

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: P165031

Luminaire Tested: **VST-F03-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165031
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-F03-LED-E-U-SL2-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4098 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 78.3
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

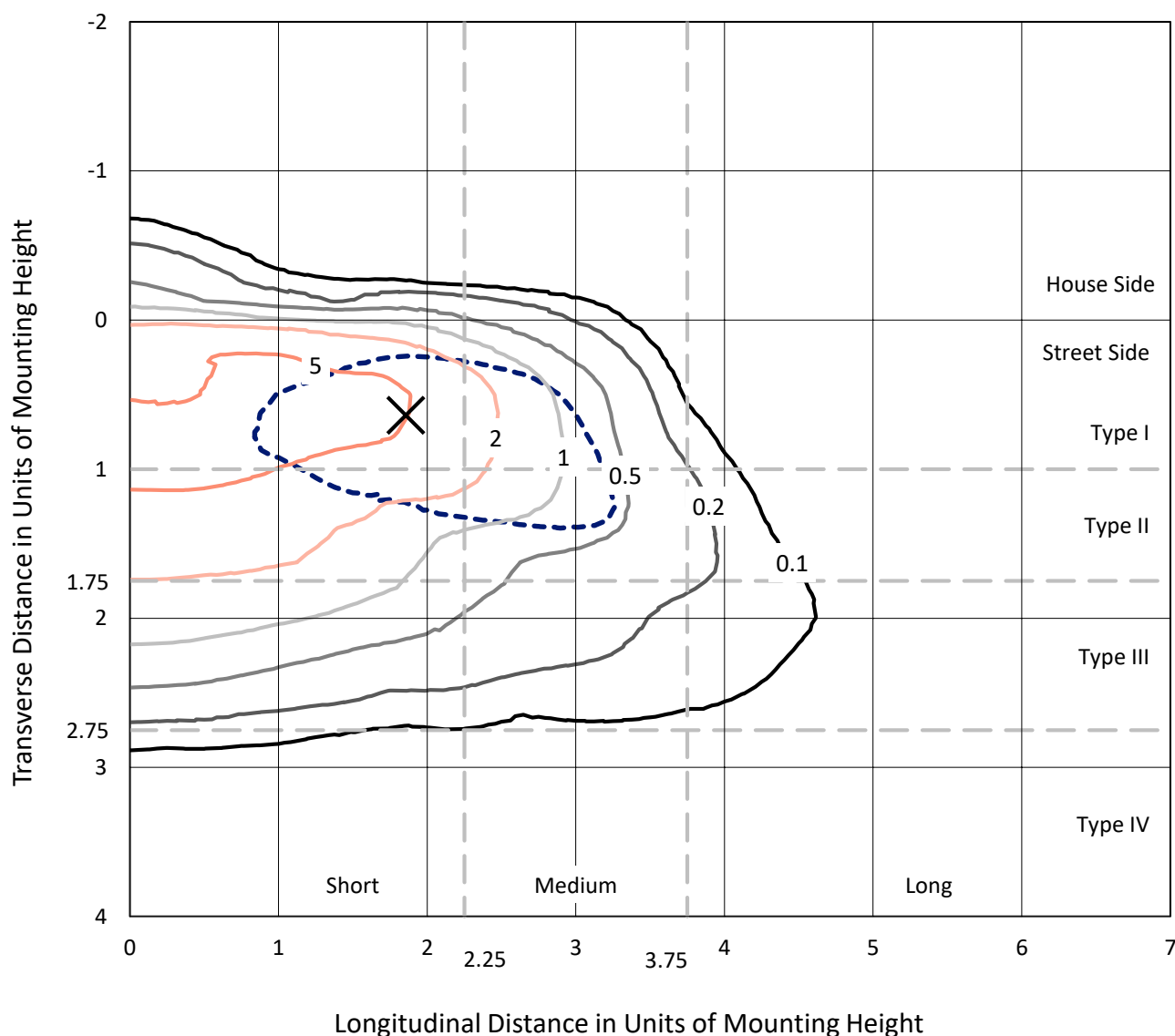


REPORT NUMBER: P165031

CATALOG NUMBER: VST-F03-LED-E-U-SL2-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

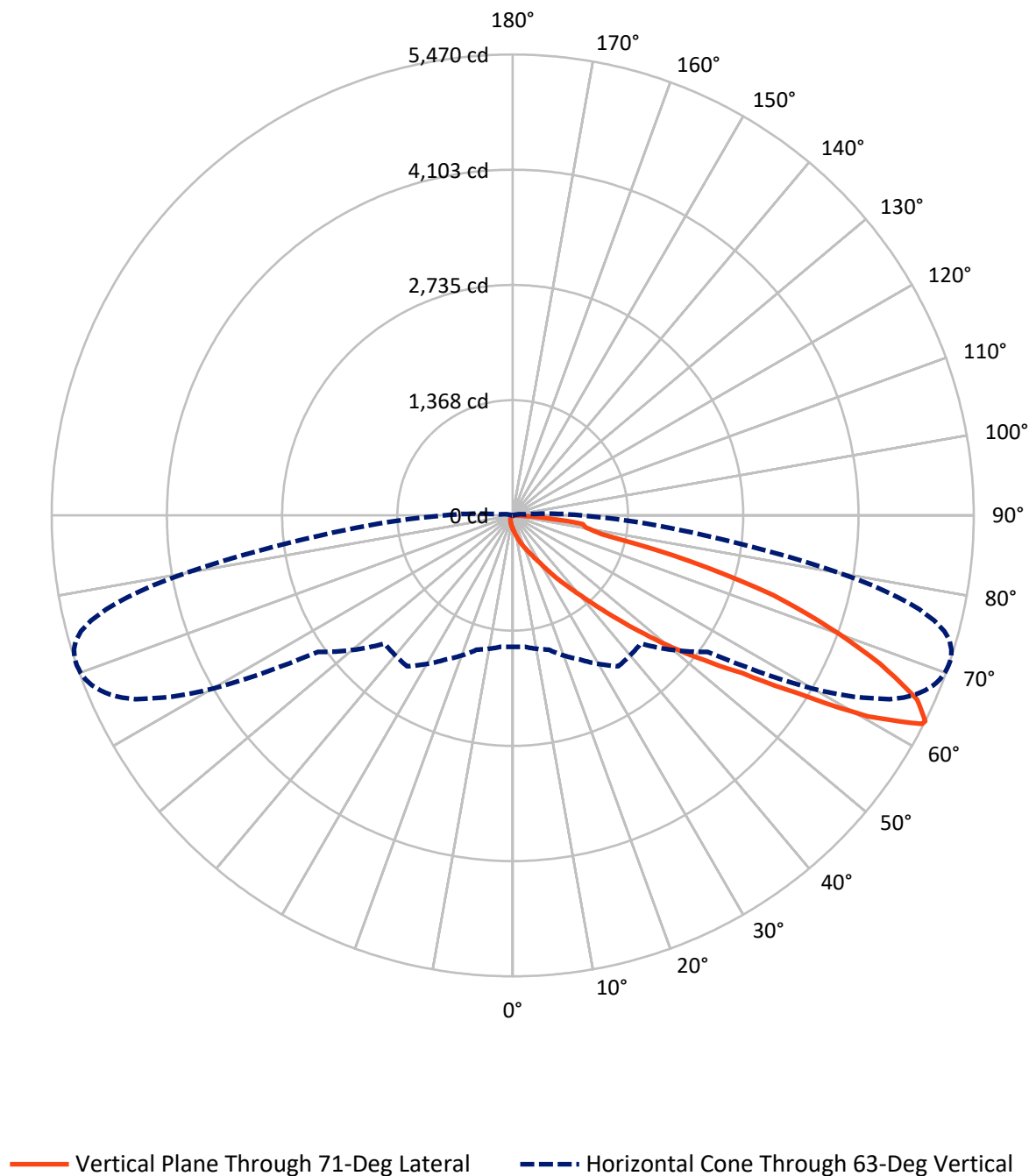


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P165031

CATALOG NUMBER: VST-F03-LED-E-U-SL2-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P165031

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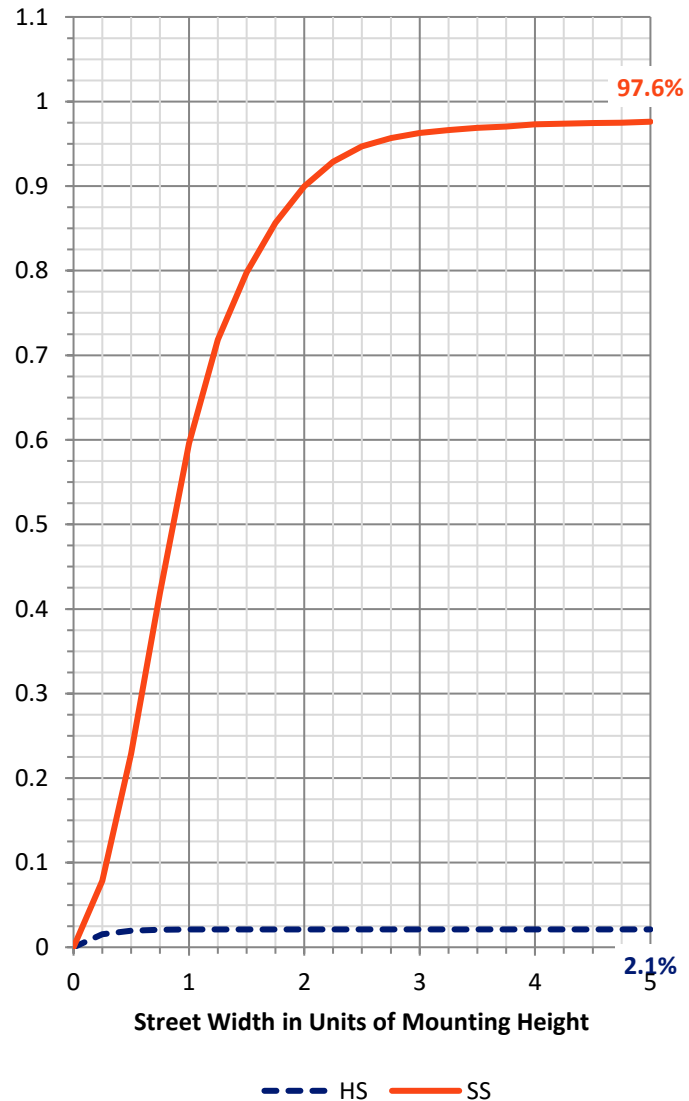
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	87.0	0.0	87.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4010.9	0.0	4010.9
	% Fixture	97.9	0.0	97.9
Total	Lumens	4098.0	0.0	4098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.4	0.4
10°-20°	67.4	1.6
20°-30°	136.9	3.3
30°-40°	334.4	8.2
40°-50°	747.8	18.2
50°-60°	1051.5	25.7
60°-70°	1236.5	30.2
70°-80°	446.5	10.9
80°-90°	59.7	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°	4098.0	100.0
0°-180°	4098.0	100.0

Coefficient of Utilization



REPORT NUMBER: P165031

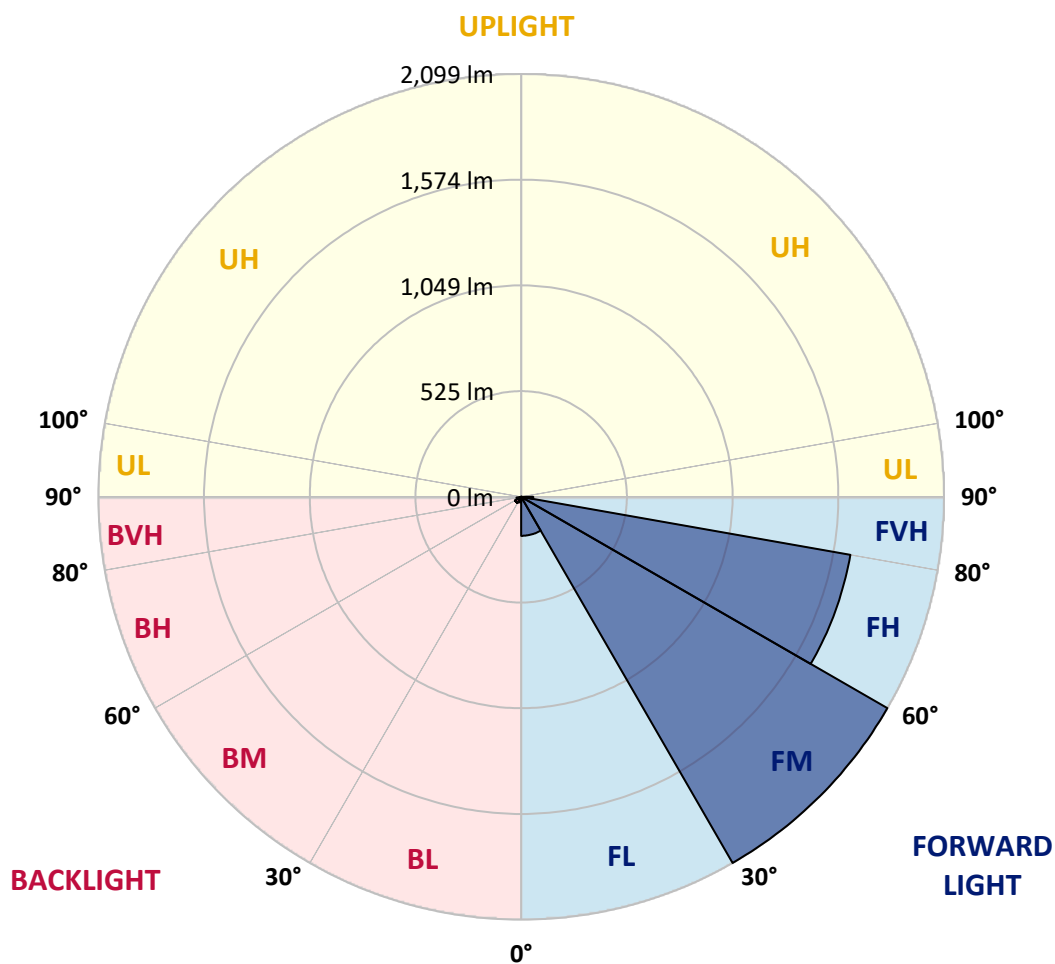
CATALOG NUMBER: VST-F03-LED-E-U-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.6	4.7			
FM	(30°-60°)	2098.6	51.2			
FH	(60°-80°)	1659.1	40.5			G1/1800
FVH	(80°-90°)	59.6	1.5			G1/100
BL	(0°-30°)	28.0	0.7	B0/110		
BM	(30°-60°)	35.1	0.9	B0/220		
BH	(60°-80°)	23.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	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-G1

Type II Short





REPORT NUMBER: P165031

CATALOG NUMBER: VST-F03-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2
2.5°	205.6	207.8	206.3	202.6	198.1	192.2	187.0	187.0	186.2	184.0	184.7
5°	269.7	270.4	267.5	258.5	250.3	237.7	223.5	222.0	220.5	218.3	217.6
7.5°	332.3	335.2	332.3	322.6	306.2	286.8	264.5	262.3	257.8	257.8	254.8
10°	396.4	396.4	393.4	382.2	367.3	339.7	311.4	307.7	302.5	301.0	296.5
12.5°	441.8	441.8	440.3	434.3	422.4	397.9	363.5	359.8	353.2	350.9	345.7
15°	459.7	459.7	460.4	465.6	466.4	455.2	419.4	416.5	409.7	403.7	401.5
17.5°	470.8	470.1	470.1	477.5	490.9	498.4	475.3	472.3	464.9	461.9	454.4
20°	495.4	493.9	489.4	489.4	502.1	528.2	528.2	527.5	519.2	517.0	513.3
22.5°	531.9	530.5	517.0	505.8	511.8	544.6	575.2	573.7	570.7	567.7	565.4
25°	591.5	586.3	563.2	530.5	525.2	560.2	610.9	614.6	616.9	616.9	618.4
27.5°	681.7	675.0	634.0	572.9	549.8	585.5	650.3	657.8	664.5	666.0	672.7
30°	806.8	794.9	736.0	646.7	593.8	622.8	708.5	716.7	726.4	729.4	739.7
32.5°	1012.4	1005.7	949.1	815.0	701.8	695.8	789.7	800.1	812.8	818.0	830.6
35°	1325.3	1326.8	1280.6	1159.9	1003.5	921.5	935.0	943.9	948.4	964.0	970.7
37.5°	1537.6	1541.3	1551.8	1504.1	1392.4	1308.9	1203.9	1213.6	1190.5	1192.7	1193.5
40°	1653.8	1665.8	1726.9	1773.1	1764.1	1715.7	1631.5	1636.7	1593.5	1583.8	1536.9
42.5°	1731.3	1747.0	1844.6	1987.6	2060.6	2104.6	2085.2	2083.0	2049.4	2036.8	1997.3
45°	1779.8	1793.9	1916.8	2127.7	2296.0	2424.2	2477.0	2483.0	2454.7	2442.1	2409.3
47.5°	1777.5	1793.9	1925.8	2179.8	2427.9	2632.7	2781.8	2789.2	2806.3	2795.2	2797.4
50°	1679.2	1694.9	1827.5	2091.2	2389.1	2728.1	3000.8	3024.6	3052.2	3070.8	3079.8
52.5°	1560.0	1571.2	1688.9	1939.2	2223.8	2688.7	3130.4	3171.4	3212.4	3247.4	3272.0
55°	1516.0	1528.7	1621.1	1828.9	2091.2	2523.2	3190.7	3251.1	3309.2	3366.6	3413.5
57.5°	1539.1	1551.1	1617.4	1776.8	2012.2	2348.9	3207.9	3301.7	3397.1	3490.3	3582.6
60°	1624.1	1636.7	1693.4	1825.2	1991.3	2248.4	3140.9	3296.6	3455.2	3617.6	3770.3
62.5°	1590.5	1595.8	1679.2	1910.2	2140.3	2162.7	2897.2	3114.8	3356.9	3607.2	3853.8
63°	1558.5	1564.5	1649.4	1887.1	2185.8	2150.0	2822.0	3051.5	3307.0	3576.7	3844.9
65°	1413.2	1414.0	1478.8	1666.6	2135.1	2172.4	2486.8	2705.8	2999.3	3322.6	3661.6
67.5°	1054.9	1049.7	1112.3	1255.3	1676.2	2173.1	2134.4	2257.3	2461.4	2748.2	3052.2
70°	374.0	365.8	467.1	665.2	1044.4	1777.5	1834.1	1842.4	1899.0	2053.9	2244.7
72.5°	121.4	123.7	149.0	243.6	481.3	1196.5	1660.6	1635.2	1620.4	1619.6	1644.9
75°	48.4	49.2	59.6	108.1	216.1	576.6	1454.2	1468.3	1473.6	1481.0	1489.3
77.5°	23.1	25.3	33.5	60.4	107.3	285.3	1040.8	1160.6	1229.2	1282.1	1314.2
80°	8.2	9.7	18.7	37.3	49.9	131.1	548.3	661.6	762.1	891.8	1003.5
82.5°	0.0	0.0	3.7	26.0	27.5	52.9	225.0	263.7	301.7	391.1	502.1
85°	0.0	0.0	0.0	7.4	8.2	8.9	76.0	91.7	102.8	119.9	138.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.2	4.5	11.2	17.2
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: P165031

CATALOG NUMBER: VST-F03-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2
2.5°	183.2	182.5	182.5	181.0	180.3	178.8	178.1	175.8	175.1	175.1	175.1
5°	216.8	213.8	212.3	208.6	206.3	205.6	201.9	200.4	198.1	198.9	195.2
7.5°	254.0	248.8	246.6	241.4	239.9	234.7	233.2	229.4	227.2	222.8	221.3
10°	295.0	288.3	284.6	276.4	274.1	270.4	266.0	261.5	257.8	253.3	251.1
12.5°	341.9	336.0	333.0	321.8	316.6	311.4	305.5	299.5	293.5	289.8	284.6
15°	397.1	387.4	384.4	374.0	365.0	358.3	350.2	342.7	338.2	330.8	325.6
17.5°	451.4	441.8	439.6	423.9	414.2	409.7	400.8	391.1	382.9	375.5	367.3
20°	505.8	499.1	493.1	478.3	467.9	460.4	448.4	438.8	432.1	421.7	411.2
22.5°	560.2	553.5	549.1	533.4	523.7	513.3	502.9	492.4	482.8	470.1	458.2
25°	616.1	611.6	609.4	595.3	586.3	576.6	566.2	554.3	542.3	528.2	515.6
27.5°	674.2	675.7	671.2	668.2	658.6	651.8	635.5	627.3	618.4	601.2	585.5
30°	748.0	752.4	751.0	753.2	747.2	742.7	730.1	719.7	709.2	692.8	675.0
32.5°	841.1	847.1	850.0	858.2	855.2	853.7	850.0	835.1	827.6	799.4	791.9
35°	984.8	981.9	994.6	1001.2	998.3	996.8	992.3	984.1	975.2	955.1	936.5
37.5°	1171.9	1174.8	1179.3	1165.9	1157.0	1156.3	1142.8	1134.6	1121.9	1099.6	1077.2
40°	1514.5	1495.9	1475.1	1418.5	1393.9	1379.7	1340.2	1329.1	1307.4	1276.9	1253.8
42.5°	1960.1	1941.4	1878.8	1784.3	1733.6	1663.6	1631.5	1592.0	1561.5	1511.6	1484.8
45°	2402.6	2348.9	2341.4	2231.2	2168.6	2076.3	2018.9	1952.6	1883.3	1817.8	1770.1
47.5°	2775.8	2763.8	2727.4	2660.3	2602.2	2524.7	2451.0	2348.9	2277.4	2184.3	2098.6
50°	3074.5	3073.8	3060.4	3021.7	2973.2	2910.7	2845.9	2759.5	2678.2	2564.2	2472.6
52.5°	3298.1	3310.0	3314.5	3302.5	3283.9	3228.8	3196.0	3123.7	3055.1	2958.3	2859.2
55°	3461.9	3505.9	3528.2	3553.6	3548.3	3529.0	3527.5	3480.5	3449.3	3372.5	3302.5
57.5°	3664.6	3736.9	3806.1	3929.0	3933.5	3976.7	3999.1	4021.4	4027.4	3996.8	3973.7
60°	3922.3	4069.9	4201.0	4458.0	4525.0	4630.8	4699.4	4773.8	4837.1	4842.4	4840.9
62.5°	4104.1	4331.3	4542.9	4924.3	5054.7	5176.9	5268.5	5340.8	5384.8	5429.5	5450.3
63°	4109.3	4358.2	4583.2	4976.5	5113.6	5229.8	5317.0	5384.0	5430.2	5457.0	5470.4
65°	3983.5	4285.1	4553.3	4945.2	5074.1	5191.1	5236.5	5280.5	5302.8	5313.2	5273.7
67.5°	3376.3	3671.3	3984.2	4422.2	4532.5	4672.5	4709.8	4732.1	4742.6	4740.4	4706.8
70°	2524.7	2772.1	3120.0	3620.6	3766.6	3903.7	3988.6	4025.2	4037.0	4033.3	3983.5
72.5°	1762.6	1907.9	2194.7	2752.0	2950.9	3126.7	3231.7	3286.1	3297.3	3274.9	3228.8
75°	1480.3	1487.8	1552.6	1857.2	2043.5	2231.2	2349.7	2383.9	2361.6	2293.8	2176.1
77.5°	1321.6	1338.0	1338.0	1383.4	1420.0	1472.1	1483.3	1399.8	1303.0	1177.8	1076.5
80°	1108.6	1165.9	1206.1	1239.7	1243.4	1232.9	1205.3	1158.5	1084.0	988.6	882.8
82.5°	673.5	786.7	832.9	1005.7	1090.6	1148.0	1143.5	1081.0	1024.4	925.3	835.1
85°	169.9	183.2	198.9	258.5	289.8	353.9	394.1	412.7	419.4	385.2	348.7
87.5°	16.4	11.2	18.7	14.2	20.2	14.9	20.2	18.7	23.1	24.5	26.8
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: P165031

CATALOG NUMBER: VST-F03-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2
2.5°	173.6	172.8	172.1	171.4	170.6	169.9	168.4	168.4	166.9	166.1	165.4
5°	193.0	191.5	190.7	189.2	187.0	185.5	183.2	180.3	178.1	177.3	175.8
7.5°	217.6	213.8	212.3	210.1	207.1	202.6	199.6	197.4	193.7	191.5	187.0
10°	245.1	241.4	236.9	232.4	227.9	222.8	219.0	216.1	210.1	207.1	201.9
12.5°	280.1	273.4	268.2	262.3	256.3	250.3	245.8	236.9	231.7	225.0	220.5
15°	315.8	309.9	304.0	296.5	287.5	277.9	273.4	265.2	258.5	248.1	242.1
17.5°	359.0	347.9	339.0	330.0	321.8	312.9	304.0	291.3	281.6	272.6	260.8
20°	401.5	388.1	378.4	366.5	354.7	340.5	330.0	321.1	307.7	295.8	283.1
22.5°	446.9	433.6	417.9	406.0	389.6	378.4	364.3	349.4	336.0	320.3	304.7
25°	502.1	488.0	470.1	454.4	435.8	420.2	403.0	385.9	369.5	351.7	331.5
27.5°	569.9	555.0	535.6	517.0	492.4	473.1	456.7	433.6	412.7	390.4	367.3
30°	655.6	639.2	615.4	588.5	563.9	542.3	519.2	488.7	465.6	438.8	409.0
32.5°	767.3	748.0	715.9	690.6	660.1	631.7	599.7	569.2	536.4	501.4	467.1
35°	908.2	890.3	853.0	815.8	782.2	748.7	708.5	673.5	627.3	584.8	540.8
37.5°	1054.2	1022.1	987.8	947.6	905.9	865.7	816.5	768.1	715.2	669.0	613.9
40°	1221.0	1182.3	1154.0	1110.8	1051.9	994.6	949.1	888.8	822.5	760.6	695.8
42.5°	1449.7	1406.5	1355.9	1290.3	1247.8	1180.8	1121.9	1050.4	963.2	894.0	815.8
45°	1714.2	1655.3	1606.2	1542.8	1491.5	1408.0	1339.5	1244.2	1157.0	1066.1	970.7
47.5°	2015.9	1942.9	1871.4	1808.8	1726.9	1644.9	1557.8	1456.4	1344.7	1244.9	1131.6
50°	2362.3	2258.8	2159.7	2079.2	1966.7	1872.2	1777.5	1663.6	1539.8	1425.1	1296.2
52.5°	2747.5	2627.6	2496.5	2372.8	2242.4	2120.9	2006.9	1875.8	1738.1	1598.0	1454.2
55°	3212.4	3122.2	2968.0	2810.8	2636.5	2474.1	2327.3	2164.9	1997.3	1813.3	1662.1
57.5°	3940.3	3896.3	3767.4	3610.2	3383.0	3185.5	2936.7	2737.8	2495.0	2241.7	2046.5
60°	4926.6	4872.2	4799.9	4672.5	4492.3	4224.1	3949.9	3640.7	3271.3	2920.4	2587.3
62.5°	5452.6	5433.1	5374.3	5286.4	5118.1	4906.4	4630.1	4290.4	3873.2	3447.1	3022.4
63°	5468.2	5443.6	5392.9	5303.5	5155.3	4950.4	4679.2	4349.2	3941.0	3506.6	3073.0
65°	5256.6	5246.9	5195.5	5097.9	4996.6	4840.1	4630.1	4346.2	4003.5	3593.0	3161.7
67.5°	4662.1	4633.0	4554.1	4524.3	4453.5	4344.7	4184.6	3989.3	3744.3	3421.7	3049.2
70°	3943.2	3900.0	3800.9	3748.0	3661.6	3593.0	3495.5	3356.2	3204.9	2980.0	2702.1
72.5°	3181.1	3091.7	3000.8	2863.0	2742.3	2620.1	2512.1	2413.7	2247.6	2156.7	1945.9
75°	2065.8	1903.4	1747.7	1539.1	1351.4	1185.3	1023.6	941.6	771.1	701.8	602.7
77.5°	980.4	889.5	767.3	672.7	552.0	450.7	368.0	276.4	216.8	169.9	129.6
80°	791.2	714.4	640.7	555.0	464.1	370.3	283.9	212.3	150.5	104.3	73.7
82.5°	705.5	622.0	531.2	472.3	410.5	336.0	275.6	225.0	166.1	121.4	82.7
85°	274.1	230.9	178.1	145.3	113.2	93.1	84.2	58.1	45.5	35.8	27.5
87.5°	23.8	19.4	15.7	10.4	11.2	6.0	6.7	4.5	3.7	3.7	3.0
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: P165031

CATALOG NUMBER: VST-F03-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2
2.5°	164.6	163.9	163.1	161.6	161.6	160.2	159.4	158.7	154.9	146.8	140.0
5°	172.8	171.4	169.9	167.6	166.1	163.9	162.4	160.2	152.0	136.4	122.9
7.5°	184.7	181.8	179.6	175.1	172.8	169.9	167.6	163.9	150.5	126.6	108.1
10°	198.9	193.7	190.0	184.7	180.3	176.6	172.8	167.6	149.0	116.2	94.6
12.5°	216.1	210.1	202.6	196.7	190.7	185.5	180.3	173.6	146.8	107.3	84.2
15°	233.2	224.3	219.0	210.8	202.6	195.2	187.7	181.8	147.5	97.6	75.2
17.5°	252.5	243.6	232.4	223.5	214.6	204.9	196.0	184.0	143.8	90.2	68.5
20°	271.1	258.5	248.1	236.9	224.3	212.3	201.1	190.7	140.8	82.7	62.6
22.5°	291.3	276.4	263.0	248.8	233.2	219.8	206.3	193.0	135.6	76.0	57.4
25°	315.8	298.7	279.4	262.3	245.8	229.4	212.3	196.0	130.4	70.0	53.6
27.5°	345.7	323.3	304.0	282.4	259.3	238.4	219.8	201.9	125.2	65.6	49.9
30°	383.7	357.6	330.0	302.5	277.9	254.0	227.9	205.6	119.9	61.1	46.2
32.5°	434.3	401.5	368.0	336.0	303.2	272.6	245.1	216.1	116.9	57.4	42.5
35°	501.4	458.9	417.9	377.7	338.2	301.0	265.2	232.4	116.9	52.9	38.0
37.5°	564.7	515.6	463.4	413.5	366.5	323.3	280.9	241.4	111.0	49.2	34.3
40°	633.2	574.4	513.3	454.4	397.9	344.2	295.8	250.3	105.8	44.7	30.5
42.5°	738.2	663.8	584.1	515.6	447.7	381.4	321.1	267.5	99.1	40.2	26.8
45°	876.1	781.4	687.7	604.2	517.7	436.6	365.0	298.7	97.6	36.5	23.1
47.5°	1023.6	911.8	801.6	695.0	593.8	499.1	413.5	333.7	97.6	32.8	20.2
50°	1170.4	1030.3	912.6	788.9	675.0	563.2	461.1	370.3	98.3	29.8	16.4
52.5°	1303.0	1153.3	1021.4	878.3	752.4	622.8	511.8	406.0	96.8	26.0	13.4
55°	1487.0	1311.2	1158.5	1000.5	853.0	707.0	581.1	459.7	97.6	23.1	11.2
57.5°	1826.0	1619.6	1435.6	1228.5	1058.6	870.1	717.4	569.9	106.6	19.4	8.2
60°	2312.4	2044.3	1785.7	1533.2	1317.2	1092.9	894.7	721.1	125.2	15.7	6.0
62.5°	2639.5	2288.6	1980.2	1701.5	1450.5	1215.8	999.8	802.3	137.8	12.7	3.7
63°	2673.0	2310.2	2000.3	1712.7	1456.4	1221.8	1004.2	808.3	138.5	11.9	3.7
65°	2736.3	2347.4	2011.4	1714.9	1450.5	1213.6	1001.2	807.6	140.0	9.7	3.0
67.5°	2664.1	2290.1	1946.6	1650.9	1398.3	1165.1	964.0	777.8	139.3	6.7	2.2
70°	2382.5	2072.6	1770.8	1495.1	1265.7	1054.9	877.6	709.2	128.1	4.5	1.5
72.5°	1749.2	1538.4	1304.5	1105.6	953.6	791.9	675.7	532.7	99.1	3.0	0.7
75°	518.5	472.3	397.1	350.2	309.2	255.5	227.2	177.3	50.6	1.5	0.0
77.5°	103.6	93.9	84.2	76.7	72.2	61.9	58.9	48.4	20.9	0.7	0.0
80°	54.4	44.7	38.0	33.5	29.0	23.8	20.2	16.4	3.7	0.0	0.0
82.5°	52.1	35.0	25.3	20.9	17.9	14.2	11.2	8.2	2.2	0.0	0.0
85°	19.4	14.9	11.2	8.9	7.4	6.7	5.2	4.5	0.0	0.0	0.0
87.5°	3.0	2.2	2.2	1.5	1.5	0.7	0.7	0.7	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: P165031

CATALOG NUMBER: VST-F03-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	157.2	157.2	157.2	157.2	157.2	157.2	157.2
2.5°	133.4	127.4	124.4	120.7	120.7	119.9	121.4
5°	111.0	102.8	96.8	92.4	93.1	90.9	91.7
7.5°	93.9	85.7	80.5	77.5	76.7	76.0	76.0
10°	81.2	73.7	69.2	67.0	66.3	66.3	66.3
12.5°	72.2	64.8	61.1	59.6	59.6	58.9	58.9
15°	64.8	58.9	55.1	53.6	53.6	52.9	53.6
17.5°	58.9	52.9	49.9	48.4	48.4	47.7	47.7
20°	53.6	48.4	45.5	43.2	43.2	42.5	43.2
22.5°	49.2	44.0	40.2	38.7	38.0	37.3	38.0
25°	44.7	39.5	35.8	33.5	32.8	32.8	32.0
27.5°	41.0	35.8	31.3	29.0	28.3	28.3	27.5
30°	37.3	31.3	26.8	24.5	23.8	23.8	23.8
32.5°	33.5	26.8	23.1	20.9	20.2	20.2	20.2
35°	29.8	23.1	19.4	17.2	16.4	16.4	16.4
37.5°	25.3	19.4	14.9	13.4	12.7	11.9	11.9
40°	21.6	14.9	11.2	9.7	8.2	8.2	8.2
42.5°	17.9	11.9	8.2	6.0	5.2	4.5	5.2
45°	14.9	8.9	5.2	3.0	2.2	2.2	2.2
47.5°	11.9	6.0	2.2	0.7	0.7	0.7	0.7
50°	8.9	3.7	0.7	0.0	0.0	0.7	0.7
52.5°	6.7	2.2	0.0	0.0	0.0	0.0	0.0
55°	3.7	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	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)