

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: P165054

Luminaire Tested: **VST-F05-LED-E-U-SL2-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165054
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-F05-LED-E-U-SL2-HSS-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (35) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7673.1 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 133.3
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

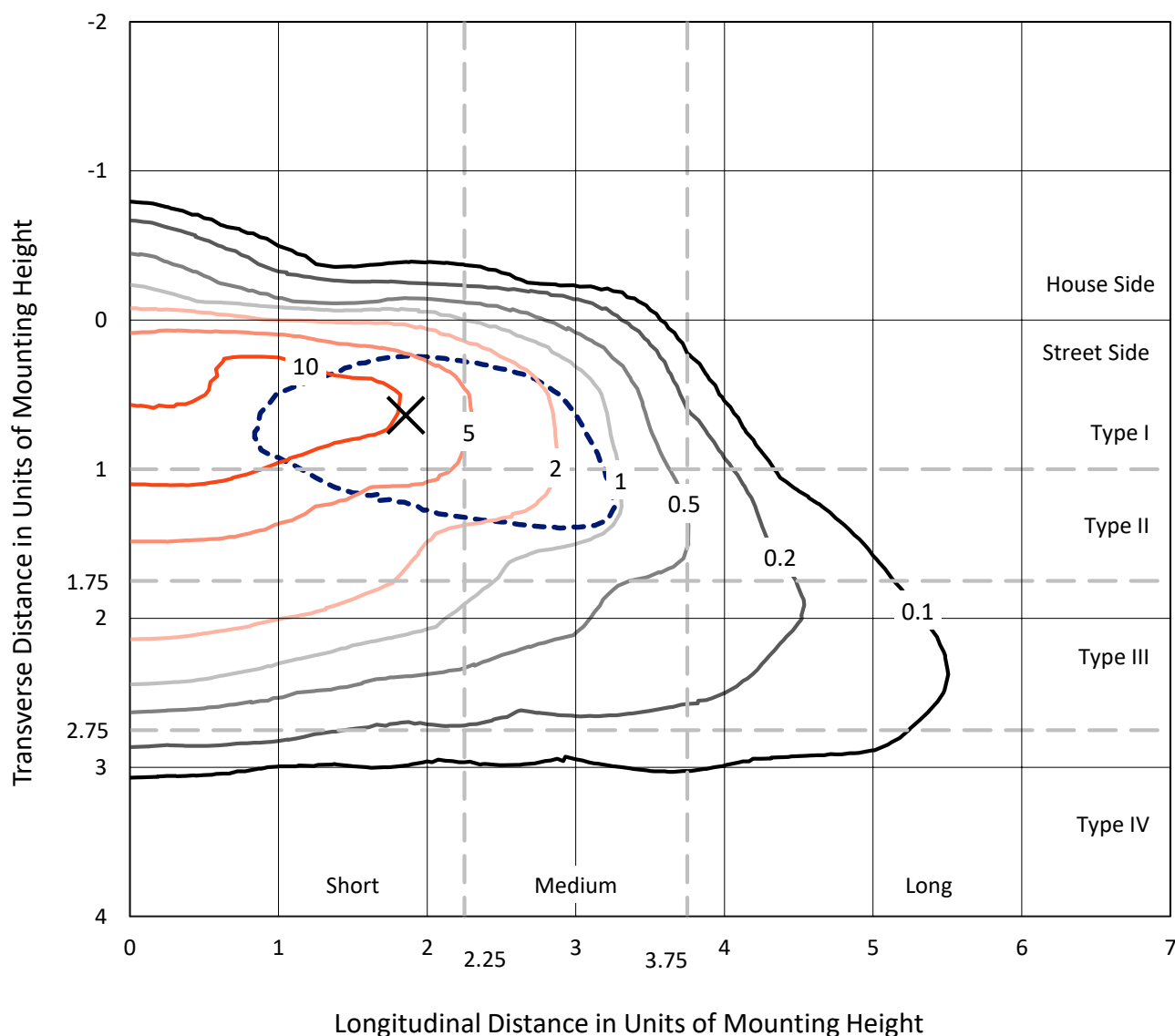


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

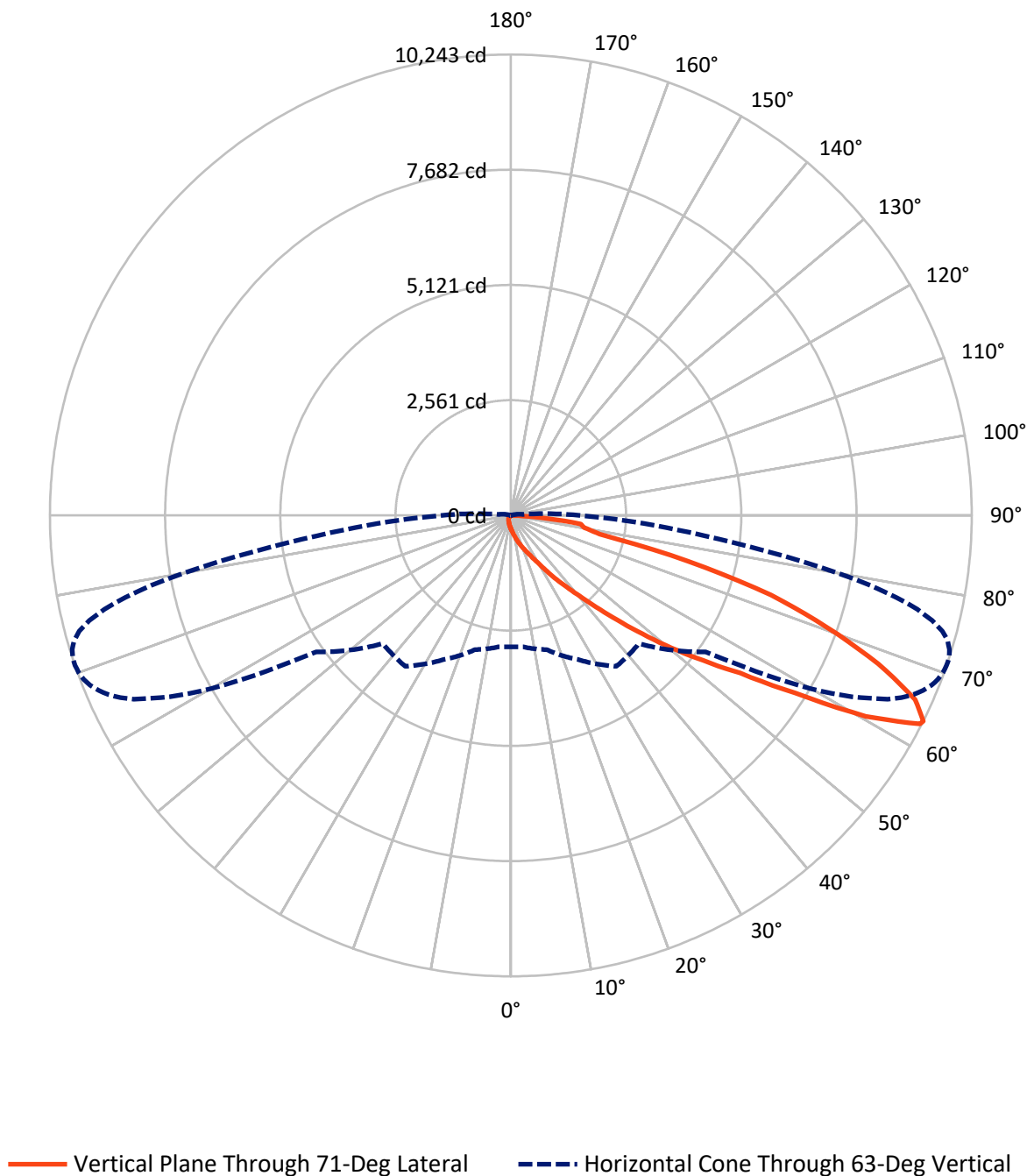


Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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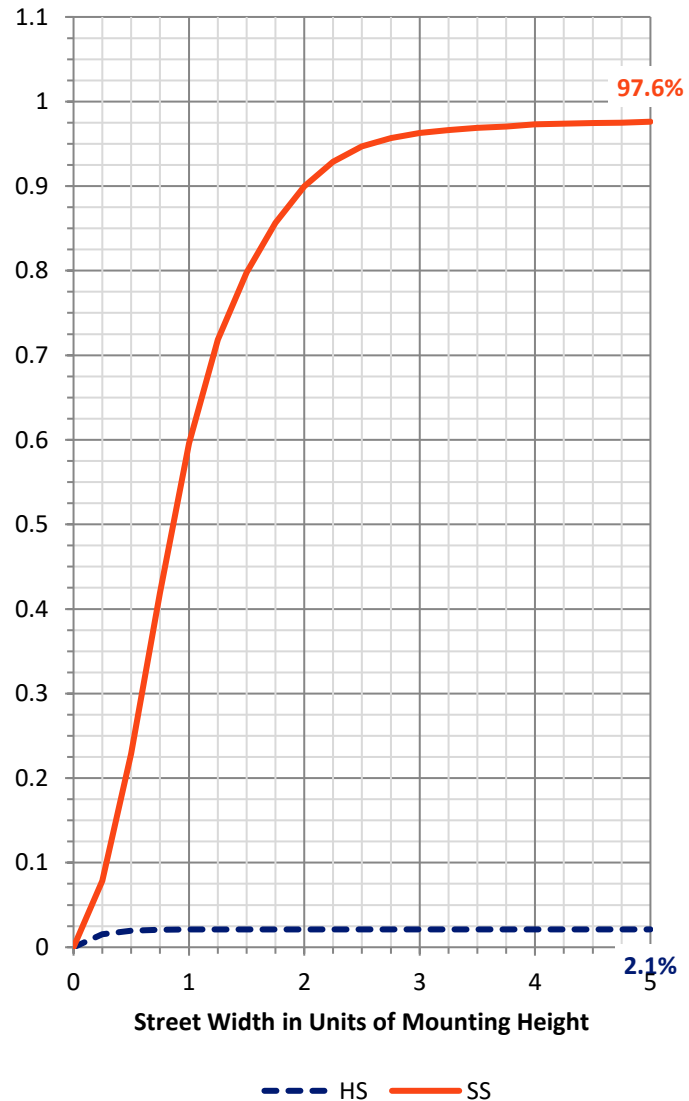
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	162.9	0.0	162.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7510.2	0.0	7510.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	7673.1	0.0	7673.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	0.4
10°-20°	126.2	1.6
20°-30°	256.3	3.3
30°-40°	626.1	8.2
40°-50°	1400.2	18.2
50°-60°	1968.8	25.7
60°-70°	2315.2	30.2
70°-80°	836.0	10.9
80°-90°	111.8	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°	7673.1	100.0
0°-180°	7673.1	100.0

Coefficient of Utilization



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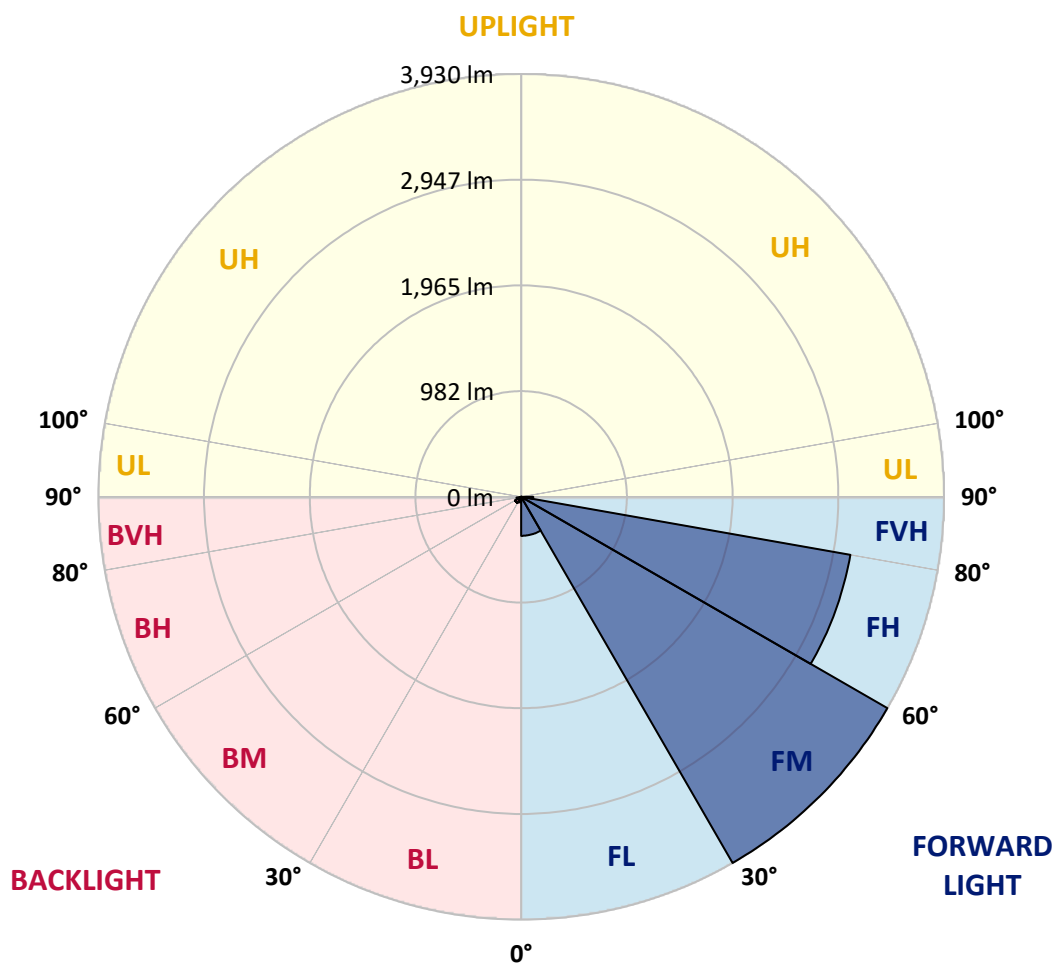
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.6	4.7			
FM	(30°-60°)	3929.5	51.2			
FH	(60°-80°)	3106.5	40.5			G2/5000
FVH	(80°-90°)	111.6	1.5			G2/225
BL	(0°-30°)	52.4	0.7	B0/110		
BM	(30°-60°)	65.6	0.9	B0/220		
BH	(60°-80°)	44.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4
2.5°	385.0	389.1	386.4	379.4	371.0	359.9	350.1	350.1	348.7	344.5	345.9
5°	504.9	506.4	500.8	484.0	468.7	445.0	418.5	415.7	412.9	408.7	407.4
7.5°	622.2	627.7	622.2	604.0	573.3	537.0	495.2	491.0	482.7	482.7	477.1
10°	742.1	742.1	736.5	715.6	687.7	636.1	583.0	576.1	566.4	563.6	555.2
12.5°	827.2	827.2	824.4	813.3	790.9	744.9	680.7	673.8	661.2	657.0	647.3
15°	860.6	860.6	862.1	871.8	873.3	852.3	785.3	779.7	767.2	756.0	751.9
17.5°	881.6	880.2	880.2	894.2	919.2	933.2	889.9	884.3	870.5	864.9	850.9
20°	927.6	924.8	916.5	916.5	940.2	989.0	989.0	987.6	972.3	968.0	961.1
22.5°	996.0	993.2	968.0	947.1	958.3	1019.7	1076.9	1074.1	1068.5	1062.9	1058.8
25°	1107.6	1097.8	1054.5	993.2	983.5	1049.0	1143.8	1150.8	1155.0	1155.0	1157.8
27.5°	1276.4	1263.8	1187.1	1072.7	1029.5	1096.4	1217.8	1231.7	1244.3	1247.1	1259.6
30°	1510.7	1488.4	1378.2	1210.8	1111.8	1166.2	1326.6	1341.9	1360.1	1365.7	1385.1
32.5°	1895.7	1883.1	1777.2	1526.0	1314.0	1302.9	1478.7	1498.1	1521.9	1531.6	1555.3
35°	2481.6	2484.4	2397.9	2171.9	1879.0	1725.5	1750.7	1767.3	1775.7	1805.0	1817.6
37.5°	2879.1	2886.1	2905.6	2816.4	2607.1	2450.8	2254.2	2272.4	2229.1	2233.2	2234.7
40°	3096.7	3119.0	3233.5	3319.9	3303.2	3212.5	3054.9	3064.6	2983.7	2965.6	2877.7
42.5°	3241.8	3271.1	3453.9	3721.6	3858.3	3940.7	3904.4	3900.2	3837.4	3813.7	3739.8
45°	3332.5	3359.0	3589.1	3983.9	4299.2	4539.1	4638.1	4649.3	4596.2	4572.5	4511.2
47.5°	3328.2	3359.0	3605.8	4081.5	4546.1	4929.6	5208.7	5222.6	5254.7	5233.7	5237.9
50°	3144.2	3173.5	3421.8	3915.5	4473.5	5108.2	5618.7	5663.4	5715.0	5749.9	5766.6
52.5°	2921.0	2941.9	3162.3	3631.0	4163.8	5034.3	5861.4	5938.2	6014.9	6080.5	6126.5
55°	2838.6	2862.4	3035.3	3424.6	3915.5	4724.6	5974.4	6087.4	6196.3	6303.7	6391.5
57.5°	2881.9	2904.2	3028.4	3326.9	3767.7	4398.2	6006.5	6182.3	6360.9	6535.2	6708.2
60°	3040.9	3064.6	3170.7	3417.5	3728.7	4209.9	5881.0	6172.6	6469.6	6773.7	7059.7
62.5°	2978.1	2987.9	3144.2	3576.6	4007.6	4049.4	5424.8	5832.2	6285.6	6754.2	7215.9
63°	2918.2	2929.4	3088.4	3533.3	4092.7	4025.7	5284.0	5713.6	6192.0	6697.0	7199.2
65°	2646.2	2647.5	2768.9	3120.5	3997.9	4067.6	4656.3	5066.4	5615.9	6221.3	6856.1
67.5°	1975.2	1965.5	2082.6	2350.5	3138.6	4069.0	3996.4	4226.7	4608.9	5145.9	5715.0
70°	700.3	684.9	874.6	1245.6	1955.6	3328.2	3434.3	3449.6	3555.7	3845.8	4202.9
72.5°	227.4	231.6	278.9	456.2	901.1	2240.3	3109.3	3061.8	3034.0	3032.5	3080.0
75°	90.6	92.1	111.6	202.3	404.6	1079.7	2722.9	2749.4	2759.2	2773.1	2788.5
77.5°	43.2	47.4	62.8	113.0	200.8	534.3	1948.7	2173.3	2301.6	2400.7	2460.7
80°	15.3	18.1	34.9	69.7	93.4	245.5	1026.7	1238.7	1427.0	1669.8	1879.0
82.5°	0.0	0.0	6.9	48.8	51.6	99.0	421.3	493.8	564.9	732.3	940.2
85°	0.0	0.0	0.0	14.0	15.3	16.8	142.3	171.6	192.5	224.6	259.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	8.4	20.9	32.1
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4
2.5°	343.2	341.8	341.8	339.0	337.6	334.8	333.4	329.2	327.8	327.8	327.8
5°	405.9	400.3	397.5	390.6	386.4	385.0	378.0	375.3	371.0	372.5	365.4
7.5°	475.6	465.9	461.7	451.9	449.2	439.4	436.6	429.6	425.5	417.1	414.3
10°	552.4	539.8	532.9	517.5	513.3	506.4	498.0	489.6	482.7	474.3	470.1
12.5°	640.3	629.1	623.5	602.6	592.9	583.0	571.9	560.8	549.6	542.6	532.9
15°	743.5	725.4	719.8	700.3	683.5	671.0	655.6	641.7	633.3	619.4	609.6
17.5°	845.3	827.2	823.0	793.7	775.6	767.2	750.5	732.3	717.0	703.1	687.7
20°	947.1	934.6	923.4	895.5	876.0	862.1	839.7	821.6	809.0	789.6	770.0
22.5°	1049.0	1036.4	1028.1	998.8	980.7	961.1	941.6	922.0	903.9	880.2	857.9
25°	1153.6	1145.2	1141.0	1114.6	1097.8	1079.7	1060.1	1037.8	1015.5	989.0	965.3
27.5°	1262.4	1265.2	1256.8	1251.2	1233.1	1220.6	1189.9	1174.6	1157.8	1125.7	1096.4
30°	1400.5	1408.9	1406.1	1410.3	1399.1	1390.7	1367.0	1347.5	1328.0	1297.3	1263.8
32.5°	1574.9	1586.1	1591.6	1607.0	1601.4	1598.6	1591.6	1563.7	1549.7	1496.8	1482.8
35°	1844.1	1838.5	1862.2	1874.7	1869.2	1866.4	1858.1	1842.7	1826.0	1788.3	1753.4
37.5°	2194.2	2199.8	2208.2	2183.1	2166.3	2165.0	2139.8	2124.5	2100.7	2058.9	2017.1
40°	2835.8	2801.0	2762.0	2655.9	2609.9	2583.4	2509.5	2488.5	2448.0	2390.9	2347.7
42.5°	3670.0	3635.1	3518.0	3340.9	3246.0	3114.9	3054.9	2980.9	2923.8	2830.3	2780.1
45°	4498.6	4398.2	4384.2	4177.8	4060.6	3887.7	3780.2	3656.1	3526.4	3403.6	3314.4
47.5°	5197.5	5175.1	5106.8	4981.2	4872.5	4727.4	4589.3	4398.2	4264.3	4089.9	3929.5
50°	5756.8	5755.5	5730.3	5657.8	5567.2	5450.0	5328.6	5166.8	5014.8	4801.3	4629.8
52.5°	6175.4	6197.6	6206.0	6183.7	6148.8	6045.6	5984.3	5848.9	5720.6	5539.2	5353.7
55°	6482.2	6564.5	6606.3	6653.8	6644.0	6607.8	6605.0	6517.1	6458.5	6314.8	6183.7
57.5°	6861.7	6996.9	7126.6	7356.9	7365.2	7446.1	7488.0	7529.8	7540.9	7483.7	7440.5
60°	7344.2	7620.5	7865.9	8347.3	8472.8	8670.8	8799.2	8938.7	9057.2	9067.0	9064.2
62.5°	7684.6	8110.1	8506.2	9220.4	9464.5	9693.3	9864.9	10000.2	10082.5	10166.2	10205.2
63°	7694.4	8160.3	8581.6	9318.1	9574.7	9792.4	9955.6	10081.1	10167.6	10217.8	10242.9
65°	7458.7	8023.6	8525.7	9259.5	9500.8	9719.9	9804.9	9887.2	9929.1	9948.6	9874.6
67.5°	6321.8	6874.2	7460.0	8280.2	8486.7	8748.9	8818.7	8860.6	8880.1	8875.9	8813.1
70°	4727.4	5190.5	5841.9	6779.3	7052.8	7309.4	7468.4	7536.8	7559.0	7552.1	7458.7
72.5°	3300.4	3572.4	4109.4	5152.8	5525.3	5854.5	6051.2	6153.0	6173.9	6132.1	6045.6
75°	2771.7	2785.7	2907.0	3477.5	3826.2	4177.8	4399.5	4463.7	4421.9	4294.9	4074.6
77.5°	2474.6	2505.3	2505.3	2590.4	2658.7	2756.4	2777.3	2621.0	2439.7	2205.4	2015.7
80°	2075.7	2183.1	2258.4	2321.2	2328.1	2308.6	2256.9	2169.1	2029.6	1851.0	1653.0
82.5°	1261.0	1473.1	1559.6	1883.1	2042.1	2149.5	2141.2	2024.0	1918.0	1732.5	1563.7
85°	318.1	343.2	372.5	484.0	542.6	662.6	737.9	772.8	785.3	721.2	652.8
87.5°	30.7	20.9	34.9	26.5	37.7	27.9	37.7	34.9	43.2	46.0	50.2
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°	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4
2.5°	325.0	323.6	322.2	320.9	319.4	318.1	315.3	315.3	312.5	311.0	309.7
5°	361.3	358.5	357.1	354.3	350.1	347.3	343.2	337.6	333.4	332.0	329.2
7.5°	407.4	400.3	397.5	393.4	387.8	379.4	373.8	369.7	362.7	358.5	350.1
10°	458.9	451.9	443.6	435.2	426.8	417.1	410.1	404.6	393.4	387.8	378.0
12.5°	524.5	512.0	502.1	491.0	479.9	468.7	460.3	443.6	433.8	421.3	412.9
15°	591.4	580.2	569.2	555.2	538.4	520.3	512.0	496.6	484.0	464.5	453.4
17.5°	672.3	651.4	634.7	617.9	602.6	585.8	569.2	545.4	527.3	510.5	488.3
20°	751.9	726.8	708.6	686.3	664.0	637.5	617.9	601.2	576.1	553.8	530.1
22.5°	836.9	811.8	782.5	760.3	729.6	708.6	682.1	654.2	629.1	599.8	570.5
25°	940.2	913.7	880.2	850.9	816.0	786.8	754.7	722.6	691.9	658.4	620.7
27.5°	1067.1	1039.2	1002.9	968.0	922.0	885.8	855.1	811.8	772.8	730.9	687.7
30°	1227.5	1196.8	1152.2	1102.0	1056.0	1015.5	972.3	915.1	871.8	821.6	765.8
32.5°	1436.8	1400.5	1340.5	1293.1	1235.9	1182.9	1122.9	1065.7	1004.4	938.8	874.6
35°	1700.4	1667.0	1597.2	1527.4	1464.7	1401.9	1326.6	1261.0	1174.6	1095.0	1012.7
37.5°	1973.9	1913.8	1849.7	1774.4	1696.2	1620.9	1528.8	1438.2	1339.1	1252.7	1149.4
40°	2286.3	2213.7	2160.7	2079.8	1969.6	1862.2	1777.2	1664.2	1540.0	1424.2	1302.9
42.5°	2714.5	2633.6	2538.8	2416.0	2336.5	2211.0	2100.7	1966.8	1803.6	1673.9	1527.4
45°	3209.7	3099.5	3007.5	2888.9	2792.6	2636.4	2508.1	2329.5	2166.3	1996.1	1817.6
47.5°	3774.7	3637.9	3504.0	3386.9	3233.5	3080.0	2916.8	2727.1	2517.8	2330.9	2118.9
50°	4423.3	4229.4	4043.9	3893.2	3682.6	3505.5	3328.2	3114.9	2883.3	2668.5	2427.1
52.5°	5144.5	4919.9	4674.4	4442.8	4198.7	3971.3	3757.9	3512.4	3254.4	2992.1	2722.9
55°	6014.9	5846.1	5557.4	5263.1	4936.6	4632.6	4357.7	4053.7	3739.8	3395.2	3112.1
57.5°	7377.8	7295.4	7054.1	6759.8	6334.3	5964.7	5498.8	5126.3	4671.6	4197.3	3831.8
60°	9224.7	9122.8	8987.5	8748.9	8411.4	7909.2	7395.9	6817.0	6125.1	5468.1	4844.6
62.5°	10209.5	10173.1	10063.0	9898.3	9583.1	9187.0	8669.5	8033.3	7252.2	6454.3	5659.2
63°	10238.7	10192.7	10097.8	9930.4	9652.9	9269.3	8761.5	8143.5	7379.1	6565.9	5754.0
65°	9842.6	9824.5	9728.2	9545.4	9355.8	9062.8	8669.5	8137.9	7496.3	6727.7	5920.0
67.5°	8729.5	8675.0	8527.2	8471.3	8338.9	8135.1	7835.3	7469.8	7010.9	6406.9	5709.4
70°	7383.3	7302.4	7116.9	7017.9	6856.1	6727.7	6545.0	6284.1	6000.9	5579.7	5059.4
72.5°	5956.3	5788.9	5618.7	5360.7	5134.7	4905.9	4703.6	4519.6	4208.4	4038.3	3643.5
75°	3868.1	3564.0	3272.5	2881.9	2530.4	2219.3	1916.6	1763.2	1443.8	1314.0	1128.5
77.5°	1835.7	1665.5	1436.8	1259.6	1033.6	843.9	689.1	517.5	405.9	318.1	242.7
80°	1481.4	1337.7	1199.6	1039.2	869.0	693.2	531.5	397.5	281.7	195.3	138.1
82.5°	1321.0	1164.7	994.6	884.3	768.6	629.1	516.1	421.3	311.0	227.4	154.8
85°	513.3	432.4	333.4	272.0	212.0	174.3	157.6	108.8	85.1	66.9	51.6
87.5°	44.6	36.3	29.3	19.6	20.9	11.2	12.5	8.4	6.9	6.9	5.6
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°	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4	294.4
2.5°	308.3	306.9	305.5	302.7	302.7	299.9	298.5	297.2	290.1	274.8	262.3
5°	323.6	320.9	318.1	313.8	311.0	306.9	304.1	299.9	284.5	255.3	230.2
7.5°	345.9	340.4	336.2	327.8	323.6	318.1	313.8	306.9	281.7	237.1	202.3
10°	372.5	362.7	355.7	345.9	337.6	330.6	323.6	313.8	278.9	217.6	177.1
12.5°	404.6	393.4	379.4	368.2	357.1	347.3	337.6	325.0	274.8	200.8	157.6
15°	436.6	419.9	410.1	394.7	379.4	365.4	351.5	340.4	276.2	182.7	140.9
17.5°	472.8	456.2	435.2	418.5	401.8	383.6	366.9	344.5	269.2	168.8	128.3
20°	507.7	484.0	464.5	443.6	419.9	397.5	376.6	357.1	263.6	154.8	117.2
22.5°	545.4	517.5	492.4	465.9	436.6	411.5	386.4	361.3	253.9	142.3	107.4
25°	591.4	559.3	523.1	491.0	460.3	429.6	397.5	366.9	244.1	131.1	100.5
27.5°	647.3	605.4	569.2	528.7	485.5	446.4	411.5	378.0	234.4	122.7	93.4
30°	718.4	669.5	617.9	566.4	520.3	475.6	426.8	385.0	224.6	114.4	86.5
32.5°	813.3	751.9	689.1	629.1	567.7	510.5	458.9	404.6	219.0	107.4	79.5
35°	938.8	859.3	782.5	707.2	633.3	563.6	496.6	435.2	219.0	99.0	71.2
37.5°	1057.3	965.3	867.7	774.1	686.3	605.4	525.9	451.9	207.9	92.1	64.2
40°	1185.7	1075.4	961.1	850.9	744.9	644.5	553.8	468.7	198.0	83.7	57.2
42.5°	1382.3	1242.9	1093.7	965.3	838.4	714.2	601.2	500.8	185.5	75.3	50.2
45°	1640.4	1463.2	1287.6	1131.3	969.5	817.4	683.5	559.3	182.7	68.4	43.2
47.5°	1916.6	1707.4	1500.9	1301.4	1111.8	934.6	774.1	624.9	182.7	61.4	37.7
50°	2191.4	1929.2	1708.8	1477.2	1263.8	1054.5	863.4	693.2	184.2	55.8	30.7
52.5°	2439.7	2159.4	1912.4	1644.6	1408.9	1166.2	958.3	760.3	181.4	48.8	25.1
55°	2784.3	2455.1	2169.1	1873.4	1597.2	1323.8	1088.1	860.6	182.7	43.2	20.9
57.5°	3419.0	3032.5	2688.0	2300.2	1982.2	1629.3	1343.3	1067.1	199.5	36.3	15.3
60°	4329.8	3827.7	3343.7	2870.7	2466.3	2046.4	1675.3	1350.3	234.4	29.3	11.2
62.5°	4942.2	4285.2	3707.7	3186.0	2715.9	2276.5	1872.0	1502.3	258.0	23.7	6.9
63°	5004.9	4325.7	3745.3	3206.9	2727.1	2287.7	1880.3	1513.5	259.5	22.3	6.9
65°	5123.5	4395.4	3766.3	3211.1	2715.9	2272.4	1874.7	1512.1	262.3	18.1	5.6
67.5°	4988.3	4288.0	3645.0	3091.1	2618.2	2181.6	1805.0	1456.3	260.8	12.5	4.2
70°	4461.0	3880.7	3315.7	2799.6	2369.9	1975.2	1643.2	1328.0	239.9	8.4	2.8
72.5°	3275.3	2880.5	2442.5	2070.1	1785.5	1482.8	1265.2	997.3	185.5	5.6	1.4
75°	970.8	884.3	743.5	655.6	578.9	478.4	425.5	332.0	94.9	2.8	0.0
77.5°	193.9	175.8	157.6	143.7	135.3	115.8	110.2	90.6	39.1	1.4	0.0
80°	101.8	83.7	71.2	62.8	54.4	44.6	37.7	30.7	6.9	0.0	0.0
82.5°	97.7	65.6	47.4	39.1	33.5	26.5	20.9	15.3	4.2	0.0	0.0
85°	36.3	27.9	20.9	16.8	14.0	12.5	9.7	8.4	0.0	0.0	0.0
87.5°	5.6	4.2	4.2	2.8	2.8	1.4	1.4	1.4	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: P165054

CATALOG NUMBER: VST-F05-LED-E-U-SL2-HSS-7060

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	294.4	294.4	294.4	294.4	294.4	294.4	294.4
2.5°	249.7	238.5	232.9	226.0	226.0	224.6	227.4
5°	207.9	192.5	181.4	173.0	174.3	170.2	171.6
7.5°	175.8	160.4	150.6	145.1	143.7	142.3	142.3
10°	152.1	138.1	129.7	125.5	124.2	124.2	124.2
12.5°	135.3	121.4	114.4	111.6	111.6	110.2	110.2
15°	121.4	110.2	103.3	100.5	100.5	99.0	100.5
17.5°	110.2	99.0	93.4	90.6	90.6	89.3	89.3
20°	100.5	90.6	85.1	80.9	80.9	79.5	80.9
22.5°	92.1	82.3	75.3	72.5	71.2	69.7	71.2
25°	83.7	73.9	66.9	62.8	61.4	61.4	60.0
27.5°	76.7	66.9	58.6	54.4	53.0	53.0	51.6
30°	69.7	58.6	50.2	46.0	44.6	44.6	44.6
32.5°	62.8	50.2	43.2	39.1	37.7	37.7	37.7
35°	55.8	43.2	36.3	32.1	30.7	30.7	30.7
37.5°	47.4	36.3	27.9	25.1	23.7	22.3	22.3
40°	40.5	27.9	20.9	18.1	15.3	15.3	15.3
42.5°	33.5	22.3	15.3	11.2	9.7	8.4	9.7
45°	27.9	16.8	9.7	5.6	4.2	4.2	4.2
47.5°	22.3	11.2	4.2	1.4	1.4	1.4	1.4
50°	16.8	6.9	1.4	0.0	0.0	1.4	1.4
52.5°	12.5	4.2	0.0	0.0	0.0	0.0	0.0
55°	6.9	1.4	0.0	0.0	0.0	0.0	0.0
57.5°	4.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.4	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)