

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: P163657

Luminaire Tested: **OVF-E02-LED-E-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P163657  
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: OVF-E02-LED-E-U-SL3-HSS  
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(2) 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**

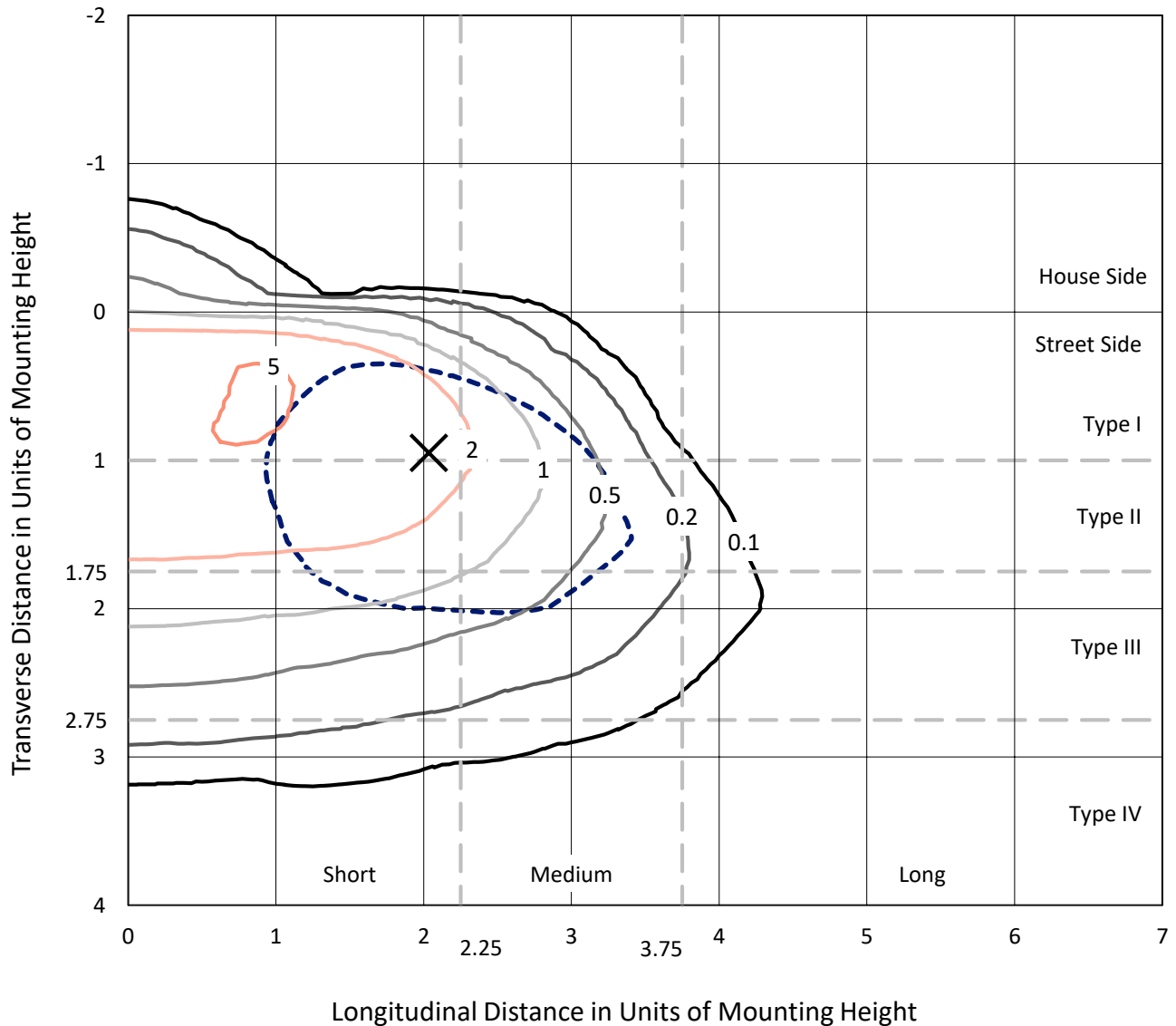
Lumens per Lamp: N/A  
Luminaire Lumens: 3363.6 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 52.1  
Input Voltage (V): NR  
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: P163657  
 CATALOG NUMBER: OVF-E02-LED-E-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

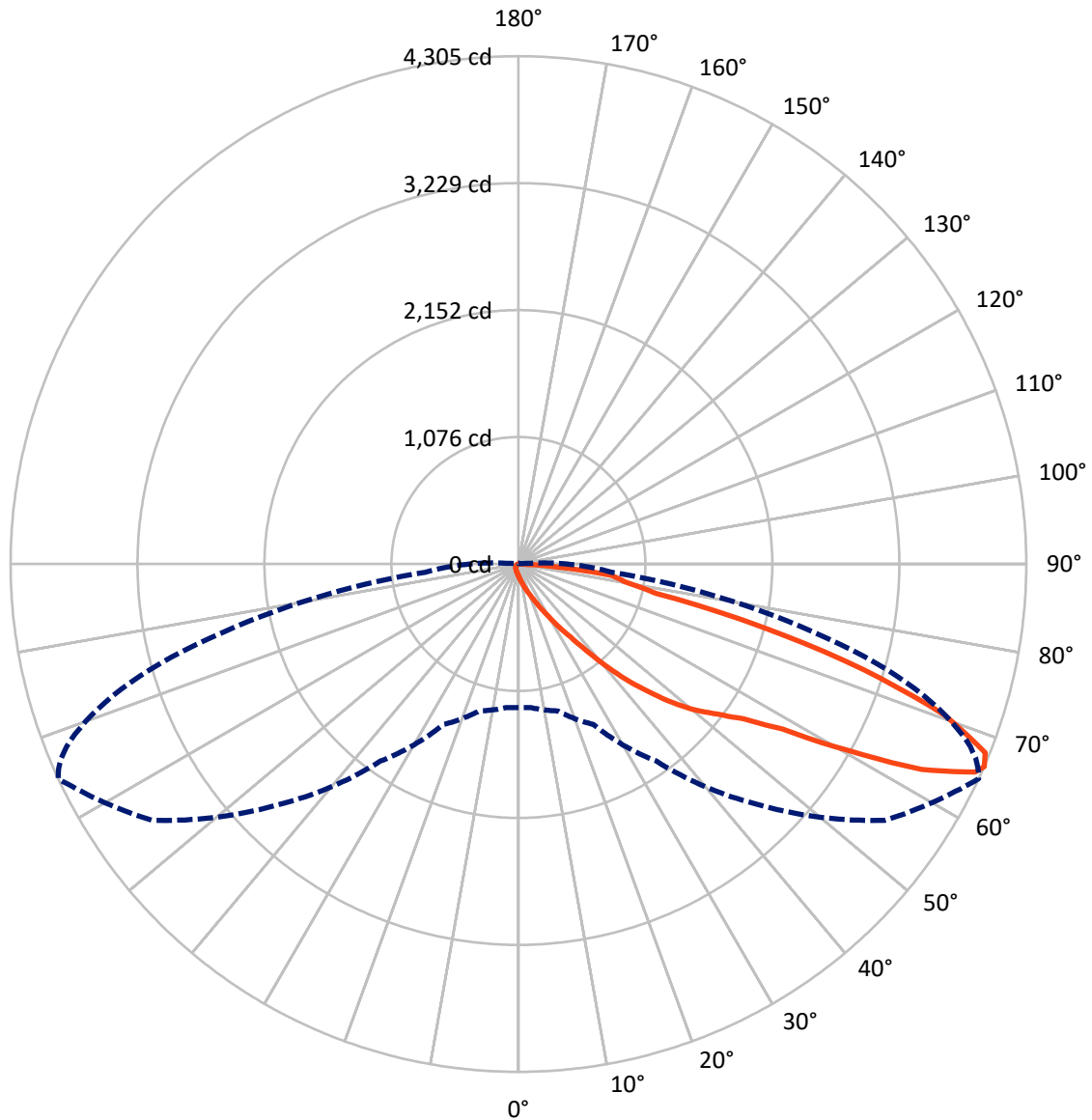


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P163657

CATALOG NUMBER: OVF-E02-LED-E-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P163657

CATALOG NUMBER: OVF-E02-LED-E-U-SL3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	72.9	0.0	72.9
	% Fixture	2.2	0.0	2.2
<b>Street Side</b>	Lumens	3290.7	0.0	3290.7
	% Fixture	97.8	0.0	97.8
<b>Total</b>	Lumens	3363.6	0.0	3363.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.4	0.3
10°-20°	48.2	1.4
20°-30°	103.9	3.1
30°-40°	222.0	6.6
40°-50°	490.9	14.6
50°-60°	831.9	24.7
60°-70°	1110.1	33.0
70°-80°	489.0	14.5
80°-90°	56.3	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°	3363.6	100.0
0°-180°	3363.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P163657

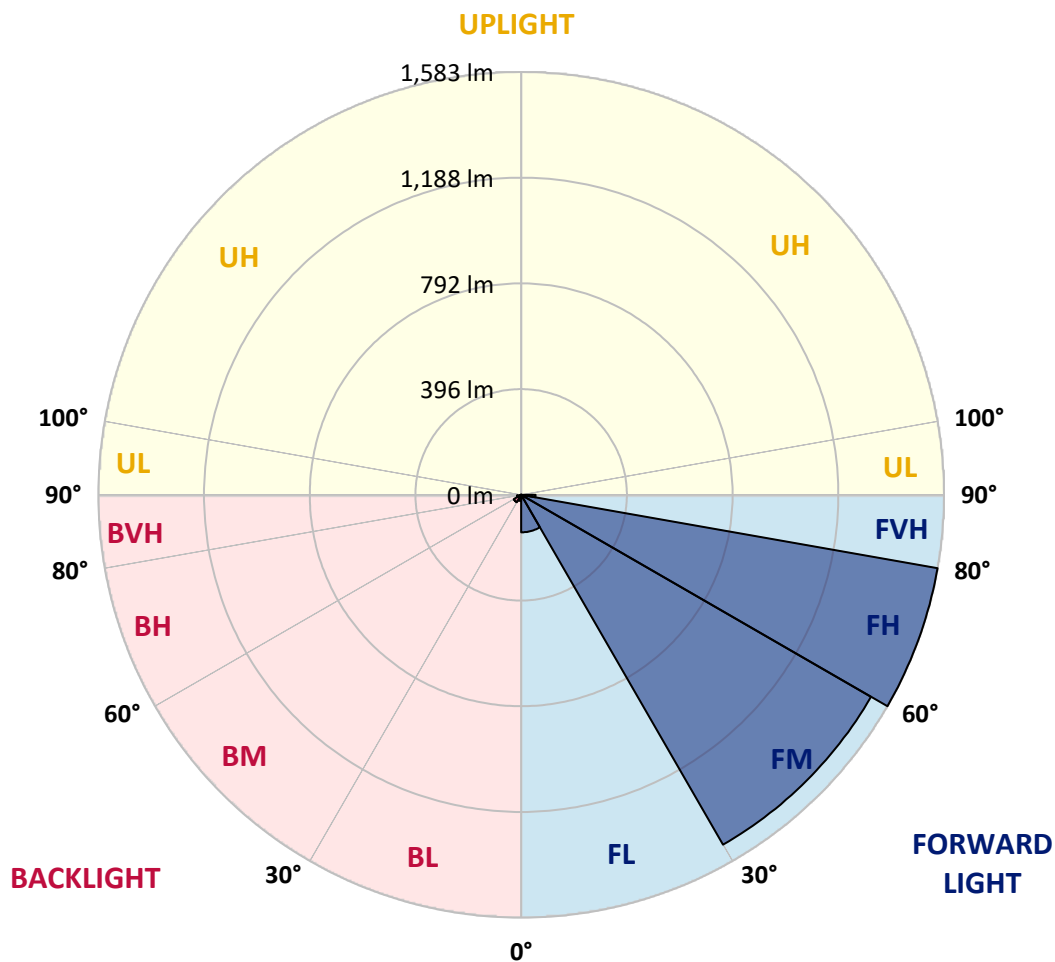
CATALOG NUMBER: OVF-E02-LED-E-U-SL3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.5	4.2			
FM	(30°-60°)	1512.7	45.0			
FH	(60°-80°)	1583.4	47.1			G1/1800
FVH	(80°-90°)	54.1	1.6			G1/100
BL	(0°-30°)	23.0	0.7	B0/110		
BM	(30°-60°)	32.0	1.0	B0/220		
BH	(60°-80°)	15.6	0.5	B0/110		G0/110
BVH	(80°-90°)	2.2	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-G1**

Type III Short





REPORT NUMBER: P163657

CATALOG NUMBER: OVF-E02-LED-E-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	128.0	127.4	124.8	124.8	120.9	118.3	115.1	111.9	111.9	111.2	110.6
5°	169.4	165.6	164.9	157.8	152.0	143.6	135.8	125.4	124.2	122.9	122.2
7.5°	215.3	214.7	208.9	200.5	188.8	173.3	157.8	141.0	138.4	137.1	134.5
10°	274.8	271.6	263.8	249.6	232.2	211.4	186.2	159.7	156.5	153.9	152.6
12.5°	331.7	325.9	321.4	303.3	281.3	250.9	220.5	182.4	179.8	176.5	171.4
15°	384.8	379.6	371.8	356.3	331.7	293.6	258.0	211.4	205.0	200.5	196.6
17.5°	426.2	422.9	413.9	396.4	369.9	336.3	293.6	241.2	236.0	230.2	223.1
20°	465.6	461.1	446.8	422.9	394.5	368.6	335.6	280.0	272.9	265.8	258.0
22.5°	503.1	498.6	475.3	435.8	405.4	394.5	382.8	324.0	313.0	307.2	299.4
25°	555.5	545.8	509.6	446.8	406.1	414.5	434.6	380.9	370.5	362.1	349.8
27.5°	626.0	613.0	556.1	463.0	408.7	436.5	494.0	450.1	439.1	429.4	415.8
30°	705.5	697.1	629.2	501.8	427.4	468.8	560.6	538.0	525.1	513.4	497.3
32.5°	785.7	774.0	706.8	575.5	477.9	531.6	644.1	640.2	623.4	612.4	594.9
35°	856.2	850.4	800.6	696.4	593.0	641.5	755.3	759.8	745.0	733.3	713.9
37.5°	904.0	904.0	894.3	826.4	776.0	812.2	918.9	919.6	904.7	878.2	868.5
40°	928.6	935.7	970.6	983.6	981.0	1027.6	1133.6	1122.0	1109.7	1096.1	1063.8
42.5°	979.0	985.5	1059.9	1149.1	1207.3	1268.8	1341.8	1337.9	1323.1	1298.5	1268.8
45°	1064.4	1072.8	1161.4	1303.0	1422.6	1510.0	1556.5	1538.4	1523.5	1500.2	1484.7
47.5°	1173.0	1189.2	1289.4	1464.7	1608.9	1753.1	1801.6	1753.8	1740.8	1722.7	1697.5
50°	1288.8	1304.3	1411.0	1611.5	1774.4	1946.4	2027.3	1946.4	1927.7	1921.9	1893.4
52.5°	1389.0	1402.0	1504.8	1724.6	1901.2	2102.9	2220.6	2113.9	2100.4	2081.0	2060.2
55°	1448.5	1458.9	1555.2	1779.0	1987.2	2243.9	2407.5	2313.8	2293.7	2286.0	2256.2
57.5°	1468.6	1478.9	1565.6	1786.1	2033.8	2372.6	2634.5	2637.7	2613.8	2586.0	2577.0
60°	1468.6	1480.2	1553.3	1768.6	2079.0	2509.7	2937.1	3206.8	3155.0	3149.9	3116.9
62.5°	1407.8	1418.8	1492.5	1715.0	2139.8	2694.6	3358.8	3834.7	3819.8	3786.2	3731.9
65°	1275.9	1282.3	1354.8	1577.8	2116.5	2864.7	3724.1	4252.4	4228.5	4162.6	4092.7
66°	1216.4	1221.6	1289.4	1499.6	2040.2	2888.0	3788.8	4304.8	4265.4	4209.8	4130.9
67.5°	1130.4	1139.4	1187.3	1354.1	1857.2	2807.2	3748.0	4268.0	4233.7	4166.4	4087.5
70°	754.6	748.2	917.0	1039.2	1414.9	2287.2	3362.6	3832.1	3832.8	3801.1	3769.4
72.5°	358.2	362.1	411.3	639.6	926.0	1528.0	2676.5	3058.7	3102.7	3045.8	3006.3
75°	257.4	263.2	292.9	391.2	552.2	917.0	1735.0	2139.2	2140.4	2039.6	1949.7
77.5°	75.0	78.2	109.9	241.2	413.9	618.8	996.5	1189.2	1161.4	1089.0	1021.1
80°	31.0	31.0	32.3	77.0	166.2	420.3	697.1	915.7	912.4	884.6	844.5
82.5°	11.6	12.3	15.5	31.7	39.4	103.5	465.0	794.8	792.8	753.4	724.9
85°	1.3	1.3	3.9	13.6	14.9	19.4	93.1	350.5	348.6	350.5	307.2
87.5°	0.0	0.0	0.6	1.3	1.9	2.6	3.9	13.6	14.9	14.2	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: P163657

CATALOG NUMBER: OVF-E02-LED-E-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	110.6	109.3	109.3	108.6	108.6	108.6	108.0	107.4	107.4	106.7	106.0
5°	120.9	119.6	119.0	117.7	117.0	116.4	115.1	114.4	113.2	112.5	111.9
7.5°	133.2	130.6	130.0	128.0	126.1	124.8	123.5	121.6	120.3	117.7	117.0
10°	148.7	145.5	142.9	140.3	138.4	135.2	133.2	130.6	128.0	126.1	124.2
12.5°	168.8	164.2	160.4	157.8	153.2	149.4	145.5	143.6	138.4	135.8	132.6
15°	190.8	185.6	181.1	175.9	172.6	166.2	161.0	155.2	152.6	148.1	142.9
17.5°	219.2	210.8	203.7	198.5	192.0	185.6	179.8	174.0	166.2	161.0	154.6
20°	249.6	242.5	232.8	223.8	216.0	208.2	199.8	192.0	185.0	176.5	168.8
22.5°	288.4	278.1	266.4	257.4	247.0	238.6	227.0	216.6	205.0	194.0	185.0
25°	337.6	324.0	313.0	300.0	287.8	274.8	260.6	247.7	232.8	222.4	206.9
27.5°	398.4	385.4	370.5	353.7	341.4	322.0	303.3	287.1	269.6	253.5	236.0
30°	476.0	457.2	441.7	425.5	400.9	382.2	360.2	338.2	314.3	298.1	271.6
32.5°	569.1	549.0	525.7	502.4	479.8	453.3	426.2	399.0	372.5	342.7	315.6
35°	682.9	659.0	632.4	607.2	572.3	543.8	509.6	472.1	442.3	408.0	373.8
37.5°	833.6	794.1	770.8	744.3	697.1	658.3	620.2	582.6	530.3	494.0	445.6
40°	1022.4	999.1	960.9	918.2	875.6	824.5	772.8	723.0	662.2	611.8	555.5
42.5°	1244.2	1209.9	1171.1	1109.7	1066.4	1006.2	947.4	881.4	807.0	742.4	676.4
45°	1452.4	1411.6	1381.9	1320.5	1275.2	1204.1	1133.0	1063.1	977.1	893.7	817.4
47.5°	1677.4	1643.8	1594.7	1544.9	1499.0	1418.8	1341.8	1257.1	1166.6	1067.6	968.7
50°	1875.3	1848.8	1815.2	1755.0	1704.0	1636.7	1546.2	1453.7	1339.2	1241.0	1128.4
52.5°	2043.4	2022.8	1975.6	1932.9	1887.0	1823.6	1742.8	1654.2	1530.6	1422.6	1294.6
55°	2242.0	2227.1	2185.7	2159.2	2118.4	2057.7	1982.0	1899.9	1769.3	1651.6	1506.7
57.5°	2567.2	2555.6	2519.4	2508.4	2468.3	2415.3	2322.2	2234.2	2081.6	1935.4	1769.9
60°	3105.9	3082.6	3029.6	3002.4	2917.7	2846.6	2725.7	2604.8	2420.4	2234.2	2035.0
62.5°	3682.7	3617.4	3516.5	3429.9	3309.6	3186.1	3024.4	2839.5	2623.5	2402.4	2173.4
65°	3993.8	3882.6	3755.2	3617.4	3461.6	3279.8	3076.2	2854.4	2622.2	2388.8	2146.9
66°	4029.3	3903.9	3768.7	3615.5	3442.2	3248.8	3041.9	2809.1	2567.9	2340.3	2098.4
67.5°	3984.7	3853.4	3710.5	3540.5	3352.9	3152.5	2935.2	2693.3	2461.2	2230.3	1995.0
70°	3672.4	3541.8	3414.4	3235.2	3035.4	2833.7	2628.0	2357.7	2137.8	1925.8	1716.2
72.5°	2932.6	2844.0	2717.9	2564.6	2370.0	2133.3	1962.0	1720.1	1529.4	1323.7	1161.4
75°	1832.6	1707.8	1552.0	1356.7	1208.0	1015.9	915.7	732.0	623.4	528.3	436.5
77.5°	937.0	843.2	734.0	624.0	518.6	413.9	320.1	226.3	152.6	106.0	78.9
80°	774.0	691.3	600.8	500.5	407.4	316.2	227.6	155.2	98.9	64.7	50.4
82.5°	639.6	569.7	488.9	395.8	314.9	248.3	172.6	112.5	69.8	45.3	35.6
85°	272.2	247.0	190.8	151.3	113.8	84.1	58.8	39.4	27.8	22.6	20.7
87.5°	11.6	12.9	12.3	9.7	7.1	7.1	6.5	5.2	5.2	5.2	5.2
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: P163657

CATALOG NUMBER: OVF-E02-LED-E-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	106.0	105.4	104.8	104.8	104.1	103.5	99.6	96.4	92.5	89.9	87.3
5°	110.6	109.9	108.6	108.0	106.7	106.0	97.6	90.5	84.7	80.2	77.0
7.5°	115.1	114.4	112.5	110.6	109.9	108.6	95.0	86.0	78.2	73.1	69.8
10°	120.9	119.0	117.0	114.4	112.5	110.6	92.5	80.8	72.4	67.9	64.7
12.5°	129.3	126.1	122.9	119.6	117.0	113.8	91.2	76.3	67.9	62.7	59.5
15°	139.0	134.5	130.6	126.8	122.2	119.0	88.6	72.4	64.0	58.8	55.0
17.5°	148.1	142.9	137.1	131.3	126.8	122.2	86.0	68.6	60.1	55.0	51.1
20°	161.0	153.2	146.2	139.0	132.6	126.8	82.1	64.7	56.9	51.1	47.2
22.5°	175.2	166.2	157.1	147.4	139.0	131.3	78.9	61.4	53.7	47.8	43.3
25°	193.4	182.4	170.1	157.8	148.1	137.7	75.6	58.2	50.4	44.6	40.1
27.5°	218.6	203.0	189.5	174.0	159.1	147.4	73.1	55.6	47.2	41.4	36.8
30°	252.8	230.2	208.9	192.0	174.6	157.8	70.5	52.4	44.6	38.2	33.0
32.5°	291.0	264.5	239.9	214.7	192.7	173.3	67.9	49.8	41.4	34.9	30.4
35°	338.2	304.6	271.6	242.5	216.0	190.1	65.3	47.2	38.8	31.7	27.2
37.5°	406.1	364.1	320.8	283.2	249.0	214.7	63.4	44.6	35.6	28.4	23.9
40°	499.2	444.9	391.9	340.8	296.2	253.5	60.8	42.0	33.0	25.9	21.3
42.5°	600.1	534.2	464.3	406.8	345.3	291.6	58.2	39.4	30.4	23.3	18.8
45°	725.6	643.4	558.7	480.5	405.4	336.3	55.6	36.8	27.2	20.7	16.2
47.5°	862.6	757.9	662.2	563.9	474.6	391.9	52.4	34.9	24.6	18.1	14.2
50°	1003.6	893.0	772.1	660.2	554.2	447.5	49.2	31.7	22.0	16.2	11.6
52.5°	1155.6	1025.0	901.4	762.4	638.9	520.6	45.9	29.1	20.0	14.2	9.7
55°	1348.9	1202.8	1057.9	902.1	753.4	605.3	42.7	25.9	17.4	12.3	7.8
57.5°	1592.1	1418.8	1241.0	1065.0	884.6	716.5	40.1	22.6	14.9	10.4	6.5
60°	1821.6	1619.2	1403.9	1201.5	997.8	801.8	36.2	20.0	12.9	8.4	6.5
62.5°	1940.6	1709.8	1477.6	1254.5	1037.2	832.2	32.3	16.8	11.0	7.1	5.8
65°	1911.5	1676.2	1451.1	1226.1	1013.3	812.8	28.4	14.9	9.7	6.5	5.8
66°	1869.5	1636.7	1410.4	1196.3	993.3	792.2	26.5	14.2	9.0	6.5	5.2
67.5°	1777.7	1552.6	1336.6	1137.5	938.3	752.7	23.9	12.9	8.4	5.8	5.2
70°	1518.4	1314.0	1141.4	964.2	801.8	634.4	19.4	11.0	7.1	5.2	5.2
72.5°	1004.9	865.9	750.8	646.0	540.0	419.0	16.2	9.0	5.8	5.2	4.5
75°	379.0	342.7	294.2	264.5	230.8	202.4	12.9	5.8	4.5	4.5	4.5
77.5°	67.2	62.1	55.0	50.4	46.6	42.7	10.4	3.9	3.9	4.5	4.5
80°	45.3	42.0	38.2	34.9	32.3	29.1	7.1	3.2	3.9	3.9	4.5
82.5°	32.3	30.4	28.4	25.9	23.9	21.3	4.5	3.2	3.9	3.9	3.9
85°	19.4	18.1	16.8	15.5	13.6	12.9	3.2	3.2	3.2	3.9	3.9
87.5°	5.2	4.5	5.2	5.2	3.9	4.5	2.6	2.6	2.6	3.2	3.2
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: P163657

CATALOG NUMBER: OVF-E02-LED-E-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	145°	155°	165°	175°	180°
0°	101.5	101.5	101.5	101.5	101.5
2.5°	86.0	86.0	84.7	86.6	86.6
5°	74.4	74.4	73.7	74.4	74.4
7.5°	67.9	67.2	67.2	67.2	67.9
10°	62.1	61.4	61.4	61.4	61.4
12.5°	56.9	56.2	55.6	56.2	56.2
15°	52.4	51.1	51.1	51.1	51.1
17.5°	48.5	47.2	46.6	46.6	46.6
20°	44.6	42.7	42.7	42.7	42.7
22.5°	40.7	38.8	38.8	38.8	38.8
25°	36.8	34.9	34.9	34.9	34.9
27.5°	33.6	31.7	31.7	31.7	31.7
30°	29.8	28.4	28.4	29.1	28.4
32.5°	27.2	25.2	25.2	25.9	25.9
35°	23.9	22.6	22.6	22.6	22.6
37.5°	20.7	19.4	19.4	19.4	19.4
40°	18.1	16.8	16.2	16.8	16.8
42.5°	15.5	14.2	13.6	13.6	13.6
45°	13.6	11.6	11.0	11.6	11.6
47.5°	11.0	9.7	9.7	10.4	10.4
50°	8.4	8.4	9.0	10.4	10.4
52.5°	7.8	7.8	9.0	10.4	10.4
55°	7.1	7.8	9.0	9.7	10.4
57.5°	6.5	7.8	9.0	9.7	9.7
60°	6.5	7.1	8.4	9.7	9.7
62.5°	5.8	6.5	7.8	9.0	9.0
65°	5.8	6.5	7.8	9.0	9.0
66°	5.8	6.5	7.8	9.0	9.0
67.5°	5.8	6.5	7.8	9.0	9.0
70°	5.8	6.5	7.8	8.4	8.4
72.5°	5.2	5.8	7.1	8.4	8.4
75°	5.2	5.8	7.1	8.4	8.4
77.5°	5.2	5.8	7.1	8.4	8.4
80°	5.2	5.8	7.1	7.8	8.4
82.5°	4.5	5.8	6.5	7.8	7.8
85°	4.5	5.2	6.5	7.1	7.8
87.5°	3.9	4.5	5.2	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)