

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: P165016

Luminaire Tested: **VST-E02-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165016  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
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-SL2-HSS-7030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

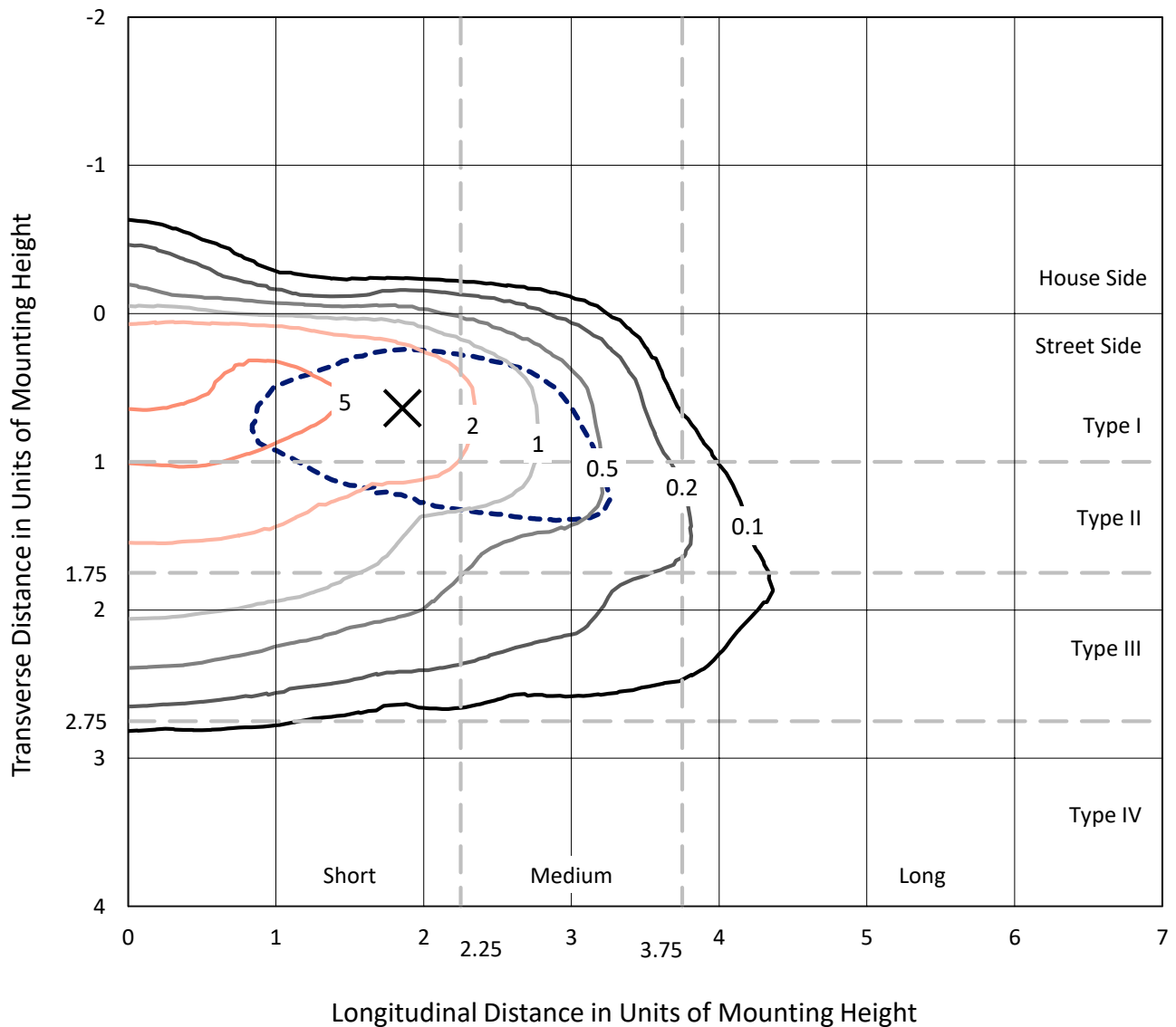
Lumens per Lamp: N/A  
Luminaire Lumens: 3309.4 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 52.1  
Input Voltage (V): NR  
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

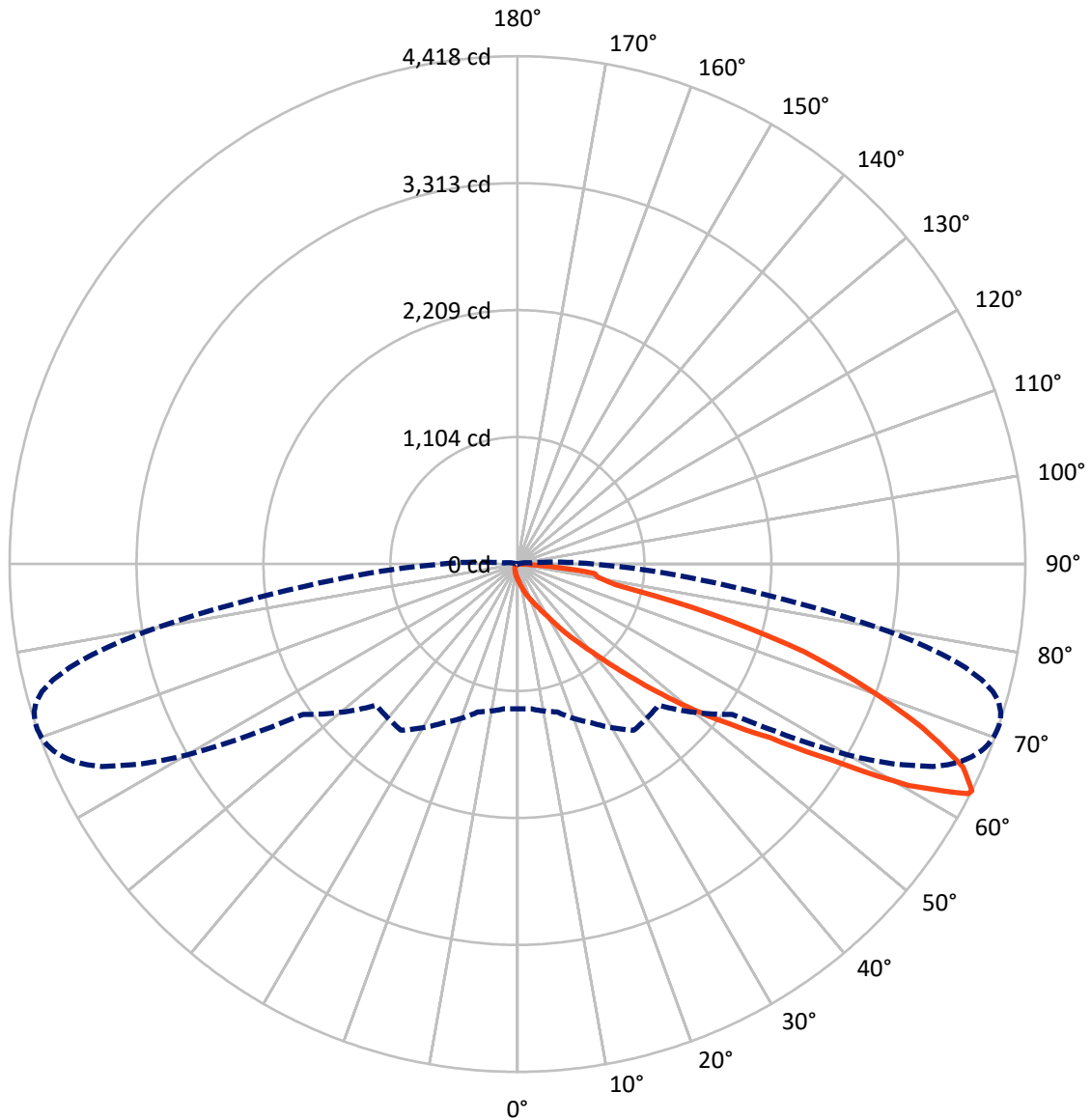
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical



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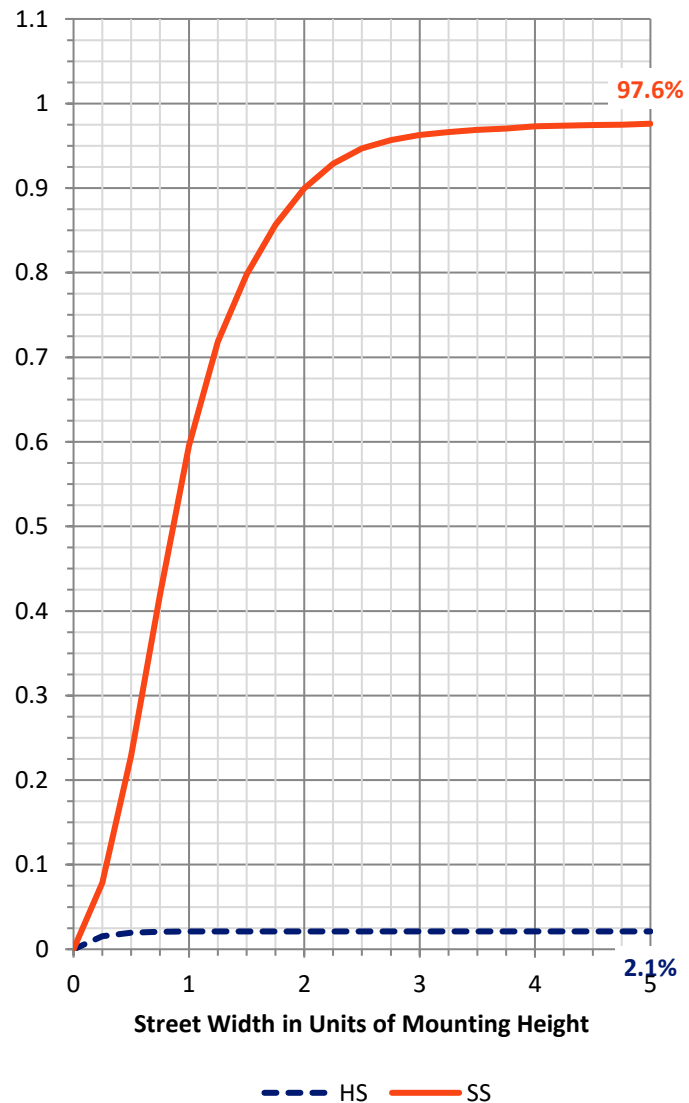
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	70.3	0.0	70.3
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	3239.1	0.0	3239.1
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	3309.4	0.0	3309.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.0	0.4
10°-20°	54.4	1.6
20°-30°	110.5	3.3
30°-40°	270.0	8.2
40°-50°	603.9	18.2
50°-60°	849.2	25.7
60°-70°	998.5	30.2
70°-80°	360.6	10.9
80°-90°	48.2	1.5
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°	3309.4	100.0
0°-180°	3309.4	100.0



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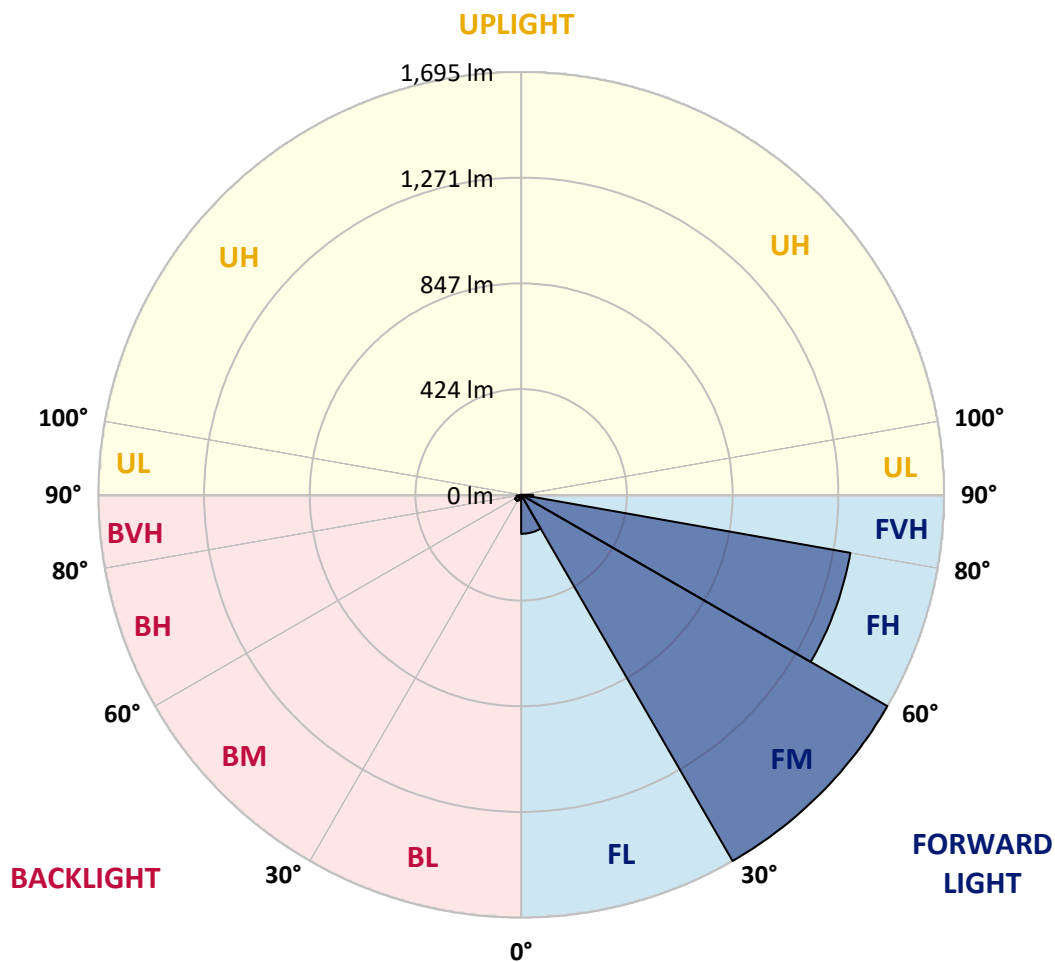
CATALOG NUMBER: VST-E02-LED-E-U-SL2-HSS-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.4	4.7			
FM (30°-60°)	1694.8	51.2			
FH (60°-80°)	1339.8	40.5			G1/1800
FVH (80°-90°)	48.1	1.5			G1/100
BL (0°-30°)	22.6	0.7	B0/110		
BM (30°-60°)	28.3	0.9	B0/220		
BH (60°-80°)	19.3	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
2.5°	166.0	167.8	166.6	163.6	160.0	155.2	151.0	151.0	150.4	148.6	149.2
5°	217.8	218.4	216.0	208.7	202.1	191.9	180.5	179.3	178.1	176.3	175.7
7.5°	268.3	270.7	268.3	260.5	247.3	231.6	213.6	211.8	208.2	208.2	205.7
10°	320.1	320.1	317.6	308.6	296.6	274.3	251.5	248.5	244.3	243.1	239.5
12.5°	356.8	356.8	355.6	350.8	341.1	321.3	293.6	290.6	285.2	283.4	279.2
15°	371.2	371.2	371.8	376.0	376.6	367.6	338.7	336.3	330.9	326.0	324.3
17.5°	380.2	379.6	379.6	385.7	396.5	402.5	383.8	381.4	375.4	373.0	367.0
20°	400.1	398.9	395.3	395.3	405.5	426.5	426.5	425.9	419.3	417.5	414.5
22.5°	429.5	428.3	417.5	408.5	413.3	439.8	464.5	463.3	460.9	458.4	456.7
25°	477.7	473.5	454.8	428.3	424.1	452.5	493.3	496.4	498.1	498.1	499.3
27.5°	550.5	545.1	512.0	462.7	444.0	472.9	525.2	531.2	536.6	537.8	543.2
30°	651.5	641.9	594.4	522.2	479.5	503.0	572.2	578.8	586.6	589.0	597.4
32.5°	817.6	812.2	766.5	658.1	566.7	561.9	637.7	646.1	656.4	660.6	670.8
35°	1070.3	1071.5	1034.2	936.7	810.4	744.2	755.0	762.2	765.8	778.5	783.9
37.5°	1241.8	1244.8	1253.2	1214.7	1124.5	1057.0	972.2	980.0	961.4	963.2	963.8
40°	1335.6	1345.2	1394.6	1431.9	1424.6	1385.6	1317.5	1321.7	1286.9	1279.1	1241.2
42.5°	1398.2	1410.8	1489.6	1605.1	1664.1	1699.6	1684.0	1682.2	1655.0	1644.8	1612.9
45°	1437.3	1448.7	1548.0	1718.2	1854.2	1957.7	2000.4	2005.2	1982.3	1972.1	1945.7
47.5°	1435.4	1448.7	1555.2	1760.3	1960.7	2126.2	2246.5	2252.5	2266.3	2257.3	2259.1
50°	1356.1	1368.7	1475.8	1688.8	1929.4	2203.1	2423.3	2442.6	2464.9	2479.9	2487.1
52.5°	1259.8	1268.8	1363.9	1566.1	1795.8	2171.3	2528.0	2561.1	2594.2	2622.5	2642.3
55°	1224.3	1234.5	1309.1	1477.0	1688.8	2037.7	2576.8	2625.5	2672.4	2718.8	2756.6
57.5°	1243.0	1252.6	1306.1	1434.9	1625.0	1896.9	2590.6	2666.4	2743.4	2818.6	2893.2
60°	1311.5	1321.7	1367.5	1474.0	1608.2	1815.7	2536.4	2662.2	2790.3	2921.5	3044.8
62.5°	1284.5	1288.7	1356.1	1542.6	1728.5	1746.5	2339.7	2515.4	2710.9	2913.1	3112.2
63°	1258.6	1263.4	1332.0	1523.9	1765.2	1736.3	2279.0	2464.3	2670.6	2888.4	3105.0
65°	1141.3	1141.9	1194.2	1345.9	1724.3	1754.3	2008.3	2185.1	2422.1	2683.3	2957.0
67.5°	851.9	847.7	898.2	1013.8	1353.7	1754.9	1723.6	1822.9	1987.8	2219.4	2464.9
70°	302.0	295.4	377.2	537.2	843.5	1435.4	1481.2	1487.8	1533.5	1658.7	1812.7
72.5°	98.0	99.9	120.3	196.7	388.6	966.2	1341.0	1320.5	1308.5	1307.9	1328.4
75°	39.1	39.7	48.1	87.2	174.5	465.7	1174.4	1185.8	1190.0	1196.0	1202.6
77.5°	18.7	20.5	27.1	48.7	86.6	230.4	840.5	937.3	992.6	1035.4	1061.3
80°	6.6	7.8	15.1	30.1	40.3	105.9	442.8	534.2	615.5	720.2	810.4
82.5°	0.0	0.0	3.0	21.1	22.3	42.7	181.7	212.9	243.7	315.8	405.5
85°	0.0	0.0	0.0	6.0	6.6	7.3	61.4	74.0	83.0	96.8	111.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	3.6	9.0	13.9
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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**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
2.5°	148.0	147.4	147.4	146.2	145.6	144.4	143.8	142.0	141.4	141.4	141.4
5°	175.1	172.7	171.5	168.5	166.6	166.0	163.1	161.8	160.0	160.6	157.6
7.5°	205.1	200.9	199.1	194.9	193.7	189.5	188.3	185.3	183.5	179.9	178.7
10°	238.3	232.9	229.9	223.2	221.4	218.4	214.8	211.1	208.2	204.5	202.7
12.5°	276.2	271.3	268.9	259.9	255.7	251.5	246.7	241.9	237.1	234.1	229.9
15°	320.6	312.8	310.4	302.0	294.8	289.4	282.8	276.7	273.1	267.1	262.9
17.5°	364.6	356.8	355.0	342.3	334.5	330.9	323.7	315.8	309.2	303.2	296.6
20°	408.5	403.1	398.3	386.2	377.8	371.8	362.2	354.4	349.0	340.6	332.1
22.5°	452.5	447.0	443.4	430.8	422.9	414.5	406.1	397.7	389.9	379.6	370.0
25°	497.6	493.9	492.1	480.7	473.5	465.7	457.2	447.6	437.9	426.5	416.3
27.5°	544.4	545.7	542.0	539.6	531.8	526.4	513.2	506.6	499.3	485.5	472.9
30°	604.0	607.6	606.4	608.3	603.4	599.8	589.6	581.2	572.8	559.5	545.1
32.5°	679.3	684.1	686.5	693.1	690.7	689.5	686.5	674.4	668.4	645.5	639.5
35°	795.4	793.0	803.2	808.6	806.2	805.0	801.4	794.8	787.5	771.2	756.2
37.5°	946.3	948.8	952.4	941.6	934.3	933.7	922.9	916.3	906.1	888.0	869.9
40°	1223.1	1208.1	1191.2	1145.5	1125.7	1114.2	1082.3	1073.3	1055.8	1031.2	1012.6
42.5°	1582.9	1567.8	1517.3	1440.9	1400.0	1343.4	1317.5	1285.7	1261.0	1220.7	1199.0
45°	1940.2	1896.9	1890.9	1801.9	1751.3	1676.7	1630.4	1576.9	1520.9	1468.0	1429.4
47.5°	2241.7	2232.0	2202.5	2148.4	2101.5	2038.9	1979.3	1896.9	1839.2	1764.0	1694.8
50°	2482.9	2482.3	2471.5	2440.2	2401.1	2350.6	2298.2	2228.4	2162.9	2070.8	1996.8
52.5°	2663.4	2673.0	2676.6	2667.0	2651.9	2607.4	2581.0	2522.6	2467.3	2389.0	2309.0
55°	2795.7	2831.2	2849.3	2869.7	2865.5	2849.9	2848.7	2810.8	2785.6	2723.5	2667.0
57.5°	2959.4	3017.8	3073.7	3173.0	3176.6	3211.5	3229.6	3247.6	3252.4	3227.7	3209.1
60°	3167.5	3286.7	3392.5	3600.1	3654.3	3739.7	3795.1	3855.2	3906.3	3910.6	3909.4
62.5°	3314.3	3497.8	3668.7	3976.7	4082.0	4180.7	4254.7	4313.0	4348.6	4384.6	4401.5
63°	3318.5	3519.5	3701.2	4018.9	4129.6	4223.4	4293.8	4348.0	4385.3	4406.9	4417.7
65°	3216.9	3460.6	3677.1	3993.5	4097.6	4192.1	4228.8	4264.3	4282.4	4290.8	4258.9
67.5°	2726.6	2964.8	3217.5	3571.3	3660.2	3773.4	3803.5	3821.5	3829.9	3828.1	3801.1
70°	2038.9	2238.7	2519.6	2923.9	3041.8	3152.5	3221.1	3250.6	3260.2	3257.2	3216.9
72.5°	1423.4	1540.7	1772.4	2222.4	2383.0	2525.0	2609.8	2653.7	2662.8	2644.7	2607.4
75°	1195.4	1201.4	1253.8	1499.8	1650.2	1801.9	1897.5	1925.2	1907.2	1852.4	1757.3
77.5°	1067.3	1080.5	1080.5	1117.2	1146.7	1188.8	1197.8	1130.5	1052.3	951.2	869.3
80°	895.2	941.6	974.0	1001.1	1004.1	995.7	973.4	935.5	875.3	798.4	712.9
82.5°	543.9	635.3	672.6	812.2	880.7	927.1	923.5	872.9	827.2	747.2	674.4
85°	137.2	148.0	160.6	208.7	234.1	285.8	318.2	333.3	338.7	311.0	281.6
87.5°	13.2	9.0	15.1	11.5	16.3	12.0	16.3	15.1	18.7	19.9	21.7
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
2.5°	140.2	139.6	139.0	138.4	137.8	137.2	136.0	136.0	134.8	134.2	133.6
5°	155.8	154.6	154.0	152.8	151.0	149.8	148.0	145.6	143.8	143.2	142.0
7.5°	175.7	172.7	171.5	169.7	167.3	163.6	161.2	159.4	156.4	154.6	151.0
10°	197.9	194.9	191.3	187.7	184.1	179.9	176.9	174.5	169.7	167.3	163.1
12.5°	226.2	220.8	216.6	211.8	206.9	202.1	198.5	191.3	187.1	181.7	178.1
15°	255.1	250.3	245.5	239.5	232.2	224.4	220.8	214.1	208.7	200.3	195.5
17.5°	290.0	280.9	273.7	266.5	259.9	252.7	245.5	235.3	227.4	220.2	210.6
20°	324.3	313.4	305.6	296.0	286.4	275.0	266.5	259.3	248.5	238.9	228.6
22.5°	361.0	350.2	337.5	327.9	314.6	305.6	294.2	282.2	271.3	258.7	246.1
25°	405.5	394.1	379.6	367.0	352.0	339.3	325.5	311.6	298.4	284.0	267.7
27.5°	460.3	448.2	432.5	417.5	397.7	382.0	368.8	350.2	333.3	315.2	296.6
30°	529.4	516.2	496.9	475.3	455.5	437.9	419.3	394.7	376.0	354.4	330.3
32.5°	619.7	604.0	578.2	557.7	533.0	510.2	484.3	459.7	433.2	404.9	377.2
35°	733.4	719.0	688.9	658.8	631.7	604.6	572.2	543.9	506.6	472.3	436.7
37.5°	851.3	825.4	797.8	765.3	731.6	699.1	659.3	620.3	577.6	540.2	495.7
40°	986.0	954.8	931.9	897.0	849.5	803.2	766.5	717.7	664.2	614.2	561.9
42.5°	1170.8	1135.9	1094.9	1042.0	1007.7	953.6	906.1	848.3	777.9	721.9	658.8
45°	1384.3	1336.8	1297.1	1246.0	1204.4	1137.1	1081.7	1004.7	934.3	860.9	783.9
47.5°	1628.0	1569.0	1511.3	1460.8	1394.6	1328.4	1258.0	1176.2	1085.9	1005.3	913.9
50°	1907.8	1824.1	1744.1	1679.2	1588.3	1511.9	1435.4	1343.4	1243.6	1150.9	1046.8
52.5°	2218.8	2122.0	2016.1	1916.2	1810.9	1712.8	1620.8	1514.9	1403.6	1290.5	1174.4
55°	2594.2	2521.4	2396.9	2269.9	2129.1	1998.0	1879.4	1748.3	1612.9	1464.4	1342.2
57.5°	3182.0	3146.5	3042.4	2915.5	2732.0	2572.6	2371.6	2210.9	2014.9	1810.3	1652.6
60°	3978.5	3934.6	3876.2	3773.4	3627.8	3411.2	3189.8	2940.1	2641.7	2358.4	2089.4
62.5°	4403.3	4387.6	4340.2	4269.1	4133.2	3962.3	3739.1	3464.8	3127.9	2783.7	2440.8
63°	4415.9	4396.1	4355.2	4283.0	4163.2	3997.8	3778.8	3512.3	3182.6	2831.9	2481.7
65°	4245.1	4237.3	4195.7	4116.9	4035.1	3908.8	3739.1	3509.9	3233.1	2901.7	2553.3
67.5°	3765.0	3741.5	3677.8	3653.6	3596.5	3508.7	3379.3	3221.7	3023.8	2763.2	2462.4
70°	3184.4	3149.5	3069.5	3026.8	2957.0	2901.7	2822.8	2710.3	2588.2	2406.5	2182.1
72.5°	2568.9	2496.7	2423.3	2312.0	2214.6	2115.9	2028.7	1949.3	1815.1	1741.7	1571.5
75°	1668.3	1537.1	1411.4	1243.0	1091.3	957.2	826.6	760.4	622.7	566.7	486.7
77.5°	791.7	718.3	619.7	543.2	445.8	364.0	297.2	223.2	175.1	137.2	104.6
80°	638.9	577.0	517.4	448.2	374.8	299.0	229.2	171.5	121.5	84.2	59.6
82.5°	569.8	502.3	428.9	381.4	331.5	271.3	222.6	181.7	134.2	98.0	66.8
85°	221.4	186.5	143.8	117.3	91.4	75.2	68.0	46.9	36.7	28.9	22.3
87.5°	19.3	15.7	12.7	8.5	9.0	4.8	5.4	3.6	3.0	3.0	2.4
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
2.5°	133.0	132.4	131.8	130.6	130.6	129.4	128.8	128.2	125.1	118.5	113.1
5°	139.6	138.4	137.2	135.4	134.2	132.4	131.2	129.4	122.7	110.1	99.2
7.5°	149.2	146.8	145.0	141.4	139.6	137.2	135.4	132.4	121.5	102.2	87.2
10°	160.6	156.4	153.4	149.2	145.6	142.6	139.6	135.4	120.3	93.8	76.4
12.5°	174.5	169.7	163.6	158.8	154.0	149.8	145.6	140.2	118.5	86.6	68.0
15°	188.3	181.1	176.9	170.2	163.6	157.6	151.6	146.8	119.2	78.8	60.8
17.5°	203.9	196.7	187.7	180.5	173.3	165.5	158.2	148.6	116.1	72.8	55.3
20°	219.0	208.7	200.3	191.3	181.1	171.5	162.4	154.0	113.7	66.8	50.5
22.5°	235.3	223.2	212.4	200.9	188.3	177.5	166.6	155.8	109.5	61.4	46.3
25°	255.1	241.3	225.6	211.8	198.5	185.3	171.5	158.2	105.3	56.6	43.3
27.5°	279.2	261.1	245.5	228.0	209.4	192.5	177.5	163.1	101.1	52.9	40.3
30°	309.8	288.8	266.5	244.3	224.4	205.1	184.1	166.0	96.8	49.3	37.3
32.5°	350.8	324.3	297.2	271.3	244.9	220.2	197.9	174.5	94.4	46.3	34.3
35°	404.9	370.6	337.5	305.0	273.1	243.1	214.1	187.7	94.4	42.7	30.7
37.5°	456.0	416.3	374.2	333.9	296.0	261.1	226.8	194.9	89.6	39.7	27.7
40°	511.4	463.9	414.5	367.0	321.3	278.0	238.9	202.1	85.4	36.1	24.7
42.5°	596.2	536.0	471.7	416.3	361.6	308.0	259.3	216.0	80.0	32.5	21.7
45°	707.5	631.1	555.3	487.9	418.1	352.6	294.8	241.3	78.8	29.5	18.7
47.5°	826.6	736.4	647.3	561.3	479.5	403.1	333.9	269.5	78.8	26.5	16.3
50°	945.1	832.1	737.0	637.1	545.1	454.8	372.4	299.0	79.4	24.1	13.2
52.5°	1052.3	931.3	824.8	709.3	607.6	503.0	413.3	327.9	78.2	21.1	10.8
55°	1200.8	1058.9	935.5	808.0	688.9	571.0	469.3	371.2	78.8	18.7	9.0
57.5°	1474.6	1307.9	1159.3	992.1	854.9	702.7	579.4	460.3	86.0	15.7	6.6
60°	1867.4	1650.8	1442.1	1238.2	1063.7	882.6	722.5	582.4	101.1	12.7	4.8
62.5°	2131.6	1848.2	1599.1	1374.1	1171.4	981.8	807.4	647.9	111.3	10.2	3.0
63°	2158.6	1865.6	1615.4	1383.1	1176.2	986.7	811.0	652.7	111.9	9.6	3.0
65°	2209.7	1895.7	1624.4	1384.9	1171.4	980.0	808.6	652.1	113.1	7.8	2.4
67.5°	2151.4	1849.4	1572.1	1333.2	1129.2	940.9	778.5	628.1	112.5	5.4	1.8
70°	1924.0	1673.8	1430.0	1207.4	1022.2	851.9	708.7	572.8	103.4	3.6	1.2
72.5°	1412.6	1242.4	1053.5	892.8	770.0	639.5	545.7	430.1	80.0	2.4	0.6
75°	418.7	381.4	320.6	282.8	249.7	206.3	183.5	143.2	40.9	1.2	0.0
77.5°	83.6	75.8	68.0	62.0	58.3	49.9	47.5	39.1	16.9	0.6	0.0
80°	43.9	36.1	30.7	27.1	23.5	19.3	16.3	13.2	3.0	0.0	0.0
82.5°	42.1	28.3	20.5	16.9	14.5	11.5	9.0	6.6	1.8	0.0	0.0
85°	15.7	12.0	9.0	7.3	6.0	5.4	4.2	3.6	0.0	0.0	0.0
87.5°	2.4	1.8	1.8	1.2	1.2	0.6	0.6	0.6	0.0	0.0	0.0
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: P165016

CATALOG NUMBER: VST-E02-LED-E-U-SL2-HSS-7030

**CANDELA DISTRIBUTION (continued):**

	125°	135°	145°	155°	165°	175°	180°
0°	127.0	127.0	127.0	127.0	127.0	127.0	127.0
2.5°	107.7	102.9	100.4	97.5	97.5	96.8	98.0
5°	89.6	83.0	78.2	74.6	75.2	73.4	74.0
7.5°	75.8	69.2	65.0	62.6	62.0	61.4	61.4
10°	65.6	59.6	55.9	54.1	53.6	53.6	53.6
12.5°	58.3	52.4	49.3	48.1	48.1	47.5	47.5
15°	52.4	47.5	44.5	43.3	43.3	42.7	43.3
17.5°	47.5	42.7	40.3	39.1	39.1	38.5	38.5
20°	43.3	39.1	36.7	34.9	34.9	34.3	34.9
22.5°	39.7	35.5	32.5	31.3	30.7	30.1	30.7
25°	36.1	31.9	28.9	27.1	26.5	26.5	25.9
27.5°	33.1	28.9	25.3	23.5	22.9	22.9	22.3
30°	30.1	25.3	21.7	19.9	19.3	19.3	19.3
32.5°	27.1	21.7	18.7	16.9	16.3	16.3	16.3
35°	24.1	18.7	15.7	13.9	13.2	13.2	13.2
37.5°	20.5	15.7	12.0	10.8	10.2	9.6	9.6
40°	17.5	12.0	9.0	7.8	6.6	6.6	6.6
42.5°	14.5	9.6	6.6	4.8	4.2	3.6	4.2
45°	12.0	7.3	4.2	2.4	1.8	1.8	1.8
47.5°	9.6	4.8	1.8	0.6	0.6	0.6	0.6
50°	7.3	3.0	0.6	0.0	0.0	0.6	0.6
52.5°	5.4	1.8	0.0	0.0	0.0	0.0	0.0
55°	3.0	0.6	0.0	0.0	0.0	0.0	0.0
57.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)