

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: P165302

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165302
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (56) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11313.6 lumens
Efficiency: N/A
Efficacy: 55.4 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 - G3

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



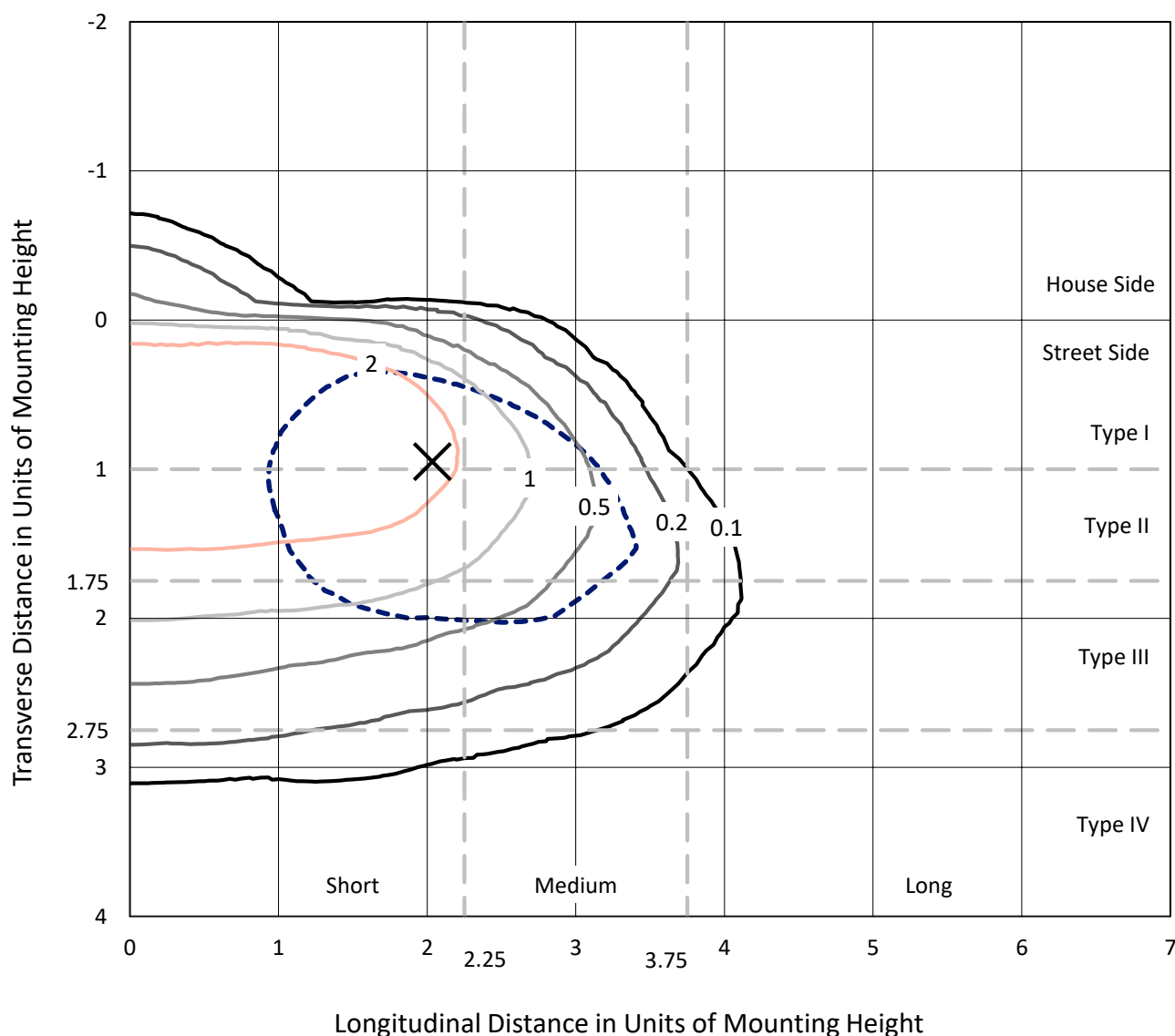
REPORT NUMBER: P165302

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

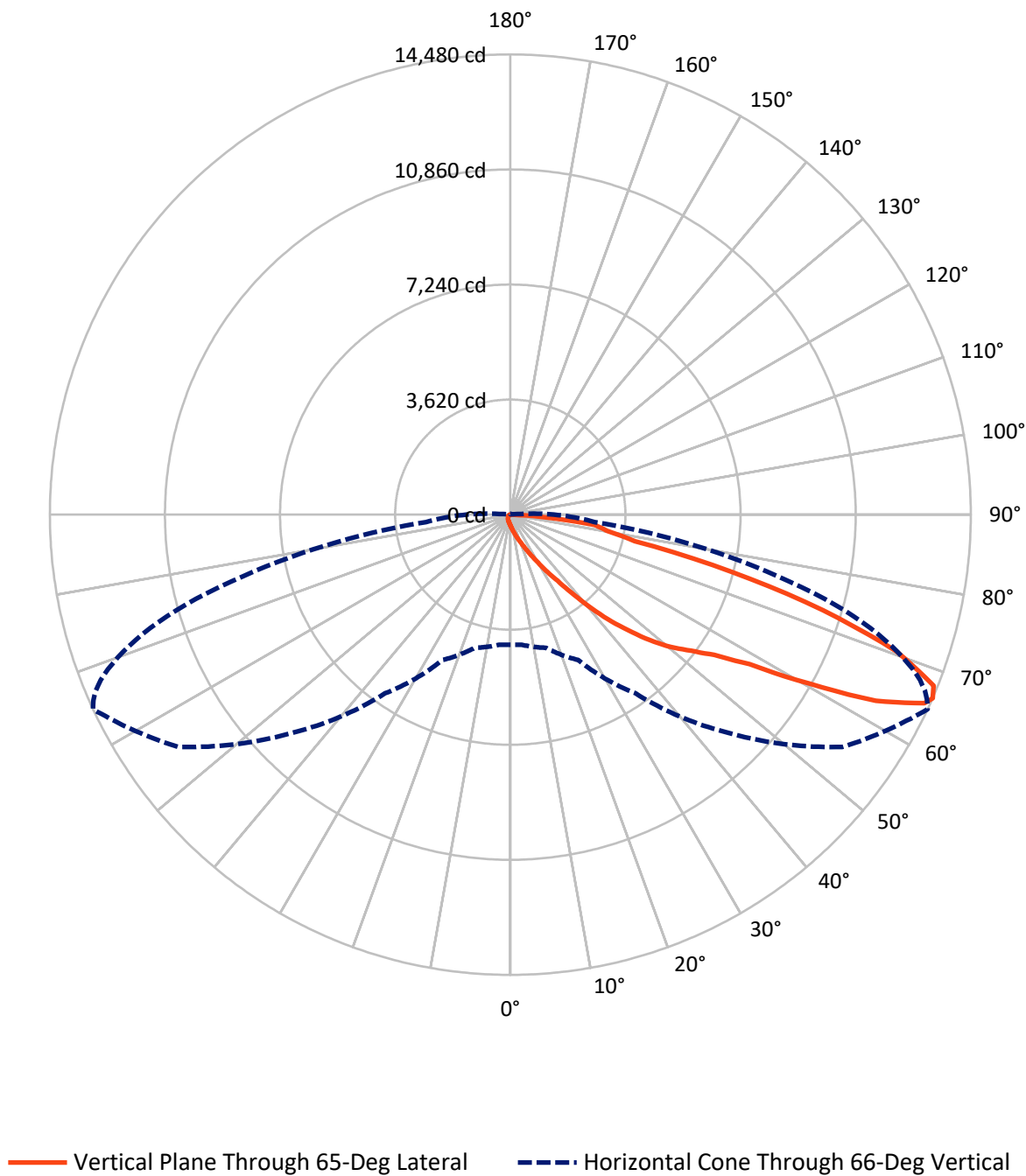


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P165302

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

Luminous Intensity Polar Plot



REPORT NUMBER: P165302

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

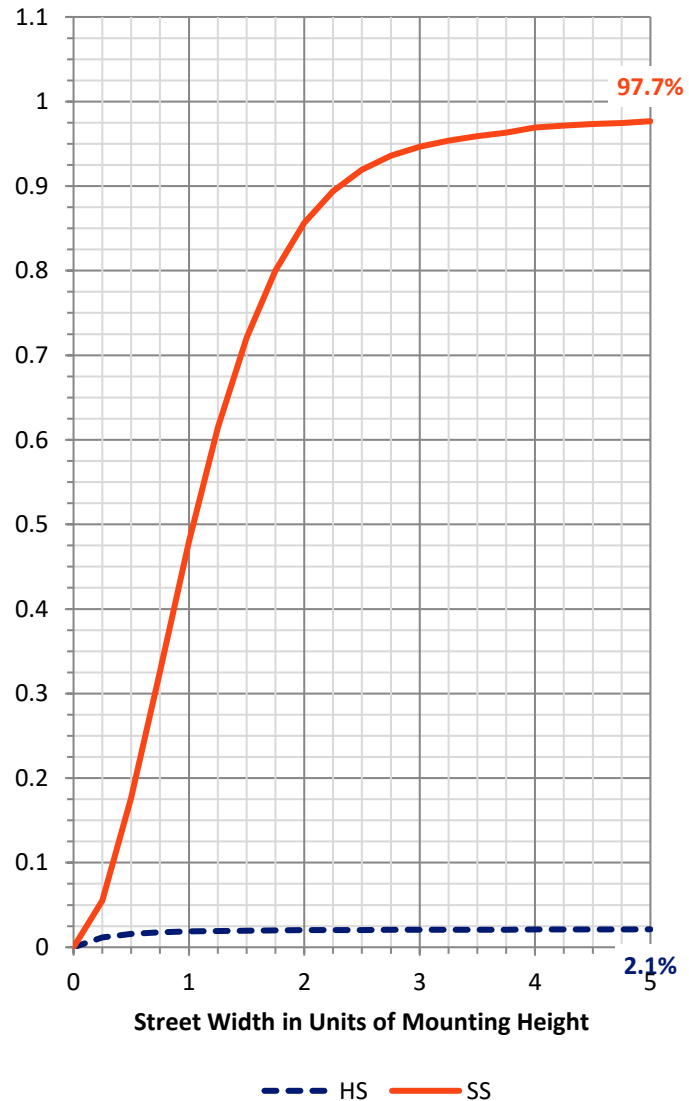
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	245.2	0.0	245.2
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	11068.5	0.0	11068.5
	% Fixture	97.8	0.0	97.8
Total	Lumens	11313.6	0.0	11313.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	0.3
10°-20°	162.1	1.4
20°-30°	349.6	3.1
30°-40°	746.6	6.6
40°-50°	1651.1	14.6
50°-60°	2798.1	24.7
60°-70°	3733.8	33.0
70°-80°	1644.7	14.5
80°-90°	189.4	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°	11313.6	100.0
0°-180°	11313.6	100.0

Coefficient of Utilization



REPORT NUMBER: P165302

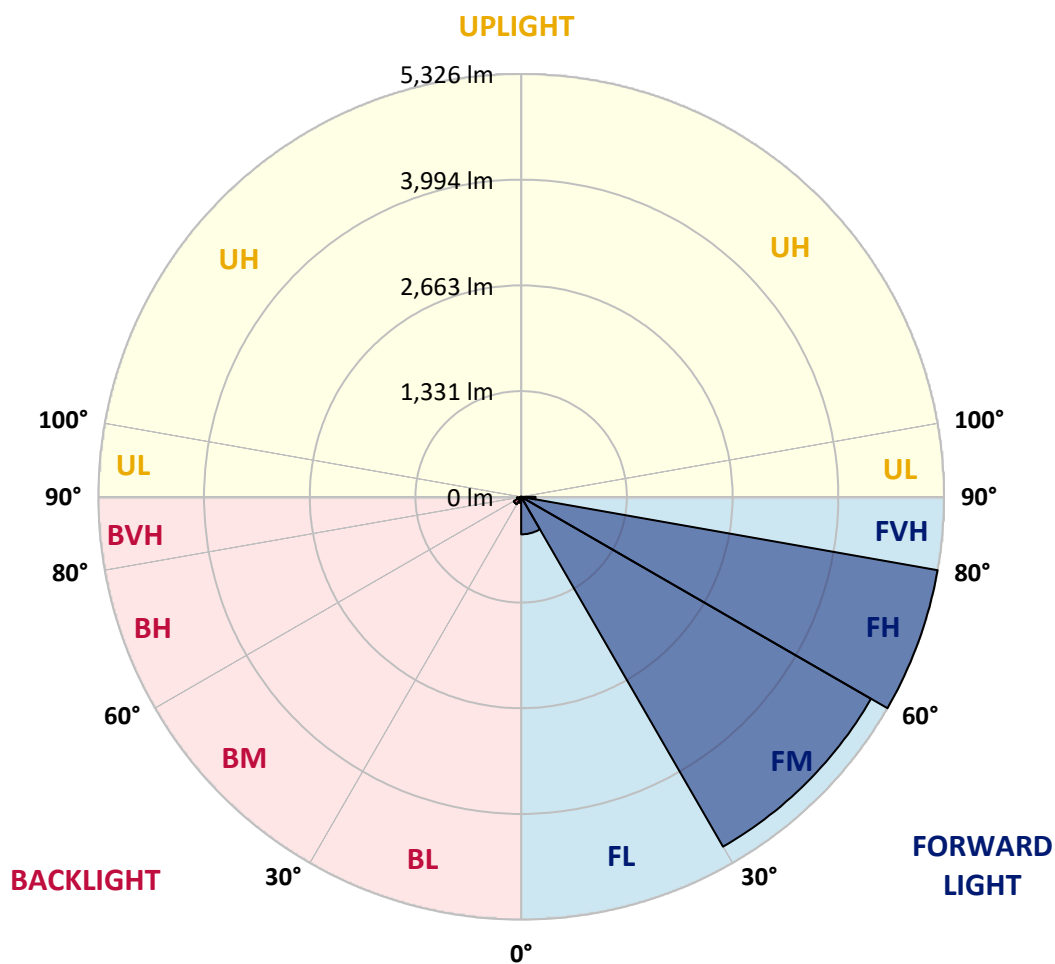
CATALOG NUMBER: VST-F08-LED-E-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	472.6	4.2			
FM	(30°-60°)	5088.1	45.0			
FH	(60°-80°)	5325.9	47.1			G3/7500
FVH	(80°-90°)	181.9	1.6			G2/225
BL	(0°-30°)	77.4	0.7	B0/110		
BM	(30°-60°)	107.7	1.0	B0/220		
BH	(60°-80°)	52.6	0.5	B0/110		G0/110
BVH	(80°-90°)	7.6	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-G3

Type III Short





REPORT NUMBER: P165302

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4
2.5°	430.7	428.5	419.8	419.8	406.7	398.1	387.1	376.3	376.3	374.1	371.9
5°	569.8	556.9	554.6	530.7	511.2	482.9	456.7	422.0	417.6	413.3	411.0
7.5°	724.3	722.1	702.6	674.3	635.2	582.9	530.7	474.2	465.5	461.1	452.4
10°	924.5	913.5	887.5	839.5	780.9	711.3	626.5	537.2	526.4	517.6	513.3
12.5°	1115.8	1096.3	1081.0	1020.1	946.1	843.9	741.7	613.4	604.7	593.8	576.4
15°	1294.2	1276.7	1250.7	1198.5	1115.8	987.5	867.9	711.3	689.5	674.3	661.2
17.5°	1433.4	1422.5	1392.0	1333.4	1244.1	1131.0	987.5	811.3	794.0	774.3	750.4
20°	1566.1	1550.8	1503.0	1422.5	1326.8	1239.7	1128.9	941.8	917.9	893.9	867.9
22.5°	1692.3	1676.9	1598.7	1466.0	1363.8	1326.8	1287.7	1089.7	1052.7	1033.2	1007.0
25°	1868.5	1835.8	1713.9	1503.0	1366.0	1394.3	1461.6	1281.1	1246.3	1218.1	1176.7
27.5°	2105.6	2062.0	1870.6	1557.4	1374.6	1468.2	1661.7	1513.8	1476.8	1444.2	1398.6
30°	2373.0	2344.8	2116.4	1687.9	1437.7	1577.0	1885.8	1809.7	1766.2	1727.0	1672.7
32.5°	2642.7	2603.6	2377.4	1935.8	1607.3	1787.9	2166.4	2153.4	2096.8	2059.8	2001.1
35°	2879.8	2860.3	2692.8	2342.5	1994.6	2157.7	2540.5	2555.7	2505.8	2466.5	2401.3
37.5°	3040.8	3040.8	3008.2	2779.7	2610.1	2731.9	3090.8	3093.0	3043.0	2953.8	2921.2
40°	3123.4	3147.3	3264.9	3308.3	3299.6	3456.2	3813.0	3773.8	3732.4	3686.7	3578.0
42.5°	3293.1	3314.8	3564.9	3865.2	4060.9	4267.5	4513.3	4500.2	4450.3	4367.6	4267.5
45°	3580.3	3608.5	3906.5	4382.8	4785.1	5078.9	5235.4	5174.5	5124.5	5046.3	4994.0
47.5°	3945.6	4000.0	4337.1	4926.6	5411.6	5896.6	6059.7	5898.9	5855.4	5794.4	5709.6
50°	4335.0	4387.2	4746.0	5420.3	5968.5	6547.0	6819.0	6547.0	6484.0	6464.3	6368.7
52.5°	4672.1	4715.7	5061.5	5801.0	6394.7	7073.4	7469.2	7110.3	7064.6	6999.4	6929.8
55°	4872.2	4907.1	5231.1	5983.7	6684.1	7547.5	8097.9	7782.5	7715.0	7689.0	7588.9
57.5°	4939.7	4974.4	5265.9	6007.6	6840.6	7980.4	8861.4	8872.2	8791.8	8698.3	8667.7
60°	4939.7	4978.8	5224.6	5948.9	6992.9	8441.5	9879.2	10786.2	10612.3	10594.9	10483.9
62.5°	4735.2	4772.2	5020.1	5768.4	7197.4	9063.6	11297.4	12898.3	12848.3	12735.1	12552.5
65°	4291.4	4313.2	4556.8	5307.3	7119.1	9635.7	12526.3	14303.4	14222.9	14001.0	13766.2
66°	4091.3	4108.7	4337.1	5044.0	6862.4	9714.0	12743.9	14479.6	14347.0	14159.8	13894.4
67.5°	3802.0	3832.5	3993.4	4554.7	6246.9	9442.0	12606.9	14355.7	14240.4	14014.1	13748.8
70°	2538.4	2516.6	3084.3	3495.3	4759.1	7693.4	11310.5	12889.5	12891.8	12785.2	12678.6
72.5°	1205.0	1218.1	1383.3	2151.1	3114.7	5139.8	9002.7	10288.2	10436.1	10244.7	10112.0
75°	865.7	885.2	985.3	1316.0	1857.5	3084.3	5835.7	7195.1	7199.5	6860.2	6558.0
77.5°	252.3	263.2	369.7	811.3	1392.0	2081.5	3351.8	4000.0	3906.5	3662.8	3434.4
80°	104.3	104.3	108.7	258.9	559.0	1413.8	2344.8	3079.9	3069.1	2975.6	2840.7
82.5°	39.1	41.3	52.2	106.6	132.7	348.0	1563.9	2673.2	2666.6	2534.0	2438.3
85°	4.4	4.4	13.1	45.7	50.1	65.2	313.2	1178.8	1172.4	1178.8	1033.2
87.5°	0.0	0.0	2.1	4.4	6.5	8.7	13.1	45.7	50.1	47.8	43.5
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: P165302

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

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4
2.5°	371.9	367.6	367.6	365.5	365.5	365.5	363.2	361.1	361.1	358.9	356.8
5°	406.7	402.3	400.2	395.9	393.7	391.5	387.1	385.0	380.7	378.4	376.3
7.5°	448.0	439.3	437.2	430.7	424.1	419.8	415.4	408.9	404.6	395.9	393.7
10°	500.3	489.4	480.7	471.9	465.5	454.6	448.0	439.3	430.7	424.1	417.6
12.5°	567.7	552.5	539.4	530.7	515.5	502.4	489.4	482.9	465.5	456.7	445.9
15°	641.7	624.2	609.0	591.6	580.8	559.0	541.5	522.0	513.3	498.1	480.7
17.5°	737.3	709.0	685.1	667.8	646.0	624.2	604.7	585.1	559.0	541.5	519.9
20°	839.5	815.6	783.0	752.6	726.5	700.4	672.0	646.0	622.1	593.8	567.7
22.5°	970.2	935.3	896.2	865.7	830.9	802.7	763.4	728.7	689.5	652.5	622.1
25°	1135.4	1089.7	1052.7	1009.3	967.9	924.5	876.5	833.1	783.0	748.3	696.1
27.5°	1339.9	1296.4	1246.3	1189.8	1148.5	1083.2	1020.1	965.8	907.0	852.6	794.0
30°	1600.9	1537.9	1485.5	1431.3	1348.6	1285.4	1211.5	1137.6	1057.1	1002.8	913.5
32.5°	1914.0	1846.7	1768.3	1690.0	1613.9	1524.8	1433.4	1342.0	1252.8	1152.8	1061.4
35°	2296.9	2216.4	2127.2	2042.4	1925.0	1829.2	1713.9	1587.8	1487.8	1372.5	1257.2
37.5°	2803.7	2671.0	2592.7	2503.5	2344.8	2214.3	2085.9	1959.7	1783.5	1661.7	1498.6
40°	3438.8	3360.5	3232.2	3088.7	2945.1	2773.2	2599.3	2431.8	2227.3	2057.6	1868.5
42.5°	4184.8	4069.6	3939.1	3732.4	3586.7	3384.4	3186.5	2964.6	2714.5	2497.0	2275.1
45°	4885.3	4748.3	4648.2	4441.6	4289.3	4050.0	3810.8	3575.9	3286.5	3006.0	2749.3
47.5°	5642.2	5529.0	5363.8	5196.3	5041.9	4772.2	4513.3	4228.4	3923.8	3591.1	3258.2
50°	6307.8	6218.6	6105.5	5903.2	5731.4	5505.1	5200.7	4889.6	4504.6	4174.0	3795.6
52.5°	6873.3	6803.6	6644.9	6501.3	6346.9	6133.7	5861.9	5563.9	5148.5	4785.1	4354.5
55°	7541.1	7491.0	7351.8	7262.6	7125.7	6921.2	6666.7	6390.5	5951.0	5555.2	5067.9
57.5°	8635.1	8596.0	8474.1	8437.1	8302.3	8124.0	7810.8	7514.9	7001.6	6510.0	5953.3
60°	10446.9	10368.7	10190.3	10099.0	9814.0	9574.8	9168.1	8761.3	8141.4	7514.9	6845.0
62.5°	12387.1	12167.4	11828.1	11536.7	11132.2	10716.6	10172.8	9550.9	8824.4	8080.5	7310.5
65°	13433.3	13059.3	12630.8	12167.4	11643.3	11032.1	10346.9	9600.9	8820.0	8034.8	7221.3
66°	13553.0	13131.0	12676.5	12161.0	11578.1	10927.7	10231.6	9448.6	8637.2	7871.7	7058.2
67.5°	13403.0	12961.4	12480.7	11908.7	11277.9	10603.6	9872.7	9059.2	8278.4	7501.8	6710.1
70°	12352.4	11912.9	11484.4	10882.0	10209.8	9531.3	8839.6	7930.5	7190.9	6477.4	5772.7
72.5°	9864.0	9566.1	9141.9	8626.4	7971.7	7175.6	6599.2	5785.8	5144.1	4452.4	3906.5
75°	6164.2	5744.5	5220.2	4563.4	4063.0	3417.0	3079.9	2462.2	2096.8	1777.1	1468.2
77.5°	3151.7	2836.4	2468.8	2098.9	1744.4	1392.0	1076.6	761.3	513.3	356.8	265.4
80°	2603.6	2325.2	2020.6	1683.5	1370.4	1063.7	765.7	522.0	332.9	217.5	169.6
82.5°	2151.1	1916.3	1644.3	1331.1	1059.3	835.3	580.8	378.4	234.8	152.3	119.7
85°	915.7	830.9	641.7	508.9	382.8	282.8	198.0	132.7	93.5	76.1	69.6
87.5°	39.1	43.5	41.3	32.6	23.9	23.9	21.8	17.4	17.4	17.4	17.4
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: P165302

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

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4
2.5°	356.8	354.5	352.4	352.4	350.2	348.0	335.0	324.1	311.1	302.3	293.6
5°	371.9	369.7	365.5	363.2	358.9	356.8	328.5	304.5	284.9	269.7	258.9
7.5°	387.1	385.0	378.4	371.9	369.7	365.5	319.8	289.3	263.2	245.8	234.8
10°	406.7	400.2	393.7	385.0	378.4	371.9	311.1	271.8	243.6	228.4	217.5
12.5°	435.0	424.1	413.3	402.3	393.7	382.8	306.7	256.6	228.4	210.9	200.1
15°	467.7	452.4	439.3	426.4	411.0	400.2	298.0	243.6	215.3	198.0	184.9
17.5°	498.1	480.7	461.1	441.6	426.4	411.0	289.3	230.6	202.2	184.9	171.8
20°	541.5	515.5	491.6	467.7	445.9	426.4	276.2	217.5	191.4	171.8	158.8
22.5°	589.5	559.0	528.6	496.0	467.7	441.6	265.4	206.6	180.6	161.0	145.7
25°	650.4	613.4	572.1	530.7	498.1	463.4	254.5	195.7	169.6	150.0	134.9
27.5°	735.2	683.0	637.3	585.1	535.1	496.0	245.8	187.0	158.8	139.2	124.0
30°	850.5	774.3	702.6	646.0	587.2	530.7	237.1	176.2	150.0	128.4	111.0
32.5°	978.7	889.6	806.9	722.1	648.1	582.9	228.4	167.5	139.2	117.4	102.2
35°	1137.6	1024.4	913.5	815.6	726.5	639.4	219.7	158.8	130.5	106.6	91.4
37.5°	1366.0	1224.6	1078.9	952.7	837.4	722.1	213.2	150.0	119.7	95.8	80.4
40°	1679.2	1496.5	1318.1	1146.2	996.2	852.6	204.5	141.3	111.0	87.0	71.7
42.5°	2018.5	1796.6	1561.8	1368.1	1161.5	981.0	195.7	132.7	102.2	78.3	63.1
45°	2440.5	2164.2	1879.3	1616.0	1363.8	1131.0	187.0	124.0	91.4	69.6	54.4
47.5°	2901.6	2549.2	2227.3	1896.7	1596.5	1318.1	176.2	117.4	82.7	60.9	47.8
50°	3375.8	3003.9	2597.0	2220.7	1864.1	1505.2	165.4	106.6	74.0	54.4	39.1
52.5°	3886.8	3447.5	3032.1	2564.4	2149.0	1750.9	154.4	97.9	67.4	47.8	32.6
55°	4537.2	4045.7	3558.5	3034.2	2534.0	2035.9	143.6	87.0	58.8	41.3	26.2
57.5°	5355.1	4772.2	4174.0	3582.4	2975.6	2410.0	134.9	76.1	50.1	34.7	21.8
60°	6127.2	5446.5	4722.1	4041.4	3356.1	2697.2	121.8	67.4	43.5	28.3	21.8
62.5°	6527.5	5750.9	4970.1	4219.7	3488.9	2799.4	108.7	56.5	37.0	23.9	19.5
65°	6429.6	5637.9	4880.9	4123.9	3408.4	2734.1	95.8	50.1	32.6	21.8	19.5
66°	6288.3	5505.1	4743.9	4023.9	3340.9	2664.5	89.2	47.8	30.5	21.8	17.4
67.5°	5979.3	5222.3	4495.9	3825.9	3156.0	2531.8	80.4	43.5	28.3	19.5	17.4
70°	5107.2	4419.8	3839.0	3243.1	2697.2	2133.8	65.2	37.0	23.9	17.4	17.4
72.5°	3380.0	2912.5	2525.3	2172.9	1816.2	1409.5	54.4	30.5	19.5	17.4	15.2
75°	1274.6	1152.8	989.7	889.6	776.5	680.8	43.5	19.5	15.2	15.2	15.2
77.5°	226.3	208.8	184.9	169.6	156.7	143.6	34.7	13.1	13.1	15.2	15.2
80°	152.3	141.3	128.4	117.4	108.7	97.9	23.9	10.8	13.1	13.1	15.2
82.5°	108.7	102.2	95.8	87.0	80.4	71.7	15.2	10.8	13.1	13.1	13.1
85°	65.2	60.9	56.5	52.2	45.7	43.5	10.8	10.8	10.8	13.1	13.1
87.5°	17.4	15.2	17.4	17.4	13.1	15.2	8.7	8.7	8.7	10.8	10.8
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: P165302

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

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	341.4	341.4	341.4	341.4	341.4
2.5°	289.3	289.3	284.9	291.5	291.5
5°	250.2	250.2	247.9	250.2	250.2
7.5°	228.4	226.3	226.3	226.3	228.4
10°	208.8	206.6	206.6	206.6	206.6
12.5°	191.4	189.3	187.0	189.3	189.3
15°	176.2	171.8	171.8	171.8	171.8
17.5°	163.1	158.8	156.7	156.7	156.7
20°	150.0	143.6	143.6	143.6	143.6
22.5°	137.0	130.5	130.5	130.5	130.5
25°	124.0	117.4	117.4	117.4	117.4
27.5°	113.1	106.6	106.6	106.6	106.6
30°	100.1	95.8	95.8	97.9	95.8
32.5°	91.4	84.8	84.8	87.0	87.0
35°	80.4	76.1	76.1	76.1	76.1
37.5°	69.6	65.2	65.2	65.2	65.2
40°	60.9	56.5	54.4	56.5	56.5
42.5°	52.2	47.8	45.7	45.7	45.7
45°	45.7	39.1	37.0	39.1	39.1
47.5°	37.0	32.6	32.6	34.7	34.7
50°	28.3	28.3	30.5	34.7	34.7
52.5°	26.2	26.2	30.5	34.7	34.7
55°	23.9	26.2	30.5	32.6	34.7
57.5°	21.8	26.2	30.5	32.6	32.6
60°	21.8	23.9	28.3	32.6	32.6
62.5°	19.5	21.8	26.2	30.5	30.5
65°	19.5	21.8	26.2	30.5	30.5
66°	19.5	21.8	26.2	30.5	30.5
67.5°	19.5	21.8	26.2	30.5	30.5
70°	19.5	21.8	26.2	28.3	28.3
72.5°	17.4	19.5	23.9	28.3	28.3
75°	17.4	19.5	23.9	28.3	28.3
77.5°	17.4	19.5	23.9	28.3	28.3
80°	17.4	19.5	23.9	26.2	28.3
82.5°	15.2	19.5	21.8	26.2	26.2
85°	15.2	17.4	21.8	23.9	26.2
87.5°	13.1	15.2	17.4	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)