

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: INVUE

Report Number: P159932

Luminaire Tested: **ENC-F01-LED-E1-SLL-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P159932
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND SCALED
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-F01-LED-E1-SLL-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2325.3 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G1

Input Watts (W): 33.9
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: 25 FT

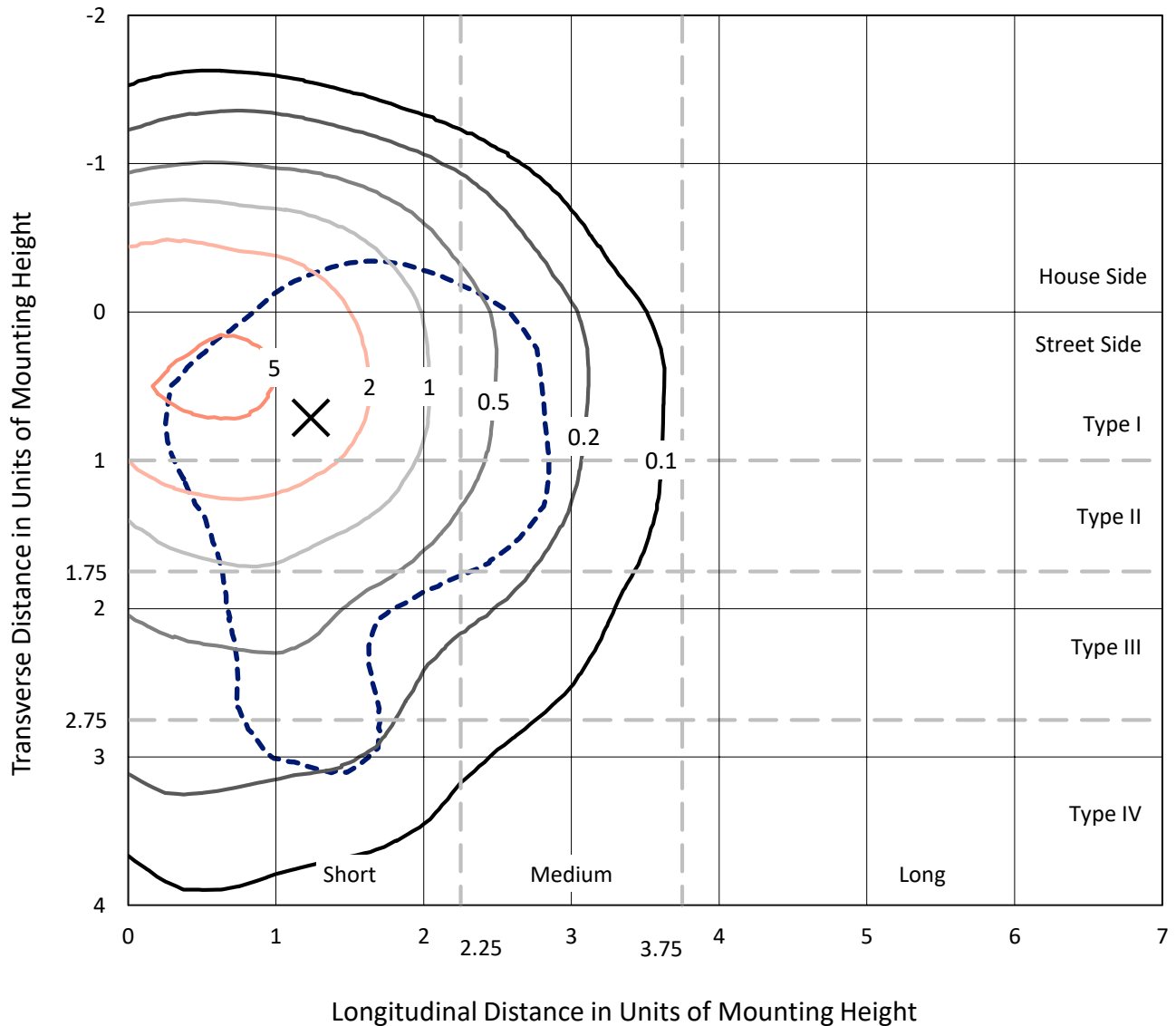


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

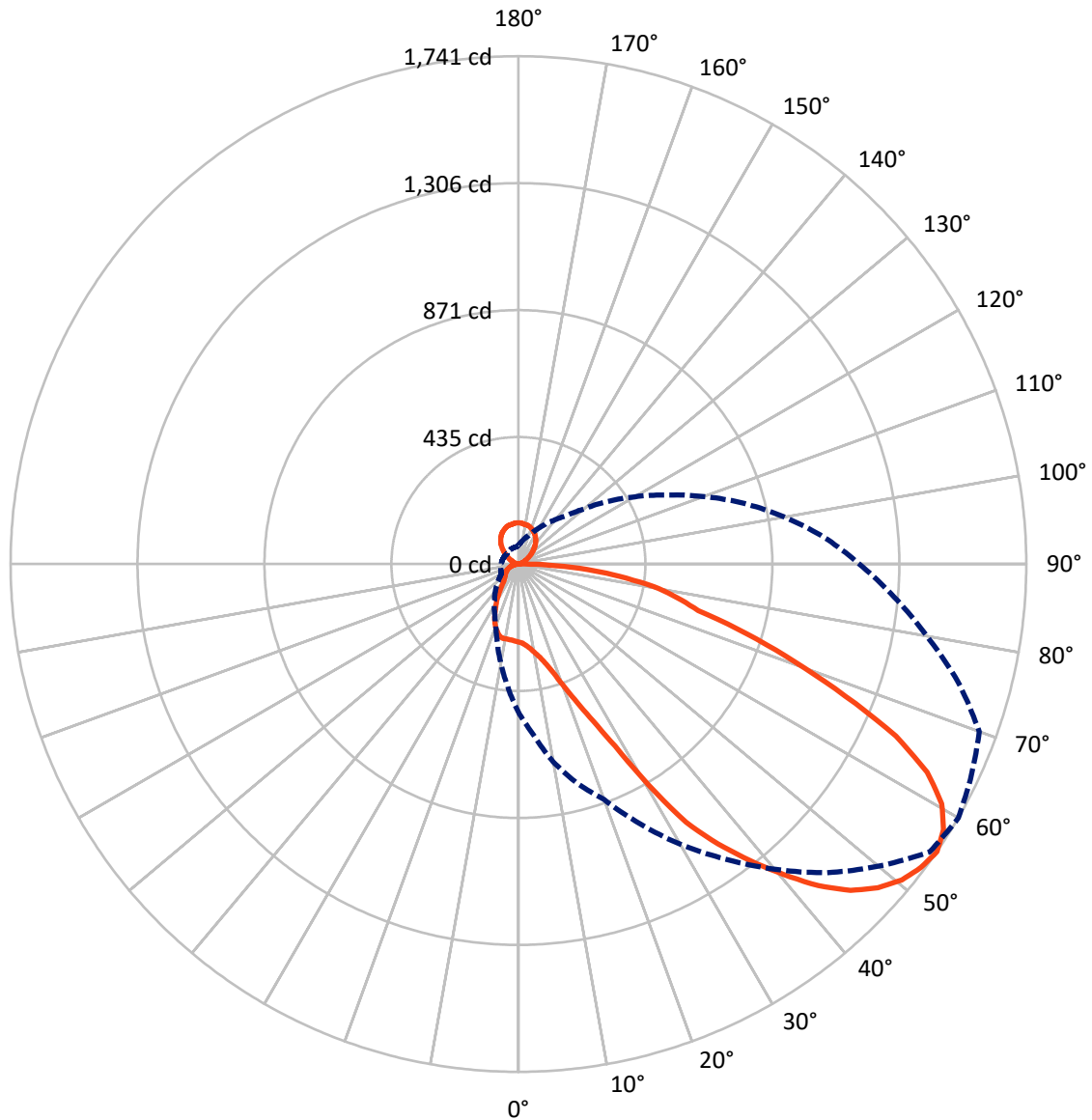


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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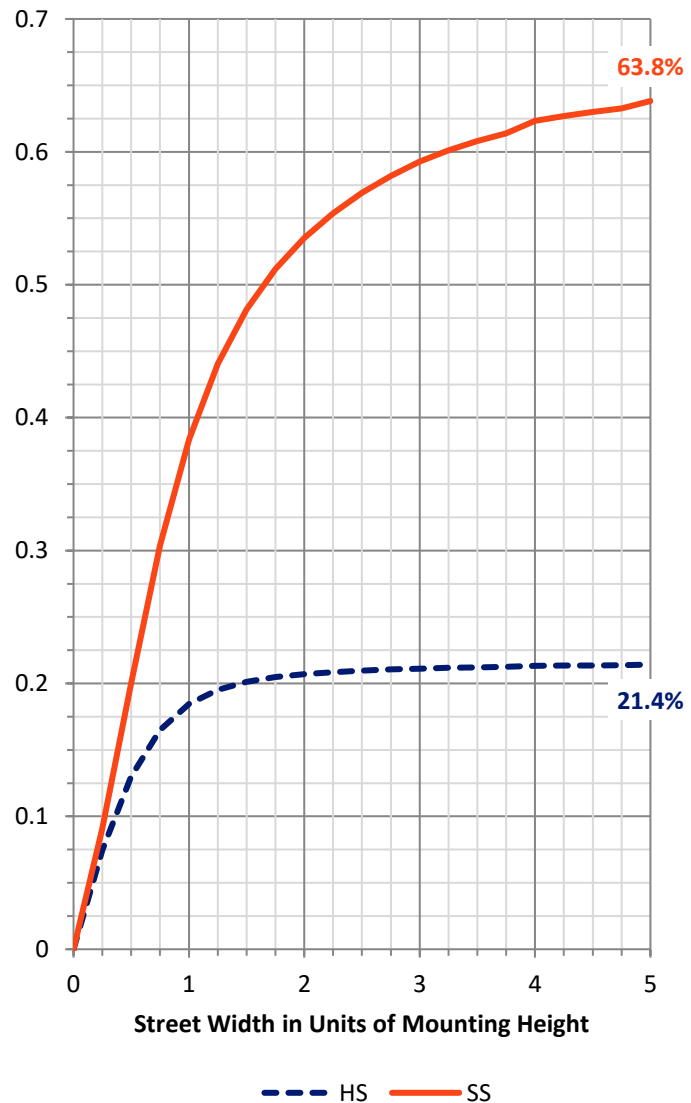
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	502.4	157.7	660.1
	% Fixture	21.6	6.8	28.4
Street Side	Lumens	1507.5	157.7	1665.2
	% Fixture	64.8	6.8	71.6
Total	Lumens	2009.8	315.5	2325.3
	% Fixture	86.4	13.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.4	1.1
10°-20°	86.7	3.7
20°-30°	168.3	7.2
30°-40°	264.5	11.4
40°-50°	353.6	15.2
50°-60°	414.8	17.8
60°-70°	393.6	16.9
70°-80°	237.5	10.2
80°-90°	64.4	2.8
90°-100°	1.3	0.1
100°-110°	12.3	0.5
110°-120°	25.2	1.1
120°-130°	43.0	1.9
130°-140°	60.0	2.6
140°-150°	65.4	2.8
150°-160°	56.9	2.4
160°-170°	38.2	1.6
170°-180°	13.3	0.6
0°-90°	2009.8	86.4
0°-180°	2325.3	100.0



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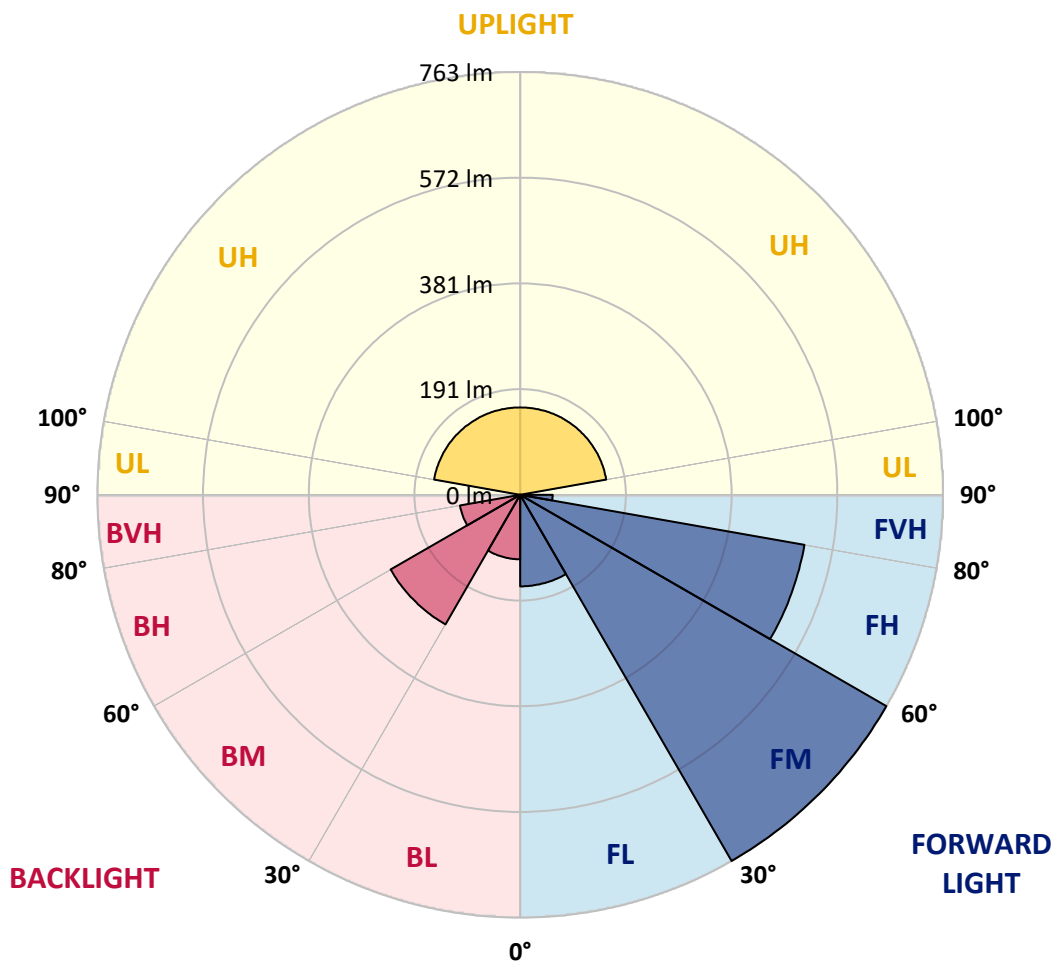
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.2	7.1			
FM	(30°-60°)	763.0	32.8			
FH	(60°-80°)	520.8	22.4			G0/660
FVH	(80°-90°)	58.5	2.5			G1/100
BL	(0°-30°)	116.3	5.0	B1/500		
BM	(30°-60°)	270.0	11.6	B1/1000		
BH	(60°-80°)	110.3	4.7	B1/500		G1/500
BVH	(80°-90°)	5.8	0.3			G0/10
UL	(90°-100°)	1.3	0.1		U1/10	
UH	(100°-180°)	157.7	6.8		U3/500	

BUG Rating: B1-U3-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9
2.5°	273.7	273.2	273.7	273.2	273.2	273.2	273.7	273.2	272.0	272.0	272.4
5°	280.3	280.3	280.3	280.7	280.7	281.1	281.9	281.1	280.7	282.7	281.1
7.5°	288.1	288.1	289.3	289.8	291.0	291.0	292.6	292.2	293.9	295.1	293.9
10°	300.1	298.8	301.7	301.7	305.0	305.4	307.1	307.5	310.4	312.9	310.8
12.5°	317.4	318.2	323.2	324.0	328.1	328.1	328.1	329.8	331.9	333.5	331.4
15°	348.4	350.0	356.6	357.0	364.1	361.2	364.5	364.9	364.5	365.7	362.8
17.5°	388.4	392.9	402.4	404.5	407.8	413.6	413.6	412.8	414.8	416.1	408.2
20°	437.5	445.4	456.1	460.2	469.3	479.2	478.8	477.2	477.6	474.3	465.6
22.5°	492.8	510.6	528.3	534.9	541.5	553.9	561.8	559.3	561.4	553.9	546.1
25°	556.0	584.9	611.7	621.6	645.6	667.4	670.7	669.1	660.0	653.0	645.1
27.5°	594.8	632.8	669.5	694.7	735.5	770.6	777.6	789.2	792.1	797.9	778.9
30°	603.0	650.5	696.3	734.7	783.8	825.5	871.8	906.0	929.1	947.3	934.9
32.5°	608.8	662.5	713.3	761.5	802.0	862.7	920.9	971.6	1039.3	1064.1	1087.6
35°	610.5	672.0	729.4	783.8	836.3	896.5	958.8	1014.6	1106.2	1179.7	1230.0
37.5°	608.0	679.0	746.3	812.7	875.1	941.5	1007.1	1061.6	1150.8	1245.7	1313.4
40°	598.1	676.5	753.3	828.0	903.5	985.7	1060.8	1119.8	1203.2	1315.5	1405.5
42.5°	585.3	666.2	750.8	833.0	918.0	1014.6	1105.4	1177.2	1269.2	1382.8	1485.1
45°	569.2	653.4	740.9	827.6	919.2	1026.5	1130.1	1222.2	1320.0	1446.3	1545.0
47.5°	549.4	635.2	727.7	815.6	911.0	1027.0	1141.7	1247.0	1354.3	1490.1	1596.6
50°	530.8	616.3	712.8	799.5	895.3	1016.6	1140.5	1258.1	1375.3	1515.7	1627.5
52.5°	516.4	600.2	700.0	786.7	877.1	999.7	1128.1	1252.7	1378.6	1519.0	1633.3
55°	507.3	586.9	689.3	778.1	859.0	981.5	1109.1	1234.2	1366.2	1497.1	1611.8
57.5°	508.5	584.5	683.1	776.4	845.8	965.9	1087.6	1207.7	1327.9	1452.5	1571.0
60°	521.3	589.8	679.8	764.8	854.0	967.5	1078.1	1178.4	1274.6	1389.4	1500.0
62.5°	553.5	612.5	685.2	772.7	870.9	983.2	1071.9	1133.0	1190.4	1305.2	1417.8
65°	614.6	665.8	724.0	800.8	896.9	1005.1	1046.8	1059.1	1095.9	1205.3	1317.1
67.5°	674.5	735.1	768.2	817.3	907.3	1011.3	1016.6	963.4	962.6	1069.1	1150.0
70°	732.2	820.2	833.4	860.6	922.1	1004.7	985.3	882.5	835.8	850.3	897.3
72.5°	694.3	825.9	835.4	843.7	880.4	957.2	934.9	796.2	691.8	673.2	726.5
75°	530.0	697.2	719.4	705.0	725.2	783.8	779.7	671.2	635.7	648.0	668.7
77.5°	381.4	537.4	585.7	538.7	533.3	571.3	560.5	569.6	636.9	655.1	650.1
80°	221.2	341.4	410.3	365.3	349.2	373.1	415.2	478.8	552.3	591.5	598.9
82.5°	138.3	201.4	274.1	256.7	234.9	277.0	342.2	386.8	423.1	459.0	461.1
85°	59.9	86.3	133.7	140.3	173.8	211.3	263.3	276.1	315.8	343.4	319.5
87.5°	2.1	2.1	32.2	47.9	85.0	152.7	206.8	184.9	187.4	164.3	153.1
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9
2.5°	272.4	271.6	272.0	270.8	270.8	271.2	271.2	269.9	269.9	269.9	269.5
5°	281.9	281.1	280.7	279.9	278.6	279.4	278.2	277.4	276.1	275.7	274.5
7.5°	294.3	293.1	292.6	290.6	288.9	288.1	287.3	284.4	283.2	282.3	280.7
10°	308.7	308.7	307.9	303.8	302.6	299.7	296.8	293.5	291.0	287.3	285.2
12.5°	327.3	328.6	325.7	322.0	319.1	313.3	307.9	303.4	298.4	293.1	289.8
15°	355.0	355.8	350.0	346.7	342.2	335.6	327.3	319.9	312.5	305.0	298.8
17.5°	395.8	394.6	386.3	383.0	375.2	364.1	352.9	343.0	331.9	321.5	313.7
20°	454.9	449.9	428.4	427.2	417.3	401.6	385.5	371.1	356.2	343.0	329.8
22.5°	526.7	515.5	499.9	482.1	463.1	445.8	426.8	406.6	388.0	371.5	357.0
25°	620.4	595.6	581.2	557.2	540.7	510.2	483.8	467.7	442.5	423.5	404.9
27.5°	745.4	706.2	685.2	659.2	622.4	601.0	565.1	534.1	507.3	475.9	455.3
30°	907.7	878.8	825.9	789.6	738.8	686.8	642.7	602.2	567.1	529.6	499.0
32.5°	1074.4	1056.3	994.3	926.7	849.5	773.1	708.3	658.4	612.5	570.4	535.4
35°	1216.0	1178.4	1117.8	1046.8	947.7	859.4	777.2	713.7	656.7	604.3	560.1
37.5°	1307.2	1290.7	1229.2	1148.7	1040.2	944.8	859.8	784.7	713.7	645.1	588.2
40°	1408.8	1399.3	1347.7	1249.0	1148.7	1031.9	934.9	855.7	779.3	697.6	622.9
42.5°	1499.6	1508.2	1455.4	1368.7	1252.7	1121.1	1017.9	930.0	842.9	759.5	673.2
45°	1580.9	1596.6	1557.8	1477.3	1350.1	1206.1	1098.4	1002.6	907.7	816.4	720.3
47.5°	1642.0	1658.9	1626.3	1563.1	1430.6	1277.1	1168.9	1061.6	962.1	857.3	755.4
50°	1693.2	1703.1	1678.3	1623.0	1495.9	1346.0	1225.5	1112.8	1002.6	889.5	778.1
52.5°	1722.9	1728.6	1704.3	1664.3	1545.4	1397.2	1269.7	1148.3	1031.1	911.8	792.9
55°	1721.2	1741.4	1713.8	1681.6	1560.7	1421.6	1292.8	1168.5	1052.1	926.2	801.6
57.5°	1689.0	1718.7	1705.9	1665.9	1547.9	1419.9	1296.1	1180.1	1065.8	931.2	797.5
60°	1627.1	1668.0	1677.1	1620.1	1496.7	1374.5	1264.7	1166.9	1053.0	909.3	772.3
62.5°	1539.6	1572.6	1596.2	1518.6	1396.4	1280.4	1194.5	1117.3	1001.4	844.5	720.3
65°	1407.5	1422.8	1429.4	1357.6	1237.9	1160.7	1104.6	1038.1	909.3	752.5	639.8
67.5°	1211.0	1209.0	1215.6	1182.2	1093.8	1053.4	1016.2	944.0	793.7	647.2	534.9
70°	963.0	1005.9	1042.2	1006.7	951.8	911.4	880.4	795.0	634.0	499.9	406.6
72.5°	783.8	818.9	838.7	807.8	754.5	725.6	684.8	599.7	446.2	355.4	279.0
75°	662.1	636.5	648.4	629.0	579.9	538.2	514.7	421.0	292.6	235.3	173.8
77.5°	598.1	557.2	531.2	489.5	433.4	385.9	362.0	261.7	184.5	138.7	100.3
80°	528.7	472.2	404.5	337.2	288.9	259.6	243.1	149.4	101.5	80.5	57.8
82.5°	402.0	348.8	283.2	234.4	192.8	168.0	149.0	85.4	57.4	42.5	33.0
85°	257.6	237.3	216.7	192.8	161.4	129.6	99.9	62.3	42.1	24.4	18.2
87.5°	124.2	103.2	102.4	94.5	90.0	71.0	42.1	14.4	9.1	7.8	5.0
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



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CATALOG NUMBER: ENC-F01-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8



REPORT NUMBER: P159932

CATALOG NUMBER: ENC-F01-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9
2.5°	268.7	268.3	267.5	267.5	267.1	266.6	266.2	266.2	266.6	265.8	265.4
5°	273.2	272.8	271.6	271.2	270.8	269.9	269.9	269.5	269.5	268.7	268.3
7.5°	278.6	277.8	277.0	276.6	275.3	275.3	275.3	276.1	276.1	276.1	276.6
10°	284.0	281.9	281.1	281.1	280.7	281.1	282.3	283.2	284.4	285.2	286.0
12.5°	286.9	284.8	284.0	283.2	284.4	284.4	286.5	288.9	291.0	293.1	293.9
15°	294.3	290.6	288.9	286.9	286.9	286.9	288.9	291.0	293.5	296.0	296.4
17.5°	307.1	300.5	297.2	292.6	291.4	289.8	289.8	290.6	292.2	294.3	294.3
20°	319.9	313.3	307.9	303.0	299.7	295.1	291.8	288.9	287.7	288.5	288.5
22.5°	343.0	335.2	328.6	320.3	312.9	307.1	298.8	291.8	286.5	284.8	283.6
25°	384.7	373.6	362.4	350.0	341.8	331.0	319.5	307.9	297.2	289.8	283.2
27.5°	430.9	415.7	399.6	380.2	366.9	350.8	335.6	319.1	305.9	294.7	282.7
30°	475.1	446.6	423.5	399.1	377.7	355.8	336.8	317.4	303.0	289.8	275.3
32.5°	497.0	463.1	431.7	401.2	375.2	350.0	329.4	307.5	292.2	277.4	260.0
35°	512.2	471.8	434.2	398.7	369.4	341.8	318.2	295.5	277.4	260.5	240.6
37.5°	531.2	480.5	436.3	396.7	362.4	331.0	304.6	279.0	258.4	240.2	219.6
40°	556.0	493.7	438.8	390.9	351.7	316.2	288.9	261.3	239.4	220.0	201.0
42.5°	590.3	511.8	441.7	383.9	339.7	302.6	274.5	247.7	224.5	203.9	184.9
45°	624.1	532.9	449.1	381.8	331.9	293.9	264.2	235.7	211.3	189.5	167.6
47.5°	649.3	548.6	456.9	383.0	327.3	284.8	253.0	221.2	194.0	170.1	147.8
50°	665.4	558.5	463.9	386.3	323.2	272.8	235.3	203.1	175.0	151.5	129.2
52.5°	673.6	561.4	466.4	385.1	312.5	253.8	216.3	185.3	158.5	135.4	115.6
55°	676.1	558.5	461.1	373.6	293.9	234.9	199.0	169.6	143.6	121.8	104.0
57.5°	667.4	546.1	442.1	350.0	269.1	216.7	180.4	151.9	127.1	107.7	91.6
60°	639.4	517.6	408.6	313.3	241.5	192.3	156.0	128.0	107.7	90.8	79.7
62.5°	588.2	469.3	363.2	267.5	203.5	158.9	124.7	100.3	83.8	71.8	66.0
65°	524.2	403.3	295.1	212.6	155.6	118.5	89.6	73.5	61.9	54.9	52.0
67.5°	428.4	315.4	220.8	151.5	107.3	80.5	60.7	52.0	47.1	45.0	44.2
70°	308.3	218.8	146.1	98.2	69.8	54.9	44.2	40.5	38.4	38.4	38.8
72.5°	203.1	135.0	89.2	62.7	49.5	41.3	35.9	34.3	34.3	35.1	35.5
75°	118.9	78.4	54.9	45.8	39.2	34.7	31.8	30.5	30.5	31.0	31.0
77.5°	70.2	48.3	39.2	34.7	31.8	29.7	28.1	26.4	26.0	26.0	27.2
80°	43.3	34.3	30.5	27.7	25.6	23.9	22.3	22.3	22.3	21.9	22.7
82.5°	28.1	24.4	23.9	23.1	20.6	19.0	17.3	17.3	18.2	17.3	17.7
85°	16.9	16.1	15.7	15.7	14.9	14.0	12.8	12.8	14.0	13.6	12.0
87.5°	4.5	4.1	5.4	5.0	5.8	5.8	5.8	6.6	8.7	11.1	8.3
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°



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REPORT NUMBER: P
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°	165°	165°
267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	112.5°	21.2
265.0	265.4	264.6	264.2	264.6	265.0	263.8	263.3	262.9	262.5	262.9	115°	25.0
267.9	267.9	266.6	265.8	265.8	265.4	264.2	263.8	262.1	261.7	262.9	117.5°	29.5
276.1	275.7	274.5	273.2	272.8	272.8	269.9	268.7	267.9	265.4	265.8	120°	34.8
285.6	285.6	286.0	284.4	282.3	281.9	278.6	276.6	275.3	273.2	272.4	122.5°	40.9
293.1	291.8	291.4	288.9	286.9	286.0	283.2	281.5	279.9	277.8	277.4	125°	47.8
295.5	293.1	291.4	288.5	286.0	284.4	281.9	280.3	278.2	277.0	276.1	127.5°	55.3
293.1	290.6	288.1	284.8	281.5	279.4	276.6	274.1	273.2	271.6	269.1	130°	63.0
287.7	284.8	281.9	277.8	274.1	271.2	267.9	265.8	263.3	260.9	255.9	132.5°	70.5
281.1	277.8	274.9	269.5	265.8	262.5	258.8	255.5	252.6	247.7	240.2	135°	77.9
276.6	269.5	264.6	257.2	253.0	248.9	247.2	243.9	239.8	231.1	222.1	137.5°	85.3
269.9	257.2	248.1	240.6	234.9	229.9	227.0	223.3	219.2	210.9	201.4	140°	92.5
258.8	243.9	235.3	227.4	220.8	215.5	210.1	203.1	197.7	188.2	181.6	142.5°	99.2
241.9	229.5	221.7	214.2	205.6	198.5	191.9	183.7	175.8	166.3	160.6	145°	104.9
222.9	211.7	201.8	194.0	184.9	177.9	170.9	161.4	154.0	145.3	139.9	147.5°	110.1
203.1	191.1	179.6	170.5	162.2	154.4	148.2	139.1	131.3	123.0	120.1	150°	115.1
185.3	171.7	159.3	150.2	141.2	133.3	126.7	117.2	110.6	104.8	101.5	152.5°	119.7
168.0	153.5	142.0	132.5	123.4	115.2	106.5	99.1	93.3	90.8	86.3	155°	123.7
148.6	133.7	122.6	112.3	104.8	96.2	89.6	84.6	80.9	78.8	75.9	157.5°	127.0
128.8	116.4	104.8	95.3	86.3	78.8	74.7	72.2	71.0	69.3	68.1	160°	130.3
112.7	102.0	90.4	81.3	73.1	67.7	65.6	64.4	63.6	62.7	62.3	162.5°	133.5
101.5	90.0	79.7	71.0	64.8	61.9	61.1	60.3	59.4	59.0	58.6	165°	136.0
92.9	81.3	71.8	64.4	59.9	59.0	58.6	57.8	57.0	57.0	56.1	167.5°	137.1
82.6	72.6	64.4	59.0	56.5	56.1	55.7	55.3	54.9	54.9	54.5	170°	137.4
71.8	64.4	59.0	55.3	54.5	53.7	52.8	52.0	51.6	52.4	52.8	172.5°	138.6
61.1	56.5	53.2	52.0	51.2	49.9	49.1	48.3	48.3	49.1	50.4	175°	140.5
50.8	49.1	48.3	47.5	47.1	46.6	45.8	45.0	45.0	45.0	45.8	177.5°	141.1
43.8	42.9	42.9	42.5	42.1	42.1	41.3	40.5	40.5	40.5	40.5	180°	140.8
38.4	38.8	38.8	38.8	38.4	38.0	37.6	36.7	36.3	35.5	34.7		
35.5	35.1	34.7	34.3	33.8	33.4	33.0	32.6	31.8	31.0	30.1		
31.8	31.0	29.7	29.3	28.9	28.1	28.1	27.7	26.8	25.6	24.8		
27.7	26.8	25.6	24.8	24.8	24.4	23.5	23.1	21.9	20.6	19.8		
22.3	21.1	19.8	19.4	19.0	18.6	18.2	17.7	17.3	16.1	15.7		
16.5	15.3	14.0	13.6	13.2	12.4	12.0	12.0	12.0	10.7	9.9		
10.7	9.1	7.8	6.6	6.6	6.2	5.4	4.5	3.7	2.5	1.7		
5.4	2.9	1.7	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0		
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		
8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8		
11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8		
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7		
17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8		

'159932
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REPORT NUMBER: P159932
 CATALOG NUMBER: ENC-F01-I

TION (continued):

CANDELA DISTRIBUTION (con

170°	175°	180°	185°	190°	195°	200°	205°	210°	215°		220°	225°
21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°	267.9	267.9
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	262.9	262.5
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	262.9	260.5
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	264.2	262.1
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	269.5	266.2
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	274.1	270.4
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	273.7	268.3
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	265.0	258.8
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	250.5	242.3
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	232.0	224.1
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	213.8	204.7
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	193.6	185.7
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	172.9	165.9
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	153.1	146.5
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	133.3	126.7
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	114.3	108.1
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	96.6	92.0
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	83.8	79.7
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	73.5	70.2
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	66.0	63.6
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	60.7	58.6
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	57.4	55.7
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	54.9	53.7
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	53.2	51.6
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	51.2	49.9
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	49.1	47.5
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	45.4	43.3
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	40.0	38.4
										70°	33.8	33.4
										72.5°	28.5	28.1
										75°	23.9	23.9
										77.5°	19.8	19.4
										80°	15.3	14.4
										82.5°	8.7	8.3
										85°	1.2	0.8
										87.5°	0.0	0.0
										90°	0.1	0.1
										92.5°	0.1	0.1
										95°	0.5	0.5
										97.5°	1.5	1.5
										100°	5.0	5.0
										102.5°	8.8	8.8
										105°	11.8	11.8
										107.5°	14.7	14.7
										110°	17.8	17.8



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CATALOG NUMBER: ENC-F01-LED-E1-SLL

LED-E1-SLL-ULG

tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	112.5°	21.2	21.2	21.2
262.9	263.3	265.0	265.8	266.2	266.2	266.6	267.5	267.9	115°	25.0	25.0	25.0
260.5	261.3	262.1	263.3	263.8	263.8	264.2	265.4	266.6	117.5°	29.5	29.5	29.5
260.9	260.5	260.9	261.7	261.7	261.7	262.1	263.3	264.6	120°	34.8	34.8	34.8
264.2	261.7	260.0	259.6	259.2	259.2	260.0	261.7	262.9	122.5°	40.9	40.9	40.9
267.1	263.8	260.5	258.4	256.7	255.9	256.3	258.0	260.5	125°	47.8	47.8	47.8
264.6	259.6	255.9	253.0	250.5	249.7	250.1	251.4	254.3	127.5°	55.3	55.3	55.3
253.8	248.5	244.4	242.3	241.1	240.6	241.5	243.9	246.4	130°	63.0	63.0	63.0
238.6	235.7	232.0	230.7	228.3	228.3	227.8	227.8	229.1	132.5°	70.5	70.5	70.5
221.7	220.0	216.3	213.4	210.5	210.1	207.2	207.6	207.2	135°	77.9	77.9	77.9
202.3	200.2	195.6	191.5	188.2	186.2	182.9	182.4	181.2	137.5°	85.3	85.3	85.3
182.9	179.6	174.2	170.1	165.9	163.0	160.2	157.3	156.4	140°	92.5	92.5	92.5
163.0	160.2	154.0	150.2	144.5	140.3	137.9	133.7	131.7	142.5°	99.2	99.2	99.2
143.6	140.3	133.3	126.3	122.2	117.2	113.5	108.1	105.7	145°	104.9	104.9	104.9
122.2	120.1	113.1	105.7	102.0	95.3	90.8	86.3	85.4	147.5°	110.1	110.1	110.1
104.8	100.3	94.9	89.2	83.0	79.3	77.2	76.4	75.9	150°	115.1	115.1	115.1
88.7	85.9	80.9	76.8	73.9	73.1	73.1	73.1	73.5	152.5°	119.7	119.7	119.7
78.0	74.3	71.8	70.6	70.6	71.0	71.4	72.2	73.1	155°	123.7	123.7	123.7
68.9	67.7	67.7	67.3	68.1	68.9	70.2	71.4	72.2	157.5°	127.0	127.0	127.0
62.7	63.2	64.0	64.4	66.0	67.3	68.5	69.3	70.2	160°	130.3	130.3	130.3
57.8	58.2	59.0	60.3	61.5	63.2	64.4	65.2	65.6	162.5°	133.5	133.5	133.5
54.9	54.9	56.1	57.4	59.0	60.3	61.5	61.9	62.7	165°	136.0	136.0	136.0
52.4	52.8	54.1	54.9	55.7	56.5	57.4	57.8	59.4	167.5°	137.1	137.1	137.1
50.8	51.2	51.6	50.8	51.6	52.4	53.2	54.1	54.9	170°	137.4	137.4	137.4
48.7	47.9	47.1	47.1	47.5	48.3	49.9	51.2	52.4	172.5°	138.6	138.6	138.6
46.2	45.0	43.8	43.3	43.8	44.6	46.2	47.9	48.7	175°	140.5	140.5	140.5
42.1	41.7	41.3	40.9	41.3	42.1	43.8	45.0	46.2	177.5°	141.1	141.1	141.1
38.0	37.6	37.1	37.6	38.0	38.8	40.5	41.7	42.9	180°	140.8	140.8	140.8
33.0	33.0	33.0	33.4	33.8	35.5	36.7	38.4	38.8				
27.7	28.5	28.5	28.5	29.3	31.4	33.0	34.7	35.5				
23.5	23.1	23.9	23.9	24.8	26.4	27.7	28.9	29.3				
19.0	19.0	19.4	19.4	19.4	20.2	21.1	21.1	21.1				
14.0	13.6	13.2	12.4	12.4	12.8	12.8	12.8	13.6				
6.6	5.4	5.4	5.0	4.5	4.5	4.5	5.4	5.8				
0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8				
0.0	0.4	0.4	0.4	0.8	0.8	0.8	1.2	1.2				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0				
8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8				
11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8				
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				
17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8				



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CANDELA DISTRIBUTION (continued):

235°	240°	245°	250°	255°	260°	265°	270°		275°	280°	285°	290°
21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°	267.9	267.9	267.9	267.9
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	267.5	268.3	268.3	269.1
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	266.6	267.5	267.9	269.1
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	265.4	267.1	267.9	269.5
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	264.2	266.6	268.3	271.2
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	262.9	265.4	268.3	271.2
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	256.7	259.2	263.3	267.5
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	247.7	250.1	253.4	257.2
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	230.3	231.1	234.4	238.6
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	206.0	205.6	207.2	211.7
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	178.3	180.0	178.7	184.1
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	152.7	154.0	155.6	158.1
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	128.4	128.0	129.2	131.3
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	103.2	102.8	103.2	105.3
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	84.6	83.4	84.6	87.5
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	76.4	76.4	77.6	79.7
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	73.9	74.3	75.1	76.8
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	73.5	73.5	73.5	74.3
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	72.6	72.2	72.2	72.2
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	70.6	70.2	70.2	70.2
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	66.0	66.5	66.5	66.9
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	63.2	64.0	64.4	65.2
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	60.3	61.9	63.2	64.0
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	55.7	57.4	58.6	60.7
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	53.2	54.1	54.5	55.7
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	49.9	50.8	51.6	52.0
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	47.1	47.9	49.1	49.5
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	43.8	45.0	45.8	46.2
								70°	40.0	41.7	42.1	42.9
								72.5°	36.3	37.1	37.6	38.4
								75°	30.5	31.8	32.6	33.0
								77.5°	22.7	23.9	25.2	26.4
								80°	14.4	15.7	16.5	17.3
								82.5°	6.6	7.8	8.3	9.1
								85°	1.2	1.2	1.2	1.7
								87.5°	1.2	1.7	1.7	1.7
								90°	0.1	0.1	0.1	0.1
								92.5°	0.1	0.1	0.1	0.1
								95°	0.5	0.5	0.5	0.5
								97.5°	1.5	1.5	1.5	1.5
								100°	5.0	5.0	5.0	5.0
								102.5°	8.8	8.8	8.8	8.8
								105°	11.8	11.8	11.8	11.8
								107.5°	14.7	14.7	14.7	14.7
								110°	17.8	17.8	17.8	17.8

REPORT NUMBER: P159932

CATALOG NUMBER: ENC-F01-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
267.9	267.9	267.9	267.9	267.9	267.9	267.9	112.5°	21.2	21.2	21.2	21.2	21.2
269.1	269.5	270.4	270.4	271.2	271.2	272.0	115°	25.0	25.0	25.0	25.0	25.0
269.9	270.8	272.0	272.4	274.1	274.9	275.7	117.5°	29.5	29.5	29.5	29.5	29.5
271.2	272.4	274.1	275.3	277.4	278.6	279.9	120°	34.8	34.8	34.8	34.8	34.8
273.2	275.3	278.2	279.4	281.1	284.0	286.0	122.5°	40.9	40.9	40.9	40.9	40.9
276.1	279.0	282.7	286.0	288.1	292.2	295.5	125°	47.8	47.8	47.8	47.8	47.8
272.0	278.2	282.7	288.9	294.3	301.3	307.1	127.5°	55.3	55.3	55.3	55.3	55.3
262.1	267.9	275.7	283.6	291.8	303.8	315.4	130°	63.0	63.0	63.0	63.0	63.0
243.9	250.5	259.6	269.5	281.5	297.2	313.7	132.5°	70.5	70.5	70.5	70.5	70.5
217.5	223.3	233.2	244.4	258.0	277.4	301.3	135°	77.9	77.9	77.9	77.9	77.9
189.5	197.3	206.8	218.8	234.0	257.2	282.7	137.5°	85.3	85.3	85.3	85.3	85.3
162.6	170.9	181.2	194.4	212.2	236.9	266.2	140°	92.5	92.5	92.5	92.5	92.5
135.0	144.5	154.0	170.5	188.2	214.2	246.8	142.5°	99.2	99.2	99.2	99.2	99.2
110.2	117.2	128.8	143.6	164.3	189.9	224.5	145°	104.9	104.9	104.9	104.9	104.9
90.4	96.2	107.3	121.8	140.3	165.5	195.6	147.5°	110.1	110.1	110.1	110.1	110.1
82.6	87.1	94.9	105.3	121.8	146.1	171.7	150°	115.1	115.1	115.1	115.1	115.1
79.7	83.8	89.6	98.7	111.4	130.0	151.9	152.5°	119.7	119.7	119.7	119.7	119.7
76.8	80.9	87.5	95.8	106.5	119.7	138.3	155°	123.7	123.7	123.7	123.7	123.7
74.3	78.8	85.9	94.9	104.8	116.4	130.8	157.5°	127.0	127.0	127.0	127.0	127.0
71.8	75.9	83.0	93.3	104.0	116.4	130.8	160°	130.3	130.3	130.3	130.3	130.3
68.1	72.2	79.7	90.4	102.4	116.0	132.5	162.5°	133.5	133.5	133.5	133.5	133.5
66.0	69.8	77.6	89.6	102.4	117.2	135.0	165°	136.0	136.0	136.0	136.0	136.0
64.8	68.1	77.2	90.8	105.7	123.0	142.4	167.5°	137.1	137.1	137.1	137.1	137.1
62.7	66.5	75.9	91.2	109.8	131.3	155.6	170°	137.4	137.4	137.4	137.4	137.4
57.0	61.5	71.8	88.3	108.6	135.0	167.2	172.5°	138.6	138.6	138.6	138.6	138.6
52.4	55.3	64.0	81.3	102.4	130.8	169.2	175°	140.5	140.5	140.5	140.5	140.5
50.4	52.0	57.8	71.8	92.5	123.0	163.0	177.5°	141.1	141.1	141.1	141.1	141.1
47.5	48.3	52.4	63.6	79.3	109.0	147.8	180°	140.8	140.8	140.8	140.8	140.8
43.8	44.2	47.5	54.5	66.0	86.7	123.4						
39.2	40.0	42.1	47.1	54.5	66.5	89.6						
33.8	34.3	35.1	38.4	42.9	51.2	63.6						
27.2	27.2	28.1	29.7	32.2	38.0	45.4						
17.7	19.0	19.8	22.7	23.5	27.7	32.2						
10.3	11.1	11.6	12.4	14.4	16.5	19.8						
1.7	2.5	2.5	3.3	4.1	4.5	5.4						
2.1	2.1	2.1	2.1	2.5	2.5	2.5						
0.1	0.1	0.1	0.1	0.1	0.1	0.1						
0.1	0.1	0.1	0.1	0.1	0.1	0.1						
0.5	0.5	0.5	0.5	0.5	0.5	0.5						
1.5	1.5	1.5	1.5	1.5	1.5	1.5						
5.0	5.0	5.0	5.0	5.0	5.0	5.0						
8.8	8.8	8.8	8.8	8.8	8.8	8.8						
11.8	11.8	11.8	11.8	11.8	11.8	11.8						
14.7	14.7	14.7	14.7	14.7	14.7	14.7						
17.8	17.8	17.8	17.8	17.8	17.8	17.8						



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CATALOG NUMBER: ENC-F01-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

300°	305°	310°	315°	320°	325°		330°	335°	340°	345°	350°	355°
21.2	21.2	21.2	21.2	21.2	21.2	0°	267.9	267.9	267.9	267.9	267.9	267.9
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	272.4	272.0	272.8	273.7	273.2	275.7
29.5	29.5	29.5	29.5	29.5	29.5	5°	277.0	276.6	277.8	278.6	279.0	280.7
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	281.5	281.9	284.0	284.4	285.6	287.7
40.9	40.9	40.9	40.9	40.9	40.9	10°	286.9	288.9	291.4	292.2	294.3	296.8
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	297.6	300.5	303.8	306.3	310.4	315.4
55.3	55.3	55.3	55.3	55.3	55.3	15°	312.5	319.5	324.8	329.8	336.0	341.8
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	325.7	339.3	350.8	361.2	371.1	380.2
70.5	70.5	70.5	70.5	70.5	70.5	20°	331.9	353.3	371.5	390.5	409.5	422.3
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	326.1	356.2	384.3	414.8	443.7	469.7
85.3	85.3	85.3	85.3	85.3	85.3	25°	313.7	350.8	392.5	436.3	480.0	519.7
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	302.1	347.5	395.8	445.8	497.8	545.3
99.2	99.2	99.2	99.2	99.2	99.2	30°	286.9	336.4	389.2	440.8	497.4	553.1
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	264.2	314.5	370.2	426.4	489.1	551.0
110.1	110.1	110.1	110.1	110.1	110.1	35°	237.3	287.7	344.7	403.7	473.4	543.2
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	208.0	257.6	317.0	380.2	452.4	530.4
119.7	119.7	119.7	119.7	119.7	119.7	40°	183.3	227.4	288.9	357.5	433.4	514.3
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	163.5	203.5	261.7	331.0	412.3	495.7
127.0	127.0	127.0	127.0	127.0	127.0	45°	151.9	185.3	238.6	307.5	390.5	476.3
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	149.4	176.2	222.9	289.8	369.4	455.7
133.5	133.5	133.5	133.5	133.5	133.5	50°	151.9	176.7	215.9	278.6	353.3	437.1
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	156.8	180.8	216.7	274.5	346.7	426.0
137.1	137.1	137.1	137.1	137.1	137.1	55°	164.7	191.9	225.4	278.2	345.9	421.4
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	180.4	211.3	245.2	293.5	355.8	426.4
138.6	138.6	138.6	138.6	138.6	138.6	60°	200.2	237.3	278.2	329.4	379.7	442.9
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	212.2	262.9	319.1	378.5	430.1	481.7
141.1	141.1	141.1	141.1	141.1	141.1	65°	210.9	273.7	352.9	437.5	501.9	551.5
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	197.3	265.8	344.7	440.8	537.8	607.6
						70°	164.7	228.7	320.7	436.7	556.0	645.6
						72.5°	131.3	187.8	275.7	385.1	502.7	594.4
						75°	87.5	132.5	203.5	295.5	381.0	460.6
						77.5°	59.4	83.8	127.1	194.0	264.6	329.8
						80°	39.6	52.4	72.6	106.9	148.2	189.9
						82.5°	23.1	28.9	37.1	52.8	78.4	110.6
						85°	6.2	7.8	10.3	13.6	24.4	42.9
						87.5°	2.5	2.1	2.1	2.1	2.1	2.1
						90°	0.1	0.1	0.1	0.1	0.1	0.1
						92.5°	0.1	0.1	0.1	0.1	0.1	0.1
						95°	0.5	0.5	0.5	0.5	0.5	0.5
						97.5°	1.5	1.5	1.5	1.5	1.5	1.5
						100°	5.0	5.0	5.0	5.0	5.0	5.0
						102.5°	8.8	8.8	8.8	8.8	8.8	8.8
						105°	11.8	11.8	11.8	11.8	11.8	11.8
						107.5°	14.7	14.7	14.7	14.7	14.7	14.7
						110°	17.8	17.8	17.8	17.8	17.8	17.8



REPORT NUMBER: P159932

CATALOG NUMBER: ENC-F01-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

360°	330°	335°	340°	345°	350°	355°	360°
267.9	112.5°	21.2	21.2	21.2	21.2	21.2	21.2
273.7	115°	25.0	25.0	25.0	25.0	25.0	25.0
280.3	117.5°	29.5	29.5	29.5	29.5	29.5	29.5
288.1	120°	34.8	34.8	34.8	34.8	34.8	34.8
300.1	122.5°	40.9	40.9	40.9	40.9	40.9	40.9
317.4	125°	47.8	47.8	47.8	47.8	47.8	47.8
348.4	127.5°	55.3	55.3	55.3	55.3	55.3	55.3
388.4	130°	63.0	63.0	63.0	63.0	63.0	63.0
437.5	132.5°	70.5	70.5	70.5	70.5	70.5	70.5
492.8	135°	77.9	77.9	77.9	77.9	77.9	77.9
556.0	137.5°	85.3	85.3	85.3	85.3	85.3	85.3
594.8	140°	92.5	92.5	92.5	92.5	92.5	92.5
603.0	142.5°	99.2	99.2	99.2	99.2	99.2	99.2
608.8	145°	104.9	104.9	104.9	104.9	104.9	104.9
610.5	147.5°	110.1	110.1	110.1	110.1	110.1	110.1
608.0	150°	115.1	115.1	115.1	115.1	115.1	115.1
598.1	152.5°	119.7	119.7	119.7	119.7	119.7	119.7
585.3	155°	123.7	123.7	123.7	123.7	123.7	123.7
569.2	157.5°	127.0	127.0	127.0	127.0	127.0	127.0
549.4	160°	130.3	130.3	130.3	130.3	130.3	130.3
530.8	162.5°	133.5	133.5	133.5	133.5	133.5	133.5
516.4	165°	136.0	136.0	136.0	136.0	136.0	136.0
507.3	167.5°	137.1	137.1	137.1	137.1	137.1	137.1
508.5	170°	137.4	137.4	137.4	137.4	137.4	137.4
521.3	172.5°	138.6	138.6	138.6	138.6	138.6	138.6
553.5	175°	140.5	140.5	140.5	140.5	140.5	140.5
614.6	177.5°	141.1	141.1	141.1	141.1	141.1	141.1
674.5	180°	140.8	140.8	140.8	140.8	140.8	140.8
732.2							
694.3							
530.0							
381.4							
221.2							
138.3							
59.9							
2.1							
0.1							
0.1							
0.5							
1.5							
5.0							
8.8							
11.8							
14.7							
17.8							

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(REPORT)