

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: P165300

Luminaire Tested: **VST-F08-LED-E-U-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165300
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F08-LED-E-U-SL3-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9548.6 lumens
Efficiency: N/A
Efficacy: 46.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 204.4
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

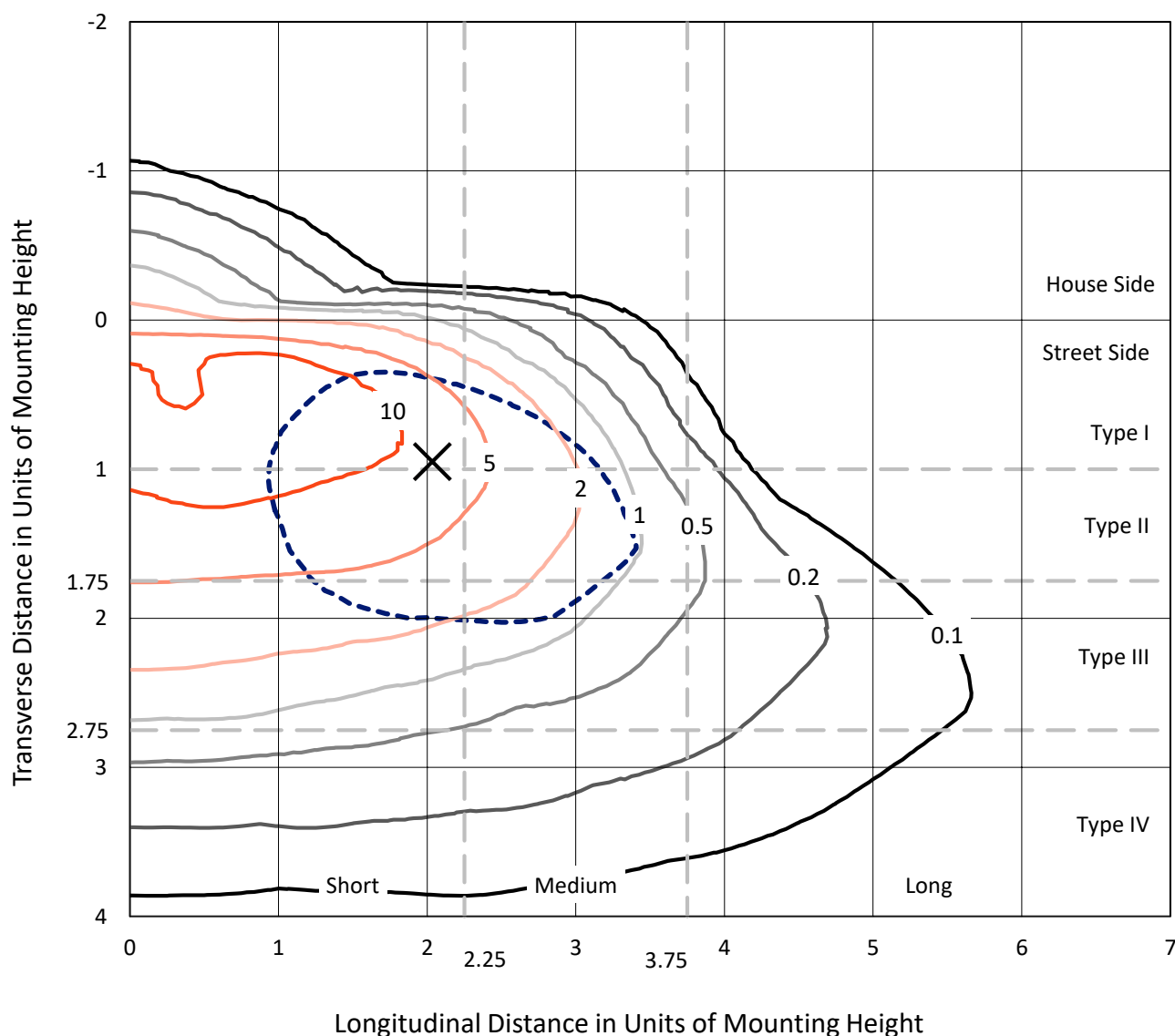


REPORT NUMBER: P165300

CATALOG NUMBER: VST-F08-LED-E-U-SL3-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

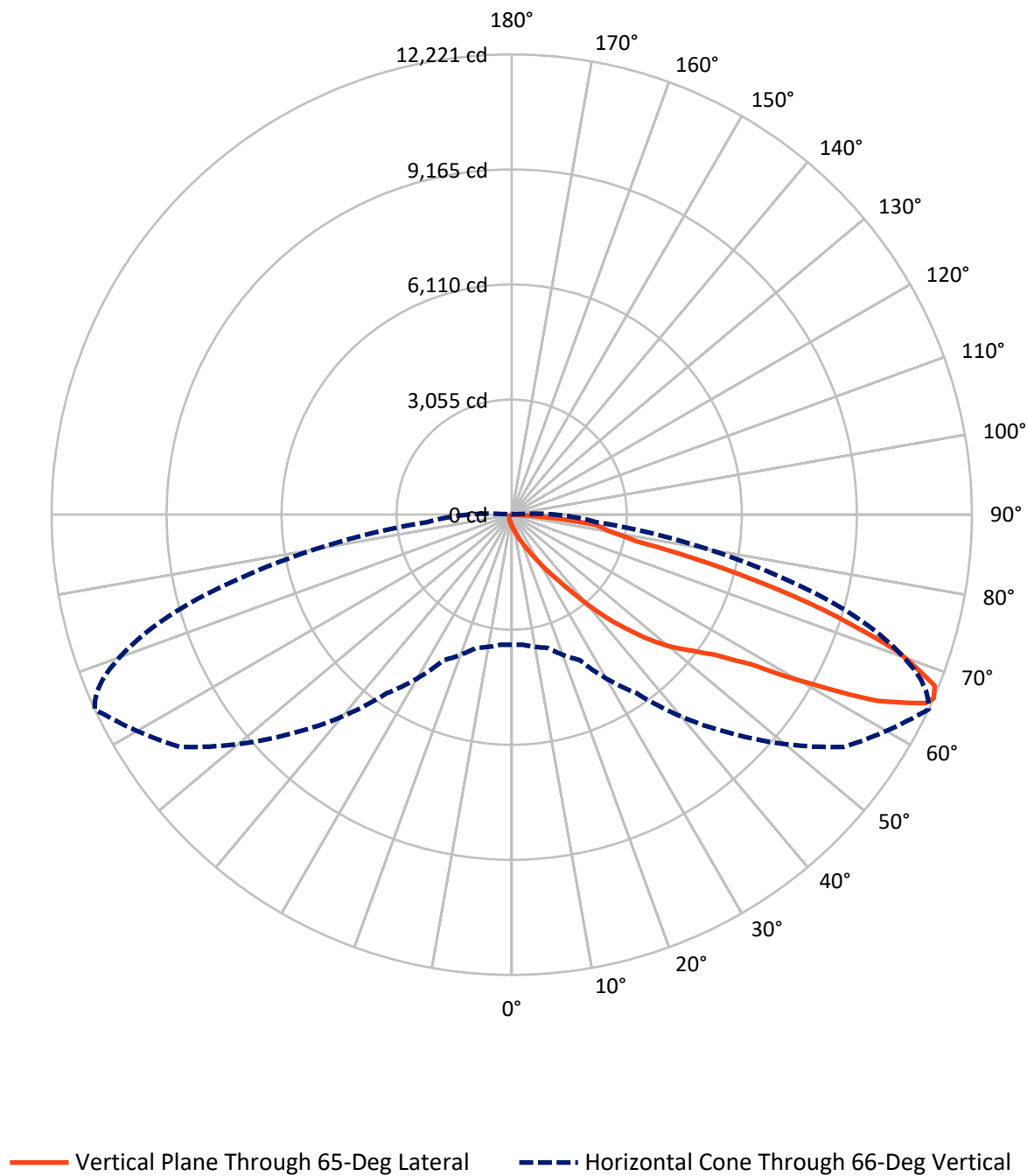


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P165300

CATALOG NUMBER: VST-F08-LED-E-U-SL3-HSS-8030

Luminous Intensity Polar Plot



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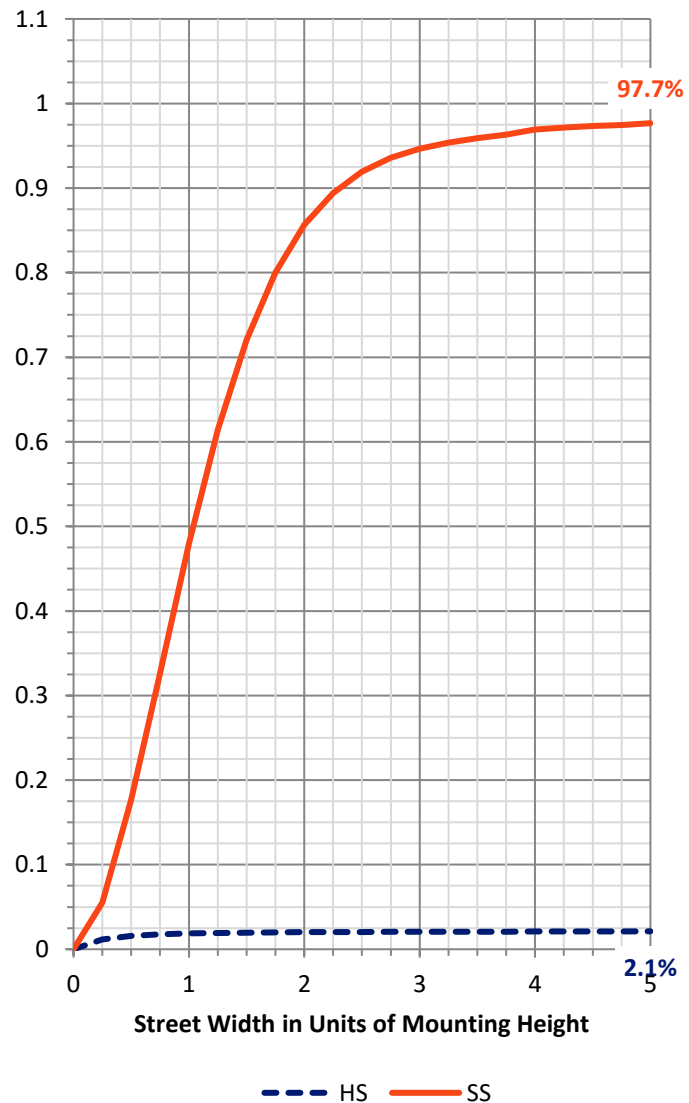
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	206.9	0.0	206.9
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	9341.7	0.0	9341.7
	% Fixture	97.8	0.0	97.8
Total	Lumens	9548.6	0.0	9548.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	0.3
10°-20°	136.8	1.4
20°-30°	295.1	3.1
30°-40°	630.1	6.6
40°-50°	1393.5	14.6
50°-60°	2361.6	24.7
60°-70°	3151.3	33.0
70°-80°	1388.1	14.5
80°-90°	159.9	1.7
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°	9548.6	100.0
0°-180°	9548.6	100.0

Coefficient of Utilization



REPORT NUMBER: P165300

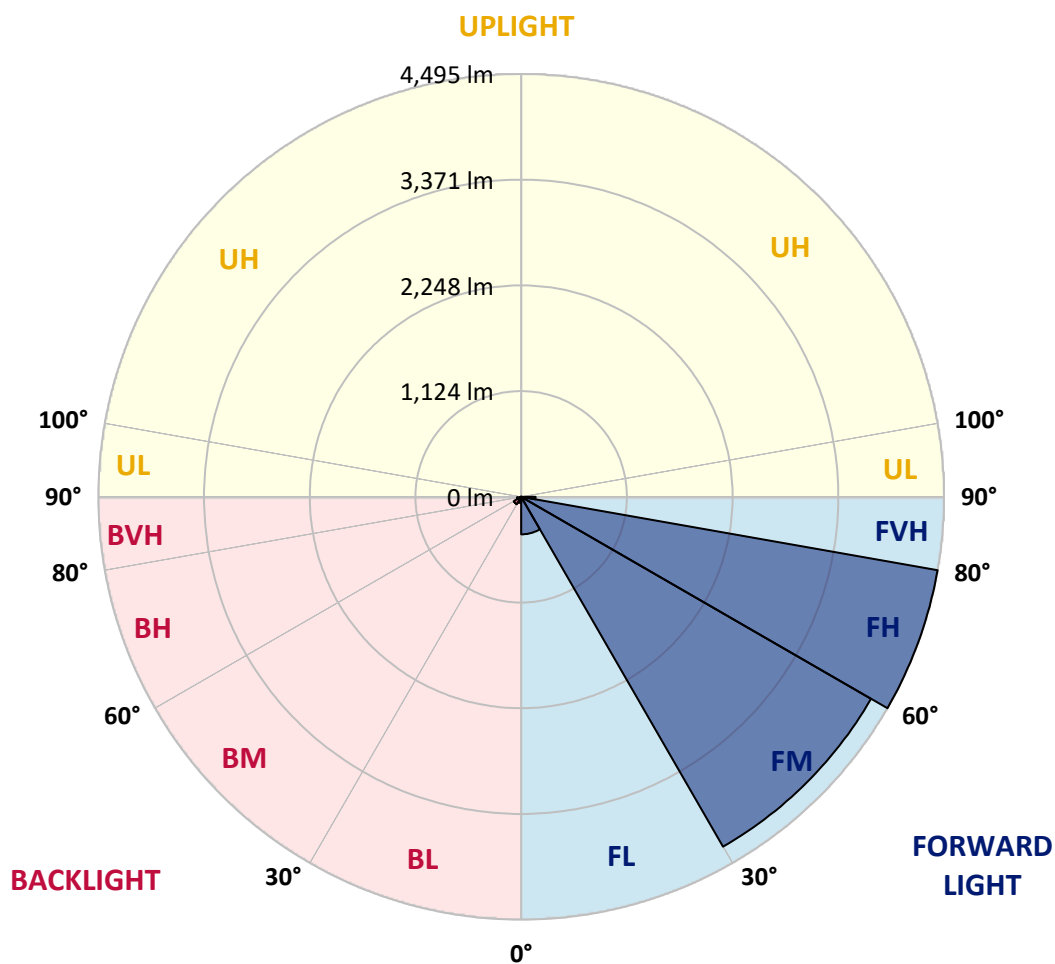
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	398.8	4.2			
FM	(30°-60°)	4294.3	45.0			
FH	(60°-80°)	4495.0	47.1			G2/5000
FVH	(80°-90°)	153.5	1.6			G2/225
BL	(0°-30°)	65.3	0.7	B0/110		
BM	(30°-60°)	90.9	1.0	B0/220		
BH	(60°-80°)	44.4	0.5	B0/110		G0/110
BVH	(80°-90°)	6.4	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 III Short



REPORT NUMBER: P165300

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2
2.5°	363.5	361.6	354.3	354.3	343.2	336.0	326.7	317.6	317.6	315.7	313.9
5°	480.9	470.0	468.1	447.9	431.4	407.6	385.5	356.2	352.5	348.8	346.9
7.5°	611.3	609.4	592.9	569.1	536.1	492.0	447.9	400.2	392.8	389.2	381.8
10°	780.2	771.0	749.0	708.6	659.1	600.3	528.7	453.4	444.2	436.9	433.2
12.5°	941.8	925.3	912.3	860.9	798.5	712.2	625.9	517.7	510.3	501.2	486.5
15°	1092.3	1077.5	1055.6	1011.5	941.8	833.4	732.5	600.3	581.9	569.1	558.1
17.5°	1209.8	1200.6	1174.9	1125.4	1050.0	954.6	833.4	684.7	670.1	653.5	633.3
20°	1321.8	1308.9	1268.5	1200.6	1119.8	1046.3	952.8	794.8	774.7	754.5	732.5
22.5°	1428.3	1415.3	1349.3	1237.3	1151.0	1119.8	1086.8	919.7	888.5	872.0	849.9
25°	1577.0	1549.4	1446.5	1268.5	1152.9	1176.8	1233.6	1081.2	1051.9	1028.0	993.2
27.5°	1777.1	1740.3	1578.7	1314.4	1160.1	1239.2	1402.5	1277.6	1246.4	1218.9	1180.4
30°	2002.8	1979.0	1786.2	1424.6	1213.4	1330.9	1591.6	1527.4	1490.7	1457.6	1411.8
32.5°	2230.4	2197.4	2006.5	1633.8	1356.6	1509.0	1828.5	1817.4	1769.7	1738.5	1688.9
35°	2430.5	2414.0	2272.7	1977.1	1683.4	1821.1	2144.2	2157.0	2114.8	2081.7	2026.7
37.5°	2566.4	2566.4	2538.9	2346.0	2202.9	2305.7	2608.6	2610.5	2568.2	2493.0	2465.4
40°	2636.1	2656.3	2755.5	2792.2	2784.8	2917.0	3218.1	3185.0	3150.1	3111.6	3019.8
42.5°	2779.4	2797.6	3008.8	3262.2	3427.4	3601.7	3809.2	3798.2	3756.0	3686.2	3601.7
45°	3021.7	3045.6	3297.1	3699.1	4038.6	4286.5	4418.6	4367.2	4325.0	4259.0	4214.9
47.5°	3330.1	3376.0	3660.5	4158.0	4567.4	4976.7	5114.4	4978.6	4941.9	4890.4	4818.8
50°	3658.7	3702.7	4005.6	4574.7	5037.3	5525.6	5755.1	5525.6	5472.4	5455.8	5375.1
52.5°	3943.2	3980.0	4271.8	4896.0	5397.1	5969.9	6304.0	6001.1	5962.5	5907.4	5848.7
55°	4112.1	4141.5	4415.0	5050.2	5641.3	6370.1	6834.6	6568.4	6511.4	6489.5	6405.0
57.5°	4169.0	4198.4	4444.4	5070.3	5773.4	6735.4	7478.9	7488.1	7420.2	7341.3	7315.5
60°	4169.0	4202.0	4409.5	5020.8	5902.0	7124.5	8338.0	9103.5	8956.7	8942.0	8848.3
62.5°	3996.5	4027.7	4236.9	4868.5	6074.5	7649.6	9534.9	10886.0	10843.9	10748.3	10594.2
65°	3621.9	3640.3	3845.9	4479.3	6008.4	8132.4	10572.1	12071.9	12004.0	11816.7	11618.5
66°	3453.0	3467.7	3660.5	4257.1	5791.8	8198.5	10755.7	12220.6	12108.7	11950.7	11726.8
67.5°	3208.9	3234.6	3370.4	3844.1	5272.3	7969.0	10640.1	12116.1	12018.7	11827.8	11603.8
70°	2142.4	2124.0	2603.1	2950.0	4016.7	6493.1	9545.9	10878.7	10880.6	10790.6	10700.6
72.5°	1017.0	1028.0	1167.5	1815.5	2628.8	4337.9	7598.2	8683.1	8808.0	8646.4	8534.4
75°	730.6	747.1	831.6	1110.7	1567.7	2603.1	4925.3	6072.6	6076.3	5789.9	5534.9
77.5°	212.9	222.2	312.0	684.7	1174.9	1756.8	2828.9	3376.0	3297.1	3091.4	2898.6
80°	88.1	88.1	91.7	218.5	471.8	1193.3	1979.0	2599.4	2590.3	2511.4	2397.6
82.5°	33.0	34.9	44.0	90.0	112.0	293.7	1319.9	2256.2	2250.6	2138.7	2057.9
85°	3.7	3.7	11.0	38.6	42.3	55.1	264.3	994.9	989.5	994.9	872.0
87.5°	0.0	0.0	1.8	3.7	5.5	7.4	11.0	38.6	42.3	40.4	36.7
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: P165300

CATALOG NUMBER: VST-F08-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2
2.5°	313.9	310.2	310.2	308.5	308.5	308.5	306.6	304.8	304.8	302.9	301.1
5°	343.2	339.6	337.8	334.1	332.3	330.4	326.7	325.0	321.3	319.4	317.6
7.5°	378.1	370.8	369.0	363.5	358.0	354.3	350.6	345.1	341.5	334.1	332.3
10°	422.3	413.0	405.7	398.3	392.8	383.7	378.1	370.8	363.5	358.0	352.5
12.5°	479.1	466.3	455.3	447.9	435.1	424.1	413.0	407.6	392.8	385.5	376.3
15°	541.6	526.8	514.0	499.3	490.2	471.8	457.1	440.6	433.2	420.4	405.7
17.5°	622.3	598.4	578.2	563.6	545.2	526.8	510.3	493.8	471.8	457.1	438.8
20°	708.6	688.4	660.8	635.2	613.1	591.2	567.2	545.2	525.1	501.2	479.1
22.5°	818.8	789.4	756.4	730.6	701.3	677.4	644.3	615.0	581.9	550.7	525.1
25°	958.3	919.7	888.5	851.8	816.9	780.2	739.8	703.1	660.8	631.5	587.5
27.5°	1130.8	1094.2	1051.9	1004.2	969.3	914.2	860.9	815.1	765.5	719.6	670.1
30°	1351.1	1297.9	1253.8	1208.0	1138.2	1084.9	1022.5	960.2	892.2	846.3	771.0
32.5°	1615.4	1558.6	1492.5	1426.4	1362.1	1286.9	1209.8	1132.6	1057.4	973.0	895.8
35°	1938.6	1870.6	1795.3	1723.8	1624.7	1543.9	1446.5	1340.1	1255.7	1158.4	1061.0
37.5°	2366.3	2254.3	2188.2	2112.9	1979.0	1868.8	1760.5	1654.0	1505.3	1402.5	1264.8
40°	2902.3	2836.2	2728.0	2606.8	2485.6	2340.6	2193.8	2052.4	1879.8	1736.6	1577.0
42.5°	3531.9	3434.7	3324.6	3150.1	3027.2	2856.4	2689.4	2502.1	2291.0	2107.5	1920.2
45°	4123.1	4007.5	3923.0	3748.7	3620.1	3418.1	3216.2	3018.0	2773.8	2537.0	2320.4
47.5°	4762.0	4666.5	4527.0	4385.6	4255.3	4027.7	3809.2	3568.7	3311.7	3030.9	2749.9
50°	5323.7	5248.5	5152.9	4982.3	4837.2	4646.3	4389.3	4126.8	3801.8	3522.8	3203.4
52.5°	5801.0	5742.2	5608.2	5487.0	5356.7	5176.8	4947.4	4695.9	4345.3	4038.6	3675.2
55°	6364.6	6322.3	6204.8	6129.6	6014.0	5841.4	5626.6	5393.5	5022.6	4688.5	4277.3
57.5°	7288.0	7255.0	7152.1	7120.9	7007.0	6856.5	6592.2	6342.5	5909.3	5494.4	5024.5
60°	8817.1	8751.1	8600.5	8523.5	8282.9	8081.0	7737.8	7394.4	6871.3	6342.5	5777.1
62.5°	10454.6	10269.2	9982.8	9736.9	9395.5	9044.7	8585.8	8060.8	7447.7	6819.9	6170.0
65°	11337.6	11021.9	10660.3	10269.2	9826.9	9311.0	8732.7	8103.1	7444.0	6781.3	6094.7
66°	11438.6	11082.4	10698.8	10263.8	9771.8	9222.9	8635.4	7974.6	7289.7	6643.6	5957.0
67.5°	11312.0	10939.3	10533.6	10050.8	9518.4	8949.3	8332.5	7645.9	6986.9	6331.5	5663.3
70°	10425.3	10054.4	9692.8	9184.3	8617.0	8044.3	7460.5	6693.2	6069.1	5466.9	4872.1
72.5°	8325.2	8073.7	7715.7	7280.6	6728.0	6056.1	5569.6	4883.2	4341.6	3757.8	3297.1
75°	5202.6	4848.3	4405.8	3851.4	3429.2	2883.9	2599.4	2078.1	1769.7	1499.8	1239.2
77.5°	2660.0	2393.9	2083.6	1771.5	1472.3	1174.9	908.7	642.6	433.2	301.1	224.0
80°	2197.4	1962.5	1705.4	1420.9	1156.6	897.7	646.2	440.6	280.9	183.6	143.1
82.5°	1815.5	1617.3	1387.8	1123.5	894.1	705.0	490.2	319.4	198.2	128.5	101.0
85°	772.9	701.3	541.6	429.5	323.1	238.7	167.1	112.0	78.9	64.2	58.7
87.5°	33.0	36.7	34.9	27.5	20.2	20.2	18.4	14.7	14.7	14.7	14.7
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2
2.5°	301.1	299.2	297.4	297.4	295.5	293.7	282.7	273.6	262.5	255.2	247.8
5°	313.9	312.0	308.5	306.6	302.9	301.1	277.2	257.0	240.5	227.6	218.5
7.5°	326.7	325.0	319.4	313.9	312.0	308.5	269.9	244.1	222.2	207.5	198.2
10°	343.2	337.8	332.3	325.0	319.4	313.9	262.5	229.4	205.6	192.7	183.6
12.5°	367.1	358.0	348.8	339.6	332.3	323.1	258.9	216.6	192.7	178.0	168.9
15°	394.7	381.8	370.8	359.8	346.9	337.8	251.5	205.6	181.7	167.1	156.1
17.5°	420.4	405.7	389.2	372.7	359.8	346.9	244.1	194.6	170.7	156.1	145.0
20°	457.1	435.1	414.9	394.7	376.3	359.8	233.1	183.6	161.5	145.0	134.0
22.5°	497.5	471.8	446.1	418.6	394.7	372.7	224.0	174.4	152.4	135.9	123.0
25°	548.9	517.7	482.8	447.9	420.4	391.1	214.8	165.2	143.1	126.6	113.8
27.5°	620.5	576.5	537.9	493.8	451.6	418.6	207.5	157.9	134.0	117.5	104.7
30°	717.8	653.5	592.9	545.2	495.6	447.9	200.1	148.7	126.6	108.4	93.6
32.5°	826.0	750.8	681.0	609.4	547.0	492.0	192.7	141.4	117.5	99.1	86.3
35°	960.2	864.6	771.0	688.4	613.1	539.7	185.4	134.0	110.1	90.0	77.1
37.5°	1152.9	1033.5	910.5	804.1	706.8	609.4	179.9	126.6	101.0	80.8	67.9
40°	1417.2	1263.0	1112.4	967.4	840.8	719.6	172.6	119.3	93.6	73.5	60.5
42.5°	1703.6	1516.3	1318.1	1154.7	980.3	827.9	165.2	112.0	86.3	66.1	53.3
45°	2059.8	1826.6	1586.1	1363.9	1151.0	954.6	157.9	104.7	77.1	58.7	45.9
47.5°	2448.9	2151.5	1879.8	1600.8	1347.4	1112.4	148.7	99.1	69.8	51.4	40.4
50°	2849.1	2535.2	2191.9	1874.3	1573.3	1270.4	139.6	90.0	62.4	45.9	33.0
52.5°	3280.5	2909.7	2559.1	2164.3	1813.7	1477.7	130.3	82.6	56.9	40.4	27.5
55°	3829.4	3414.6	3003.3	2560.9	2138.7	1718.3	121.2	73.5	49.6	34.9	22.1
57.5°	4519.6	4027.7	3522.8	3023.5	2511.4	2034.0	113.8	64.2	42.3	29.3	18.4
60°	5171.3	4596.8	3985.4	3410.9	2832.5	2276.4	102.8	56.9	36.7	23.9	18.4
62.5°	5509.1	4853.7	4194.7	3561.4	2944.6	2362.7	91.7	47.7	31.2	20.2	16.5
65°	5426.5	4758.3	4119.4	3480.6	2876.7	2307.6	80.8	42.3	27.5	18.4	16.5
66°	5307.2	4646.3	4003.8	3396.2	2819.7	2248.8	75.2	40.4	25.8	18.4	14.7
67.5°	5046.5	4407.6	3794.5	3229.1	2663.6	2136.8	67.9	36.7	23.9	16.5	14.7
70°	4310.4	3730.3	3240.1	2737.1	2276.4	1800.9	55.1	31.2	20.2	14.7	14.7
72.5°	2852.7	2458.1	2131.3	1833.9	1532.8	1189.6	45.9	25.8	16.5	14.7	12.8
75°	1075.8	973.0	835.3	750.8	655.4	574.6	36.7	16.5	12.8	12.8	12.8
77.5°	191.0	176.2	156.1	143.1	132.2	121.2	29.3	11.0	11.0	12.8	12.8
80°	128.5	119.3	108.4	99.1	91.7	82.6	20.2	9.1	11.0	11.0	12.8
82.5°	91.7	86.3	80.8	73.5	67.9	60.5	12.8	9.1	11.0	11.0	11.0
85°	55.1	51.4	47.7	44.0	38.6	36.7	9.1	9.1	9.1	11.0	11.0
87.5°	14.7	12.8	14.7	14.7	11.0	12.8	7.4	7.4	7.4	9.1	9.1
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: P165300

CATALOG NUMBER: VST-F08-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	288.2	288.2	288.2	288.2	288.2
2.5°	244.1	244.1	240.5	246.0	246.0
5°	211.1	211.1	209.2	211.1	211.1
7.5°	192.7	191.0	191.0	191.0	192.7
10°	176.2	174.4	174.4	174.4	174.4
12.5°	161.5	159.7	157.9	159.7	159.7
15°	148.7	145.0	145.0	145.0	145.0
17.5°	137.7	134.0	132.2	132.2	132.2
20°	126.6	121.2	121.2	121.2	121.2
22.5°	115.6	110.1	110.1	110.1	110.1
25°	104.7	99.1	99.1	99.1	99.1
27.5°	95.4	90.0	90.0	90.0	90.0
30°	84.5	80.8	80.8	82.6	80.8
32.5°	77.1	71.6	71.6	73.5	73.5
35°	67.9	64.2	64.2	64.2	64.2
37.5°	58.7	55.1	55.1	55.1	55.1
40°	51.4	47.7	45.9	47.7	47.7
42.5°	44.0	40.4	38.6	38.6	38.6
45°	38.6	33.0	31.2	33.0	33.0
47.5°	31.2	27.5	27.5	29.3	29.3
50°	23.9	23.9	25.8	29.3	29.3
52.5°	22.1	22.1	25.8	29.3	29.3
55°	20.2	22.1	25.8	27.5	29.3
57.5°	18.4	22.1	25.8	27.5	27.5
60°	18.4	20.2	23.9	27.5	27.5
62.5°	16.5	18.4	22.1	25.8	25.8
65°	16.5	18.4	22.1	25.8	25.8
66°	16.5	18.4	22.1	25.8	25.8
67.5°	16.5	18.4	22.1	25.8	25.8
70°	16.5	18.4	22.1	23.9	23.9
72.5°	14.7	16.5	20.2	23.9	23.9
75°	14.7	16.5	20.2	23.9	23.9
77.5°	14.7	16.5	20.2	23.9	23.9
80°	14.7	16.5	20.2	22.1	23.9
82.5°	12.8	16.5	18.4	22.1	22.1
85°	12.8	14.7	18.4	20.2	22.1
87.5°	11.0	12.8	14.7	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)