

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: P165290

Luminaire Tested: **VST-F07-LED-E-U-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165290
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-F07-LED-E-U-SL3-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8355.1 lumens
Efficiency: N/A
Efficacy: 46.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 180.5
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



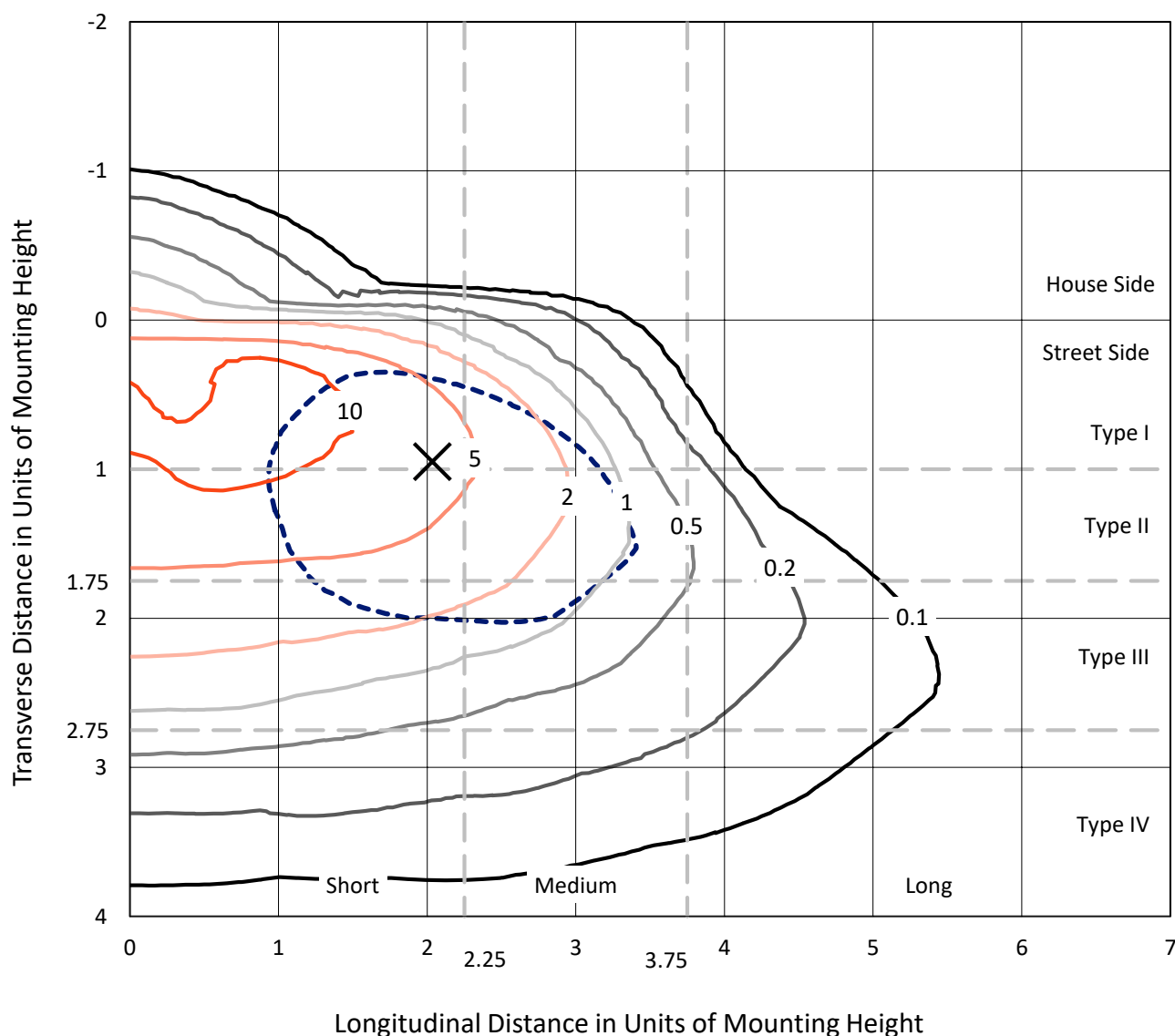
REPORT NUMBER: P165290

CATALOG NUMBER: VST-F07-LED-E-U-SL3-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

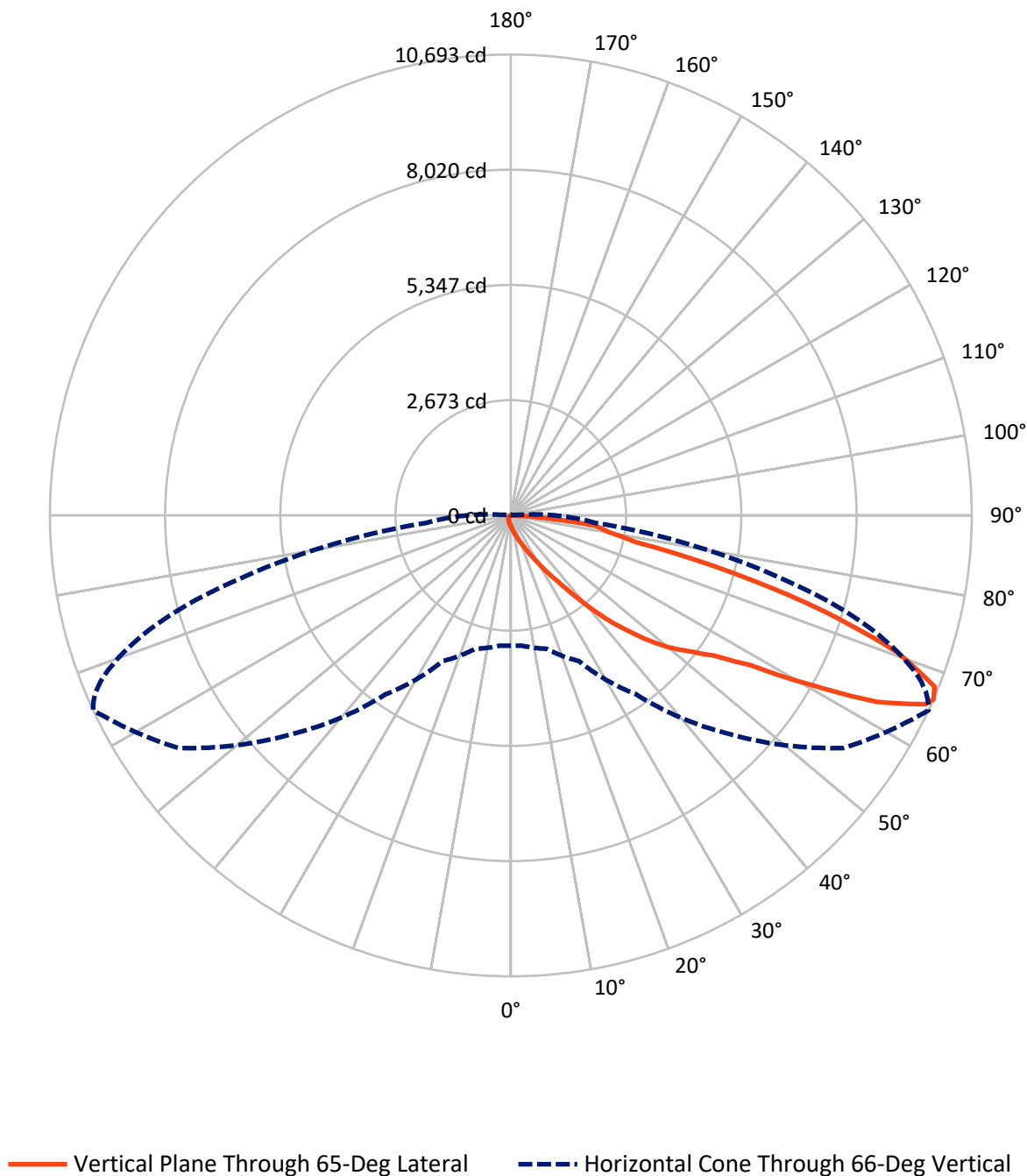


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P165290

CATALOG NUMBER: VST-F07-LED-E-U-SL3-HSS-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P165290

CATALOG NUMBER: VST-F07-LED-E-U-SL3-HSS-8030

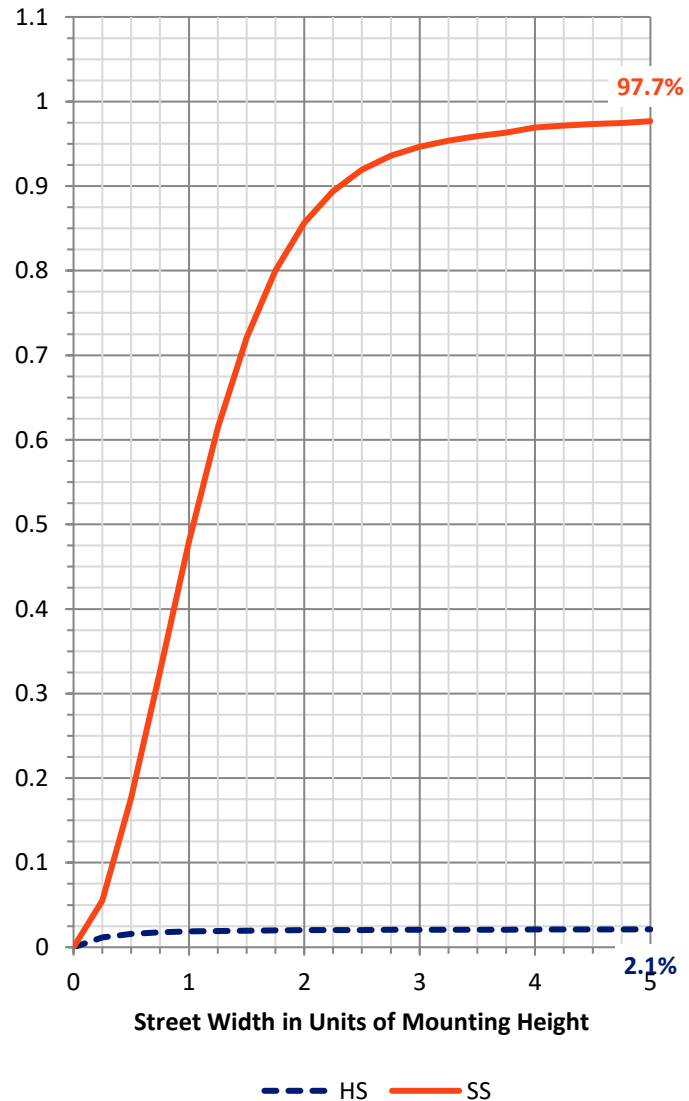
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	181.1	0.0	181.1
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	8174.0	0.0	8174.0
	% Fixture	97.8	0.0	97.8
Total	Lumens	8355.1	0.0	8355.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	0.3
10°-20°	119.7	1.4
20°-30°	258.2	3.1
30°-40°	551.4	6.6
40°-50°	1219.3	14.6
50°-60°	2066.4	24.7
60°-70°	2757.4	33.0
70°-80°	1214.6	14.5
80°-90°	139.9	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°	8355.1	100.0
0°-180°	8355.1	100.0

Coefficient of Utilization



REPORT NUMBER: P165290

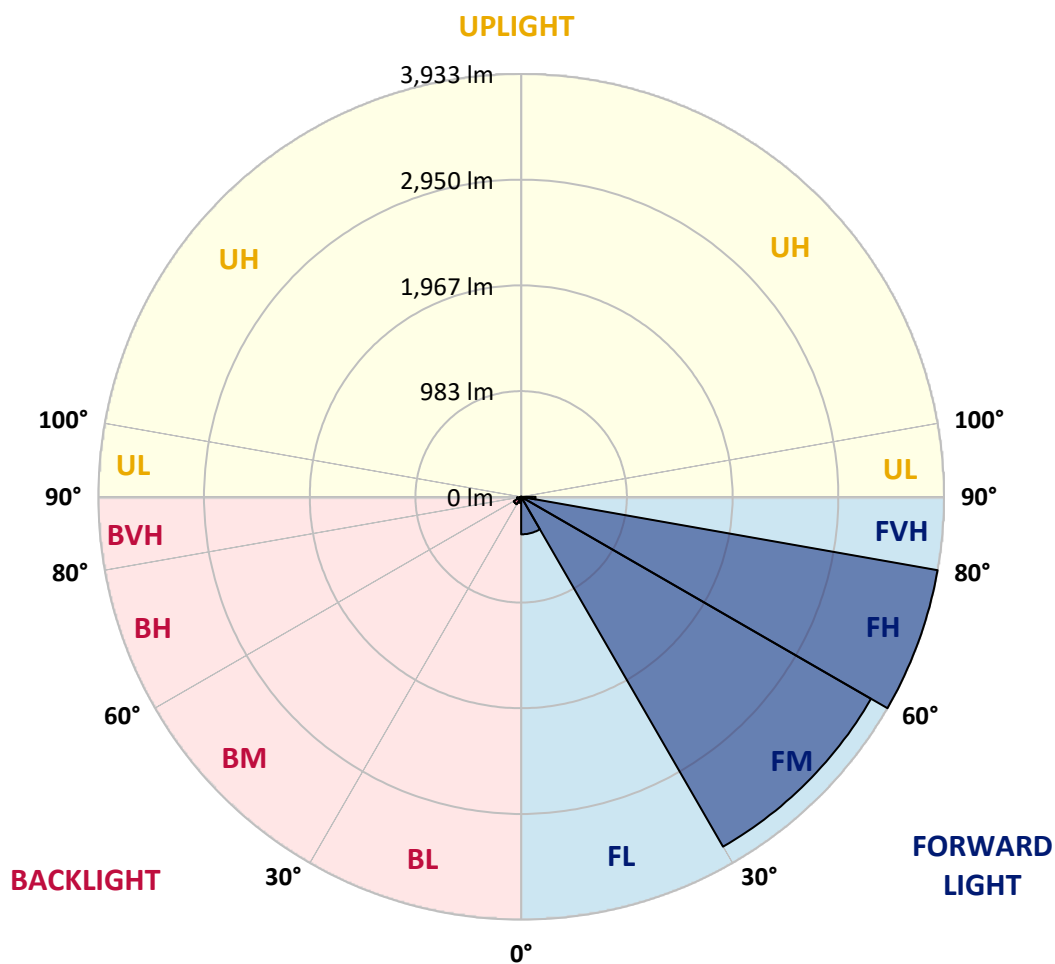
CATALOG NUMBER: VST-F07-LED-E-U-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.0	4.2			
FM	(30°-60°)	3757.5	45.0			
FH	(60°-80°)	3933.1	47.1			G2/5000
FVH	(80°-90°)	134.3	1.6			G2/225
BL	(0°-30°)	57.1	0.7	B0/110		
BM	(30°-60°)	79.5	1.0	B0/220		
BH	(60°-80°)	38.8	0.5	B0/110		G0/110
BVH	(80°-90°)	5.6	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-G2

Type III Short





REPORT NUMBER: P165290

CATALOG NUMBER: VST-F07-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1
2.5°	318.1	316.4	310.0	310.0	300.3	294.0	285.9	277.9	277.9	276.2	274.7
5°	420.8	411.2	409.6	391.9	377.5	356.6	337.3	311.6	308.4	305.2	303.6
7.5°	534.9	533.3	518.8	498.0	469.1	430.5	391.9	350.2	343.7	340.5	334.1
10°	682.7	674.6	655.4	620.0	576.7	525.3	462.6	396.7	388.7	382.3	379.1
12.5°	824.0	809.6	798.3	753.3	698.7	623.2	547.7	453.0	446.6	438.6	425.7
15°	955.7	942.9	923.6	885.1	824.0	729.2	641.0	525.3	509.2	498.0	488.3
17.5°	1058.5	1050.5	1028.0	984.7	918.8	835.3	729.2	599.1	586.3	571.8	554.1
20°	1156.6	1145.3	1109.9	1050.5	979.8	915.5	833.7	695.5	677.8	660.2	641.0
22.5°	1249.7	1238.4	1180.7	1082.6	1007.1	979.8	950.9	804.7	777.4	763.0	743.7
25°	1379.8	1355.7	1265.7	1109.9	1008.8	1029.7	1079.4	946.1	920.4	899.5	869.0
27.5°	1554.9	1522.7	1381.4	1150.1	1015.1	1084.3	1227.2	1117.9	1090.6	1066.5	1032.9
30°	1752.5	1731.6	1562.9	1246.5	1061.8	1164.6	1392.6	1336.4	1304.3	1275.4	1235.3
32.5°	1951.6	1922.8	1755.7	1429.6	1187.0	1320.3	1599.9	1590.2	1548.5	1521.2	1477.8
35°	2126.7	2112.3	1988.6	1729.9	1473.0	1593.5	1876.1	1887.4	1850.5	1821.5	1773.3
37.5°	2245.6	2245.6	2221.5	2052.8	1927.5	2017.5	2282.5	2284.2	2247.2	2181.4	2157.3
40°	2306.6	2324.3	2411.1	2443.2	2436.7	2552.4	2815.9	2786.9	2756.4	2722.6	2642.3
42.5°	2431.9	2447.9	2632.7	2854.4	2999.0	3151.5	3333.0	3323.4	3286.5	3225.5	3151.5
45°	2644.0	2664.9	2884.9	3236.7	3533.8	3750.7	3866.3	3821.3	3784.4	3726.6	3688.0
47.5°	2913.8	2954.0	3202.9	3638.3	3996.4	4354.6	4475.1	4356.3	4324.2	4279.1	4216.5
50°	3201.4	3239.9	3504.9	4002.9	4407.7	4834.9	5035.8	4834.9	4788.4	4773.9	4703.2
52.5°	3450.3	3482.5	3737.8	4284.0	4722.4	5223.6	5516.0	5250.9	5217.2	5169.0	5117.6
55°	3598.1	3623.8	3863.1	4418.9	4936.2	5573.8	5980.3	5747.3	5697.5	5678.3	5604.3
57.5°	3647.9	3673.6	3888.8	4436.5	5051.8	5893.4	6544.1	6552.1	6492.7	6423.6	6401.1
60°	3647.9	3676.8	3858.3	4393.2	5164.2	6234.0	7295.7	7965.6	7837.1	7824.2	7742.3
62.5°	3496.9	3524.2	3707.3	4259.9	5315.2	6693.4	8343.0	9525.3	9488.4	9404.8	9269.9
65°	3169.2	3185.3	3365.1	3919.4	5257.4	7115.9	9250.6	10562.9	10503.5	10339.7	10166.2
66°	3021.4	3034.3	3202.9	3725.0	5067.8	7173.7	9411.2	10693.1	10595.1	10456.9	10260.9
67.5°	2807.8	2830.3	2949.1	3363.6	4613.3	6972.9	9310.1	10601.6	10516.4	10349.3	10153.3
70°	1874.6	1858.5	2277.7	2581.3	3514.6	5681.5	8352.7	9518.8	9520.5	9441.8	9363.1
72.5°	889.9	899.5	1021.6	1588.6	2300.2	3795.7	6648.4	7597.7	7707.0	7565.6	7467.6
75°	639.3	653.7	727.7	971.8	1371.7	2277.7	4309.6	5313.6	5316.8	5066.2	4843.0
77.5°	186.3	194.4	273.0	599.1	1028.0	1537.2	2475.3	2954.0	2884.9	2705.0	2536.3
80°	77.1	77.1	80.3	191.2	412.8	1044.1	1731.6	2274.5	2266.5	2197.4	2097.9
82.5°	28.9	30.5	38.5	78.7	98.0	257.0	1154.9	1974.2	1969.3	1871.4	1800.6
85°	3.2	3.2	9.7	33.7	37.0	48.2	231.3	870.6	865.8	870.6	763.0
87.5°	0.0	0.0	1.6	3.2	4.8	6.4	9.7	33.7	37.0	35.3	32.1
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: P165290

CATALOG NUMBER: VST-F07-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1
2.5°	274.7	271.5	271.5	269.9	269.9	269.9	268.2	266.7	266.7	265.0	263.5
5°	300.3	297.1	295.6	292.3	290.8	289.1	285.9	284.3	281.1	279.5	277.9
7.5°	330.9	324.4	322.9	318.1	313.2	310.0	306.8	302.0	298.8	292.3	290.8
10°	369.5	361.4	355.0	348.5	343.7	335.7	330.9	324.4	318.1	313.2	308.4
12.5°	419.2	408.0	398.4	391.9	380.7	371.1	361.4	356.6	343.7	337.3	329.3
15°	473.9	461.0	449.8	436.9	428.9	412.8	399.9	385.5	379.1	367.8	355.0
17.5°	544.5	523.6	506.0	493.2	477.1	461.0	446.6	432.1	412.8	399.9	383.9
20°	620.0	602.3	578.2	555.8	536.5	517.3	496.3	477.1	459.4	438.6	419.2
22.5°	716.5	690.7	661.8	639.3	613.6	592.8	563.8	538.1	509.2	481.9	459.4
25°	838.5	804.7	777.4	745.3	714.8	682.7	647.3	615.2	578.2	552.6	514.1
27.5°	989.5	957.4	920.4	878.7	848.1	799.9	753.3	713.2	669.8	629.6	586.3
30°	1182.2	1135.7	1097.1	1057.0	995.9	949.3	894.7	840.1	780.6	740.5	674.6
32.5°	1413.5	1363.7	1305.9	1248.1	1191.9	1126.0	1058.5	991.0	925.2	851.4	783.9
35°	1696.3	1636.8	1570.9	1508.3	1421.6	1350.9	1265.7	1172.6	1098.7	1013.6	928.4
37.5°	2070.5	1972.5	1914.7	1848.8	1731.6	1635.2	1540.4	1447.2	1317.1	1227.2	1106.7
40°	2539.5	2481.7	2387.0	2280.9	2174.9	2048.0	1919.5	1795.9	1644.9	1519.5	1379.8
42.5°	3090.5	3005.4	2909.0	2756.4	2648.8	2499.3	2353.2	2189.4	2004.6	1844.0	1680.2
45°	3607.7	3506.6	3432.6	3280.1	3167.6	2990.9	2814.2	2640.8	2427.1	2219.9	2030.4
47.5°	4166.7	4083.1	3961.1	3837.4	3723.4	3524.2	3333.0	3122.6	2897.7	2652.0	2406.2
50°	4658.3	4592.4	4508.8	4359.5	4232.6	4065.5	3840.7	3610.9	3326.6	3082.5	2803.0
52.5°	5075.8	5024.4	4907.2	4801.2	4687.1	4529.7	4329.0	4108.9	3802.1	3533.8	3215.8
55°	5569.0	5532.1	5429.2	5363.4	5262.2	5111.3	4923.3	4719.3	4394.8	4102.5	3742.6
57.5°	6377.0	6348.1	6258.1	6230.8	6131.2	5999.5	5768.2	5549.7	5170.7	4807.6	4396.5
60°	7715.0	7657.2	7525.4	7458.0	7247.5	7070.9	6770.6	6470.1	6012.4	5549.7	5055.0
62.5°	9147.8	8985.6	8735.0	8519.8	8221.0	7914.1	7512.6	7053.2	6516.7	5967.4	5398.7
65°	9920.4	9644.2	9327.7	8985.6	8598.5	8147.1	7641.1	7090.2	6513.5	5933.6	5332.9
66°	10008.8	9697.1	9361.5	8980.8	8550.3	8070.0	7556.0	6977.7	6378.5	5813.2	5212.4
67.5°	9898.0	9571.9	9216.9	8794.5	8328.6	7830.7	7290.9	6690.2	6113.5	5540.1	4955.4
70°	9122.1	8797.6	8481.2	8036.3	7539.9	7038.8	6528.0	5856.6	5310.4	4783.5	4263.1
72.5°	7284.5	7064.5	6751.2	6370.5	5887.0	5299.1	4873.4	4272.8	3798.9	3288.1	2884.9
75°	4552.2	4242.2	3855.1	3370.0	3000.5	2523.4	2274.5	1818.3	1548.5	1312.3	1084.3
77.5°	2327.5	2094.6	1823.2	1550.1	1288.3	1028.0	795.1	562.2	379.1	263.5	196.0
80°	1922.8	1717.1	1492.2	1243.3	1012.0	785.5	565.5	385.5	245.8	160.7	125.2
82.5°	1588.6	1415.2	1214.3	983.0	782.3	616.9	428.9	279.5	173.4	112.5	88.4
85°	676.3	613.6	473.9	375.8	282.7	208.8	146.2	98.0	69.1	56.2	51.4
87.5°	28.9	32.1	30.5	24.1	17.7	17.7	16.1	12.9	12.9	12.9	12.9
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: P165290

CATALOG NUMBER: VST-F07-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1	252.1
2.5°	263.5	261.8	260.2	260.2	258.6	257.0	247.4	239.4	229.7	223.3	216.8
5°	274.7	273.0	269.9	268.2	265.0	263.5	242.6	224.8	210.4	199.2	191.2
7.5°	285.9	284.3	279.5	274.7	273.0	269.9	236.2	213.6	194.4	181.5	173.4
10°	300.3	295.6	290.8	284.3	279.5	274.7	229.7	200.7	179.9	168.7	160.7
12.5°	321.2	313.2	305.2	297.1	290.8	282.7	226.5	189.5	168.7	155.8	147.8
15°	345.4	334.1	324.4	314.9	303.6	295.6	220.1	179.9	159.0	146.2	136.6
17.5°	367.8	355.0	340.5	326.1	314.9	303.6	213.6	170.3	149.3	136.6	126.9
20°	399.9	380.7	363.1	345.4	329.3	314.9	204.0	160.7	141.3	126.9	117.2
22.5°	435.3	412.8	390.4	366.3	345.4	326.1	196.0	152.6	133.3	118.9	107.6
25°	480.3	453.0	422.5	391.9	367.8	342.2	188.0	144.6	125.2	110.8	99.6
27.5°	542.9	504.4	470.6	432.1	395.1	366.3	181.5	138.1	117.2	102.8	91.6
30°	628.1	571.8	518.8	477.1	433.7	391.9	175.1	130.1	110.8	94.8	81.9
32.5°	722.8	657.0	595.9	533.3	478.6	430.5	168.7	123.7	102.8	86.7	75.5
35°	840.1	756.5	674.6	602.3	536.5	472.2	162.2	117.2	96.4	78.7	67.5
37.5°	1008.8	904.3	796.7	703.6	618.4	533.3	157.4	110.8	88.4	70.7	59.4
40°	1240.1	1105.2	973.4	846.5	735.7	629.6	151.0	104.4	81.9	64.3	53.0
42.5°	1490.7	1326.8	1153.3	1010.4	857.8	724.5	144.6	98.0	75.5	57.8	46.6
45°	1802.3	1598.2	1387.8	1193.4	1007.1	835.3	138.1	91.6	67.5	51.4	40.2
47.5°	2142.8	1882.6	1644.9	1400.7	1179.0	973.4	130.1	86.7	61.1	45.0	35.3
50°	2493.0	2218.3	1917.9	1640.0	1376.6	1111.6	122.1	78.7	54.6	40.2	28.9
52.5°	2870.4	2546.0	2239.2	1893.8	1587.0	1293.0	114.0	72.3	49.7	35.3	24.1
55°	3350.7	2987.7	2627.9	2240.8	1871.4	1503.5	106.0	64.3	43.4	30.5	19.3
57.5°	3954.7	3524.2	3082.5	2645.6	2197.4	1779.8	99.6	56.2	37.0	25.7	16.1
60°	4524.9	4022.2	3487.3	2984.5	2478.5	1991.8	89.9	49.7	32.1	20.9	16.1
62.5°	4820.5	4247.0	3670.3	3116.2	2576.5	2067.3	80.3	41.7	27.3	17.7	14.4
65°	4748.2	4163.5	3604.5	3045.5	2517.1	2019.1	70.7	37.0	24.1	16.1	14.4
66°	4643.8	4065.5	3503.4	2971.6	2467.3	1967.7	65.8	35.3	22.5	16.1	12.9
67.5°	4415.7	3856.7	3320.2	2825.4	2330.7	1869.7	59.4	32.1	20.9	14.4	12.9
70°	3771.6	3264.0	2835.1	2395.0	1991.8	1575.8	48.2	27.3	17.7	12.9	12.9
72.5°	2496.1	2150.8	1864.9	1604.7	1341.2	1040.9	40.2	22.5	14.4	12.9	11.2
75°	941.3	851.4	730.9	657.0	573.5	502.7	32.1	14.4	11.2	11.2	11.2
77.5°	167.1	154.2	136.6	125.2	115.7	106.0	25.7	9.7	9.7	11.2	11.2
80°	112.5	104.4	94.8	86.7	80.3	72.3	17.7	8.0	9.7	9.7	11.2
82.5°	80.3	75.5	70.7	64.3	59.4	53.0	11.2	8.0	9.7	9.7	9.7
85°	48.2	45.0	41.7	38.5	33.7	32.1	8.0	8.0	8.0	9.7	9.7
87.5°	12.9	11.2	12.9	12.9	9.7	11.2	6.4	6.4	6.4	8.0	8.0
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: P165290

CATALOG NUMBER: VST-F07-LED-E-U-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	252.1	252.1	252.1	252.1	252.1
2.5°	213.6	213.6	210.4	215.3	215.3
5°	184.7	184.7	183.1	184.7	184.7
7.5°	168.7	167.1	167.1	167.1	168.7
10°	154.2	152.6	152.6	152.6	152.6
12.5°	141.3	139.8	138.1	139.8	139.8
15°	130.1	126.9	126.9	126.9	126.9
17.5°	120.5	117.2	115.7	115.7	115.7
20°	110.8	106.0	106.0	106.0	106.0
22.5°	101.2	96.4	96.4	96.4	96.4
25°	91.6	86.7	86.7	86.7	86.7
27.5°	83.5	78.7	78.7	78.7	78.7
30°	73.9	70.7	70.7	72.3	70.7
32.5°	67.5	62.6	62.6	64.3	64.3
35°	59.4	56.2	56.2	56.2	56.2
37.5°	51.4	48.2	48.2	48.2	48.2
40°	45.0	41.7	40.2	41.7	41.7
42.5°	38.5	35.3	33.7	33.7	33.7
45°	33.7	28.9	27.3	28.9	28.9
47.5°	27.3	24.1	24.1	25.7	25.7
50°	20.9	20.9	22.5	25.7	25.7
52.5°	19.3	19.3	22.5	25.7	25.7
55°	17.7	19.3	22.5	24.1	25.7
57.5°	16.1	19.3	22.5	24.1	24.1
60°	16.1	17.7	20.9	24.1	24.1
62.5°	14.4	16.1	19.3	22.5	22.5
65°	14.4	16.1	19.3	22.5	22.5
66°	14.4	16.1	19.3	22.5	22.5
67.5°	14.4	16.1	19.3	22.5	22.5
70°	14.4	16.1	19.3	20.9	20.9
72.5°	12.9	14.4	17.7	20.9	20.9
75°	12.9	14.4	17.7	20.9	20.9
77.5°	12.9	14.4	17.7	20.9	20.9
80°	12.9	14.4	17.7	19.3	20.9
82.5°	11.2	14.4	16.1	19.3	19.3
85°	11.2	12.9	16.1	17.7	19.3
87.5°	9.7	11.2	12.9	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)