

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: P165120

Luminaire Tested: **VST-F12-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165120
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-F12-LED-E-U-SL2-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15147 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

Input Watts (W): 306.6
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



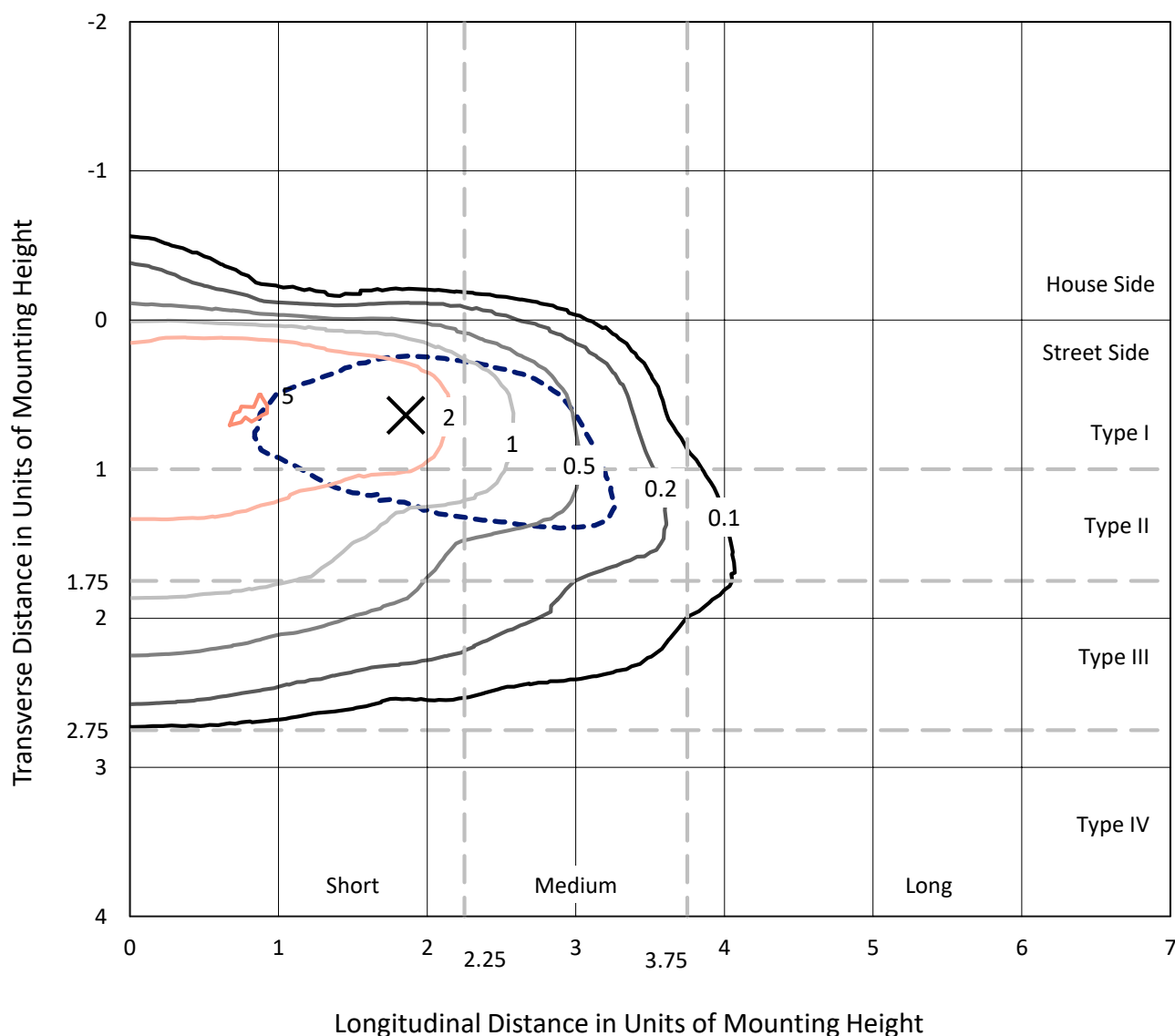
REPORT NUMBER: P165120

CATALOG NUMBER: VST-F12-LED-E-U-SL2-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

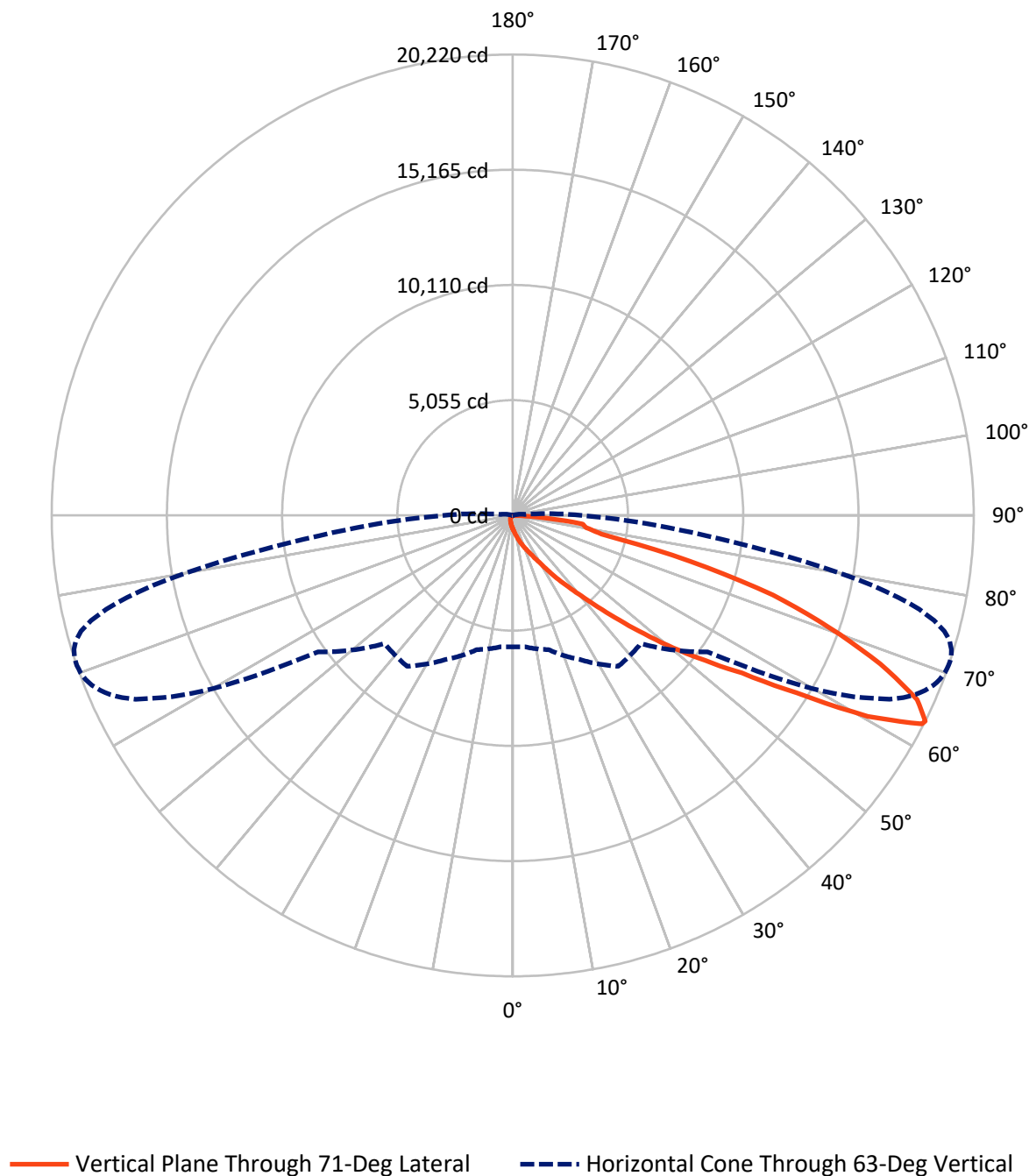


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P165120

CATALOG NUMBER: VST-F12-LED-E-U-SL2-HSS-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P165120

CATALOG NUMBER: VST-F12-LED-E-U-SL2-HSS-8030

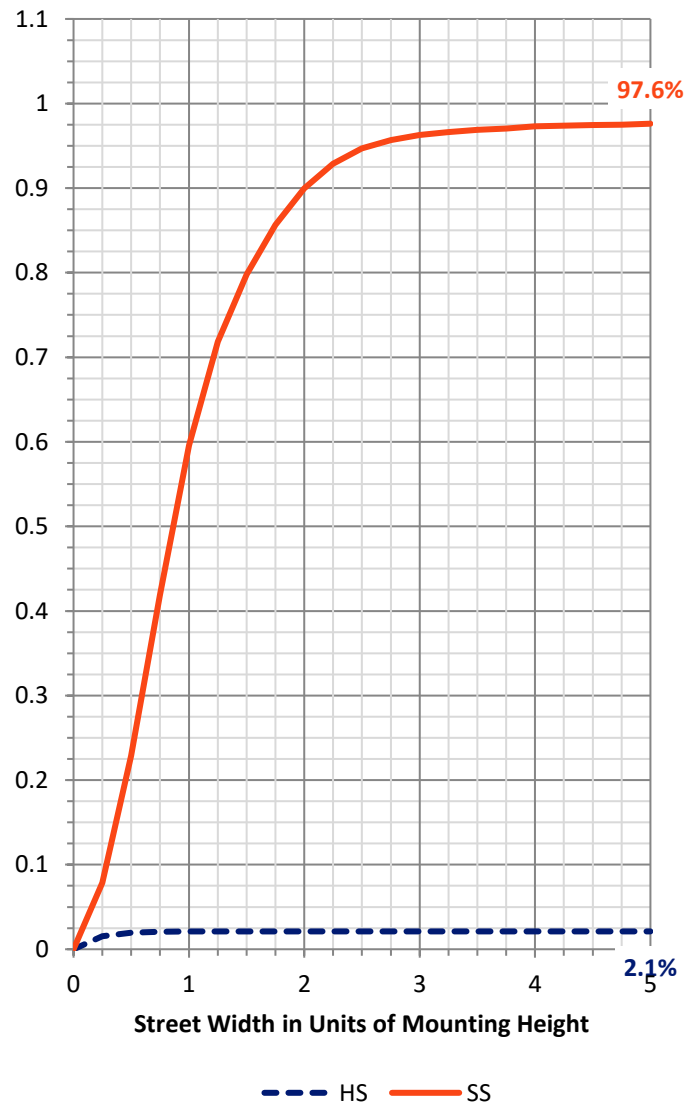
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	321.6	0.0	321.6
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	14825.4	0.0	14825.4
	% Fixture	97.9	0.0	97.9
Total	Lumens	15147.0	0.0	15147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	0.4
10°-20°	249.1	1.6
20°-30°	505.9	3.3
30°-40°	1235.9	8.2
40°-50°	2764.1	18.2
50°-60°	3886.6	25.7
60°-70°	4570.3	30.2
70°-80°	1650.3	10.9
80°-90°	220.7	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°	15147.0	100.0
0°-180°	15147.0	100.0

Coefficient of Utilization



REPORT NUMBER: P165120

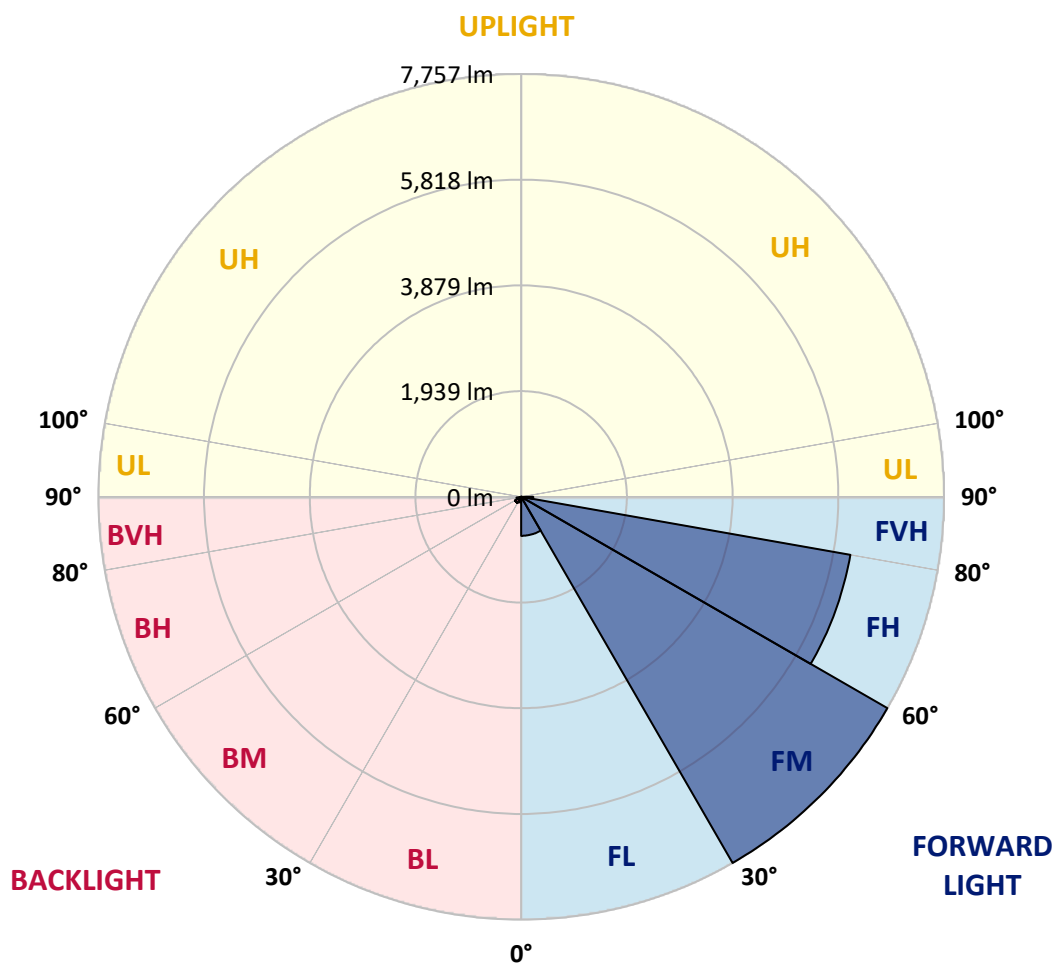
CATALOG NUMBER: VST-F12-LED-E-U-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	715.7	4.7			
FM	(30°-60°)	7757.0	51.2			
FH	(60°-80°)	6132.4	40.5			G3/7500
FVH	(80°-90°)	220.2	1.5			G2/225
BL	(0°-30°)	103.4	0.7	B0/110		
BM	(30°-60°)	129.6	0.9	B0/220		
BH	(60°-80°)	88.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G3

Type II Short





REPORT NUMBER: P165120

CATALOG NUMBER: VST-F12-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	760.0	768.2	762.7	749.0	732.4	710.5	691.1	691.1	688.4	680.1	682.9
5°	996.8	999.6	988.6	955.5	925.2	878.4	826.0	820.5	815.0	806.8	804.1
7.5°	1228.2	1239.1	1228.2	1192.3	1131.7	1060.2	977.5	969.4	952.8	952.8	941.8
10°	1465.0	1465.0	1453.9	1412.6	1357.5	1255.6	1151.0	1137.2	1118.0	1112.5	1095.9
12.5°	1632.9	1632.9	1627.4	1605.4	1561.3	1470.5	1343.8	1330.0	1305.3	1296.9	1277.7
15°	1698.9	1698.9	1701.8	1721.0	1723.8	1682.5	1550.3	1539.2	1514.5	1492.4	1484.2
17.5°	1740.2	1737.5	1737.5	1765.1	1814.6	1842.2	1756.8	1745.7	1718.3	1707.3	1679.7
20°	1831.2	1825.7	1809.1	1809.1	1855.9	1952.3	1952.3	1949.6	1919.3	1911.0	1897.2
22.5°	1966.1	1960.6	1911.0	1869.6	1891.7	2013.0	2125.8	2120.3	2109.3	2098.2	2090.0
25°	2186.4	2167.1	2081.7	1960.6	1941.4	2070.8	2257.9	2271.8	2280.0	2280.0	2285.5
27.5°	2519.6	2494.9	2343.4	2117.6	2032.2	2164.3	2403.9	2431.5	2456.2	2461.8	2486.5
30°	2982.1	2938.2	2720.6	2390.2	2194.7	2302.1	2618.8	2649.0	2684.8	2695.9	2734.3
32.5°	3742.1	3717.4	3508.2	3012.4	2593.9	2572.0	2918.9	2957.4	3004.2	3023.4	3070.3
35°	4898.8	4904.3	4733.6	4287.4	3709.2	3406.2	3455.9	3488.8	3505.4	3563.2	3588.0
37.5°	5683.5	5697.2	5735.9	5559.6	5146.6	4838.1	4449.8	4485.8	4400.3	4408.5	4411.3
40°	6113.1	6157.1	6383.0	6553.7	6520.6	6341.7	6030.5	6049.7	5890.0	5854.3	5680.7
42.5°	6399.4	6457.2	6818.1	7346.7	7616.5	7779.1	7707.5	7699.2	7575.2	7528.4	7382.4
45°	6578.5	6630.8	7085.1	7864.4	8486.7	8960.3	9155.8	9177.8	9073.2	9026.3	8905.3
47.5°	6570.1	6630.8	7118.1	8057.2	8974.2	9731.3	10282.1	10309.6	10372.9	10331.6	10339.8
50°	6206.7	6264.6	6754.7	7729.4	8830.9	10083.8	11091.6	11179.8	11281.6	11350.5	11383.6
52.5°	5766.1	5807.4	6242.5	7167.7	8219.5	9937.8	11570.7	11722.2	11873.7	12003.1	12093.9
55°	5603.6	5650.4	5991.9	6760.2	7729.4	9326.5	11793.8	12016.8	12231.7	12443.8	12617.2
57.5°	5689.0	5733.0	5978.2	6567.4	7437.6	8682.2	11857.2	12204.1	12556.6	12900.8	13242.2
60°	6002.9	6049.7	6259.1	6746.4	7360.5	8310.5	11609.3	12184.9	12771.3	13371.6	13936.2
62.5°	5879.0	5898.2	6206.7	7060.4	7911.2	7993.8	10708.9	11513.0	12408.0	13333.2	14244.5
63°	5760.6	5782.7	6096.5	6974.9	8079.2	7947.0	10430.8	11278.9	12223.4	13220.1	14211.6
65°	5223.7	5226.4	5466.0	6159.9	7892.0	8029.6	9191.7	10001.2	11086.1	12281.2	13534.2
67.5°	3899.2	3879.9	4111.2	4639.9	6195.7	8032.4	7889.1	8343.6	9098.1	10158.2	11281.6
70°	1382.4	1352.1	1726.5	2458.9	3860.5	6570.1	6779.5	6809.7	7019.1	7591.8	8296.8
72.5°	448.8	457.2	550.6	900.5	1778.8	4422.4	6137.9	6044.2	5989.2	5986.4	6080.0
75°	178.9	181.8	220.2	399.3	798.6	2131.3	5375.2	5427.3	5446.7	5474.2	5504.6
77.5°	85.3	93.6	123.9	223.1	396.5	1054.6	3846.8	4290.1	4543.4	4739.1	4857.5
80°	30.3	35.8	68.9	137.6	184.4	484.6	2026.7	2445.2	2816.9	3296.2	3709.2
82.5°	0.0	0.0	13.7	96.3	101.8	195.5	831.6	974.7	1115.2	1445.6	1855.9
85°	0.0	0.0	0.0	27.6	30.3	33.1	280.9	338.8	380.1	443.3	512.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.2	16.6	41.3	63.4
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: P165120

CATALOG NUMBER: VST-F12-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	677.4	674.7	674.7	669.2	666.4	660.8	658.2	649.8	647.1	647.1	647.1
5°	801.3	790.3	784.7	771.0	762.7	760.0	746.3	740.8	732.4	735.3	721.4
7.5°	938.9	919.7	911.5	892.1	886.7	867.4	861.8	848.1	839.9	823.4	817.9
10°	1090.4	1065.7	1052.0	1021.5	1013.3	999.6	983.1	966.5	952.8	936.2	928.1
12.5°	1264.0	1241.9	1230.9	1189.6	1170.3	1151.0	1129.0	1107.0	1084.9	1071.2	1052.0
15°	1467.7	1431.9	1420.8	1382.4	1349.3	1324.5	1294.3	1266.7	1250.1	1222.7	1203.3
17.5°	1668.7	1632.9	1624.7	1566.8	1531.0	1514.5	1481.5	1445.6	1415.3	1387.9	1357.5
20°	1869.6	1844.9	1822.8	1767.8	1729.4	1701.8	1657.6	1621.8	1597.1	1558.6	1520.0
22.5°	2070.8	2045.9	2029.5	1971.7	1935.9	1897.2	1858.8	1820.2	1784.4	1737.5	1693.6
25°	2277.3	2260.8	2252.4	2200.2	2167.1	2131.3	2092.7	2048.7	2004.6	1952.3	1905.6
27.5°	2492.0	2497.5	2481.0	2470.0	2434.2	2409.4	2348.9	2318.6	2285.5	2222.1	2164.3
30°	2764.6	2781.1	2775.6	2784.0	2761.9	2745.4	2698.5	2660.1	2621.5	2560.9	2494.9
32.5°	3108.9	3131.0	3141.8	3172.3	3161.2	3155.7	3141.8	3086.8	3059.2	2954.7	2927.1
35°	3640.3	3629.3	3676.1	3700.8	3689.8	3684.4	3667.9	3637.6	3604.5	3530.1	3461.4
37.5°	4331.4	4342.4	4359.0	4309.5	4276.4	4273.7	4224.1	4193.8	4147.0	4064.4	3981.8
40°	5598.1	5529.3	5452.3	5242.9	5152.1	5099.8	4953.8	4912.5	4832.6	4719.7	4634.4
42.5°	7244.8	7175.9	6944.7	6595.0	6407.7	6148.9	6030.5	5884.5	5771.6	5587.2	5488.0
45°	8880.5	8682.2	8654.6	8247.1	8015.9	7674.4	7462.4	7217.2	6961.2	6718.9	6542.7
47.5°	10260.1	10215.9	10081.2	9833.2	9618.5	9332.0	9059.5	8682.2	8417.8	8073.7	7757.0
50°	11364.2	11361.5	11311.9	11168.7	10989.8	10758.5	10518.9	10199.5	9899.4	9478.0	9139.4
52.5°	12190.4	12234.4	12251.0	12206.8	12138.1	11934.2	11813.2	11546.0	11292.6	10934.6	10568.4
55°	12796.1	12958.6	13041.2	13134.9	13115.6	13044.1	13038.5	12865.0	12749.4	12465.7	12206.8
57.5°	13545.2	13812.3	14068.3	14522.8	14539.1	14699.0	14781.6	14864.2	14886.1	14773.2	14688.0
60°	14497.8	15043.1	15527.7	16477.9	16725.7	17116.6	17370.0	17645.4	17879.3	17898.7	17893.2
62.5°	15169.7	16009.6	16791.7	18201.5	18683.4	19135.1	19473.7	19740.9	19903.3	20068.5	20145.6
63°	15189.1	16108.8	16940.4	18394.3	18901.0	19330.6	19652.8	19900.6	20071.3	20170.3	20220.0
65°	14723.8	15838.9	16830.2	18278.6	18755.0	19187.4	19355.3	19517.8	19600.5	19638.9	19492.9
67.5°	12479.5	13570.0	14726.4	16345.6	16753.1	17270.8	17408.6	17491.2	17529.6	17521.4	17397.5
70°	9332.0	10246.4	11532.3	13382.7	13922.4	14429.1	14743.0	14877.9	14921.9	14908.2	14723.8
72.5°	6515.1	7052.0	8112.2	10171.9	10907.2	11557.0	11945.3	12146.3	12187.6	12105.0	11934.2
75°	5471.5	5499.1	5738.5	6864.7	7553.2	8247.1	8684.9	8811.6	8729.0	8478.4	8043.4
77.5°	4884.9	4945.6	4945.6	5113.5	5248.4	5441.2	5482.5	5174.0	4816.2	4353.5	3979.1
80°	4097.5	4309.5	4458.2	4582.1	4595.8	4557.3	4455.3	4281.9	4006.5	3654.0	3263.1
82.5°	2489.4	2907.9	3078.6	3717.4	4031.3	4243.3	4226.9	3995.5	3786.3	3420.1	3086.8
85°	627.9	677.4	735.3	955.5	1071.2	1308.0	1456.6	1525.5	1550.3	1423.7	1288.7
87.5°	60.5	41.3	68.9	52.3	74.4	55.0	74.4	68.9	85.3	90.8	99.2
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: P165120

CATALOG NUMBER: VST-F12-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	641.6	638.8	636.1	633.4	630.6	627.9	622.4	622.4	616.9	614.0	611.3
5°	713.2	707.7	705.0	699.5	691.1	685.6	677.4	666.4	658.2	655.3	649.8
7.5°	804.1	790.3	784.7	776.6	765.5	749.0	737.9	729.7	716.0	707.7	691.1
10°	906.0	892.1	875.7	859.2	842.6	823.4	809.5	798.6	776.6	765.5	746.3
12.5°	1035.4	1010.7	991.3	969.4	947.3	925.2	908.7	875.7	856.3	831.6	815.0
15°	1167.5	1145.4	1123.5	1095.9	1062.8	1027.0	1010.7	980.2	955.5	917.0	894.9
17.5°	1327.2	1285.9	1253.0	1219.8	1189.6	1156.5	1123.5	1076.7	1040.9	1007.8	963.8
20°	1484.2	1434.7	1398.8	1354.8	1310.8	1258.5	1219.8	1186.7	1137.2	1093.3	1046.4
22.5°	1652.1	1602.6	1544.7	1500.8	1440.2	1398.8	1346.6	1291.4	1241.9	1184.1	1126.2
25°	1855.9	1803.6	1737.5	1679.7	1610.8	1553.1	1489.7	1426.4	1365.8	1299.8	1225.4
27.5°	2106.6	2051.4	1979.8	1911.0	1820.2	1748.6	1688.1	1602.6	1525.5	1442.9	1357.5
30°	2423.1	2362.6	2274.5	2175.3	2084.5	2004.6	1919.3	1806.4	1721.0	1621.8	1511.8
32.5°	2836.3	2764.6	2646.2	2552.6	2439.7	2335.0	2216.6	2103.8	1982.7	1853.3	1726.5
35°	3356.7	3290.7	3152.9	3015.2	2891.3	2767.4	2618.8	2489.4	2318.6	2161.6	1999.1
37.5°	3896.5	3777.9	3651.3	3502.7	3348.3	3199.7	3017.9	2839.0	2643.5	2472.8	2269.0
40°	4513.2	4370.0	4265.4	4105.7	3888.1	3676.1	3508.2	3285.1	3040.0	2811.4	2572.0
42.5°	5358.6	5198.9	5011.6	4769.3	4612.3	4364.5	4147.0	3882.6	3560.4	3304.4	3015.2
45°	6336.2	6118.6	5936.9	5702.8	5512.8	5204.4	4951.1	4598.6	4276.4	3940.5	3588.0
47.5°	7451.3	7181.4	6917.1	6685.8	6383.0	6080.0	5757.9	5383.4	4970.3	4601.3	4182.8
50°	8731.7	8349.0	7982.8	7685.4	7269.6	6919.9	6570.1	6148.9	5691.7	5267.7	4791.3
52.5°	10155.4	9712.1	9227.5	8770.3	8288.4	7839.6	7418.2	6933.6	6424.3	5906.6	5375.2
55°	11873.7	11540.4	10970.6	10389.5	9745.0	9144.9	8602.3	8002.1	7382.4	6702.4	6143.4
57.5°	14564.1	14401.5	13925.1	13344.2	12504.3	11774.6	10854.9	10119.6	9222.0	8285.7	7564.2
60°	18209.9	18008.7	17741.7	17270.8	16604.4	15613.2	14599.8	13457.1	12091.3	10794.3	9563.4
62.5°	20153.9	20082.2	19864.8	19539.8	18917.5	18135.5	17113.9	15858.1	14316.2	12741.1	11171.6
63°	20211.6	20120.8	19933.5	19603.1	19055.2	18298.0	17295.5	16075.7	14566.7	12961.5	11358.7
65°	19429.7	19393.9	19203.8	18843.1	18468.7	17890.3	17113.9	16064.7	14798.0	13280.8	11686.4
67.5°	17232.3	17124.8	16833.0	16722.8	16461.3	16059.1	15467.2	14745.7	13839.8	12647.4	11270.6
70°	14574.9	14415.2	14049.0	13853.6	13534.2	13280.8	12920.2	12405.1	11846.1	11014.6	9987.5
72.5°	11758.0	11427.6	11091.6	10582.3	10136.2	9684.5	9285.2	8921.8	8307.7	7971.7	7192.5
75°	7635.8	7035.5	6460.1	5689.0	4995.1	4381.1	3783.4	3480.6	2850.0	2593.9	2227.7
77.5°	3623.7	3287.8	2836.3	2486.5	2040.4	1666.0	1360.3	1021.5	801.3	627.9	479.1
80°	2924.3	2640.7	2368.1	2051.4	1715.5	1368.5	1049.1	784.7	556.2	385.4	272.6
82.5°	2607.7	2299.2	1963.3	1745.7	1517.3	1241.9	1018.9	831.6	614.0	448.8	305.7
85°	1013.3	853.6	658.2	536.9	418.5	344.1	311.2	214.7	168.1	132.1	101.8
87.5°	88.1	71.6	57.9	38.6	41.3	22.1	24.7	16.6	13.7	13.7	11.0
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: P165120

CATALOG NUMBER: VST-F12-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	608.5	605.8	603.0	597.5	597.5	592.1	589.3	586.6	572.7	542.5	517.7
5°	638.8	633.4	627.9	619.5	614.0	605.8	600.3	592.1	561.7	504.0	454.3
7.5°	682.9	671.9	663.7	647.1	638.8	627.9	619.5	605.8	556.2	468.0	399.3
10°	735.3	716.0	702.1	682.9	666.4	652.6	638.8	619.5	550.6	429.6	349.6
12.5°	798.6	776.6	749.0	726.9	705.0	685.6	666.4	641.6	542.5	396.5	311.2
15°	861.8	828.9	809.5	779.2	749.0	721.4	693.9	671.9	545.3	360.7	278.1
17.5°	933.4	900.5	859.2	826.0	793.1	757.3	724.2	680.1	531.4	333.3	253.3
20°	1002.3	955.5	917.0	875.7	828.9	784.7	743.4	705.0	520.4	305.7	231.3
22.5°	1076.7	1021.5	972.0	919.7	861.8	812.3	762.7	713.2	501.1	280.9	212.0
25°	1167.5	1104.1	1032.6	969.4	908.7	848.1	784.7	724.2	481.9	258.9	198.3
27.5°	1277.7	1195.1	1123.5	1043.6	958.3	881.2	812.3	746.3	462.7	242.3	184.4
30°	1418.2	1321.7	1219.8	1118.0	1027.0	938.9	842.6	760.0	443.3	225.7	170.7
32.5°	1605.4	1484.2	1360.3	1241.9	1120.7	1007.8	906.0	798.6	432.3	212.0	157.0
35°	1853.3	1696.2	1544.7	1396.1	1250.1	1112.5	980.2	859.2	432.3	195.5	140.5
37.5°	2087.2	1905.6	1712.8	1528.2	1354.8	1195.1	1038.1	892.1	410.3	181.8	126.8
40°	2340.5	2123.0	1897.2	1679.7	1470.5	1272.2	1093.3	925.2	391.0	165.2	112.9
42.5°	2728.8	2453.6	2158.9	1905.6	1654.9	1409.8	1186.7	988.6	366.2	148.7	99.2
45°	3238.3	2888.5	2541.7	2233.2	1913.8	1613.6	1349.3	1104.1	360.7	134.9	85.3
47.5°	3783.4	3370.4	2962.9	2569.1	2194.7	1844.9	1528.2	1233.6	360.7	121.2	74.4
50°	4325.9	3808.4	3373.3	2916.1	2494.9	2081.7	1704.4	1368.5	363.5	110.2	60.5
52.5°	4816.2	4262.7	3775.2	3246.5	2781.1	2302.1	1891.7	1500.8	358.0	96.3	49.5
55°	5496.2	4846.4	4281.9	3698.2	3152.9	2613.3	2147.9	1698.9	360.7	85.3	41.3
57.5°	6749.2	5986.4	5306.3	4540.8	3912.9	3216.2	2651.7	2106.6	393.8	71.6	30.3
60°	8547.3	7556.0	6600.5	5667.0	4868.5	4039.6	3307.0	2665.6	462.7	57.9	22.1
62.5°	9756.1	8459.1	7319.2	6289.3	5361.3	4493.9	3695.3	2965.6	509.3	46.8	13.7
63°	9880.0	8539.1	7393.5	6330.7	5383.4	4516.0	3711.9	2987.7	512.2	44.0	13.7
65°	10114.1	8676.7	7434.8	6338.8	5361.3	4485.8	3700.8	2985.0	517.7	35.8	11.0
67.5°	9847.0	8464.7	7195.3	6102.1	5168.5	4306.7	3563.2	2874.8	514.9	24.7	8.2
70°	8806.1	7660.7	6545.4	5526.5	4678.4	3899.2	3243.8	2621.5	473.6	16.6	5.5
72.5°	6465.6	5686.2	4821.7	4086.4	3524.6	2927.1	2497.5	1968.8	366.2	11.0	2.7
75°	1916.5	1745.7	1467.7	1294.3	1142.8	944.4	839.9	655.3	187.3	5.5	0.0
77.5°	382.8	347.0	311.2	283.6	267.0	228.6	217.5	178.9	77.1	2.7	0.0
80°	201.0	165.2	140.5	123.9	107.4	88.1	74.4	60.5	13.7	0.0	0.0
82.5°	192.8	129.4	93.6	77.1	66.1	52.3	41.3	30.3	8.2	0.0	0.0
85°	71.6	55.0	41.3	33.1	27.6	24.7	19.2	16.6	0.0	0.0	0.0
87.5°	11.0	8.2	8.2	5.5	5.5	2.7	2.7	2.7	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



REPORT NUMBER: P165120

CATALOG NUMBER: VST-F12-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	493.0	470.9	459.8	446.1	446.1	443.3	448.8
5°	410.3	380.1	358.0	341.5	344.1	335.9	338.8
7.5°	347.0	316.7	297.3	286.4	283.6	280.9	280.9
10°	300.2	272.6	256.0	247.8	245.1	245.1	245.1
12.5°	267.0	239.6	225.7	220.2	220.2	217.5	217.5
15°	239.6	217.5	203.8	198.3	198.3	195.5	198.3
17.5°	217.5	195.5	184.4	178.9	178.9	176.2	176.2
20°	198.3	178.9	168.1	159.7	159.7	157.0	159.7
22.5°	181.8	162.5	148.7	143.1	140.5	137.6	140.5
25°	165.2	146.0	132.1	123.9	121.2	121.2	118.4
27.5°	151.5	132.1	115.7	107.4	104.7	104.7	101.8
30°	137.6	115.7	99.2	90.8	88.1	88.1	88.1
32.5°	123.9	99.2	85.3	77.1	74.4	74.4	74.4
35°	110.2	85.3	71.6	63.4	60.5	60.5	60.5
37.5°	93.6	71.6	55.0	49.5	46.8	44.0	44.0
40°	79.9	55.0	41.3	35.8	30.3	30.3	30.3
42.5°	66.1	44.0	30.3	22.1	19.2	16.6	19.2
45°	55.0	33.1	19.2	11.0	8.2	8.2	8.2
47.5°	44.0	22.1	8.2	2.7	2.7	2.7	2.7
50°	33.1	13.7	2.7	0.0	0.0	2.7	2.7
52.5°	24.7	8.2	0.0	0.0	0.0	0.0	0.0
55°	13.7	2.7	0.0	0.0	0.0	0.0	0.0
57.5°	8.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	5.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	2.7	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)