

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: P165474

Luminaire Tested: **VST-F03-LED-E-U-SL4-HSS-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165474  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)  
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-SL4-HSS-7060  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (21) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

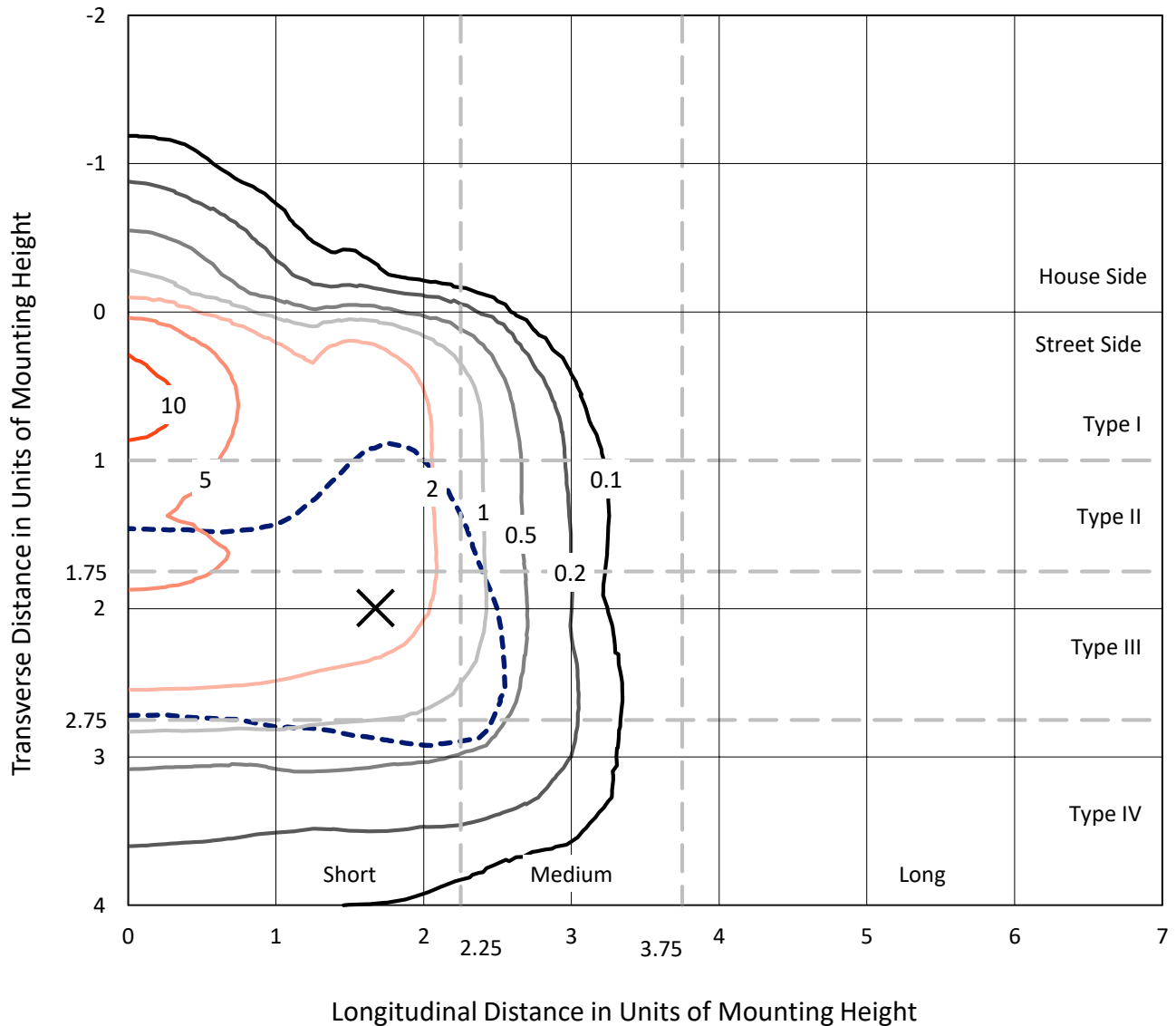
Lumens per Lamp: N/A  
Luminaire Lumens: 5109.1 lumens  
Efficiency: N/A  
Efficacy: 65.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 78.3  
Input Voltage (V): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

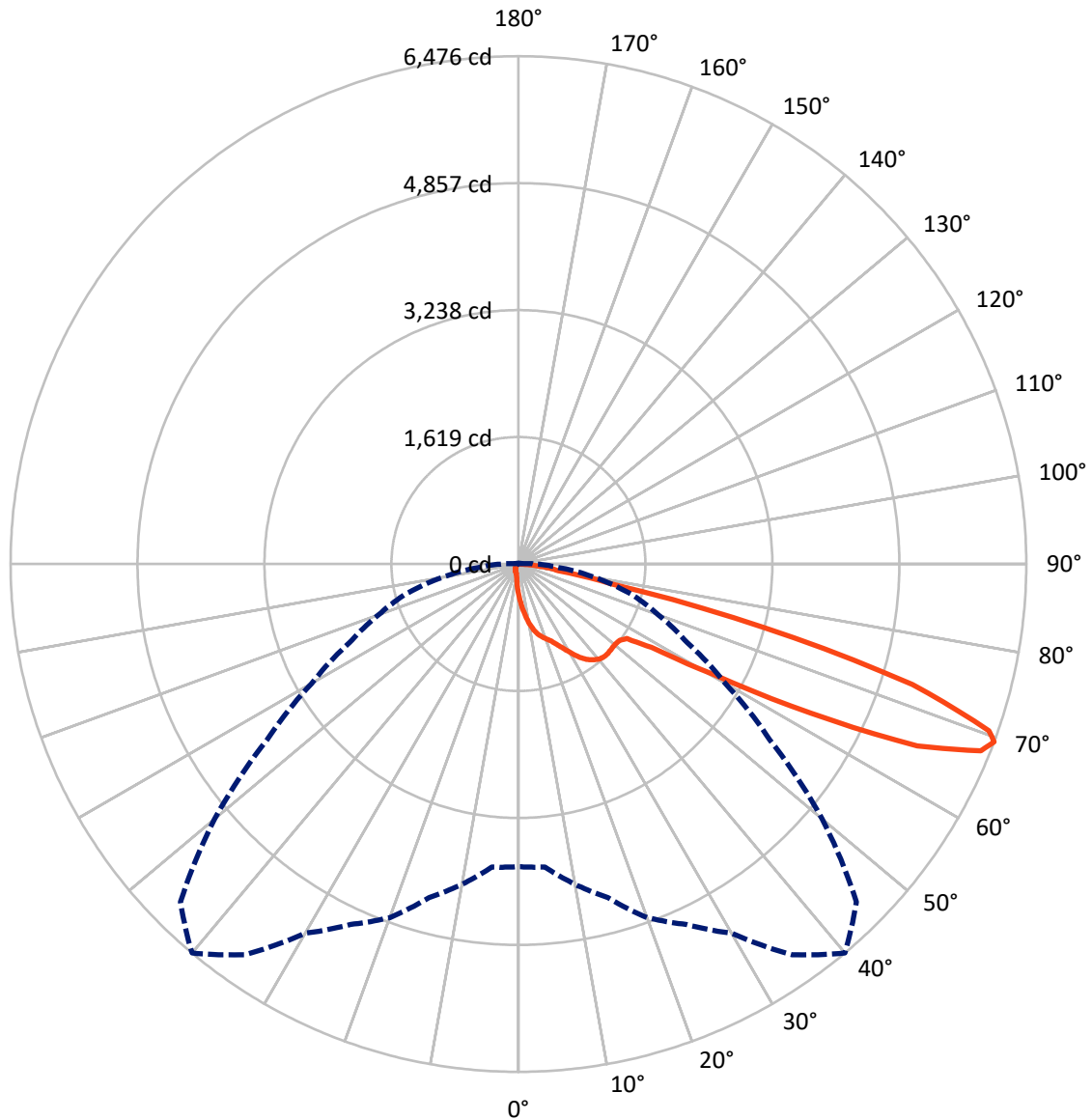
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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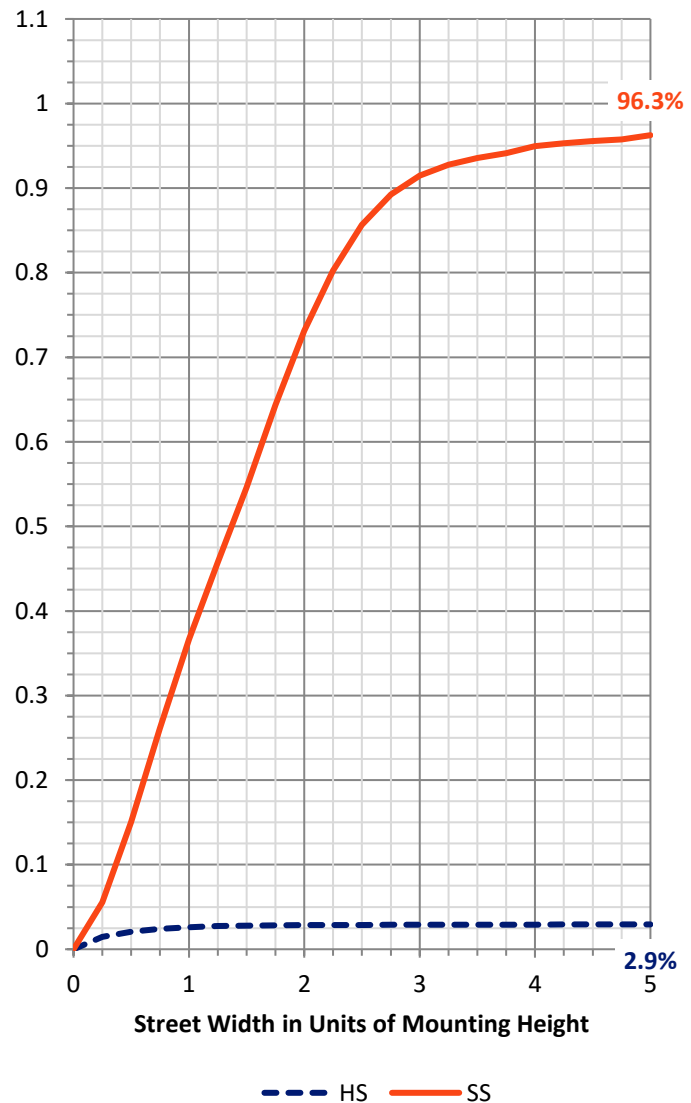
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	152.1	0.0	152.1
	% Fixture	3.0	0.0	3.0
<b>Street Side</b>	Lumens	4957.0	0.0	4957.0
	% Fixture	97.0	0.0	97.0
<b>Total</b>	Lumens	5109.1	0.0	5109.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.7	0.8
10°-20°	136.7	2.7
20°-30°	261.7	5.1
30°-40°	435.2	8.5
40°-50°	588.9	11.5
50°-60°	921.0	18.0
60°-70°	1893.5	37.1
70°-80°	761.9	14.9
80°-90°	70.5	1.4
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°	5109.1	100.0
0°-180°	5109.1	100.0

**Coefficient of Utilization**



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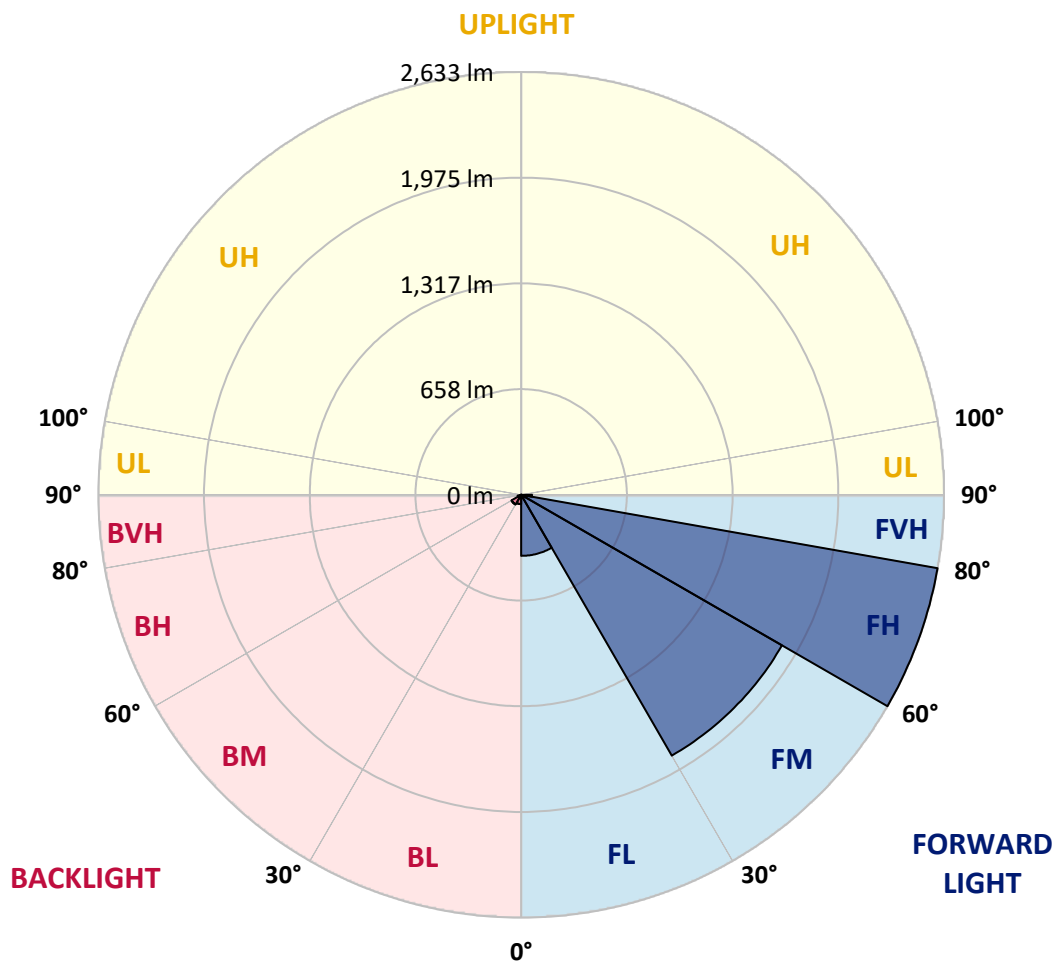
CATALOG NUMBER: VST-F03-LED-E-U-SL4-HSS-7060

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.2	7.4			
FM (30°-60°)	1875.6	36.7			
FH (60°-80°)	2633.3	51.5			G2/5000
FVH (80°-90°)	67.9	1.3			G1/100
BL (0°-30°)	57.9	1.1	B0/110		
BM (30°-60°)	69.5	1.4	B0/220		
BH (60°-80°)	22.2	0.4	B0/110		G0/110
BVH (80°-90°)	2.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9
2.5°	514.7	508.9	502.1	502.1	493.8	493.8	488.8	475.4	473.8	466.1	458.6
5°	657.0	652.0	643.6	636.1	629.4	617.7	609.3	593.4	575.8	559.1	544.0
7.5°	796.0	793.4	778.4	775.9	764.9	745.7	729.0	705.5	675.4	652.0	624.4
10°	924.8	919.0	915.6	901.4	885.5	864.6	838.6	810.2	775.0	738.2	698.8
12.5°	1027.0	1023.6	1008.5	1002.7	985.9	965.0	932.4	895.5	860.4	812.7	766.6
15°	1103.1	1097.3	1087.2	1078.0	1057.9	1039.5	1009.4	969.2	926.5	874.6	819.4
17.5°	1166.7	1155.8	1153.3	1139.1	1118.2	1096.4	1063.0	1026.1	975.9	924.0	863.7
20°	1252.1	1237.0	1232.0	1211.0	1186.8	1156.7	1118.2	1072.1	1019.4	962.5	900.5
22.5°	1352.5	1341.6	1330.7	1312.3	1281.4	1238.7	1182.7	1132.4	1065.4	1002.7	935.8
25°	1494.8	1485.6	1468.0	1442.9	1404.4	1353.4	1285.6	1211.9	1133.2	1052.9	974.2
27.5°	1632.9	1624.5	1612.0	1592.8	1549.2	1493.1	1409.4	1315.7	1216.1	1119.0	1031.9
30°	1762.6	1755.1	1742.5	1723.3	1684.8	1629.5	1535.0	1434.5	1310.6	1197.7	1093.1
32.5°	1902.4	1899.9	1885.6	1858.0	1824.5	1750.1	1647.1	1539.2	1413.7	1283.0	1160.8
35°	2060.6	2041.3	2027.9	2000.3	1943.4	1863.9	1743.4	1625.3	1493.1	1359.2	1222.8
37.5°	2194.5	2176.1	2159.3	2124.2	2054.8	1953.4	1817.0	1687.3	1550.9	1414.4	1275.5
40°	2292.4	2283.2	2263.1	2217.1	2139.2	2018.8	1871.4	1730.0	1592.8	1455.5	1318.2
42.5°	2365.2	2351.0	2328.4	2280.7	2188.7	2051.4	1893.2	1747.6	1612.0	1480.6	1345.9
45°	2392.0	2380.3	2359.4	2307.5	2207.9	2060.6	1892.3	1742.5	1612.8	1488.1	1364.2
47.5°	2376.1	2364.4	2345.9	2297.4	2199.5	2049.7	1877.3	1728.3	1604.4	1490.6	1381.0
50°	2323.4	2316.7	2302.4	2261.5	2173.6	2028.8	1863.9	1720.7	1602.8	1503.2	1404.4
52.5°	2318.3	2314.2	2296.6	2255.6	2166.1	2022.1	1862.2	1725.0	1617.0	1519.1	1421.2
55°	2833.1	2773.6	2640.6	2527.6	2341.8	2120.9	1946.8	1792.7	1677.2	1581.8	1513.2
57.5°	4026.6	3937.9	3763.0	3547.9	3121.0	2701.7	2366.1	2123.3	2003.6	1960.1	1986.1
60°	4585.6	4569.8	4542.1	4440.1	4221.6	3860.9	3459.1	3024.8	2850.7	2835.6	2888.3
62.5°	4851.0	4840.9	4849.3	4836.8	4769.0	4663.5	4548.0	4360.6	4188.1	4076.8	3840.8
65°	4973.2	4979.9	5027.6	5065.2	5073.6	5101.2	5185.8	5419.3	5590.0	5302.9	4647.6
67.5°	4662.7	4702.0	4811.6	4948.9	5109.6	5265.2	5516.3	6008.5	6359.2	6021.9	5091.2
69°	3860.0	3879.3	4147.1	4405.7	4798.3	5072.8	5436.8	6082.1	6476.3	6095.5	5056.0
70°	3038.9	3056.5	3343.6	3695.2	4358.9	4712.0	5188.3	5957.5	6366.7	5997.6	4875.2
72.5°	1370.9	1345.9	1447.1	1635.4	2356.9	2917.6	3750.4	4826.7	5252.7	4805.0	3647.4
75°	957.5	946.6	957.5	958.3	1070.5	1381.0	1742.5	2616.3	3235.6	2792.1	1742.5
77.5°	741.5	734.0	726.5	718.1	731.5	819.4	854.5	928.1	1205.2	1139.9	664.6
80°	586.7	580.0	598.4	592.6	592.6	602.6	595.9	568.3	516.4	478.7	428.5
82.5°	272.8	274.5	274.5	298.0	359.1	419.3	438.5	410.9	364.9	310.5	250.3
85°	25.9	29.3	49.4	76.2	151.5	170.7	171.6	142.3	142.3	112.1	90.4
87.5°	0.0	0.8	0.8	0.8	7.5	20.9	17.6	5.0	2.5	2.5	4.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9
2.5°	445.3	442.7	432.7	422.6	413.5	403.4	394.2	385.0	374.9	367.4	358.2
5°	520.6	502.1	481.3	461.2	441.1	420.2	398.4	379.1	359.1	340.6	323.0
7.5°	596.8	560.8	532.3	496.3	463.7	431.0	400.9	370.0	341.5	314.7	289.6
10°	661.2	617.7	573.3	527.3	480.4	436.9	395.0	358.2	320.6	287.9	257.0
12.5°	713.9	658.7	604.3	546.5	493.8	438.5	386.7	342.3	298.0	261.1	229.3
15°	761.6	698.0	632.7	565.8	498.8	436.1	378.3	323.0	277.9	236.0	200.0
17.5°	800.2	727.3	653.6	578.3	506.3	432.7	367.4	309.7	257.0	213.4	178.3
20°	833.6	757.4	677.9	593.4	511.4	431.9	358.2	293.0	238.5	192.5	158.2
22.5°	864.6	788.4	703.1	612.7	518.9	431.0	349.8	280.4	222.6	176.6	142.3
25°	899.8	819.4	729.8	632.7	532.3	434.4	344.8	270.4	208.4	161.5	129.7
27.5°	939.1	854.5	761.6	657.8	549.9	441.1	343.1	259.4	195.8	147.3	119.7
30°	994.3	896.4	793.4	682.9	565.8	448.6	341.5	252.8	183.3	136.4	109.6
32.5°	1042.9	937.4	828.6	708.9	583.4	456.2	340.6	243.5	171.6	125.5	102.1
35°	1093.9	975.1	858.7	734.0	598.4	464.5	339.8	236.8	160.7	114.7	94.6
37.5°	1138.3	1006.9	882.2	755.8	615.2	472.1	340.6	231.0	150.7	105.5	87.9
40°	1175.9	1039.5	908.1	775.9	632.7	483.7	341.5	225.2	140.6	97.1	82.0
42.5°	1209.4	1070.5	935.8	798.5	652.9	497.2	346.5	220.1	132.2	89.6	76.2
45°	1235.3	1098.9	965.8	830.3	685.5	518.9	355.7	216.8	123.8	82.9	71.2
47.5°	1262.1	1140.8	1016.9	880.5	733.2	553.2	371.6	215.9	117.2	77.8	67.0
50°	1299.0	1182.7	1062.1	931.5	776.7	588.4	390.8	216.8	108.8	72.8	62.8
52.5°	1325.8	1225.3	1120.7	1020.2	880.5	695.5	465.4	231.8	104.6	68.6	57.7
55°	1483.9	1466.3	1468.8	1485.6	1377.7	1183.4	778.4	334.8	123.1	77.8	56.9
57.5°	2092.4	2154.3	2190.3	2189.5	2011.2	1668.1	1045.4	430.2	137.3	90.4	67.8
60°	2892.5	2845.7	2779.6	2616.3	2379.5	1904.1	1169.2	462.8	118.8	71.9	62.0
62.5°	3599.8	3325.2	3081.7	2817.2	2506.7	1986.1	1194.3	460.3	103.8	54.4	43.5
65°	4040.8	3547.0	3153.7	2822.2	2456.5	1917.5	1129.9	422.6	87.9	44.3	36.0
67.5°	4146.2	3427.3	2870.8	2448.1	2052.2	1492.3	829.4	318.1	68.6	36.8	31.8
69°	3916.1	3046.5	2378.6	1899.1	1493.1	990.1	513.1	200.9	52.7	33.5	29.3
70°	3602.2	2649.8	1937.5	1524.1	1105.6	695.5	359.1	141.4	42.7	31.0	26.8
72.5°	2317.6	1391.8	952.4	662.9	456.2	277.0	140.6	63.7	32.6	25.9	21.8
75°	898.9	514.7	373.3	283.7	221.8	154.0	85.4	41.0	27.6	21.8	16.7
77.5°	442.7	338.9	277.0	190.0	110.5	68.6	46.0	31.8	22.6	15.9	10.9
80°	349.8	232.7	139.0	86.2	65.3	49.4	35.2	25.9	16.7	10.1	7.5
82.5°	179.1	97.9	71.9	58.6	48.5	38.5	28.4	18.4	10.9	6.7	5.8
85°	56.0	41.0	36.8	36.0	33.5	27.6	20.1	11.8	6.7	4.1	4.1
87.5°	4.1	5.8	7.5	5.8	6.7	5.8	7.5	5.0	3.4	3.4	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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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9
2.5°	351.5	341.5	332.3	326.4	315.5	311.3	307.2	305.5	298.0	299.6	293.0
5°	307.2	289.6	276.2	262.8	250.3	241.1	233.5	224.3	216.8	213.4	206.7
7.5°	267.0	244.4	226.8	212.6	197.5	185.8	175.7	169.0	162.4	155.7	152.3
10°	231.8	207.5	187.5	173.3	159.0	149.0	141.4	136.4	132.2	129.7	128.9
12.5°	199.2	175.7	157.4	144.8	133.9	128.9	125.5	123.1	122.2	121.4	121.4
15°	174.1	150.7	136.4	127.2	122.2	119.7	118.8	117.2	115.5	114.7	114.7
17.5°	150.7	133.1	123.1	118.0	115.5	113.8	112.1	110.5	108.8	107.9	107.9
20°	134.8	120.5	115.5	112.1	109.6	107.9	105.5	103.8	103.0	102.1	101.3
22.5°	122.2	113.0	109.6	107.2	103.8	101.3	99.6	97.9	96.2	95.4	94.6
25°	113.0	107.2	104.6	101.3	97.9	95.4	92.9	90.4	88.7	87.9	86.2
27.5°	106.3	102.1	98.8	94.6	91.3	88.7	86.2	83.7	82.0	80.3	79.5
30°	100.4	96.2	92.0	88.7	84.5	82.0	78.7	76.2	75.3	73.6	71.9
32.5°	94.6	90.4	86.2	82.0	77.8	74.5	72.8	69.5	67.8	67.0	65.3
35°	87.9	83.7	78.7	75.3	71.2	67.8	65.3	62.8	61.1	59.4	58.6
37.5°	82.0	77.0	71.9	67.8	64.4	61.1	58.6	56.0	54.4	52.7	51.9
40°	75.3	70.3	65.3	61.1	57.7	55.3	52.7	50.2	48.5	47.7	47.7
42.5°	69.5	63.7	58.6	55.3	52.7	49.4	46.9	44.3	43.5	42.7	43.5
45°	63.7	57.7	53.6	50.2	47.7	44.3	41.8	40.1	39.4	40.1	41.0
47.5°	58.6	52.7	48.5	46.0	43.5	41.0	38.5	36.8	36.8	38.5	40.1
50°	53.6	47.7	44.3	42.7	40.1	37.7	34.3	33.5	34.3	36.0	37.7
52.5°	48.5	41.8	39.4	38.5	36.0	33.5	31.0	30.1	31.0	32.6	31.8
55°	43.5	36.8	36.0	35.2	32.6	29.3	26.8	26.8	26.8	25.9	24.3
57.5°	41.8	32.6	31.8	31.0	28.4	25.1	23.5	21.8	20.9	18.4	17.6
60°	43.5	29.3	29.3	27.6	25.1	21.8	19.3	16.7	15.1	13.4	13.4
62.5°	35.2	26.8	25.9	24.3	20.9	17.6	15.1	12.5	11.8	10.9	10.9
65°	28.4	24.3	22.6	20.1	17.6	14.2	11.8	10.1	9.2	9.2	10.1
67.5°	25.9	21.8	19.3	16.7	14.2	10.9	9.2	8.4	8.4	9.2	9.2
69°	24.3	20.1	17.6	15.1	12.5	10.1	8.4	8.4	8.4	8.4	9.2
70°	22.6	19.3	16.7	14.2	10.9	8.4	7.5	7.5	8.4	8.4	9.2
72.5°	17.6	15.1	14.2	11.8	8.4	7.5	6.7	7.5	7.5	8.4	8.4
75°	13.4	10.9	10.9	9.2	6.7	5.8	5.8	6.7	6.7	7.5	7.5
77.5°	9.2	7.5	7.5	6.7	5.8	5.0	5.0	5.8	6.7	6.7	7.5
80°	6.7	5.8	5.0	5.8	5.0	4.1	5.0	5.8	5.8	6.7	6.7
82.5°	5.0	5.0	5.0	5.0	4.1	4.1	5.0	5.0	5.8	6.7	6.7
85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.0	5.0	5.8	5.8
87.5°	2.5	2.5	2.5	3.4	3.4	4.1	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



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CATALOG NUMBER: VST-F03-LED-E-U-SL4-HSS-7060

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	385.9	385.9	385.9	385.9
2.5°	291.3	290.4	287.0	287.9
5°	204.2	199.2	202.6	201.7
7.5°	149.8	149.0	148.1	149.8
10°	128.1	128.1	127.2	128.1
12.5°	120.5	120.5	120.5	120.5
15°	114.7	114.7	113.8	113.8
17.5°	107.9	107.9	107.9	107.2
20°	101.3	100.4	100.4	100.4
22.5°	93.7	92.9	92.9	92.9
25°	86.2	85.4	85.4	85.4
27.5°	78.7	77.8	77.0	77.0
30°	71.2	70.3	69.5	69.5
32.5°	63.7	62.8	62.0	62.0
35°	56.9	56.9	56.0	55.3
37.5°	51.1	51.1	51.1	51.1
40°	46.9	47.7	47.7	47.7
42.5°	44.3	45.2	46.0	46.9
45°	42.7	44.3	45.2	45.2
47.5°	41.8	42.7	43.5	43.5
50°	38.5	37.7	37.7	37.7
52.5°	31.0	29.3	28.4	27.6
55°	22.6	21.8	20.1	20.1
57.5°	15.9	15.9	15.1	15.1
60°	12.5	12.5	11.8	12.5
62.5°	10.9	10.9	10.9	10.9
65°	10.1	10.1	10.1	10.1
67.5°	10.1	10.1	10.1	10.1
69°	9.2	9.2	9.2	9.2
70°	9.2	9.2	9.2	9.2
72.5°	8.4	8.4	8.4	8.4
75°	7.5	8.4	8.4	8.4
77.5°	7.5	7.5	7.5	7.5
80°	6.7	6.7	7.5	7.5
82.5°	6.7	6.7	6.7	6.7
85°	5.8	5.8	6.7	6.7
87.5°	5.0	5.0	5.8	5.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)