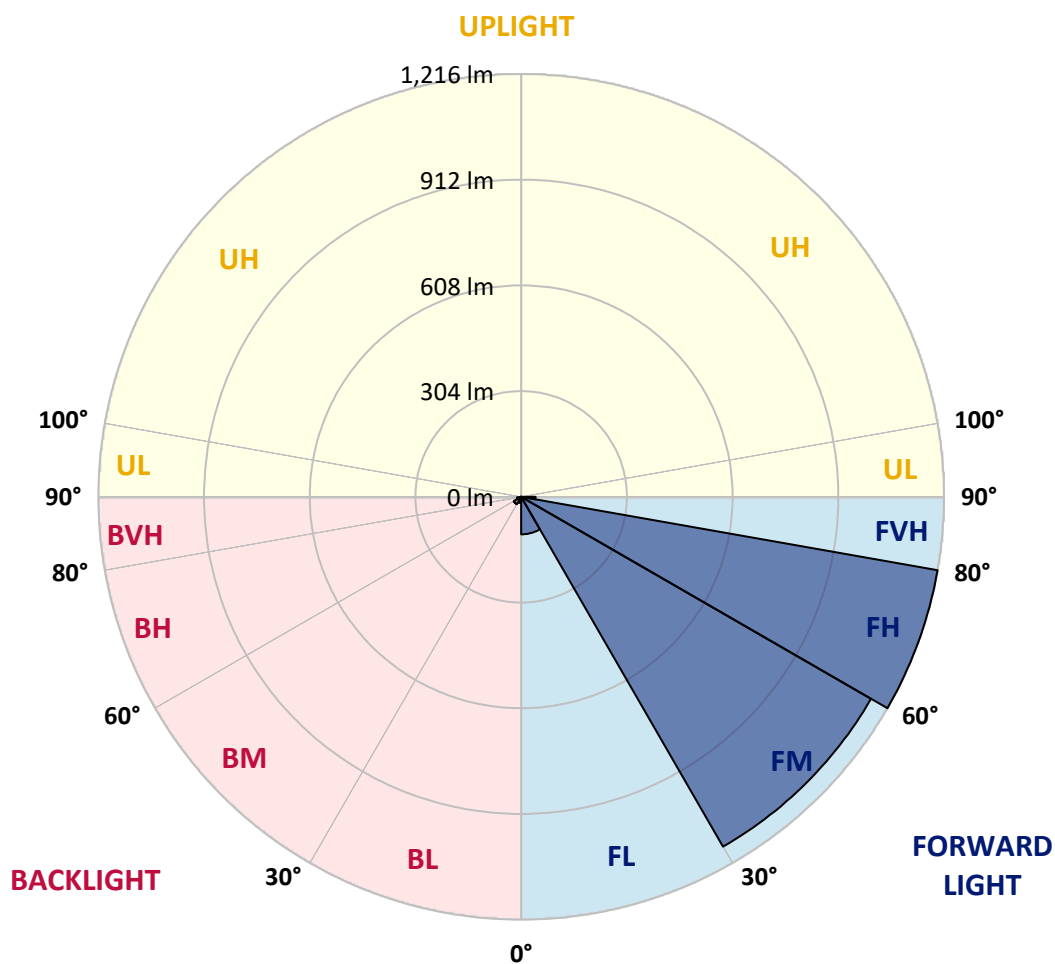
CATALOG NUMBER: VST-F02-LED-E-U-SL3-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.9	4.2			
FM	(30°-60°)	1161.8	45.0			
FH	(60°-80°)	1216.1	47.1			G1/1800
FVH	(80°-90°)	41.5	1.6			G1/100
BL	(0°-30°)	17.7	0.7	B0/110		
BM	(30°-60°)	24.6	1.0	B0/220		
BH	(60°-80°)	12.0	0.5	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
2.5°	98.3	97.9	95.8	95.8	92.9	90.9	88.4	85.9	85.9	85.4	84.9
5°	130.1	127.1	126.7	121.2	116.7	110.3	104.3	96.4	95.3	94.4	93.8
7.5°	165.4	164.9	160.4	154.0	145.0	133.1	121.2	108.3	106.3	105.3	103.3
10°	211.1	208.6	202.6	191.7	178.3	162.4	143.0	122.6	120.2	118.2	117.2
12.5°	254.8	250.3	246.8	232.9	216.1	192.7	169.3	140.0	138.1	135.6	131.6
15°	295.5	291.5	285.6	273.7	254.8	225.5	198.2	162.4	157.4	154.0	151.0
17.5°	327.3	324.8	317.9	304.4	284.1	258.2	225.5	185.2	181.3	176.8	171.4
20°	357.6	354.1	343.2	324.8	302.9	283.1	257.8	215.0	209.6	204.1	198.2
22.5°	386.4	382.9	365.0	334.7	311.4	302.9	294.0	248.8	240.4	235.9	229.9
25°	426.7	419.2	391.4	343.2	311.9	318.4	333.7	292.5	284.6	278.2	268.7
27.5°	480.8	470.8	427.1	355.6	313.9	335.3	379.4	345.7	337.2	329.8	319.4
30°	541.9	535.4	483.2	385.4	328.3	360.1	430.6	413.2	403.3	394.3	382.0
32.5°	603.4	594.5	542.8	442.0	367.0	408.2	494.7	491.7	478.8	470.3	456.9
35°	657.6	653.1	614.9	534.9	455.5	492.7	580.1	583.6	572.2	563.2	548.3
37.5°	694.3	694.3	686.9	634.7	596.0	623.8	705.7	706.3	694.8	674.5	667.0
40°	713.2	718.6	745.5	755.4	753.4	789.2	870.7	861.7	852.2	841.8	817.0
42.5°	751.9	756.9	814.0	882.5	927.2	974.5	1030.6	1027.6	1016.2	997.3	974.5
45°	817.5	824.0	892.0	1000.7	1092.6	1159.7	1195.4	1181.5	1170.1	1152.2	1140.3
47.5°	901.0	913.4	990.3	1124.9	1235.7	1346.4	1383.7	1346.9	1337.0	1323.1	1303.7
50°	989.8	1001.8	1083.7	1237.7	1362.8	1494.9	1557.0	1494.9	1480.6	1476.1	1454.2
52.5°	1066.8	1076.8	1155.7	1324.6	1460.2	1615.1	1705.5	1623.5	1613.1	1598.2	1582.3
55°	1112.5	1120.4	1194.4	1366.3	1526.2	1723.4	1849.1	1777.0	1761.7	1755.7	1732.8
57.5°	1127.9	1135.9	1202.4	1371.8	1562.0	1822.2	2023.4	2025.8	2007.5	1986.1	1979.2
60°	1127.9	1136.8	1193.0	1358.3	1596.7	1927.5	2255.8	2462.9	2423.2	2419.2	2393.9
62.5°	1081.2	1089.7	1146.3	1317.1	1643.5	2069.6	2579.6	2945.2	2933.8	2907.9	2866.2
65°	979.9	984.8	1040.5	1211.8	1625.5	2200.2	2860.2	3266.0	3247.6	3197.0	3143.3
66°	934.2	938.2	990.3	1151.8	1567.0	2218.1	2909.9	3306.2	3275.9	3233.2	3172.6
67.5°	868.1	875.1	911.8	1040.0	1426.4	2156.0	2878.6	3277.9	3251.6	3199.9	3139.4
70°	579.6	574.6	704.3	798.1	1086.7	1756.7	2582.6	2943.2	2943.7	2919.4	2895.0
72.5°	275.2	278.2	315.8	491.2	711.2	1173.6	2055.7	2349.2	2383.0	2339.2	2308.9
75°	197.6	202.1	225.0	300.5	424.1	704.3	1332.5	1642.9	1643.9	1566.4	1497.4
77.5°	57.6	60.1	84.4	185.2	317.9	475.3	765.4	913.4	892.0	836.3	784.2
80°	23.8	23.8	24.8	59.1	127.6	322.8	535.4	703.3	700.8	679.4	648.7
82.5°	8.9	9.4	11.9	24.4	30.3	79.5	357.1	610.4	608.9	578.6	556.7
85°	1.0	1.0	3.0	10.4	11.5	14.9	71.5	269.2	267.7	269.2	235.9
87.5°	0.0	0.0	0.5	1.0	1.5	2.0	3.0	10.4	11.5	10.9	9.9
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-F02-LED-E-U-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
2.5°	84.9	83.9	83.9	83.5	83.5	83.5	82.9	82.4	82.4	82.0	81.5
5°	92.9	91.9	91.4	90.4	89.9	89.4	88.4	87.9	86.9	86.4	85.9
7.5°	102.3	100.3	99.8	98.3	96.8	95.8	94.9	93.4	92.4	90.4	89.9
10°	114.2	111.7	109.7	107.8	106.3	103.8	102.3	100.3	98.3	96.8	95.3
12.5°	129.6	126.2	123.2	121.2	117.7	114.7	111.7	110.3	106.3	104.3	101.8
15°	146.5	142.6	139.1	135.1	132.6	127.6	123.7	119.2	117.2	113.8	109.7
17.5°	168.4	161.9	156.4	152.5	147.5	142.6	138.1	133.6	127.6	123.7	118.7
20°	191.7	186.2	178.8	171.8	165.9	160.0	153.5	147.5	142.1	135.6	129.6
22.5°	221.5	213.5	204.7	197.6	189.7	183.3	174.3	166.4	157.4	149.0	142.1
25°	259.3	248.8	240.4	230.5	221.0	211.1	200.2	190.2	178.8	170.9	158.9
27.5°	305.9	296.0	284.6	271.7	262.3	247.3	232.9	220.5	207.1	194.7	181.3
30°	365.5	351.1	339.2	326.8	307.9	293.5	276.6	259.7	241.4	229.0	208.6
32.5°	437.0	421.7	403.8	385.9	368.5	348.2	327.3	306.4	286.1	263.2	242.3
35°	524.5	506.1	485.7	466.4	439.6	417.7	391.4	362.6	339.7	313.4	287.0
37.5°	640.2	609.9	592.0	571.6	535.4	505.6	476.3	447.5	407.2	379.4	342.2
40°	785.2	767.3	738.1	705.2	672.5	633.2	593.5	555.3	508.6	469.8	426.7
42.5°	955.6	929.3	899.5	852.2	819.0	772.8	727.6	676.9	619.8	570.2	519.5
45°	1115.5	1084.2	1061.3	1014.2	979.4	924.8	870.1	816.5	750.4	686.4	627.8
47.5°	1288.3	1262.5	1224.8	1186.5	1151.3	1089.7	1030.6	965.5	896.0	820.0	744.0
50°	1440.3	1420.0	1394.1	1347.9	1308.7	1257.0	1187.5	1116.5	1028.6	953.1	866.7
52.5°	1569.4	1553.5	1517.3	1484.5	1449.2	1400.6	1338.5	1270.4	1175.6	1092.6	994.3
55°	1721.9	1710.5	1678.7	1658.3	1627.1	1580.4	1522.3	1459.2	1358.8	1268.5	1157.2
57.5°	1971.7	1962.8	1934.9	1926.5	1895.7	1855.0	1783.5	1715.9	1598.8	1486.5	1359.4
60°	2385.4	2367.5	2326.8	2306.0	2240.9	2186.3	2093.4	2000.5	1859.0	1715.9	1562.9
62.5°	2828.5	2778.3	2700.8	2634.3	2541.9	2447.0	2322.8	2180.8	2014.9	1845.1	1669.3
65°	3067.3	2981.9	2884.1	2778.3	2658.6	2519.0	2362.6	2192.3	2014.0	1834.6	1648.9
66°	3094.7	2998.3	2894.5	2776.8	2643.7	2495.2	2336.3	2157.5	1972.2	1797.4	1611.7
67.5°	3060.4	2959.6	2849.8	2719.2	2575.1	2421.2	2254.3	2068.6	1890.2	1712.9	1532.2
70°	2820.5	2720.2	2622.3	2484.8	2331.3	2176.4	2018.4	1810.8	1642.0	1479.1	1318.1
72.5°	2252.3	2184.3	2087.5	1969.7	1820.2	1638.5	1506.8	1321.1	1174.6	1016.6	892.0
75°	1407.5	1311.7	1192.0	1042.0	927.7	780.2	703.3	562.2	478.8	405.8	335.3
77.5°	719.6	647.6	563.7	479.3	398.3	317.9	245.8	173.8	117.2	81.5	60.6
80°	594.5	530.9	461.4	384.4	312.9	242.9	174.8	119.2	76.0	49.7	38.7
82.5°	491.2	437.6	375.5	304.0	241.9	190.7	132.6	86.4	53.6	34.8	27.3
85°	209.1	189.7	146.5	116.2	87.4	64.6	45.2	30.3	21.4	17.4	15.9
87.5°	8.9	9.9	9.4	7.4	5.5	5.5	5.0	4.0	4.0	4.0	4.0
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
2.5°	81.5	80.9	80.5	80.5	80.0	79.5	76.5	74.0	71.0	69.1	67.0
5°	84.9	84.4	83.5	82.9	82.0	81.5	75.0	69.5	65.0	61.6	59.1
7.5°	88.4	87.9	86.4	84.9	84.4	83.5	73.0	66.1	60.1	56.1	53.6
10°	92.9	91.4	89.9	87.9	86.4	84.9	71.0	62.0	55.6	52.1	49.7
12.5°	99.3	96.8	94.4	91.9	89.9	87.4	70.0	58.6	52.1	48.2	45.7
15°	106.8	103.3	100.3	97.4	93.8	91.4	68.0	55.6	49.1	45.2	42.2
17.5°	113.8	109.7	105.3	100.8	97.4	93.8	66.1	52.7	46.2	42.2	39.2
20°	123.7	117.7	112.3	106.8	101.8	97.4	63.1	49.7	43.7	39.2	36.2
22.5°	134.6	127.6	120.7	113.2	106.8	100.8	60.6	47.2	41.2	36.8	33.2
25°	148.5	140.0	130.6	121.2	113.8	105.8	58.1	44.7	38.7	34.3	30.8
27.5°	167.9	155.9	145.5	133.6	122.2	113.2	56.1	42.7	36.2	31.8	28.3
30°	194.2	176.8	160.4	147.5	134.1	121.2	54.1	40.3	34.3	29.3	25.3
32.5°	223.5	203.1	184.3	164.9	148.0	133.1	52.1	38.2	31.8	26.8	23.3
35°	259.7	233.9	208.6	186.2	165.9	146.0	50.2	36.2	29.8	24.4	20.9
37.5°	311.9	279.6	246.4	217.6	191.2	164.9	48.7	34.3	27.3	21.8	18.4
40°	383.4	341.7	301.0	261.7	227.5	194.7	46.7	32.3	25.3	19.9	16.4
42.5°	460.9	410.2	356.6	312.4	265.2	224.0	44.7	30.3	23.3	17.9	14.4
45°	557.3	494.2	429.1	369.0	311.4	258.2	42.7	28.3	20.9	15.9	12.4
47.5°	662.5	582.1	508.6	433.1	364.6	301.0	40.3	26.8	18.9	13.9	10.9
50°	770.8	685.9	593.0	507.1	425.6	343.7	37.7	24.4	16.9	12.4	8.9
52.5°	887.5	787.2	692.3	585.5	490.7	399.8	35.3	22.3	15.4	10.9	7.4
55°	1036.0	923.8	812.5	692.8	578.6	464.9	32.8	19.9	13.4	9.4	6.0
57.5°	1222.7	1089.7	953.1	818.0	679.4	550.3	30.8	17.4	11.5	7.9	5.0
60°	1399.1	1243.6	1078.3	922.8	766.3	615.8	27.8	15.4	9.9	6.5	5.0
62.5°	1490.5	1313.2	1134.8	963.5	796.6	639.2	24.8	12.9	8.5	5.5	4.4
65°	1468.1	1287.4	1114.5	941.6	778.3	624.3	21.8	11.5	7.4	5.0	4.4
66°	1435.9	1257.0	1083.2	918.8	762.8	608.4	20.3	10.9	7.0	5.0	4.0
67.5°	1365.3	1192.4	1026.6	873.6	720.7	578.1	18.4	9.9	6.5	4.4	4.0
70°	1166.2	1009.2	876.6	740.5	615.8	487.3	14.9	8.5	5.5	4.0	4.0
72.5°	771.8	665.0	576.6	496.1	414.7	321.8	12.4	7.0	4.4	4.0	3.5
75°	291.1	263.2	226.0	203.1	177.3	155.5	9.9	4.4	3.5	3.5	3.5
77.5°	51.7	47.7	42.2	38.7	35.8	32.8	7.9	3.0	3.0	3.5	3.5
80°	34.8	32.3	29.3	26.8	24.8	22.3	5.5	2.5	3.0	3.0	3.5
82.5°	24.8	23.3	21.8	19.9	18.4	16.4	3.5	2.5	3.0	3.0	3.0
85°	14.9	13.9	12.9	11.9	10.4	9.9	2.5	2.5	2.5	3.0	3.0
87.5°	4.0	3.5	4.0	4.0	3.0	3.5	2.0	2.0	2.0	2.5	2.5
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-F02-LED-E-U-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	77.9	77.9	77.9	77.9	77.9
2.5°	66.1	66.1	65.0	66.5	66.5
5°	57.1	57.1	56.6	57.1	57.1
7.5°	52.1	51.7	51.7	51.7	52.1
10°	47.7	47.2	47.2	47.2	47.2
12.5°	43.7	43.2	42.7	43.2	43.2
15°	40.3	39.2	39.2	39.2	39.2
17.5°	37.3	36.2	35.8	35.8	35.8
20°	34.3	32.8	32.8	32.8	32.8
22.5°	31.3	29.8	29.8	29.8	29.8
25°	28.3	26.8	26.8	26.8	26.8
27.5°	25.8	24.4	24.4	24.4	24.4
30°	22.9	21.8	21.8	22.3	21.8
32.5°	20.9	19.4	19.4	19.9	19.9
35°	18.4	17.4	17.4	17.4	17.4
37.5°	15.9	14.9	14.9	14.9	14.9
40°	13.9	12.9	12.4	12.9	12.9
42.5°	11.9	10.9	10.4	10.4	10.4
45°	10.4	8.9	8.5	8.9	8.9
47.5°	8.5	7.4	7.4	7.9	7.9
50°	6.5	6.5	7.0	7.9	7.9
52.5°	6.0	6.0	7.0	7.9	7.9
55°	5.5	6.0	7.0	7.4	7.9
57.5°	5.0	6.0	7.0	7.4	7.4
60°	5.0	5.5	6.5	7.4	7.4
62.5°	4.4	5.0	6.0	7.0	7.0
65°	4.4	5.0	6.0	7.0	7.0
66°	4.4	5.0	6.0	7.0	7.0
67.5°	4.4	5.0	6.0	7.0	7.0
70°	4.4	5.0	6.0	6.5	6.5
72.5°	4.0	4.4	5.5	6.5	6.5
75°	4.0	4.4	5.5	6.5	6.5
77.5°	4.0	4.4	5.5	6.5	6.5
80°	4.0	4.4	5.5	6.0	6.5
82.5°	3.5	4.4	5.0	6.0	6.0
85°	3.5	4.0	5.0	5.5	6.0
87.5°	3.0	3.5	4.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)