

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: P165019

Luminaire Tested: **VST-E02-LED-E-U-SL2-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165019
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-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3717.9 lumens
Efficiency: N/A
Efficacy: 71.4 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



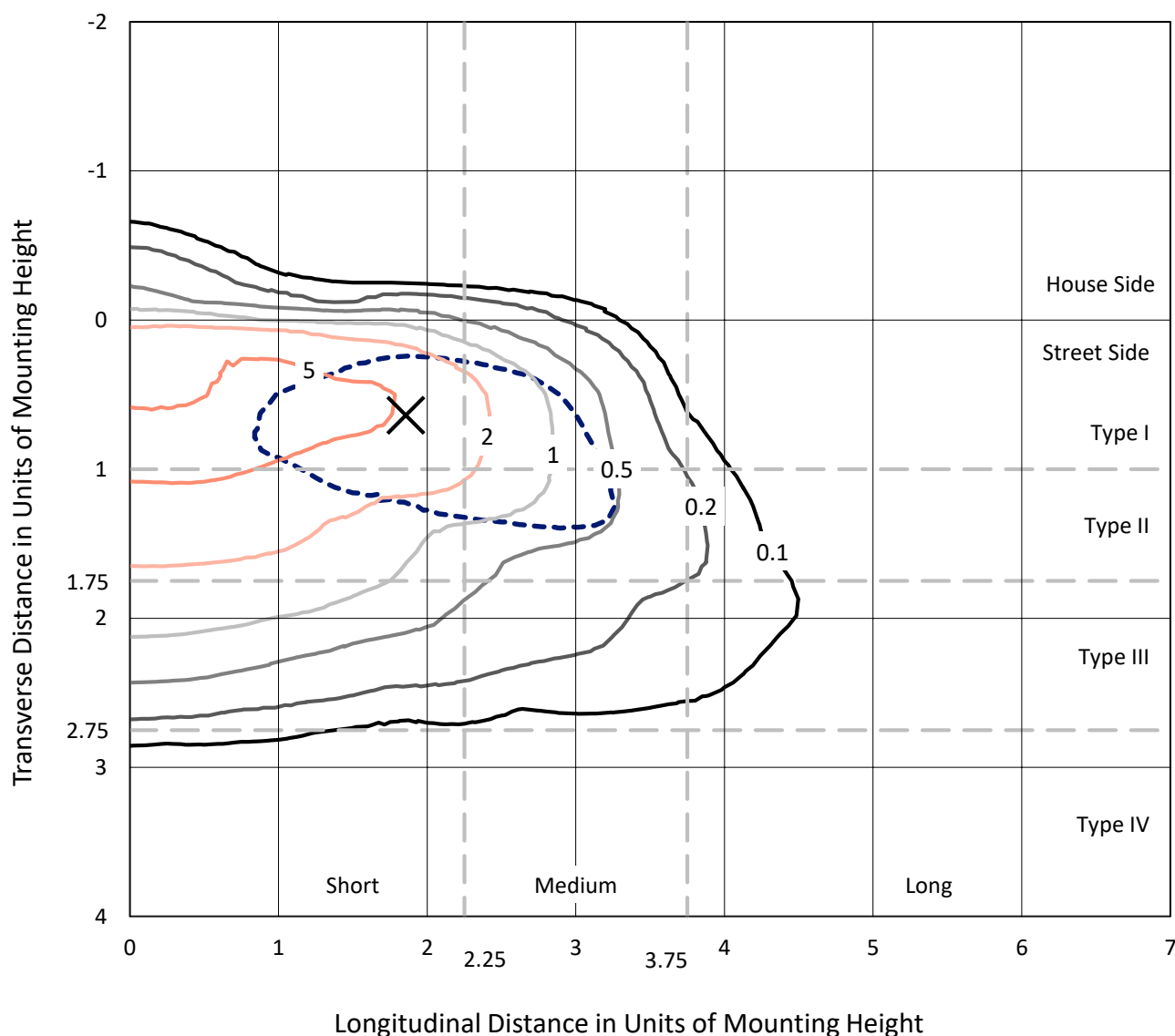
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

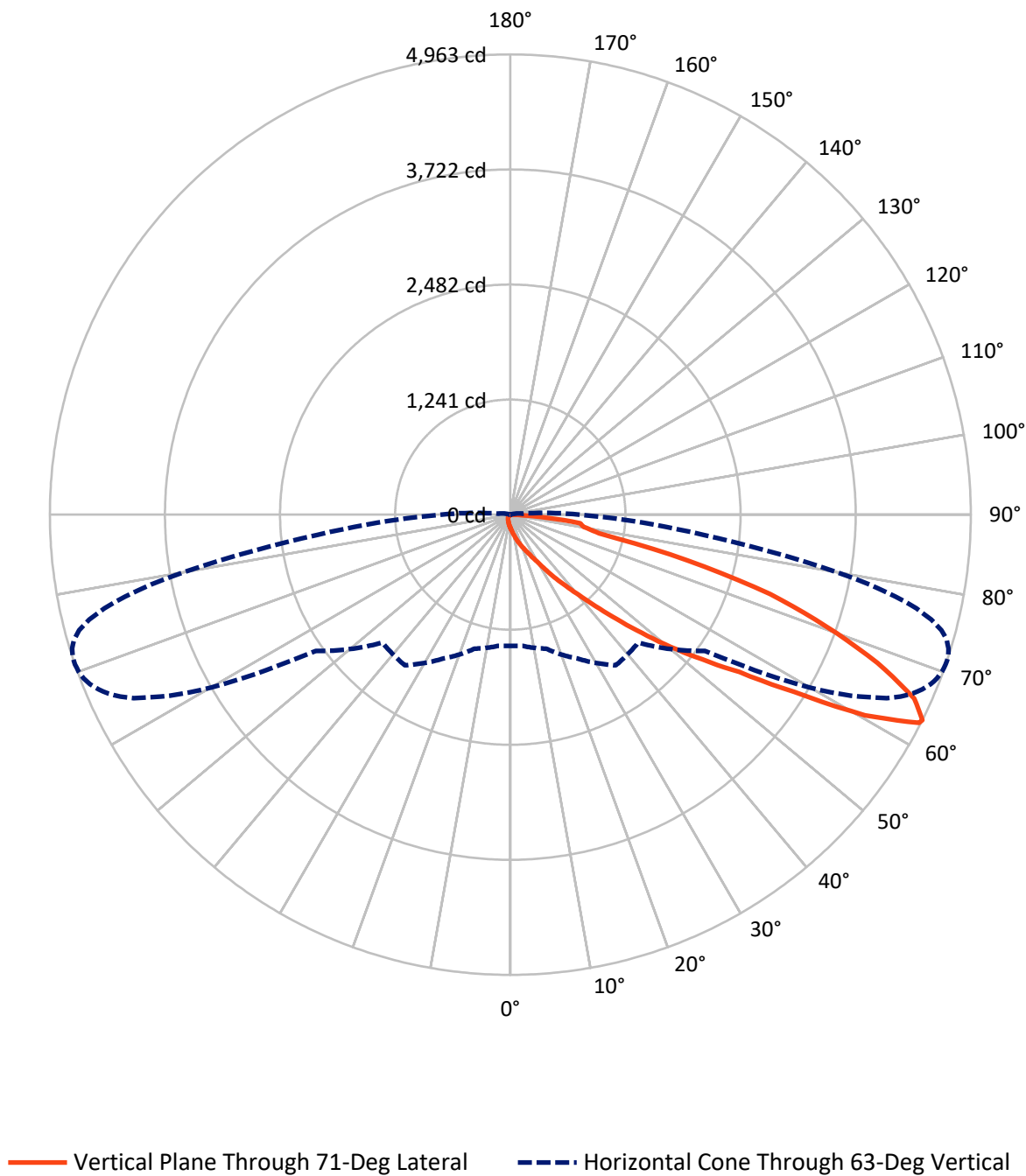


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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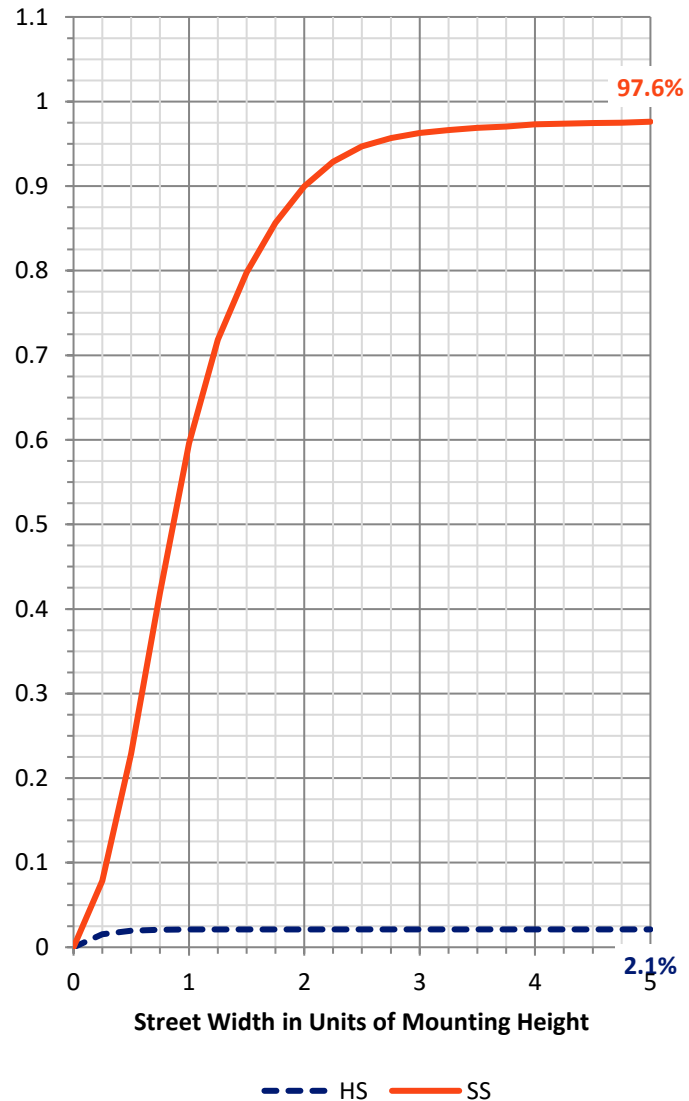
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	78.9	0.0	78.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3639.0	0.0	3639.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	3717.9	0.0	3717.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	0.4
10°-20°	61.1	1.6
20°-30°	124.2	3.3
30°-40°	303.4	8.2
40°-50°	678.5	18.2
50°-60°	954.0	25.7
60°-70°	1121.8	30.2
70°-80°	405.1	10.9
80°-90°	54.2	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°	3717.9	100.0
0°-180°	3717.9	100.0

Coefficient of Utilization



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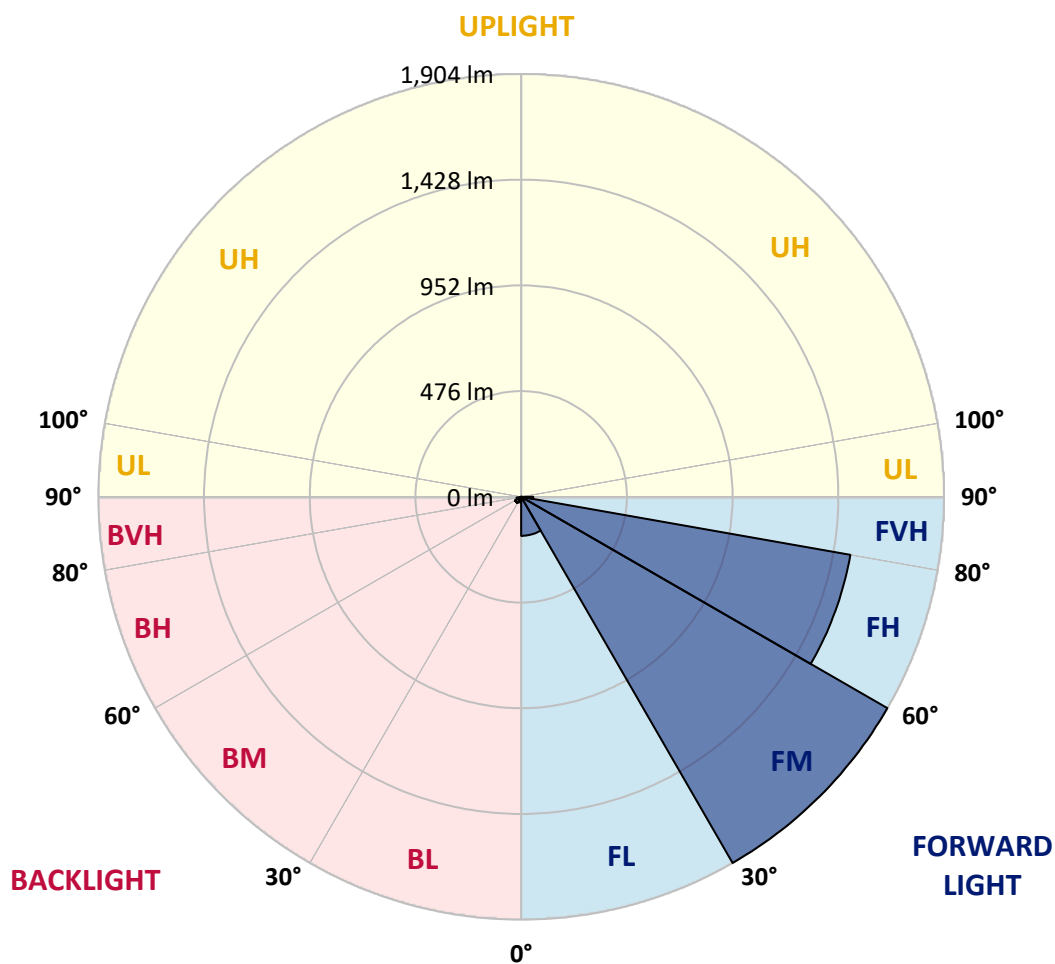
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	175.7	4.7			
FM	(30°-60°)	1904.0	51.2			
FH	(60°-80°)	1505.2	40.5			G1/1800
FVH	(80°-90°)	54.1	1.5			G1/100
BL	(0°-30°)	25.4	0.7	B0/110		
BM	(30°-60°)	31.8	0.9	B0/220		
BH	(60°-80°)	21.6	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°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6
2.5°	186.5	188.6	187.2	183.8	179.8	174.4	169.6	169.6	169.0	166.9	167.6
5°	244.7	245.3	242.6	234.5	227.1	215.6	202.7	201.4	200.0	198.1	197.4
7.5°	301.4	304.1	301.4	292.6	277.8	260.2	239.9	238.0	233.9	233.9	231.2
10°	359.6	359.6	356.9	346.7	333.2	308.2	282.5	279.1	274.4	273.1	269.0
12.5°	400.8	400.8	399.4	394.1	383.2	361.0	329.8	326.5	320.4	318.4	313.6
15°	417.0	417.0	417.7	422.4	423.1	413.0	380.5	377.8	371.8	366.3	364.3
17.5°	427.1	426.5	426.5	433.3	445.4	452.2	431.2	428.5	421.8	419.0	412.3
20°	449.5	448.1	444.1	444.1	455.5	479.2	479.2	478.6	471.1	469.1	465.7
22.5°	482.6	481.3	469.1	458.9	464.3	494.1	521.8	520.4	517.7	515.0	513.0
25°	536.6	532.0	511.0	481.3	476.5	508.3	554.2	557.6	559.6	559.6	561.0
27.5°	618.5	612.4	575.2	519.8	498.8	531.2	590.0	596.8	602.9	604.3	610.3
30°	732.0	721.2	667.8	586.7	538.7	565.1	642.8	650.2	659.0	661.7	671.2
32.5°	918.5	912.5	861.1	739.4	636.7	631.3	716.5	725.9	737.4	742.1	753.6
35°	1202.5	1203.8	1161.9	1052.4	910.4	836.1	848.3	856.3	860.4	874.6	880.7
37.5°	1395.1	1398.4	1407.9	1364.6	1263.2	1187.5	1092.2	1101.1	1080.1	1082.1	1082.8
40°	1500.5	1511.3	1566.7	1608.7	1600.5	1556.6	1480.2	1484.9	1445.8	1436.9	1394.3
42.5°	1570.7	1585.0	1673.5	1803.3	1869.5	1909.4	1891.9	1889.8	1859.4	1847.9	1812.1
45°	1614.7	1627.6	1739.1	1930.4	2083.1	2199.4	2247.4	2252.8	2227.1	2215.6	2185.9
47.5°	1612.7	1627.6	1747.2	1977.7	2202.8	2388.6	2523.8	2530.6	2546.1	2536.0	2537.9
50°	1523.5	1537.7	1658.0	1897.2	2167.6	2475.1	2722.5	2744.2	2769.1	2786.0	2794.1
52.5°	1415.3	1425.5	1532.3	1759.4	2017.5	2439.3	2840.1	2877.3	2914.4	2946.2	2968.5
55°	1375.4	1386.9	1470.7	1659.4	1897.2	2289.2	2894.8	2949.6	3002.3	3054.4	3097.0
57.5°	1396.4	1407.2	1467.4	1612.0	1825.6	2131.1	2910.4	2995.6	3082.1	3166.6	3250.4
60°	1473.4	1484.9	1536.3	1655.9	1806.7	2039.9	2849.6	2990.9	3134.8	3282.1	3420.7
62.5°	1443.1	1447.7	1523.5	1733.0	1941.8	1962.1	2628.5	2825.9	3045.6	3272.7	3496.4
63°	1414.0	1419.4	1496.5	1712.0	1983.1	1950.6	2560.3	2768.5	3000.3	3245.0	3488.3
65°	1282.2	1282.9	1341.7	1512.0	1937.1	1970.9	2256.2	2454.8	2721.1	3014.5	3322.0
67.5°	957.1	952.3	1009.1	1138.9	1520.8	1971.6	1936.4	2048.0	2233.2	2493.4	2769.1
70°	339.3	331.9	423.8	603.5	947.6	1612.7	1664.0	1671.5	1722.9	1863.4	2036.5
72.5°	110.2	112.2	135.2	221.0	436.6	1085.5	1506.5	1483.6	1470.1	1469.4	1492.4
75°	43.9	44.6	54.1	98.0	196.0	523.1	1319.3	1332.2	1336.9	1343.6	1351.1
77.5°	20.9	23.0	30.4	54.8	97.3	258.8	944.2	1053.1	1115.2	1163.2	1192.3
80°	7.4	8.8	16.9	33.8	45.3	118.9	497.5	600.2	691.4	809.0	910.4
82.5°	0.0	0.0	3.4	23.6	25.0	48.0	204.1	239.2	273.7	354.8	455.5
85°	0.0	0.0	0.0	6.8	7.4	8.1	68.9	83.2	93.3	108.8	125.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	4.1	10.1	15.5
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6
2.5°	166.3	165.6	165.6	164.3	163.6	162.2	161.6	159.5	158.8	158.8	158.8
5°	196.7	194.0	192.6	189.2	187.2	186.5	183.2	181.8	179.8	180.5	177.1
7.5°	230.5	225.7	223.7	219.0	217.7	212.9	211.6	208.2	206.2	202.1	200.8
10°	267.7	261.6	258.2	250.7	248.7	245.3	241.3	237.2	233.9	229.8	227.8
12.5°	310.3	304.9	302.1	292.0	287.3	282.5	277.1	271.7	266.3	262.9	258.2
15°	360.2	351.5	348.8	339.3	331.2	325.1	317.7	310.9	306.8	300.1	295.4
17.5°	409.6	400.8	398.8	384.6	375.8	371.8	363.7	354.8	347.4	340.7	333.2
20°	458.9	452.8	447.4	433.9	424.5	417.7	406.9	398.1	392.0	382.6	373.1
22.5°	508.3	502.2	498.2	484.0	475.1	465.7	456.2	446.8	438.0	426.5	415.7
25°	559.0	554.9	552.8	540.1	532.0	523.1	513.7	502.9	492.1	479.2	467.8
27.5°	611.7	613.0	609.0	606.2	597.5	591.4	576.5	569.1	561.0	545.5	531.2
30°	678.6	682.6	681.3	683.3	677.9	673.9	662.4	652.9	643.4	628.6	612.4
32.5°	763.1	768.5	771.2	778.6	775.9	774.6	771.2	757.7	750.9	725.3	718.5
35°	893.5	890.8	902.3	908.4	905.7	904.4	900.3	892.9	884.8	866.5	849.6
37.5°	1063.1	1065.9	1069.9	1057.8	1049.6	1049.0	1036.8	1029.4	1017.9	997.6	977.3
40°	1374.1	1357.2	1338.3	1286.9	1264.6	1251.8	1216.0	1205.8	1186.2	1158.5	1137.5
42.5°	1778.3	1761.4	1704.6	1618.8	1572.8	1509.3	1480.2	1444.4	1416.7	1371.4	1347.1
45°	2179.8	2131.1	2124.3	2024.3	1967.5	1883.7	1831.7	1771.5	1708.7	1649.2	1606.0
47.5°	2518.4	2507.6	2474.5	2413.6	2360.9	2290.6	2223.7	2131.1	2066.2	1981.7	1904.0
50°	2789.4	2788.7	2776.6	2741.4	2697.5	2640.7	2581.9	2503.6	2429.9	2326.4	2243.3
52.5°	2992.2	3003.0	3007.1	2996.2	2979.4	2929.3	2899.6	2834.0	2771.8	2684.0	2594.1
55°	3140.9	3180.8	3201.1	3224.0	3219.3	3201.7	3200.4	3157.8	3129.4	3059.8	2996.2
57.5°	3324.7	3390.3	3453.1	3564.7	3568.7	3608.0	3628.2	3648.5	3653.9	3626.2	3605.2
60°	3558.6	3692.4	3811.4	4044.6	4105.4	4201.4	4263.5	4331.2	4388.6	4393.3	4392.0
62.5°	3723.5	3929.6	4121.6	4467.7	4586.0	4696.8	4779.9	4845.5	4885.4	4925.9	4944.8
63°	3728.3	3954.0	4158.1	4515.0	4639.4	4744.8	4823.9	4884.7	4926.6	4950.9	4963.1
65°	3614.0	3887.8	4131.1	4486.6	4603.5	4709.6	4750.9	4790.8	4811.0	4820.5	4784.6
67.5°	3063.2	3330.8	3614.7	4012.1	4112.2	4239.2	4273.0	4293.3	4302.7	4300.7	4270.3
70°	2290.6	2515.0	2830.7	3284.9	3417.4	3541.7	3618.7	3651.8	3662.6	3659.3	3614.0
72.5°	1599.2	1730.9	1991.2	2496.8	2677.3	2836.7	2932.0	2981.3	2991.5	2971.3	2929.3
75°	1343.0	1349.8	1408.6	1685.0	1853.9	2024.3	2131.7	2162.9	2142.6	2081.0	1974.3
77.5°	1199.0	1213.9	1213.9	1255.1	1288.3	1335.6	1345.7	1270.0	1182.2	1068.6	976.7
80°	1005.7	1057.8	1094.3	1124.7	1128.1	1118.6	1093.6	1051.0	983.4	896.9	800.9
82.5°	611.0	713.8	755.6	912.5	989.5	1041.5	1037.5	980.7	929.3	839.5	757.7
85°	154.1	166.3	180.5	234.5	262.9	321.1	357.5	374.5	380.5	349.4	316.3
87.5°	14.9	10.1	16.9	12.8	18.2	13.5	18.2	16.9	20.9	22.3	24.4
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6
2.5°	157.5	156.8	156.1	155.5	154.8	154.1	152.8	152.8	151.4	150.7	150.1
5°	175.1	173.7	173.0	171.7	169.6	168.3	166.3	163.6	161.6	160.9	159.5
7.5°	197.4	194.0	192.6	190.6	187.9	183.8	181.1	179.1	175.7	173.7	169.6
10°	222.4	219.0	214.9	210.9	206.8	202.1	198.7	196.0	190.6	187.9	183.2
12.5°	254.2	248.1	243.3	238.0	232.5	227.1	223.0	214.9	210.2	204.1	200.0
15°	286.6	281.2	275.8	269.0	260.9	252.1	248.1	240.6	234.5	225.1	219.7
17.5°	325.7	315.7	307.6	299.4	292.0	283.9	275.8	264.3	255.5	247.4	236.6
20°	364.3	352.1	343.3	332.5	321.7	308.9	299.4	291.3	279.1	268.3	256.9
22.5°	405.5	393.4	379.1	368.4	353.5	343.3	330.5	317.0	304.9	290.6	276.4
25°	455.5	442.7	426.5	412.3	395.4	381.2	365.6	350.1	335.2	319.0	300.8
27.5°	517.1	503.5	485.9	469.1	446.8	429.2	414.4	393.4	374.5	354.2	333.2
30°	594.8	579.9	558.3	533.9	511.7	492.1	471.1	443.4	422.4	398.1	371.1
32.5°	696.2	678.6	649.5	626.5	598.9	573.1	544.1	516.4	486.7	454.9	423.8
35°	823.9	807.7	773.9	740.1	709.7	679.3	642.8	611.0	569.1	530.6	490.7
37.5°	956.4	927.3	896.2	859.7	821.9	785.4	740.8	696.8	648.8	607.0	556.9
40°	1107.8	1072.6	1046.9	1007.8	954.4	902.3	861.1	806.3	746.2	690.1	631.3
42.5°	1315.3	1276.1	1230.1	1170.7	1132.1	1071.3	1017.9	953.0	873.9	811.1	740.1
45°	1555.3	1501.9	1457.2	1399.8	1353.1	1277.5	1215.3	1128.8	1049.6	967.2	880.7
47.5°	1829.0	1762.7	1697.8	1641.1	1566.7	1492.4	1413.3	1321.4	1220.0	1129.4	1026.7
50°	2143.3	2049.3	1959.4	1886.5	1784.3	1698.5	1612.7	1509.3	1397.0	1293.0	1176.1
52.5°	2492.7	2383.9	2264.9	2152.7	2034.4	1924.3	1820.8	1701.9	1576.9	1449.8	1319.3
55°	2914.4	2832.7	2692.8	2550.2	2392.0	2244.7	2111.5	1964.2	1812.1	1645.1	1507.9
57.5°	3574.8	3535.0	3418.0	3275.4	3069.2	2890.1	2664.4	2483.9	2263.6	2033.8	1856.7
60°	4469.7	4420.3	4354.8	4239.2	4075.6	3832.3	3583.6	3303.1	2967.8	2649.5	2347.4
62.5°	4946.9	4929.3	4875.9	4796.2	4643.4	4451.5	4200.7	3892.4	3514.0	3127.4	2742.1
63°	4961.0	4938.8	4892.8	4811.7	4677.2	4491.4	4245.3	3945.8	3575.5	3181.4	2788.1
65°	4769.2	4760.3	4713.7	4625.2	4533.2	4391.3	4200.7	3943.1	3632.2	3259.9	2868.5
67.5°	4229.8	4203.4	4131.8	4104.7	4040.5	3941.8	3796.5	3619.4	3397.1	3104.4	2766.4
70°	3577.5	3538.3	3448.4	3400.4	3322.0	3259.9	3171.3	3044.9	2907.7	2703.6	2451.5
72.5°	2886.1	2804.9	2722.5	2597.5	2488.0	2377.1	2279.1	2189.9	2039.2	1956.7	1765.4
75°	1874.2	1726.9	1585.7	1396.4	1226.1	1075.4	928.7	854.3	699.5	636.7	546.8
77.5°	889.4	807.0	696.2	610.3	500.8	408.9	333.9	250.7	196.7	154.1	117.6
80°	717.8	648.2	581.3	503.5	421.1	335.9	257.5	192.6	136.5	94.6	66.9
82.5°	640.1	564.4	481.9	428.5	372.4	304.9	250.1	204.1	150.7	110.2	75.0
85°	248.7	209.5	161.6	131.8	102.7	84.5	76.4	52.7	41.2	32.4	25.0
87.5°	21.7	17.6	14.2	9.5	10.1	5.4	6.1	4.1	3.4	3.4	2.7
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6
2.5°	149.3	148.7	148.0	146.6	146.6	145.3	144.7	144.0	140.6	133.1	127.1
5°	156.8	155.5	154.1	152.0	150.7	148.7	147.4	145.3	137.9	123.7	111.5
7.5°	167.6	164.9	162.9	158.8	156.8	154.1	152.0	148.7	136.5	114.9	98.0
10°	180.5	175.7	172.3	167.6	163.6	160.2	156.8	152.0	135.2	105.4	85.8
12.5°	196.0	190.6	183.8	178.4	173.0	168.3	163.6	157.5	133.1	97.3	76.4
15°	211.6	203.5	198.7	191.3	183.8	177.1	170.3	164.9	133.9	88.6	68.3
17.5°	229.1	221.0	210.9	202.7	194.7	185.9	177.8	166.9	130.4	81.8	62.2
20°	246.0	234.5	225.1	214.9	203.5	192.6	182.5	173.0	127.7	75.0	56.8
22.5°	264.3	250.7	238.6	225.7	211.6	199.4	187.2	175.1	123.0	68.9	52.0
25°	286.6	271.0	253.4	238.0	223.0	208.2	192.6	177.8	118.3	63.5	48.7
27.5°	313.6	293.3	275.8	256.1	235.2	216.3	199.4	183.2	113.6	59.5	45.3
30°	348.1	324.4	299.4	274.4	252.1	230.5	206.8	186.5	108.8	55.4	41.9
32.5°	394.1	364.3	333.9	304.9	275.1	247.4	222.4	196.0	106.1	52.0	38.5
35°	454.9	416.3	379.1	342.7	306.8	273.1	240.6	210.9	106.1	48.0	34.5
37.5°	512.3	467.8	420.4	375.1	332.5	293.3	254.8	219.0	100.7	44.6	31.1
40°	574.5	521.1	465.7	412.3	361.0	312.2	268.3	227.1	95.9	40.6	27.7
42.5°	669.8	602.2	529.9	467.8	406.2	346.0	291.3	242.6	89.9	36.5	24.4
45°	794.9	709.0	623.9	548.2	469.7	396.1	331.2	271.0	88.6	33.1	20.9
47.5°	928.7	827.3	727.3	630.6	538.7	452.8	375.1	302.8	88.6	29.8	18.2
50°	1061.8	934.8	828.0	715.8	612.4	511.0	418.4	335.9	89.2	27.1	14.9
52.5°	1182.2	1046.3	926.6	796.9	682.6	565.1	464.3	368.4	87.9	23.6	12.1
55°	1349.1	1189.6	1051.0	907.7	773.9	641.5	527.2	417.0	88.6	20.9	10.1
57.5°	1656.6	1469.4	1302.5	1114.6	960.4	789.4	650.9	517.1	96.7	17.6	7.4
60°	2098.0	1854.7	1620.1	1391.0	1195.0	991.6	811.7	654.3	113.6	14.2	5.4
62.5°	2394.7	2076.4	1796.5	1543.7	1316.0	1103.0	907.0	727.9	125.0	11.5	3.4
63°	2425.1	2096.0	1814.8	1553.9	1321.4	1108.5	911.1	733.3	125.7	10.8	3.4
65°	2482.6	2129.8	1824.9	1555.9	1316.0	1101.1	908.4	732.7	127.1	8.8	2.7
67.5°	2417.0	2077.7	1766.2	1497.8	1268.6	1057.1	874.6	705.7	126.4	6.1	2.0
70°	2161.5	1880.3	1606.6	1356.5	1148.3	957.1	796.2	643.4	116.2	4.1	1.4
72.5°	1587.0	1395.7	1183.5	1003.0	865.1	718.5	613.0	483.2	89.9	2.7	0.7
75°	470.4	428.5	360.2	317.7	280.5	231.8	206.2	160.9	46.0	1.4	0.0
77.5°	94.0	85.1	76.4	69.6	65.5	56.1	53.4	43.9	18.9	0.7	0.0
80°	49.3	40.6	34.5	30.4	26.3	21.7	18.2	14.9	3.4	0.0	0.0
82.5°	47.3	31.7	23.0	18.9	16.2	12.8	10.1	7.4	2.0	0.0	0.0
85°	17.6	13.5	10.1	8.1	6.8	6.1	4.7	4.1	0.0	0.0	0.0
87.5°	2.7	2.0	2.0	1.4	1.4	0.7	0.7	0.7	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



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CATALOG NUMBER: VST-E02-LED-E-U-SL2-HSS-7060

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	142.6	142.6	142.6	142.6	142.6	142.6	142.6
2.5°	121.0	115.6	112.9	109.5	109.5	108.8	110.2
5°	100.7	93.3	87.9	83.8	84.5	82.4	83.2
7.5°	85.1	77.8	73.0	70.3	69.6	68.9	68.9
10°	73.7	66.9	62.8	60.8	60.2	60.2	60.2
12.5°	65.5	58.8	55.4	54.1	54.1	53.4	53.4
15°	58.8	53.4	50.0	48.7	48.7	48.0	48.7
17.5°	53.4	48.0	45.3	43.9	43.9	43.3	43.3
20°	48.7	43.9	41.2	39.2	39.2	38.5	39.2
22.5°	44.6	39.9	36.5	35.2	34.5	33.8	34.5
25°	40.6	35.8	32.4	30.4	29.8	29.8	29.0
27.5°	37.2	32.4	28.4	26.3	25.7	25.7	25.0
30°	33.8	28.4	24.4	22.3	21.7	21.7	21.7
32.5°	30.4	24.4	20.9	18.9	18.2	18.2	18.2
35°	27.1	20.9	17.6	15.5	14.9	14.9	14.9
37.5°	23.0	17.6	13.5	12.1	11.5	10.8	10.8
40°	19.6	13.5	10.1	8.8	7.4	7.4	7.4
42.5°	16.2	10.8	7.4	5.4	4.7	4.1	4.7
45°	13.5	8.1	4.7	2.7	2.0	2.0	2.0
47.5°	10.8	5.4	2.0	0.7	0.7	0.7	0.7
50°	8.1	3.4	0.7	0.0	0.0	0.7	0.7
52.5°	6.1	2.0	0.0	0.0	0.0	0.0	0.0
55°	3.4	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	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)