

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: P165271

Luminaire Tested: **VST-F05-LED-E-U-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165271
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-F05-LED-E-U-SL3-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6458.3 lumens
Efficiency: N/A
Efficacy: 48.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 133.3
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

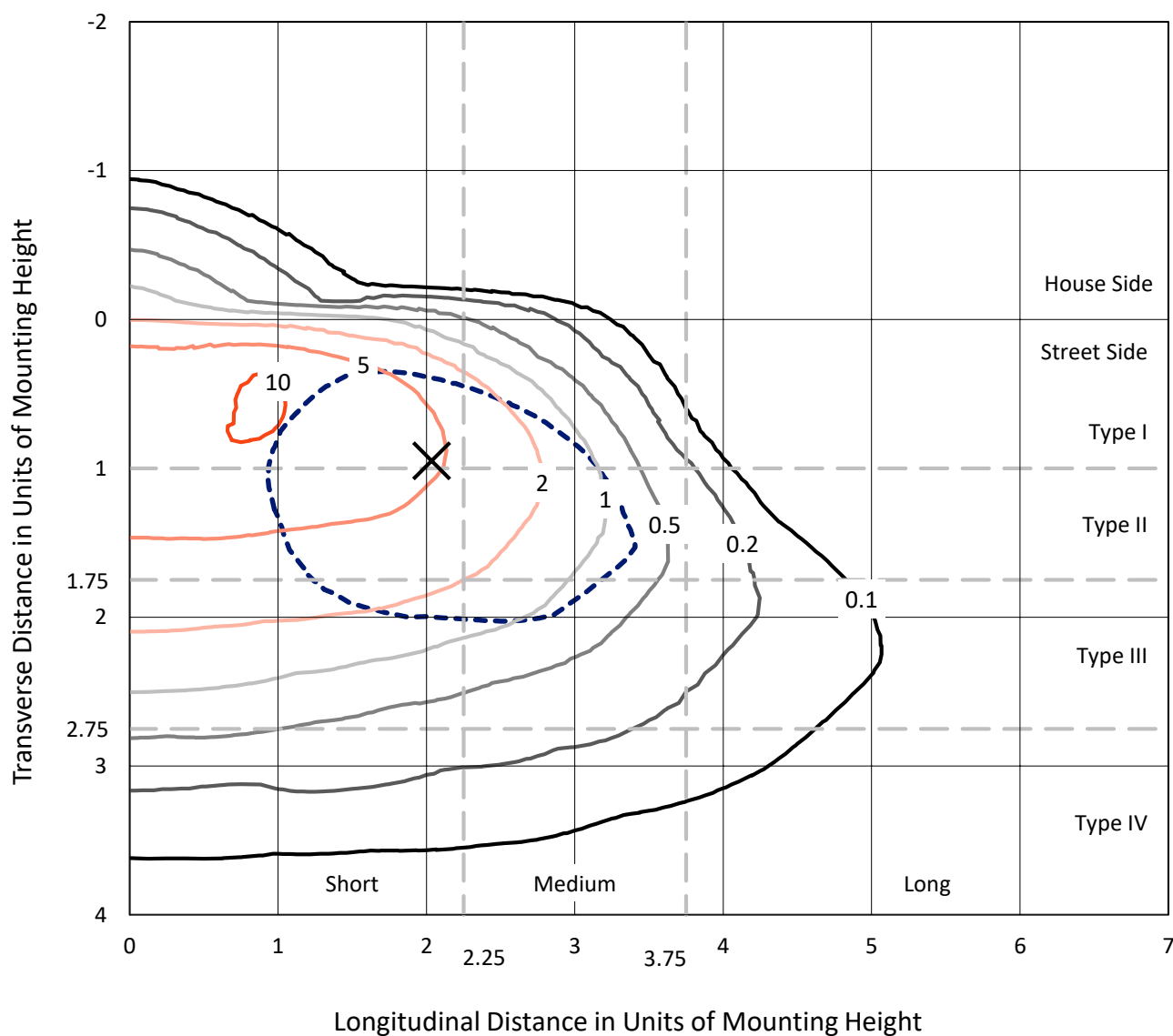


REPORT NUMBER: P165271

CATALOG NUMBER: VST-F05-LED-E-U-SL3-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

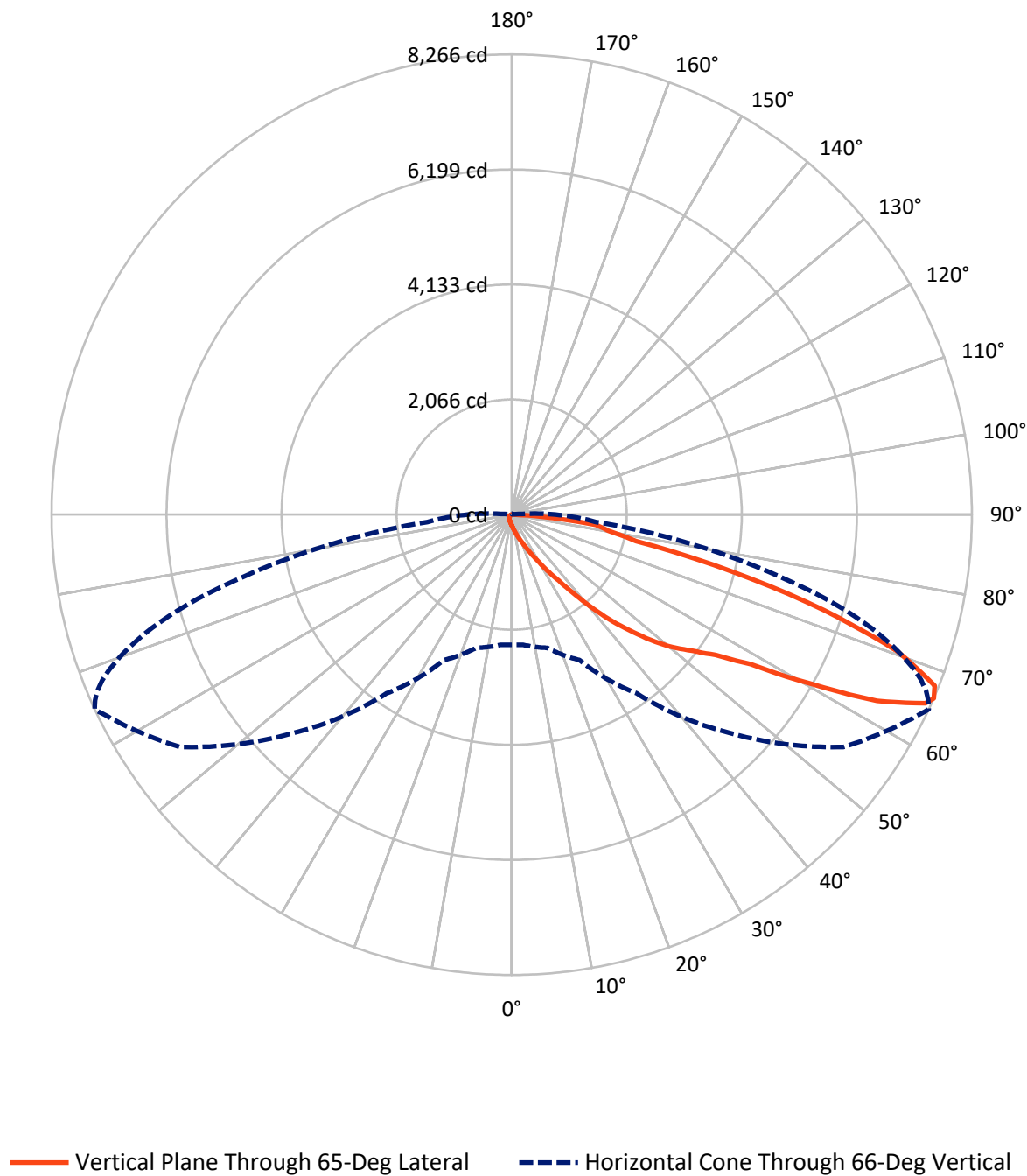


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
Type III - Short - Non-Cutoff

REPORT NUMBER: P165271

CATALOG NUMBER: VST-F05-LED-E-U-SL3-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P165271

CATALOG NUMBER: VST-F05-LED-E-U-SL3-HSS-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	140.0	0.0	140.0
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	6318.4	0.0	6318.4
	% Fixture	97.8	0.0	97.8
Total	Lumens	6458.3	0.0	6458.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	0.3
10°-20°	92.5	1.4
20°-30°	199.6	3.1
30°-40°	426.2	6.6
40°-50°	942.5	14.6
50°-60°	1597.3	24.7
60°-70°	2131.4	33.0
70°-80°	938.9	14.5
80°-90°	108.2	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°	6458.3	100.0
0°-180°	6458.3	100.0

Coefficient of Utilization



REPORT NUMBER: P165271

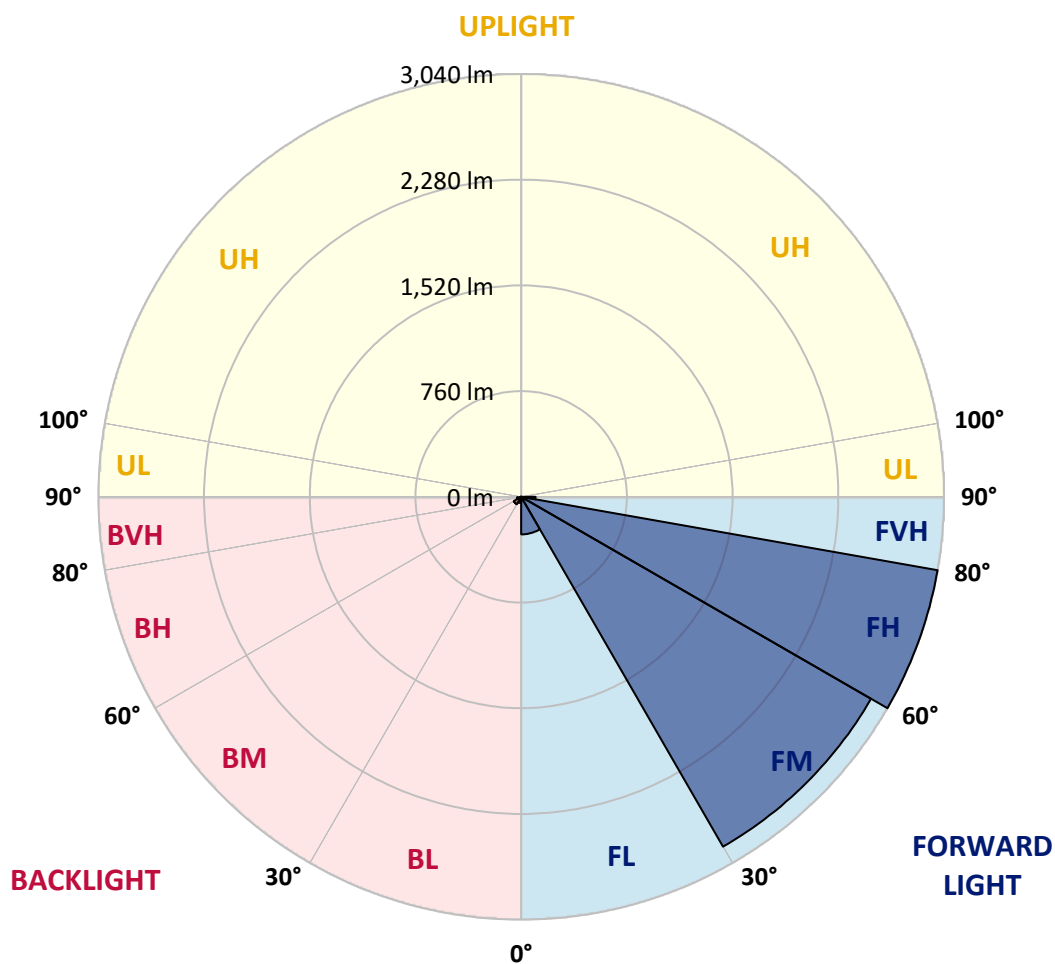
CATALOG NUMBER: VST-F05-LED-E-U-SL3-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.8	4.2			
FM	(30°-60°)	2904.5	45.0			
FH	(60°-80°)	3040.3	47.1			G2/5000
FVH	(80°-90°)	103.8	1.6			G2/225
BL	(0°-30°)	44.2	0.7	B0/110		
BM	(30°-60°)	61.5	1.0	B0/220		
BH	(60°-80°)	30.0	0.5	B0/110		G0/110
BVH	(80°-90°)	4.3	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: P165271

CATALOG NUMBER: VST-F05-LED-E-U-SL3-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9
2.5°	245.9	244.6	239.6	239.6	232.2	227.3	221.0	214.8	214.8	213.5	212.3
5°	325.3	317.9	316.6	303.0	291.8	275.7	260.7	240.9	238.4	235.9	234.6
7.5°	413.5	412.2	401.0	384.9	362.6	332.7	303.0	270.7	265.7	263.2	258.2
10°	527.7	521.5	506.6	479.2	445.8	406.0	357.6	306.6	300.5	295.5	293.0
12.5°	637.0	625.8	617.1	582.3	540.1	481.7	423.4	350.2	345.2	339.0	329.0
15°	738.8	728.8	714.0	684.2	637.0	563.7	495.4	406.0	393.6	384.9	377.4
17.5°	818.2	812.1	794.6	761.2	710.2	645.6	563.7	463.1	453.2	442.0	428.3
20°	894.0	885.3	858.0	812.1	757.4	707.7	644.4	537.6	524.0	510.3	495.4
22.5°	966.0	957.3	912.6	836.9	778.5	757.4	735.1	622.0	600.9	589.8	574.8
25°	1066.6	1048.0	978.4	858.0	779.8	795.9	834.4	731.3	711.5	695.3	671.7
27.5°	1201.9	1177.1	1067.8	889.0	784.7	838.1	948.6	864.2	843.0	824.4	798.4
30°	1354.6	1338.5	1208.1	963.5	820.7	900.2	1076.5	1033.0	1008.2	985.8	954.9
32.5°	1508.6	1486.3	1357.1	1105.1	917.5	1020.6	1236.7	1229.2	1197.0	1175.9	1142.3
35°	1643.9	1632.8	1537.2	1337.2	1138.6	1231.7	1450.2	1458.9	1430.4	1408.0	1370.8
37.5°	1735.8	1735.8	1717.2	1586.8	1490.0	1559.5	1764.3	1765.6	1737.1	1686.2	1667.5
40°	1783.0	1796.6	1863.7	1888.5	1883.6	1973.0	2176.6	2154.2	2130.6	2104.5	2042.5
42.5°	1879.9	1892.2	2035.0	2206.4	2318.2	2436.1	2576.4	2568.9	2540.4	2493.2	2436.1
45°	2043.8	2059.9	2230.0	2501.9	2731.6	2899.3	2988.6	2953.8	2925.3	2880.6	2850.8
47.5°	2252.3	2283.4	2475.8	2812.3	3089.2	3366.1	3459.2	3367.3	3342.5	3307.7	3259.3
50°	2474.6	2504.4	2709.2	3094.2	3407.1	3737.3	3892.6	3737.3	3701.4	3690.1	3635.5
52.5°	2667.0	2691.9	2889.3	3311.5	3650.4	4037.8	4263.8	4058.9	4032.8	3995.6	3955.8
55°	2781.3	2801.2	2986.1	3415.7	3815.6	4308.5	4622.7	4442.6	4404.1	4389.2	4332.1
57.5°	2819.8	2839.6	3006.0	3429.4	3904.9	4555.6	5058.5	5064.6	5018.7	4965.3	4947.9
60°	2819.8	2842.1	2982.4	3395.9	3991.9	4818.8	5639.5	6157.3	6058.0	6048.0	5984.7
62.5°	2703.1	2724.2	2865.7	3292.8	4108.6	5173.9	6449.1	7362.9	7334.4	7269.8	7165.5
65°	2449.7	2462.2	2601.2	3029.6	4063.9	5500.5	7150.6	8165.0	8119.1	7992.4	7858.3
66°	2335.5	2345.4	2475.8	2879.4	3917.4	5545.2	7274.8	8265.6	8189.9	8083.0	7931.6
67.5°	2170.4	2187.8	2279.6	2600.0	3566.0	5389.9	7196.6	8194.9	8129.0	7999.9	7848.4
70°	1449.0	1436.6	1760.7	1995.3	2716.7	4391.7	6456.5	7357.9	7359.2	7298.4	7237.5
72.5°	687.9	695.3	789.7	1228.0	1778.0	2934.0	5139.1	5872.9	5957.4	5848.1	5772.3
75°	494.2	505.3	562.5	751.2	1060.3	1760.7	3331.3	4107.3	4109.8	3916.1	3743.6
77.5°	144.0	150.3	211.0	463.1	794.6	1188.2	1913.3	2283.4	2230.0	2090.9	1960.5
80°	59.6	59.6	62.1	147.8	319.1	807.1	1338.5	1758.2	1752.0	1698.6	1621.6
82.5°	22.3	23.6	29.8	60.8	75.8	198.7	892.7	1526.0	1522.2	1446.5	1391.9
85°	2.5	2.5	7.5	26.1	28.6	37.2	178.8	672.9	669.2	672.9	589.8
87.5°	0.0	0.0	1.2	2.5	3.7	5.0	7.5	26.1	28.6	27.3	24.8
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: P165271

CATALOG NUMBER: VST-F05-LED-E-U-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9
2.5°	212.3	209.8	209.8	208.6	208.6	208.6	207.3	206.1	206.1	204.9	203.7
5°	232.2	229.7	228.5	226.0	224.8	223.5	221.0	219.8	217.3	216.0	214.8
7.5°	255.8	250.8	249.6	245.9	242.1	239.6	237.1	233.4	230.9	226.0	224.8
10°	285.6	279.4	274.4	269.4	265.7	259.5	255.8	250.8	245.9	242.1	238.4
12.5°	324.1	315.4	307.9	303.0	294.3	286.8	279.4	275.7	265.7	260.7	254.5
15°	366.3	356.3	347.7	337.7	331.5	319.1	309.1	298.0	293.0	284.3	274.4
17.5°	420.9	404.7	391.1	381.2	368.8	356.3	345.2	334.0	319.1	309.1	296.8
20°	479.2	465.6	447.0	429.6	414.7	399.8	383.6	368.8	355.1	339.0	324.1
22.5°	553.8	533.9	511.6	494.2	474.3	458.2	435.8	416.0	393.6	372.5	355.1
25°	648.1	622.0	600.9	576.1	552.5	527.7	500.4	475.5	447.0	427.1	397.4
27.5°	764.9	740.0	711.5	679.2	655.6	618.4	582.3	551.3	517.8	486.7	453.2
30°	913.8	877.9	848.0	817.0	769.8	733.8	691.6	649.4	603.4	572.4	521.5
32.5°	1092.6	1054.2	1009.4	964.7	921.3	870.4	818.2	766.1	715.2	658.1	605.9
35°	1311.2	1265.2	1214.3	1165.9	1098.9	1044.2	978.4	906.4	849.3	783.5	717.7
37.5°	1600.5	1524.7	1480.0	1429.1	1338.5	1264.0	1190.7	1118.7	1018.1	948.6	855.5
40°	1963.0	1918.3	1845.1	1763.1	1681.2	1583.1	1483.8	1388.2	1271.5	1174.6	1066.6
42.5°	2388.9	2323.1	2248.6	2130.6	2047.5	1932.0	1819.0	1692.3	1549.5	1425.4	1298.8
45°	2788.7	2710.5	2653.4	2535.5	2448.5	2311.9	2175.3	2041.3	1876.1	1715.9	1569.4
47.5°	3220.8	3156.2	3061.9	2966.3	2878.1	2724.2	2576.4	2413.8	2239.9	2050.0	1860.0
50°	3600.8	3549.9	3485.3	3369.8	3271.7	3142.6	2968.8	2791.2	2571.4	2382.7	2166.7
52.5°	3923.6	3883.8	3793.2	3711.2	3623.1	3501.4	3346.2	3176.1	2939.0	2731.6	2485.8
55°	4304.8	4276.2	4196.7	4145.8	4067.6	3950.9	3805.6	3648.0	3397.1	3171.1	2893.0
57.5°	4929.3	4907.0	4837.4	4816.3	4739.3	4637.5	4458.7	4289.8	3996.8	3716.2	3398.4
60°	5963.6	5918.9	5817.1	5765.0	5602.2	5465.7	5233.5	5001.3	4647.5	4289.8	3907.4
62.5°	7071.1	6945.7	6752.0	6585.7	6354.7	6117.5	5807.1	5452.1	5037.4	4612.7	4173.1
65°	7668.3	7454.8	7210.2	6945.7	6646.5	6297.6	5906.5	5480.6	5034.9	4586.6	4122.2
66°	7736.7	7495.8	7236.3	6942.0	6609.3	6238.0	5840.7	5393.7	4930.5	4493.5	4029.1
67.5°	7651.0	7398.9	7124.6	6798.0	6437.9	6053.0	5635.8	5171.4	4725.7	4282.4	3830.4
70°	7051.3	6800.4	6555.8	6211.9	5828.2	5440.9	5046.0	4527.1	4104.9	3697.6	3295.3
72.5°	5630.8	5460.7	5218.6	4924.3	4550.6	4096.1	3767.1	3302.8	2936.5	2541.6	2230.0
75°	3518.8	3279.2	2979.9	2605.0	2319.4	1950.6	1758.2	1405.5	1197.0	1014.4	838.1
77.5°	1799.1	1619.1	1409.3	1198.2	995.8	794.6	614.6	434.6	293.0	203.7	151.5
80°	1486.3	1327.3	1153.5	961.0	782.3	607.2	437.1	298.0	190.0	124.2	96.8
82.5°	1228.0	1093.9	938.6	759.9	604.7	476.8	331.5	216.0	134.1	86.9	68.3
85°	522.7	474.3	366.3	290.5	218.5	161.4	113.0	75.8	53.4	43.4	39.7
87.5°	22.3	24.8	23.6	18.6	13.6	13.6	12.4	10.0	10.0	10.0	10.0
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: P165271

CATALOG NUMBER: VST-F05-LED-E-U-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9
2.5°	203.7	202.4	201.2	201.2	199.9	198.7	191.2	185.0	177.6	172.6	167.6
5°	212.3	211.0	208.6	207.3	204.9	203.7	187.5	173.8	162.6	154.0	147.8
7.5°	221.0	219.8	216.0	212.3	211.0	208.6	182.5	165.1	150.3	140.3	134.1
10°	232.2	228.5	224.8	219.8	216.0	212.3	177.6	155.2	139.0	130.4	124.2
12.5°	248.3	242.1	235.9	229.7	224.8	218.5	175.1	146.5	130.4	120.4	114.2
15°	267.0	258.2	250.8	243.4	234.6	228.5	170.1	139.0	122.9	113.0	105.6
17.5°	284.3	274.4	263.2	252.1	243.4	234.6	165.1	131.6	115.4	105.6	98.1
20°	309.1	294.3	280.6	267.0	254.5	243.4	157.7	124.2	109.3	98.1	90.6
22.5°	336.5	319.1	301.7	283.1	267.0	252.1	151.5	117.9	103.1	91.9	83.2
25°	371.3	350.2	326.6	303.0	284.3	264.5	145.3	111.7	96.8	85.7	77.0
27.5°	419.7	389.9	363.8	334.0	305.4	283.1	140.3	106.8	90.6	79.5	70.8
30°	485.5	442.0	401.0	368.8	335.2	303.0	135.3	100.6	85.7	73.3	63.3
32.5°	558.7	507.8	460.6	412.2	370.0	332.7	130.4	95.6	79.5	67.0	58.4
35°	649.4	584.8	521.5	465.6	414.7	365.0	125.4	90.6	74.5	60.8	52.2
37.5°	779.8	699.0	615.9	543.9	478.0	412.2	121.7	85.7	68.3	54.7	45.9
40°	958.6	854.3	752.4	654.3	568.7	486.7	116.7	80.7	63.3	49.7	40.9
42.5°	1152.3	1025.6	891.5	781.0	663.1	560.0	111.7	75.8	58.4	44.7	36.0
45°	1393.2	1235.4	1072.8	922.5	778.5	645.6	106.8	70.8	52.2	39.7	31.1
47.5°	1656.4	1455.2	1271.5	1082.7	911.4	752.4	100.6	67.0	47.2	34.8	27.3
50°	1927.1	1714.7	1482.5	1267.7	1064.1	859.3	94.4	60.8	42.2	31.1	22.3
52.5°	2218.8	1968.0	1730.9	1463.9	1226.7	999.5	88.1	55.9	38.5	27.3	18.6
55°	2590.0	2309.5	2031.3	1732.1	1446.5	1162.2	82.0	49.7	33.6	23.6	14.9
57.5°	3056.9	2724.2	2382.7	2045.0	1698.6	1375.7	77.0	43.4	28.6	19.8	12.4
60°	3497.7	3109.1	2695.6	2307.0	1915.8	1539.7	69.5	38.5	24.8	16.1	12.4
62.5°	3726.2	3282.9	2837.1	2408.8	1991.6	1598.0	62.1	32.3	21.1	13.6	11.2
65°	3670.3	3218.3	2786.2	2354.1	1945.7	1560.8	54.7	28.6	18.6	12.4	11.2
66°	3589.6	3142.6	2708.0	2297.0	1907.2	1521.0	50.9	27.3	17.4	12.4	10.0
67.5°	3413.3	2981.1	2566.4	2184.0	1801.6	1445.3	45.9	24.8	16.1	11.2	10.0
70°	2915.4	2523.0	2191.5	1851.3	1539.7	1218.1	37.2	21.1	13.6	10.0	10.0
72.5°	1929.5	1662.6	1441.6	1240.4	1036.7	804.6	31.1	17.4	11.2	10.0	8.7
75°	727.6	658.1	565.0	507.8	443.3	388.6	24.8	11.2	8.7	8.7	8.7
77.5°	129.2	119.2	105.6	96.8	89.4	82.0	19.8	7.5	7.5	8.7	8.7
80°	86.9	80.7	73.3	67.0	62.1	55.9	13.6	6.2	7.5	7.5	8.7
82.5°	62.1	58.4	54.7	49.7	45.9	40.9	8.7	6.2	7.5	7.5	7.5
85°	37.2	34.8	32.3	29.8	26.1	24.8	6.2	6.2	6.2	7.5	7.5
87.5°	10.0	8.7	10.0	10.0	7.5	8.7	5.0	5.0	5.0	6.2	6.2
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: P165271

CATALOG NUMBER: VST-F05-LED-E-U-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	194.9	194.9	194.9	194.9	194.9
2.5°	165.1	165.1	162.6	166.4	166.4
5°	142.8	142.8	141.5	142.8	142.8
7.5°	130.4	129.2	129.2	129.2	130.4
10°	119.2	117.9	117.9	117.9	117.9
12.5°	109.3	108.0	106.8	108.0	108.0
15°	100.6	98.1	98.1	98.1	98.1
17.5°	93.1	90.6	89.4	89.4	89.4
20°	85.7	82.0	82.0	82.0	82.0
22.5°	78.2	74.5	74.5	74.5	74.5
25°	70.8	67.0	67.0	67.0	67.0
27.5°	64.5	60.8	60.8	60.8	60.8
30°	57.2	54.7	54.7	55.9	54.7
32.5°	52.2	48.4	48.4	49.7	49.7
35°	45.9	43.4	43.4	43.4	43.4
37.5°	39.7	37.2	37.2	37.2	37.2
40°	34.8	32.3	31.1	32.3	32.3
42.5°	29.8	27.3	26.1	26.1	26.1
45°	26.1	22.3	21.1	22.3	22.3
47.5°	21.1	18.6	18.6	19.8	19.8
50°	16.1	16.1	17.4	19.8	19.8
52.5°	14.9	14.9	17.4	19.8	19.8
55°	13.6	14.9	17.4	18.6	19.8
57.5°	12.4	14.9	17.4	18.6	18.6
60°	12.4	13.6	16.1	18.6	18.6
62.5°	11.2	12.4	14.9	17.4	17.4
65°	11.2	12.4	14.9	17.4	17.4
66°	11.2	12.4	14.9	17.4	17.4
67.5°	11.2	12.4	14.9	17.4	17.4
70°	11.2	12.4	14.9	16.1	16.1
72.5°	10.0	11.2	13.6	16.1	16.1
75°	10.0	11.2	13.6	16.1	16.1
77.5°	10.0	11.2	13.6	16.1	16.1
80°	10.0	11.2	13.6	14.9	16.1
82.5°	8.7	11.2	12.4	14.9	14.9
85°	8.7	10.0	12.4	13.6	14.9
87.5°	7.5	8.7	10.0	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)