

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: P165282

Luminaire Tested: **VST-F06-LED-E-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165282
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-F06-LED-E-U-SL3-HSS
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8485.2 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 156.5
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



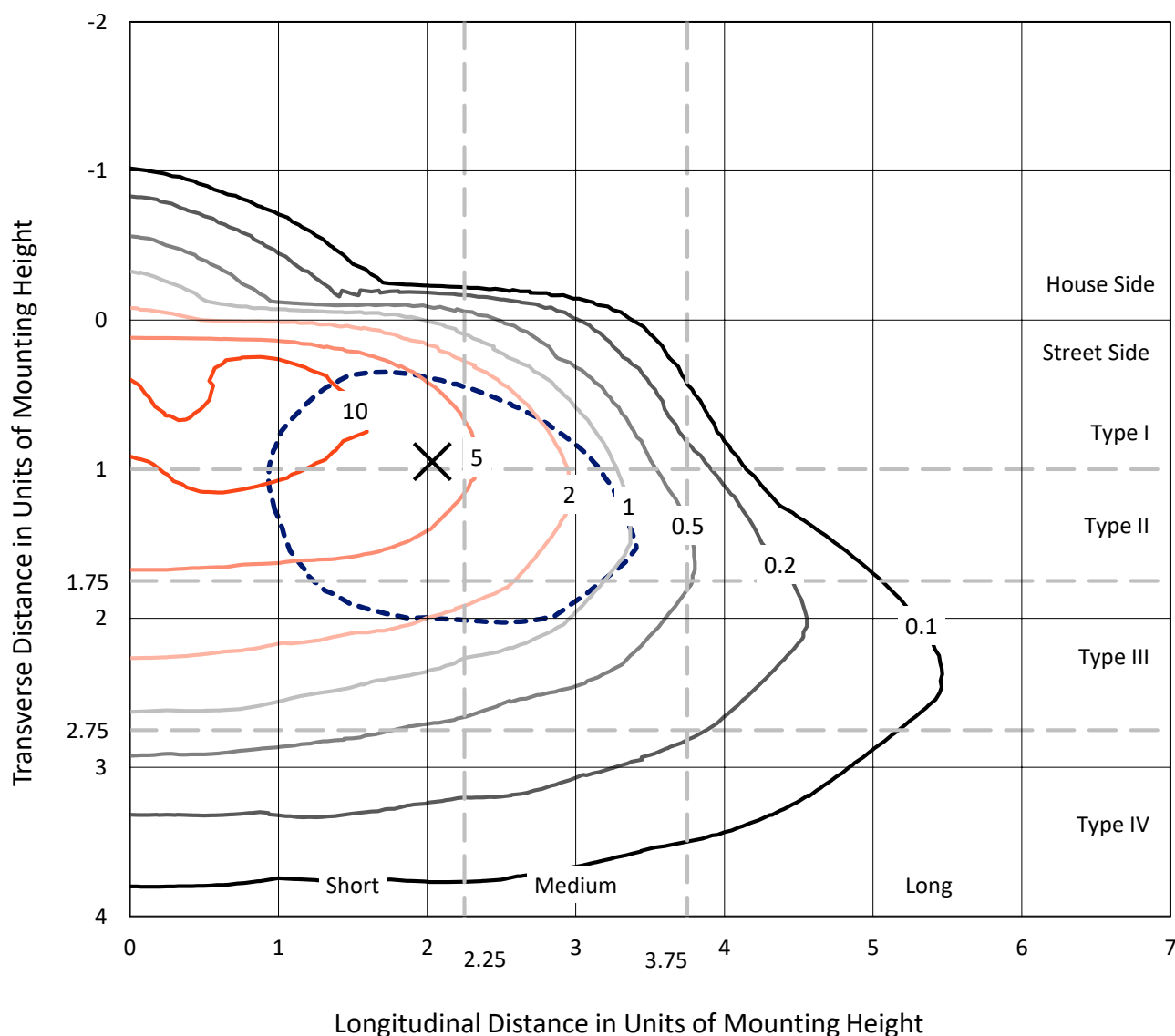
REPORT NUMBER: P165282

CATALOG NUMBER: VST-F06-LED-E-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

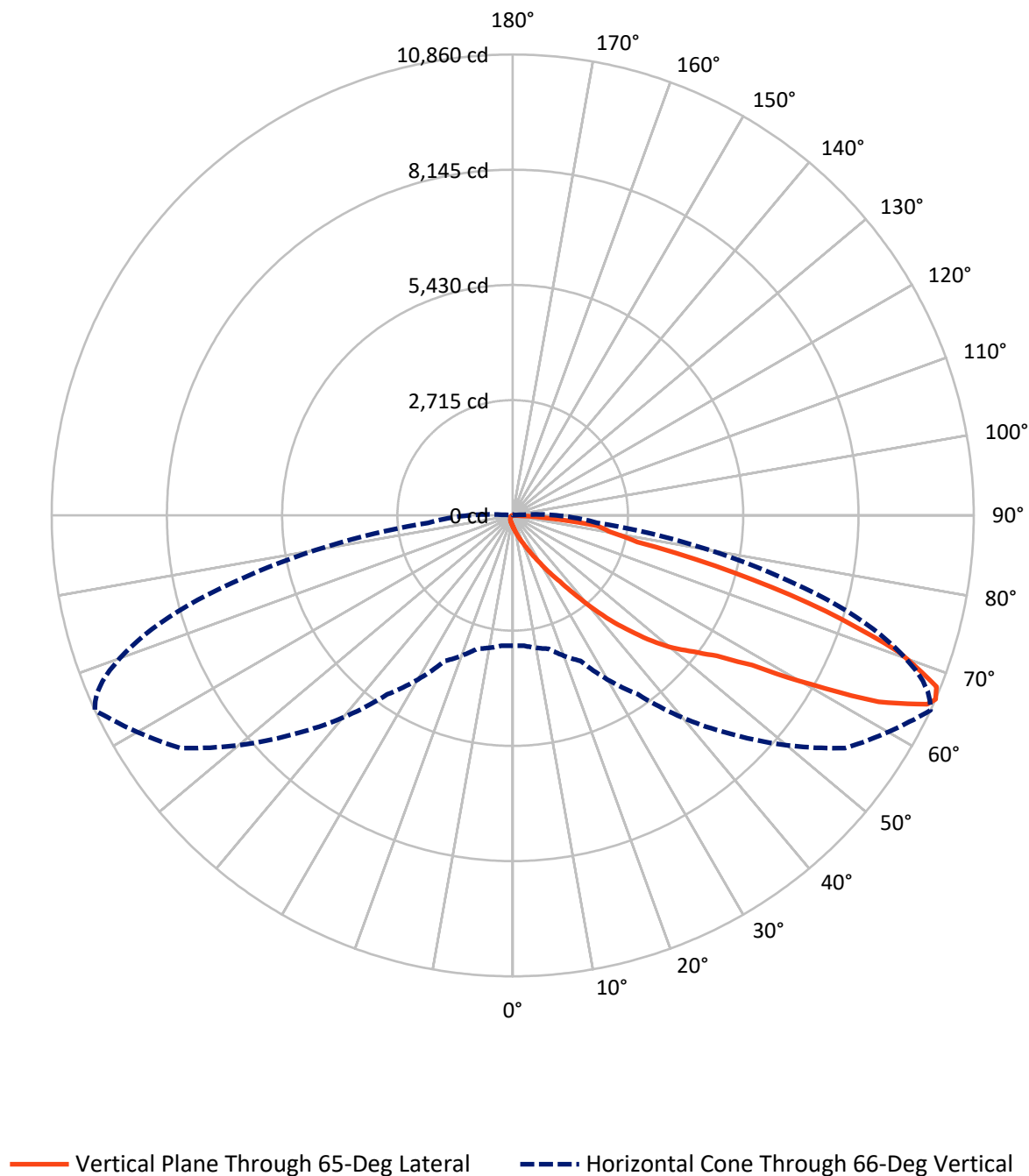


Based on 10 foot mounting height. Maximum calculated value = 14 fc
Type III - Short - Non-Cutoff

REPORT NUMBER: P165282

CATALOG NUMBER: VST-F06-LED-E-U-SL3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P165282

CATALOG NUMBER: VST-F06-LED-E-U-SL3-HSS

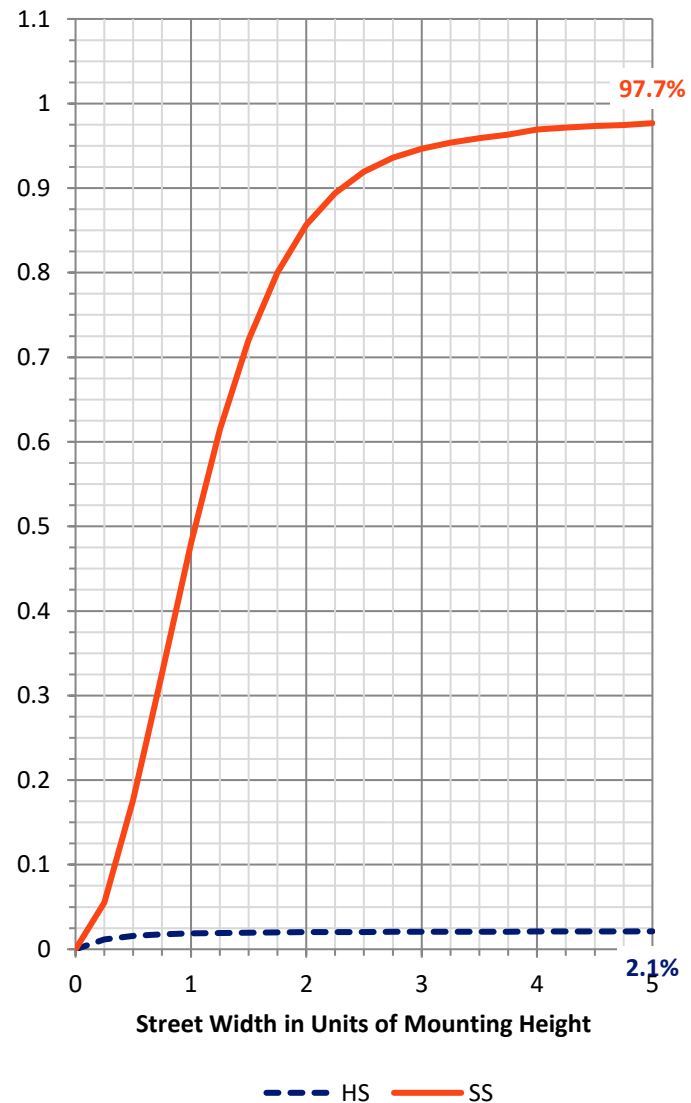
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	183.9	0.0	183.9
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	8301.4	0.0	8301.4
	% Fixture	97.8	0.0	97.8
Total	Lumens	8485.2	0.0	8485.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.3
10°-20°	121.6	1.4
20°-30°	262.2	3.1
30°-40°	559.9	6.6
40°-50°	1238.3	14.6
50°-60°	2098.6	24.7
60°-70°	2800.4	33.0
70°-80°	1233.5	14.5
80°-90°	142.1	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°	8485.2	100.0
0°-180°	8485.2	100.0

Coefficient of Utilization



REPORT NUMBER: P165282

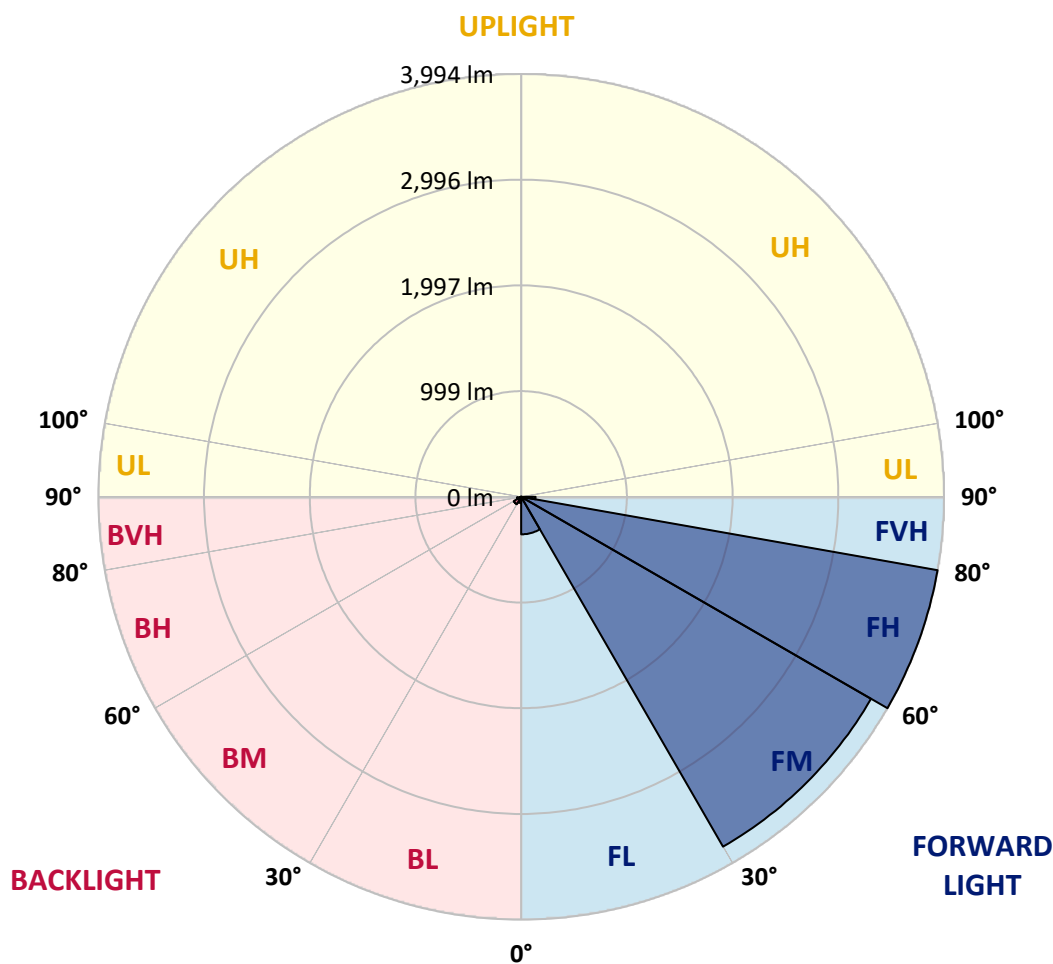
CATALOG NUMBER: VST-F06-LED-E-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.4	4.2			
FM	(30°-60°)	3816.1	45.0			
FH	(60°-80°)	3994.4	47.1			G2/5000
FVH	(80°-90°)	136.4	1.6			G2/225
BL	(0°-30°)	58.0	0.7	B0/110		
BM	(30°-60°)	80.8	1.0	B0/220		
BH	(60°-80°)	39.4	0.5	B0/110		G0/110
BVH	(80°-90°)	5.7	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: P165282

CATALOG NUMBER: VST-F06-LED-E-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1
2.5°	323.0	321.4	314.8	314.8	305.0	298.6	290.4	282.2	282.2	280.5	279.0
5°	427.4	417.6	416.0	398.0	383.4	362.2	342.6	316.5	313.2	310.0	308.3
7.5°	543.3	541.6	526.9	505.7	476.4	437.2	398.0	355.6	349.1	345.8	339.3
10°	693.3	685.1	665.6	629.6	585.7	533.5	469.9	402.9	394.8	388.2	385.0
12.5°	836.9	822.2	810.7	765.1	709.6	632.9	556.2	460.0	453.5	445.4	432.3
15°	970.6	957.5	938.0	898.9	836.9	740.6	650.9	533.5	517.1	505.7	495.9
17.5°	1075.0	1066.9	1044.0	1000.0	933.1	848.3	740.6	608.4	595.5	580.7	562.8
20°	1174.6	1163.1	1127.2	1066.9	995.1	929.8	846.7	706.3	688.4	670.5	650.9
22.5°	1269.2	1257.7	1199.1	1099.5	1022.8	995.1	965.8	817.3	789.5	774.9	755.3
25°	1401.3	1376.9	1285.4	1127.2	1024.5	1045.7	1096.2	960.8	934.8	913.6	882.6
27.5°	1579.2	1546.5	1402.9	1168.1	1030.9	1101.2	1246.3	1135.4	1107.6	1083.2	1049.0
30°	1779.8	1758.6	1587.3	1265.9	1078.3	1182.7	1414.3	1357.3	1324.7	1295.2	1254.5
32.5°	1982.1	1952.7	1783.0	1451.9	1205.5	1340.9	1624.8	1615.0	1572.6	1544.9	1500.8
35°	2159.9	2145.2	2019.6	1756.9	1496.0	1618.3	1905.4	1916.8	1879.3	1849.9	1801.0
37.5°	2280.6	2280.6	2256.2	2084.8	1957.6	2048.9	2318.1	2319.8	2282.2	2215.3	2190.9
40°	2342.5	2360.5	2448.6	2481.2	2474.7	2592.2	2859.8	2830.3	2799.3	2765.0	2683.5
42.5°	2469.8	2486.1	2673.7	2898.9	3045.7	3200.6	3385.0	3375.2	3337.7	3275.7	3200.6
45°	2685.2	2706.4	2929.9	3287.1	3588.9	3809.2	3926.6	3880.9	3843.3	3784.7	3745.5
47.5°	2959.2	3000.0	3252.8	3695.0	4058.7	4422.5	4544.8	4424.2	4391.6	4345.8	4282.2
50°	3251.2	3290.4	3559.5	4065.2	4476.4	4910.3	5114.2	4910.3	4863.0	4848.2	4776.5
52.5°	3504.1	3536.7	3796.1	4350.7	4796.0	5305.0	5601.9	5332.8	5298.5	5249.5	5197.3
55°	3654.1	3680.3	3923.3	4487.8	5013.1	5660.7	6073.5	5836.9	5786.3	5766.8	5691.7
57.5°	3704.8	3730.8	3949.4	4505.7	5130.5	5985.3	6646.0	6654.2	6593.8	6523.7	6500.8
60°	3704.8	3734.1	3918.4	4461.7	5244.7	6331.1	7409.4	8089.7	7959.2	7946.1	7862.9
62.5°	3551.4	3579.1	3765.1	4326.3	5398.0	6797.7	8473.1	9673.7	9636.3	9551.4	9414.4
65°	3218.6	3234.9	3417.6	3980.5	5339.3	7226.7	9394.7	10727.5	10667.2	10500.8	10324.6
66°	3068.5	3081.6	3252.8	3783.0	5146.8	7285.5	9557.9	10859.7	10760.2	10619.8	10420.8
67.5°	2851.5	2874.4	2995.1	3416.0	4685.2	7081.5	9455.2	10766.8	10680.3	10510.6	10311.6
70°	1903.8	1887.4	2313.2	2621.5	3569.3	5770.0	8482.9	9667.2	9668.8	9588.9	9509.0
72.5°	903.8	913.6	1037.5	1613.3	2336.0	3854.8	6752.0	7716.1	7827.1	7683.5	7584.0
75°	649.3	663.9	739.0	987.0	1393.1	2313.2	4376.8	5396.4	5399.6	5145.1	4918.5
77.5°	189.2	197.4	277.3	608.4	1044.0	1561.1	2513.8	3000.0	2929.9	2747.1	2575.8
80°	78.3	78.3	81.5	194.2	419.2	1060.4	1758.6	2310.0	2301.8	2231.7	2130.5
82.5°	29.3	31.0	39.1	79.9	99.6	261.0	1172.9	2004.9	2000.0	1900.5	1828.7
85°	3.3	3.3	9.8	34.3	37.5	48.9	234.9	884.1	879.3	884.1	774.9
87.5°	0.0	0.0	1.6	3.3	4.9	6.5	9.8	34.3	37.5	35.9	32.6
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: P165282

CATALOG NUMBER: VST-F06-LED-E-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1
2.5°	279.0	275.7	275.7	274.1	274.1	274.1	272.4	270.8	270.8	269.2	267.6
5°	305.0	301.7	300.2	296.9	295.3	293.6	290.4	288.8	285.5	283.8	282.2
7.5°	336.0	329.5	327.9	323.0	318.1	314.8	311.6	306.7	303.4	296.9	295.3
10°	375.3	367.0	360.5	354.0	349.1	341.0	336.0	329.5	323.0	318.1	313.2
12.5°	425.8	414.4	404.6	398.0	386.6	376.8	367.0	362.2	349.1	342.6	334.4
15°	481.2	468.2	456.8	443.7	435.6	419.2	406.2	391.5	385.0	373.6	360.5
17.5°	553.0	531.8	513.8	500.9	484.5	468.2	453.5	438.8	419.2	406.2	389.9
20°	629.6	611.7	587.2	564.5	544.8	525.3	504.0	484.5	466.6	445.4	425.8
22.5°	727.6	701.5	672.1	649.3	623.2	602.0	572.6	546.5	517.1	489.4	466.6
25°	851.5	817.3	789.5	756.9	725.9	693.3	657.4	624.8	587.2	561.2	522.1
27.5°	1004.9	972.3	934.8	892.4	861.4	812.4	765.1	724.3	680.3	639.5	595.5
30°	1200.6	1153.4	1114.2	1073.4	1011.4	964.1	908.6	853.2	792.8	752.1	685.1
32.5°	1435.5	1385.0	1326.3	1267.5	1210.5	1143.6	1075.0	1006.5	939.6	864.6	796.1
35°	1722.7	1662.3	1595.4	1531.8	1443.7	1371.9	1285.4	1190.8	1115.8	1029.4	942.9
37.5°	2102.8	2003.3	1944.5	1877.6	1758.6	1660.7	1564.4	1469.8	1337.6	1246.3	1124.0
40°	2579.1	2520.4	2424.2	2316.5	2208.8	2079.9	1949.5	1823.8	1670.5	1543.2	1401.3
42.5°	3138.6	3052.2	2954.4	2799.3	2690.1	2538.3	2389.9	2223.5	2035.8	1872.8	1706.4
45°	3663.9	3561.2	3486.1	3331.2	3217.0	3037.5	2858.1	2681.9	2464.9	2254.5	2062.0
47.5°	4231.7	4146.8	4022.8	3897.2	3781.4	3579.1	3385.0	3171.3	2942.9	2693.3	2443.7
50°	4730.9	4664.0	4579.1	4427.4	4298.5	4128.8	3900.5	3667.2	3378.4	3130.5	2846.7
52.5°	5154.9	5102.7	4983.7	4876.0	4760.2	4600.3	4396.4	4172.9	3861.4	3588.9	3265.9
55°	5655.8	5618.3	5513.8	5447.0	5344.3	5190.9	5000.0	4792.9	4463.3	4166.4	3800.9
57.5°	6476.3	6447.0	6355.6	6327.8	6226.7	6093.0	5858.1	5636.2	5251.2	4882.5	4465.0
60°	7835.2	7776.5	7642.7	7574.3	7360.5	7181.1	6876.1	6570.9	6106.0	5636.2	5133.7
62.5°	9290.3	9125.6	8871.1	8652.6	8349.1	8037.5	7629.6	7163.1	6618.3	6060.4	5482.8
65°	10075.0	9794.5	9473.1	9125.6	8732.5	8274.0	7760.2	7200.7	6615.0	6026.1	5416.0
66°	10164.8	9848.2	9507.4	9120.7	8683.6	8195.8	7673.7	7086.5	6477.9	5903.8	5293.6
67.5°	10052.2	9721.1	9360.6	8931.5	8458.4	7952.7	7404.6	6794.4	6208.8	5626.4	5032.6
70°	9264.3	8934.7	8613.3	8161.5	7657.4	7148.5	6629.7	5947.8	5393.2	4858.0	4329.5
72.5°	7398.0	7174.5	6856.4	6469.8	5978.7	5381.7	4949.4	4339.4	3858.1	3339.3	2929.9
75°	4623.2	4308.3	3915.2	3422.5	3047.3	2562.8	2310.0	1846.6	1572.6	1332.8	1101.2
77.5°	2363.7	2127.3	1851.6	1574.2	1308.3	1044.0	807.5	571.0	385.0	267.6	199.0
80°	1952.7	1743.9	1515.5	1262.7	1027.8	797.8	574.3	391.5	249.6	163.2	127.2
82.5°	1613.3	1437.2	1233.2	998.4	794.5	626.5	435.6	283.8	176.1	114.2	89.8
85°	686.8	623.2	481.2	381.7	287.1	212.1	148.5	99.6	70.1	57.1	52.2
87.5°	29.3	32.6	31.0	24.5	17.9	17.9	16.3	13.1	13.1	13.1	13.1
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: P165282

CATALOG NUMBER: VST-F06-LED-E-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1	256.1
2.5°	267.6	265.9	264.3	264.3	262.6	261.0	251.2	243.1	233.3	226.8	220.2
5°	279.0	277.3	274.1	272.4	269.2	267.6	246.4	228.3	213.7	202.3	194.2
7.5°	290.4	288.8	283.8	279.0	277.3	274.1	239.8	216.9	197.4	184.4	176.1
10°	305.0	300.2	295.3	288.8	283.8	279.0	233.3	203.9	182.7	171.3	163.2
12.5°	326.2	318.1	310.0	301.7	295.3	287.1	230.0	192.5	171.3	158.2	150.1
15°	350.8	339.3	329.5	319.8	308.3	300.2	223.5	182.7	161.5	148.5	138.7
17.5°	373.6	360.5	345.8	331.2	319.8	308.3	216.9	173.0	151.7	138.7	128.9
20°	406.2	386.6	368.7	350.8	334.4	319.8	207.1	163.2	143.5	128.9	119.1
22.5°	442.1	419.2	396.5	372.0	350.8	331.2	199.0	154.9	135.4	120.8	109.3
25°	487.8	460.0	429.0	398.0	373.6	347.5	190.9	146.8	127.2	112.5	101.1
27.5°	551.4	512.3	478.0	438.8	401.3	372.0	184.4	140.3	119.1	104.4	93.0
30°	637.9	580.7	526.9	484.5	440.4	398.0	177.8	132.2	112.5	96.3	83.2
32.5°	734.1	667.2	605.2	541.6	486.1	437.2	171.3	125.6	104.4	88.1	76.7
35°	853.2	768.3	685.1	611.7	544.8	479.6	164.7	119.1	97.9	79.9	68.6
37.5°	1024.5	918.4	809.1	714.5	628.1	541.6	159.9	112.5	89.8	71.8	60.3
40°	1259.4	1122.4	988.5	859.7	747.1	639.5	153.3	106.0	83.2	65.3	53.8
42.5°	1513.9	1347.5	1171.3	1026.1	871.2	735.7	146.8	99.6	76.7	58.7	47.4
45°	1830.4	1623.1	1409.5	1212.0	1022.8	848.3	140.3	93.0	68.6	52.2	40.8
47.5°	2176.2	1911.9	1670.5	1422.5	1197.4	988.5	132.2	88.1	62.0	45.7	35.9
50°	2531.9	2252.9	1947.8	1665.5	1398.1	1128.9	124.0	79.9	55.5	40.8	29.3
52.5°	2915.1	2585.6	2274.1	1923.3	1611.8	1313.2	115.8	73.4	50.5	35.9	24.5
55°	3402.9	3034.3	2668.9	2275.7	1900.5	1527.0	107.7	65.3	44.1	31.0	19.6
57.5°	4016.3	3579.1	3130.5	2686.8	2231.7	1807.5	101.1	57.1	37.5	26.1	16.3
60°	4595.4	4084.9	3541.6	3031.0	2517.1	2022.9	91.3	50.5	32.6	21.2	16.3
62.5°	4895.6	4313.2	3727.5	3164.8	2616.6	2099.5	81.5	42.4	27.7	17.9	14.7
65°	4822.2	4228.4	3660.7	3092.9	2556.3	2050.6	71.8	37.5	24.5	16.3	14.7
66°	4716.2	4128.8	3557.9	3018.0	2505.7	1998.4	66.9	35.9	22.9	16.3	13.1
67.5°	4484.5	3916.8	3371.9	2869.5	2367.0	1898.8	60.3	32.6	21.2	14.7	13.1
70°	3830.4	3314.8	2879.3	2432.3	2022.9	1600.4	48.9	27.7	17.9	13.1	13.1
72.5°	2535.0	2184.3	1894.0	1629.7	1362.1	1057.1	40.8	22.9	14.7	13.1	11.4
75°	956.0	864.6	742.3	667.2	582.4	510.6	32.6	14.7	11.4	11.4	11.4
77.5°	169.7	156.6	138.7	127.2	117.5	107.7	26.1	9.8	9.8	11.4	11.4
80°	114.2	106.0	96.3	88.1	81.5	73.4	17.9	8.1	9.8	9.8	11.4
82.5°	81.5	76.7	71.8	65.3	60.3	53.8	11.4	8.1	9.8	9.8	9.8
85°	48.9	45.7	42.4	39.1	34.3	32.6	8.1	8.1	8.1	9.8	9.8
87.5°	13.1	11.4	13.1	13.1	9.8	11.4	6.5	6.5	6.5	8.1	8.1
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: P165282

CATALOG NUMBER: VST-F06-LED-E-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	256.1	256.1	256.1	256.1	256.1
2.5°	216.9	216.9	213.7	218.6	218.6
5°	187.6	187.6	185.9	187.6	187.6
7.5°	171.3	169.7	169.7	169.7	171.3
10°	156.6	154.9	154.9	154.9	154.9
12.5°	143.5	142.0	140.3	142.0	142.0
15°	132.2	128.9	128.9	128.9	128.9
17.5°	122.3	119.1	117.5	117.5	117.5
20°	112.5	107.7	107.7	107.7	107.7
22.5°	102.7	97.9	97.9	97.9	97.9
25°	93.0	88.1	88.1	88.1	88.1
27.5°	84.8	79.9	79.9	79.9	79.9
30°	75.1	71.8	71.8	73.4	71.8
32.5°	68.6	63.6	63.6	65.3	65.3
35°	60.3	57.1	57.1	57.1	57.1
37.5°	52.2	48.9	48.9	48.9	48.9
40°	45.7	42.4	40.8	42.4	42.4
42.5°	39.1	35.9	34.3	34.3	34.3
45°	34.3	29.3	27.7	29.3	29.3
47.5°	27.7	24.5	24.5	26.1	26.1
50°	21.2	21.2	22.9	26.1	26.1
52.5°	19.6	19.6	22.9	26.1	26.1
55°	17.9	19.6	22.9	24.5	26.1
57.5°	16.3	19.6	22.9	24.5	24.5
60°	16.3	17.9	21.2	24.5	24.5
62.5°	14.7	16.3	19.6	22.9	22.9
65°	14.7	16.3	19.6	22.9	22.9
66°	14.7	16.3	19.6	22.9	22.9
67.5°	14.7	16.3	19.6	22.9	22.9
70°	14.7	16.3	19.6	21.2	21.2
72.5°	13.1	14.7	17.9	21.2	21.2
75°	13.1	14.7	17.9	21.2	21.2
77.5°	13.1	14.7	17.9	21.2	21.2
80°	13.1	14.7	17.9	19.6	21.2
82.5°	11.4	14.7	16.3	19.6	19.6
85°	11.4	13.1	16.3	17.9	19.6
87.5°	9.8	11.4	13.1	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)