

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: P165060

Luminaire Tested: **VST-F06-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165060
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-F06-LED-E-U-SL2-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7573.5 lumens
Efficiency: N/A
Efficacy: 48.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 156.5
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

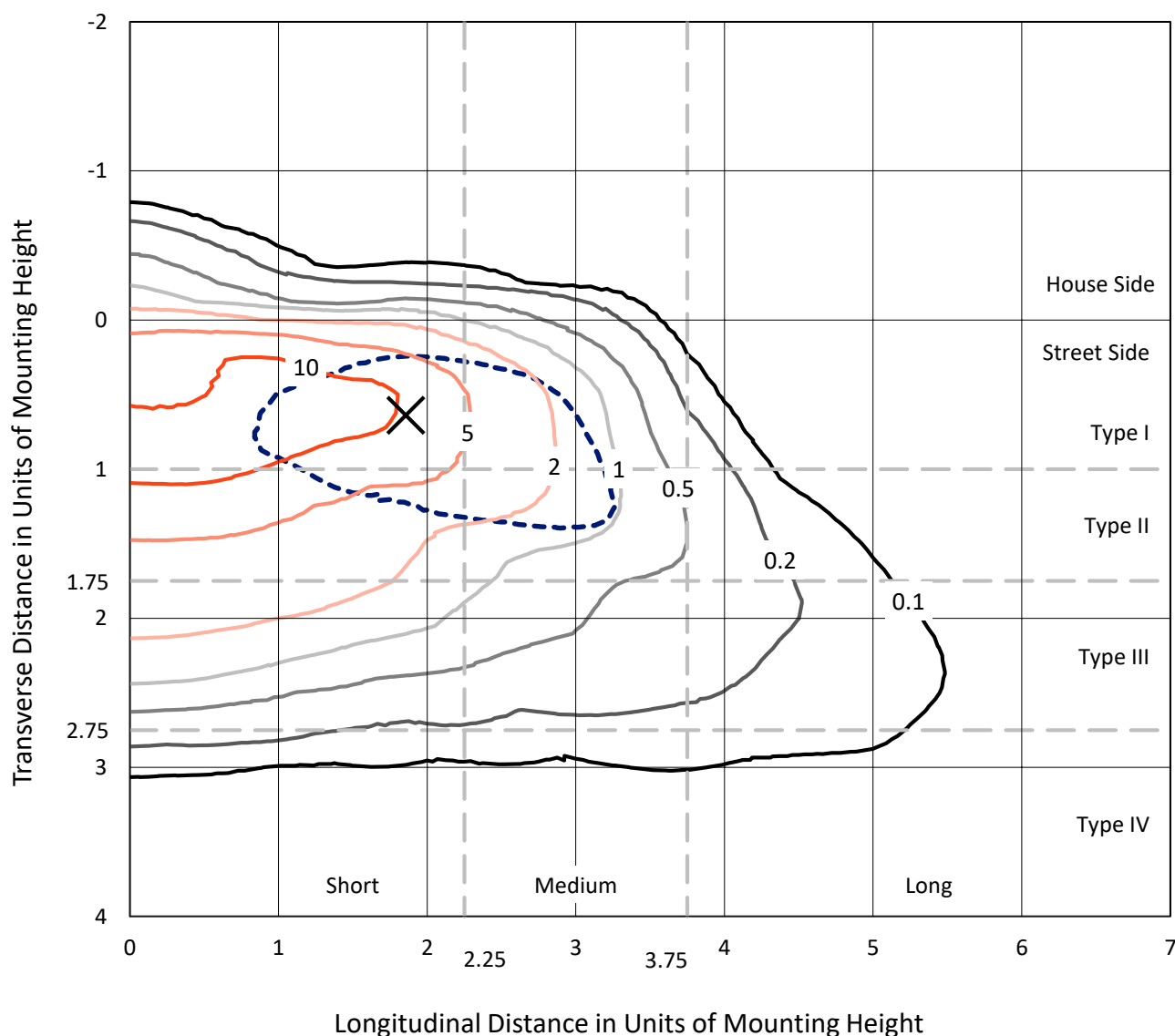


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

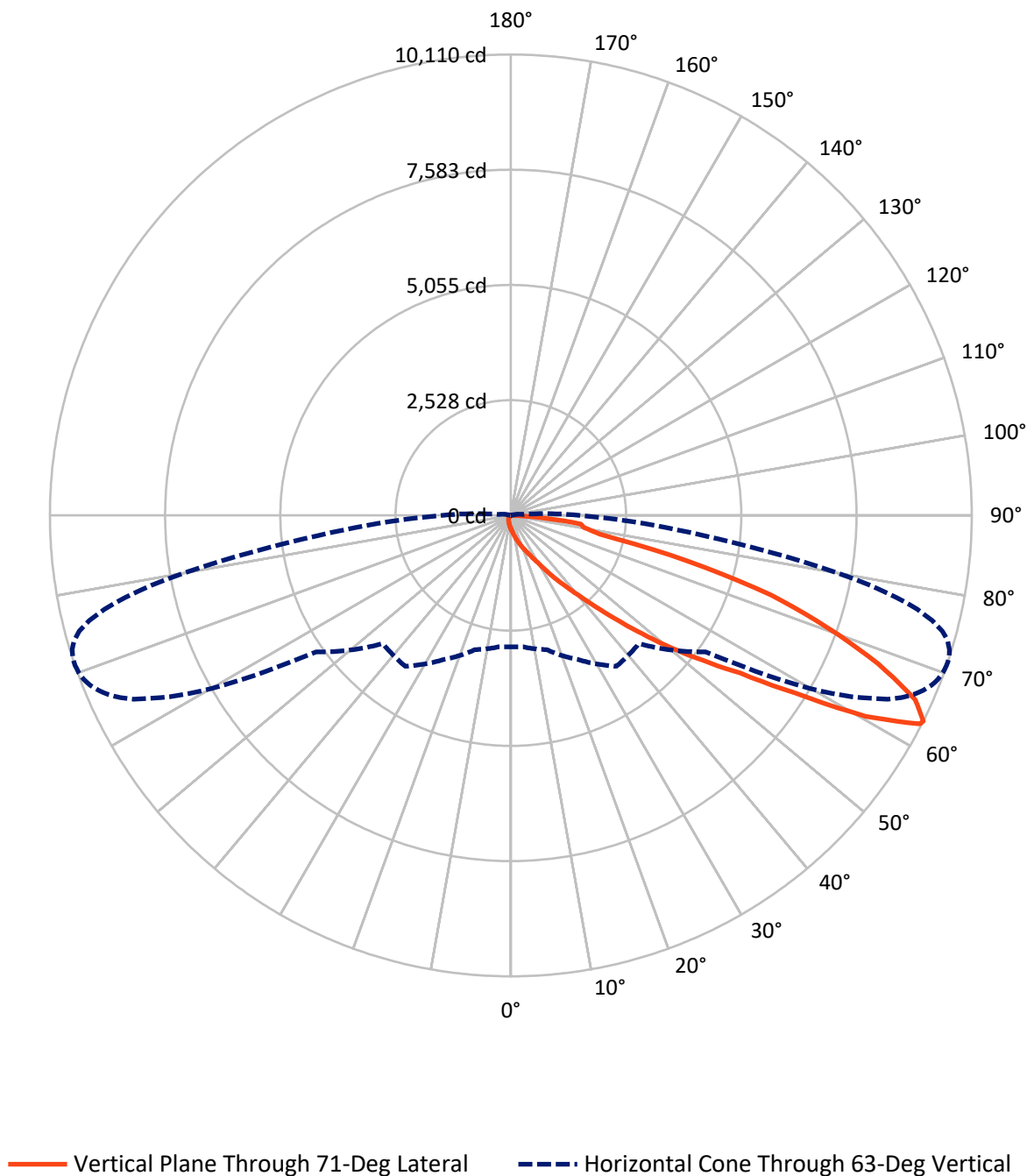


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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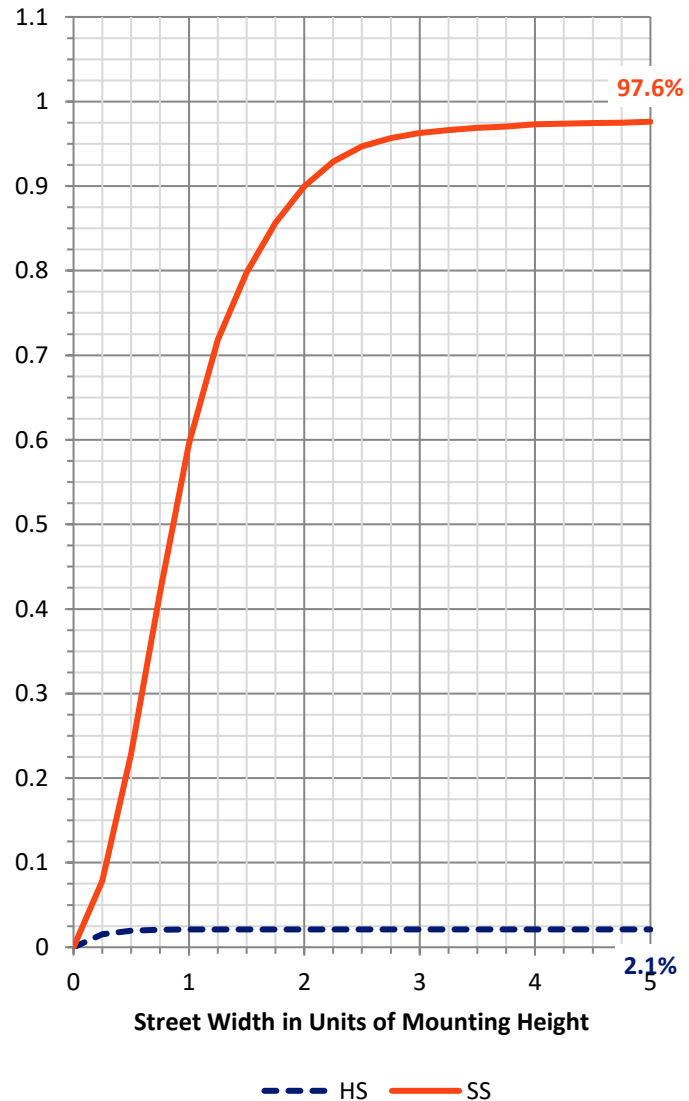
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	160.8	0.0	160.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7412.7	0.0	7412.7
	% Fixture	97.9	0.0	97.9
Total	Lumens	7573.5	0.0	7573.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	0.4
10°-20°	124.5	1.6
20°-30°	252.9	3.3
30°-40°	618.0	8.2
40°-50°	1382.0	18.2
50°-60°	1943.3	25.7
60°-70°	2285.2	30.2
70°-80°	825.1	10.9
80°-90°	110.3	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°	7573.5	100.0
0°-180°	7573.5	100.0

Coefficient of Utilization



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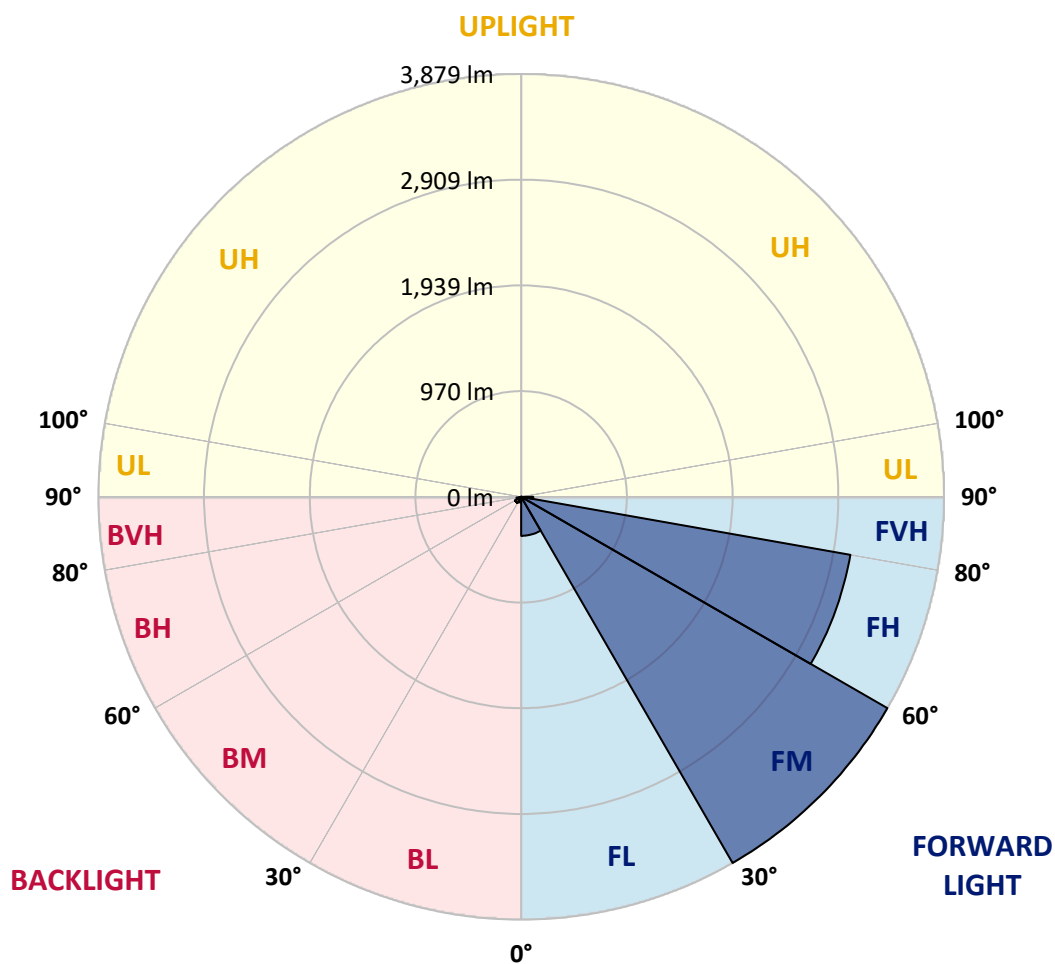
CATALOG NUMBER: VST-F06-LED-E-U-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.9	4.7			
FM	(30°-60°)	3878.5	51.2			
FH	(60°-80°)	3066.2	40.5			G2/5000
FVH	(80°-90°)	110.1	1.5			G2/225
BL	(0°-30°)	51.7	0.7	B0/110		
BM	(30°-60°)	64.8	0.9	B0/220		
BH	(60°-80°)	44.1	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°	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5
2.5°	380.0	384.1	381.3	374.5	366.2	355.3	345.6	345.6	344.2	340.0	341.5
5°	498.4	499.8	494.3	477.7	462.6	439.2	413.0	410.3	407.5	403.4	402.1
7.5°	614.1	619.5	614.1	596.1	565.9	530.1	488.8	484.7	476.4	476.4	470.9
10°	732.5	732.5	727.0	706.3	678.7	627.8	575.5	568.6	559.0	556.2	548.0
12.5°	816.4	816.4	813.7	802.7	780.7	735.3	671.9	665.0	652.6	648.5	638.9
15°	849.5	849.5	850.9	860.5	861.9	841.3	775.1	769.6	757.2	746.2	742.1
17.5°	870.1	868.8	868.8	882.6	907.3	921.1	878.4	872.9	859.2	853.6	839.8
20°	915.6	912.8	904.6	904.6	928.0	976.1	976.1	974.8	959.7	955.5	948.6
22.5°	983.1	980.3	955.5	934.8	945.9	1006.5	1062.9	1060.2	1054.6	1049.1	1045.0
25°	1093.2	1083.6	1040.8	980.3	970.7	1035.4	1129.0	1135.9	1140.0	1140.0	1142.8
27.5°	1259.8	1247.4	1171.7	1058.8	1016.1	1082.1	1202.0	1215.7	1228.1	1230.9	1243.3
30°	1491.1	1469.1	1360.3	1195.1	1097.4	1151.0	1309.4	1324.5	1342.4	1347.9	1367.2
32.5°	1871.1	1858.7	1754.1	1506.2	1296.9	1286.0	1459.5	1478.7	1502.1	1511.7	1535.1
35°	2449.4	2452.1	2366.8	2143.7	1854.6	1703.1	1727.9	1744.4	1752.7	1781.6	1794.0
37.5°	2841.8	2848.6	2867.9	2779.8	2573.3	2419.0	2224.9	2242.9	2200.2	2204.2	2205.7
40°	3056.6	3078.5	3191.5	3276.9	3260.3	3170.8	3015.2	3024.9	2945.0	2927.1	2840.3
42.5°	3199.7	3228.6	3409.0	3673.3	3808.3	3889.5	3853.8	3849.6	3787.6	3764.2	3691.2
45°	3289.2	3315.4	3542.6	3932.2	4243.4	4480.1	4577.9	4588.9	4536.6	4513.2	4452.6
47.5°	3285.1	3315.4	3559.0	4028.6	4487.1	4865.7	5141.1	5154.8	5186.5	5165.8	5169.9
50°	3103.4	3132.3	3377.4	3864.7	4415.4	5041.9	5545.8	5589.9	5640.8	5675.2	5691.8
52.5°	2883.1	2903.7	3121.3	3583.9	4109.8	4968.9	5785.4	5861.1	5936.9	6001.6	6047.0
55°	2801.8	2825.2	2995.9	3380.1	3864.7	4663.3	5896.9	6008.4	6115.9	6221.9	6308.6
57.5°	2844.5	2866.5	2989.1	3283.7	3718.8	4341.1	5928.6	6102.1	6278.3	6450.4	6621.1
60°	3001.5	3024.9	3129.5	3373.2	3680.3	4155.2	5804.7	6092.5	6385.7	6685.8	6968.1
62.5°	2939.5	2949.1	3103.4	3530.2	3955.6	3996.9	5354.4	5756.5	6204.0	6666.6	7122.3
63°	2880.3	2891.3	3048.3	3487.5	4039.6	3973.5	5215.4	5639.5	6111.7	6610.1	7105.8
65°	2611.8	2613.2	2733.0	3080.0	3946.0	4014.8	4595.9	5000.6	5543.1	6140.6	6767.1
67.5°	1949.6	1940.0	2055.6	2320.0	3097.9	4016.2	3944.6	4171.8	4549.0	5079.1	5640.8
70°	691.2	676.1	863.3	1229.5	1930.3	3285.1	3389.7	3404.9	3509.5	3795.9	4148.4
72.5°	224.4	228.6	275.3	450.2	889.4	2211.2	3068.9	3022.1	2994.6	2993.2	3040.0
75°	89.5	90.9	110.1	199.7	399.3	1065.7	2687.6	2713.7	2723.4	2737.1	2752.3
77.5°	42.6	46.8	62.0	111.5	198.2	527.3	1923.4	2145.1	2271.7	2369.5	2428.7
80°	15.1	17.9	34.4	68.8	92.2	242.3	1013.3	1222.6	1408.5	1648.1	1854.6
82.5°	0.0	0.0	6.9	48.2	50.9	97.7	415.8	487.4	557.6	722.8	928.0
85°	0.0	0.0	0.0	13.8	15.1	16.6	140.5	169.4	190.0	221.6	256.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.1	8.3	20.7	31.7
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5
2.5°	338.7	337.4	337.4	334.6	333.2	330.4	329.1	324.9	323.6	323.6	323.6
5°	400.7	395.1	392.4	385.5	381.3	380.0	373.1	370.4	366.2	367.6	360.7
7.5°	469.5	459.8	455.7	446.1	443.4	433.7	430.9	424.1	420.0	411.7	408.9
10°	545.2	532.8	526.0	510.8	506.7	499.8	491.5	483.3	476.4	468.1	464.0
12.5°	632.0	621.0	615.4	594.8	585.2	575.5	564.5	553.5	542.5	535.6	526.0
15°	733.8	715.9	710.4	691.2	674.6	662.3	647.1	633.3	625.1	611.3	601.6
17.5°	834.3	816.4	812.3	783.4	765.5	757.2	740.8	722.8	707.7	693.9	678.7
20°	934.8	922.4	911.4	883.9	864.7	850.9	828.8	810.9	798.5	779.3	760.0
22.5°	1035.4	1022.9	1014.8	985.8	967.9	948.6	929.4	910.1	892.2	868.8	846.8
25°	1138.7	1130.4	1126.2	1100.1	1083.6	1065.7	1046.4	1024.4	1002.3	976.1	952.8
27.5°	1246.0	1248.8	1240.5	1235.0	1217.1	1204.7	1174.4	1159.3	1142.8	1111.1	1082.1
30°	1382.3	1390.6	1387.8	1392.0	1381.0	1372.7	1349.3	1330.0	1310.7	1280.5	1247.4
32.5°	1554.4	1565.5	1570.9	1586.1	1580.6	1577.9	1570.9	1543.4	1529.6	1477.4	1463.6
35°	1820.2	1814.6	1838.0	1850.4	1844.9	1842.2	1833.9	1818.8	1802.3	1765.1	1730.7
37.5°	2165.7	2171.2	2179.5	2154.8	2138.2	2136.9	2112.0	2096.9	2073.5	2032.2	1990.9
40°	2799.0	2764.7	2726.1	2621.5	2576.1	2549.9	2476.9	2456.2	2416.3	2359.8	2317.2
42.5°	3622.4	3588.0	3472.3	3297.5	3203.9	3074.4	3015.2	2942.3	2885.8	2793.6	2744.0
45°	4440.3	4341.1	4327.3	4123.6	4007.9	3837.2	3731.2	3608.6	3480.6	3359.5	3271.3
47.5°	5130.0	5108.0	5040.6	4916.6	4809.2	4666.0	4529.7	4341.1	4208.9	4036.9	3878.5
50°	5682.1	5680.8	5655.9	5584.4	5494.9	5379.3	5259.5	5099.8	4949.7	4739.0	4569.7
52.5°	6095.2	6117.2	6125.5	6103.4	6069.0	5967.1	5906.6	5773.0	5646.3	5467.3	5284.2
55°	6398.0	6479.3	6520.6	6567.4	6557.8	6522.0	6519.3	6432.5	6374.7	6232.8	6103.4
57.5°	6772.6	6906.1	7034.1	7261.4	7269.6	7349.5	7390.8	7432.1	7443.1	7386.6	7344.0
60°	7248.9	7521.6	7763.9	8238.9	8362.8	8558.3	8685.0	8822.7	8939.6	8949.3	8946.6
62.5°	7584.9	8004.8	8395.9	9100.8	9341.7	9567.5	9736.9	9870.5	9951.6	10034.2	10072.8
63°	7594.6	8054.4	8470.2	9197.2	9450.5	9665.3	9826.4	9950.3	10035.7	10085.2	10110.0
65°	7361.9	7919.5	8415.1	9139.3	9377.5	9593.7	9677.7	9758.9	9800.2	9819.5	9746.5
67.5°	6239.8	6785.0	7363.2	8172.8	8376.5	8635.4	8704.3	8745.6	8764.8	8760.7	8698.8
70°	4666.0	5123.2	5766.1	6691.3	6961.2	7214.6	7371.5	7439.0	7461.0	7454.1	7361.9
72.5°	3257.5	3526.0	4056.1	5086.0	5453.6	5778.5	5972.6	6073.1	6093.8	6052.5	5967.1
75°	2735.7	2749.5	2869.3	3432.4	3776.6	4123.6	4342.4	4405.8	4364.5	4239.2	4021.7
77.5°	2442.4	2472.8	2472.8	2556.7	2624.2	2720.6	2741.3	2587.0	2408.1	2176.7	1989.5
80°	2048.7	2154.8	2229.1	2291.0	2297.9	2278.7	2227.7	2141.0	2003.3	1827.0	1631.5
82.5°	1244.7	1453.9	1539.3	1858.7	2015.6	2121.6	2113.4	1997.7	1893.1	1710.0	1543.4
85°	313.9	338.7	367.6	477.7	535.6	654.0	728.3	762.8	775.1	711.8	644.4
87.5°	30.3	20.7	34.4	26.2	37.2	27.5	37.2	34.4	42.6	45.4	49.6
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5
2.5°	320.8	319.4	318.0	316.7	315.3	313.9	311.2	311.2	308.4	307.0	305.7
5°	356.6	353.8	352.5	349.7	345.6	342.8	338.7	333.2	329.1	327.7	324.9
7.5°	402.1	395.1	392.4	388.3	382.8	374.5	369.0	364.9	358.0	353.8	345.6
10°	453.0	446.1	437.9	429.6	421.3	411.7	404.7	399.3	388.3	382.8	373.1
12.5°	517.7	505.3	495.6	484.7	473.6	462.6	454.3	437.9	428.2	415.8	407.5
15°	583.8	572.7	561.8	548.0	531.4	513.5	505.3	490.1	477.7	458.5	447.5
17.5°	663.6	642.9	626.5	609.9	594.8	578.2	561.8	538.4	520.5	503.9	481.9
20°	742.1	717.4	699.4	677.4	655.4	629.2	609.9	593.4	568.6	546.6	523.2
22.5°	826.0	801.3	772.4	750.4	720.1	699.4	673.3	645.7	621.0	592.0	563.1
25°	928.0	901.8	868.8	839.8	805.4	776.6	744.9	713.2	682.9	649.9	612.7
27.5°	1053.3	1025.7	989.9	955.5	910.1	874.3	844.0	801.3	762.8	721.5	678.7
30°	1211.6	1181.3	1137.2	1087.7	1042.3	1002.3	959.7	903.2	860.5	810.9	755.9
32.5°	1418.2	1382.3	1323.1	1276.3	1219.8	1167.5	1108.3	1051.9	991.3	926.6	863.3
35°	1678.4	1645.3	1576.4	1507.6	1445.7	1383.7	1309.4	1244.7	1159.3	1080.8	999.5
37.5°	1948.2	1889.0	1825.7	1751.3	1674.2	1599.8	1509.0	1419.5	1321.8	1236.4	1134.5
40°	2256.6	2185.0	2132.7	2052.8	1944.1	1838.0	1754.1	1642.6	1520.0	1405.7	1286.0
42.5°	2679.3	2599.5	2505.8	2384.7	2306.2	2182.3	2073.5	1941.3	1780.2	1652.2	1507.6
45°	3168.1	3059.3	2968.4	2851.4	2756.4	2602.2	2475.6	2299.3	2138.2	1970.2	1794.0
47.5°	3725.7	3590.7	3458.5	3342.9	3191.5	3040.0	2879.0	2691.7	2485.2	2300.6	2091.4
50°	4365.9	4174.5	3991.4	3842.7	3634.8	3460.0	3285.1	3074.4	2845.9	2633.8	2395.6
52.5°	5077.7	4856.1	4613.8	4385.2	4144.2	3919.8	3709.1	3466.8	3212.1	2953.3	2687.6
55°	5936.9	5770.2	5485.3	5194.7	4872.5	4572.5	4301.1	4001.1	3691.2	3351.2	3071.7
57.5°	7282.0	7200.8	6962.6	6672.1	6252.1	5887.3	5427.4	5059.8	4611.0	4142.9	3782.1
60°	9104.9	9004.4	8870.8	8635.4	8302.2	7806.6	7299.9	6728.5	6045.6	5397.2	4781.7
62.5°	10077.0	10041.1	9932.4	9769.9	9458.8	9067.7	8557.0	7929.1	7158.1	6370.5	5585.8
63°	10105.8	10060.4	9966.8	9801.6	9527.6	9149.0	8647.8	8037.8	7283.4	6480.7	5679.3
65°	9714.9	9697.0	9601.9	9421.6	9234.4	8945.2	8557.0	8032.3	7399.0	6640.4	5843.2
67.5°	8616.2	8562.4	8416.5	8361.4	8230.6	8029.6	7733.6	7372.8	6919.9	6323.7	5635.3
70°	7287.5	7207.6	7024.5	6926.8	6767.1	6640.4	6460.1	6202.6	5923.1	5507.3	4993.8
72.5°	5879.0	5713.8	5545.8	5291.1	5068.1	4842.3	4642.6	4460.9	4153.8	3985.9	3596.2
75°	3817.9	3517.7	3230.0	2844.5	2497.5	2190.5	1891.7	1740.3	1425.0	1296.9	1113.8
77.5°	1811.9	1643.9	1418.2	1243.3	1020.2	833.0	680.2	510.8	400.7	313.9	239.5
80°	1462.1	1320.3	1184.1	1025.7	857.7	684.3	524.6	392.4	278.1	192.7	136.3
82.5°	1303.9	1149.6	981.6	872.9	758.7	621.0	509.4	415.8	307.0	224.4	152.8
85°	506.7	426.8	329.1	268.5	209.3	172.1	155.6	107.4	84.0	66.1	50.9
87.5°	44.1	35.8	28.9	19.3	20.7	11.0	12.4	8.3	6.9	6.9	5.5
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5
2.5°	304.3	302.9	301.5	298.7	298.7	296.1	294.6	293.3	286.4	271.2	258.9
5°	319.4	316.7	313.9	309.8	307.0	302.9	300.2	296.1	280.8	252.0	227.2
7.5°	341.5	335.9	331.8	323.6	319.4	313.9	309.8	302.9	278.1	234.0	199.7
10°	367.6	358.0	351.1	341.5	333.2	326.3	319.4	309.8	275.3	214.8	174.8
12.5°	399.3	388.3	374.5	363.4	352.5	342.8	333.2	320.8	271.2	198.2	155.6
15°	430.9	414.4	404.7	389.6	374.5	360.7	347.0	335.9	272.6	180.3	139.0
17.5°	466.7	450.2	429.6	413.0	396.6	378.7	362.1	340.0	265.7	166.6	126.7
20°	501.1	477.7	458.5	437.9	414.4	392.4	371.7	352.5	260.2	152.8	115.6
22.5°	538.4	510.8	486.0	459.8	430.9	406.2	381.3	356.6	250.6	140.5	106.0
25°	583.8	552.1	516.3	484.7	454.3	424.1	392.4	362.1	241.0	129.4	99.2
27.5°	638.9	597.5	561.8	521.8	479.2	440.6	406.2	373.1	231.3	121.1	92.2
30°	709.1	660.8	609.9	559.0	513.5	469.5	421.3	380.0	221.6	112.9	85.4
32.5°	802.7	742.1	680.2	621.0	560.3	503.9	453.0	399.3	216.1	106.0	78.5
35°	926.6	848.1	772.4	698.0	625.1	556.2	490.1	429.6	216.1	97.7	70.2
37.5°	1043.6	952.8	856.4	764.1	677.4	597.5	519.0	446.1	205.2	90.9	63.4
40°	1170.3	1061.5	948.6	839.8	735.3	636.1	546.6	462.6	195.5	82.6	56.4
42.5°	1364.4	1226.8	1079.5	952.8	827.5	704.9	593.4	494.3	183.1	74.3	49.6
45°	1619.2	1444.2	1270.8	1116.6	956.9	806.8	674.6	552.1	180.3	67.5	42.6
47.5°	1891.7	1685.2	1481.5	1284.6	1097.4	922.4	764.1	616.8	180.3	60.6	37.2
50°	2162.9	1904.2	1686.6	1458.0	1247.4	1040.8	852.2	684.3	181.8	55.1	30.3
52.5°	2408.1	2131.3	1887.6	1623.3	1390.6	1151.0	945.9	750.4	179.0	48.2	24.7
55°	2748.1	2423.2	2141.0	1849.1	1576.4	1306.6	1073.9	849.5	180.3	42.6	20.7
57.5°	3374.6	2993.2	2653.1	2270.4	1956.4	1608.1	1325.9	1053.3	196.9	35.8	15.1
60°	4273.6	3778.0	3300.3	2833.5	2434.3	2019.8	1653.5	1332.8	231.3	28.9	11.0
62.5°	4878.0	4229.6	3659.6	3144.7	2680.6	2247.0	1847.7	1482.8	254.7	23.4	6.9
63°	4940.0	4269.5	3696.7	3165.3	2691.7	2258.0	1855.9	1493.8	256.1	22.0	6.9
65°	5057.0	4338.3	3717.4	3169.4	2680.6	2242.9	1850.4	1492.5	258.9	17.9	5.5
67.5°	4923.5	4232.3	3597.7	3051.0	2584.2	2153.3	1781.6	1437.4	257.4	12.4	4.1
70°	4403.1	3830.3	3272.7	2763.3	2339.2	1949.6	1621.9	1310.7	236.8	8.3	2.8
72.5°	3232.8	2843.1	2410.8	2043.2	1762.3	1463.6	1248.8	984.4	183.1	5.5	1.3
75°	958.2	872.9	733.8	647.1	571.4	472.2	420.0	327.7	93.6	2.8	0.0
77.5°	191.4	173.5	155.6	141.8	133.5	114.3	108.8	89.5	38.5	1.3	0.0
80°	100.5	82.6	70.2	62.0	53.7	44.1	37.2	30.3	6.9	0.0	0.0
82.5°	96.4	64.7	46.8	38.5	33.0	26.2	20.7	15.1	4.1	0.0	0.0
85°	35.8	27.5	20.7	16.6	13.8	12.4	9.6	8.3	0.0	0.0	0.0
87.5°	5.5	4.1	4.1	2.8	2.8	1.3	1.3	1.3	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: P165060

CATALOG NUMBER: VST-F06-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	290.5	290.5	290.5	290.5	290.5	290.5	290.5
2.5°	246.5	235.4	229.9	223.1	223.1	221.6	224.4
5°	205.2	190.0	179.0	170.7	172.1	168.0	169.4
7.5°	173.5	158.4	148.7	143.2	141.8	140.5	140.5
10°	150.1	136.3	128.0	123.9	122.6	122.6	122.6
12.5°	133.5	119.8	112.9	110.1	110.1	108.8	108.8
15°	119.8	108.8	101.9	99.2	99.2	97.7	99.2
17.5°	108.8	97.7	92.2	89.5	89.5	88.1	88.1
20°	99.2	89.5	84.0	79.8	79.8	78.5	79.8
22.5°	90.9	81.3	74.3	71.6	70.2	68.8	70.2
25°	82.6	73.0	66.1	62.0	60.6	60.6	59.2
27.5°	75.7	66.1	57.9	53.7	52.3	52.3	50.9
30°	68.8	57.9	49.6	45.4	44.1	44.1	44.1
32.5°	62.0	49.6	42.6	38.5	37.2	37.2	37.2
35°	55.1	42.6	35.8	31.7	30.3	30.3	30.3
37.5°	46.8	35.8	27.5	24.7	23.4	22.0	22.0
40°	40.0	27.5	20.7	17.9	15.1	15.1	15.1
42.5°	33.0	22.0	15.1	11.0	9.6	8.3	9.6
45°	27.5	16.6	9.6	5.5	4.1	4.1	4.1
47.5°	22.0	11.0	4.1	1.3	1.3	1.3	1.3
50°	16.6	6.9	1.3	0.0	0.0	1.3	1.3
52.5°	12.4	4.1	0.0	0.0	0.0	0.0	0.0
55°	6.9	1.3	0.0	0.0	0.0	0.0	0.0
57.5°	4.1	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°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.3	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)