

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: P173313

Luminaire Tested: **ENC-EXX-LED-E1-SLL-ULG-CWB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P173313
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-EXX-LED-E1-SLL-ULG-CWB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1678.6 lumens
Efficiency: N/A
Efficacy: 305.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U3 - G1

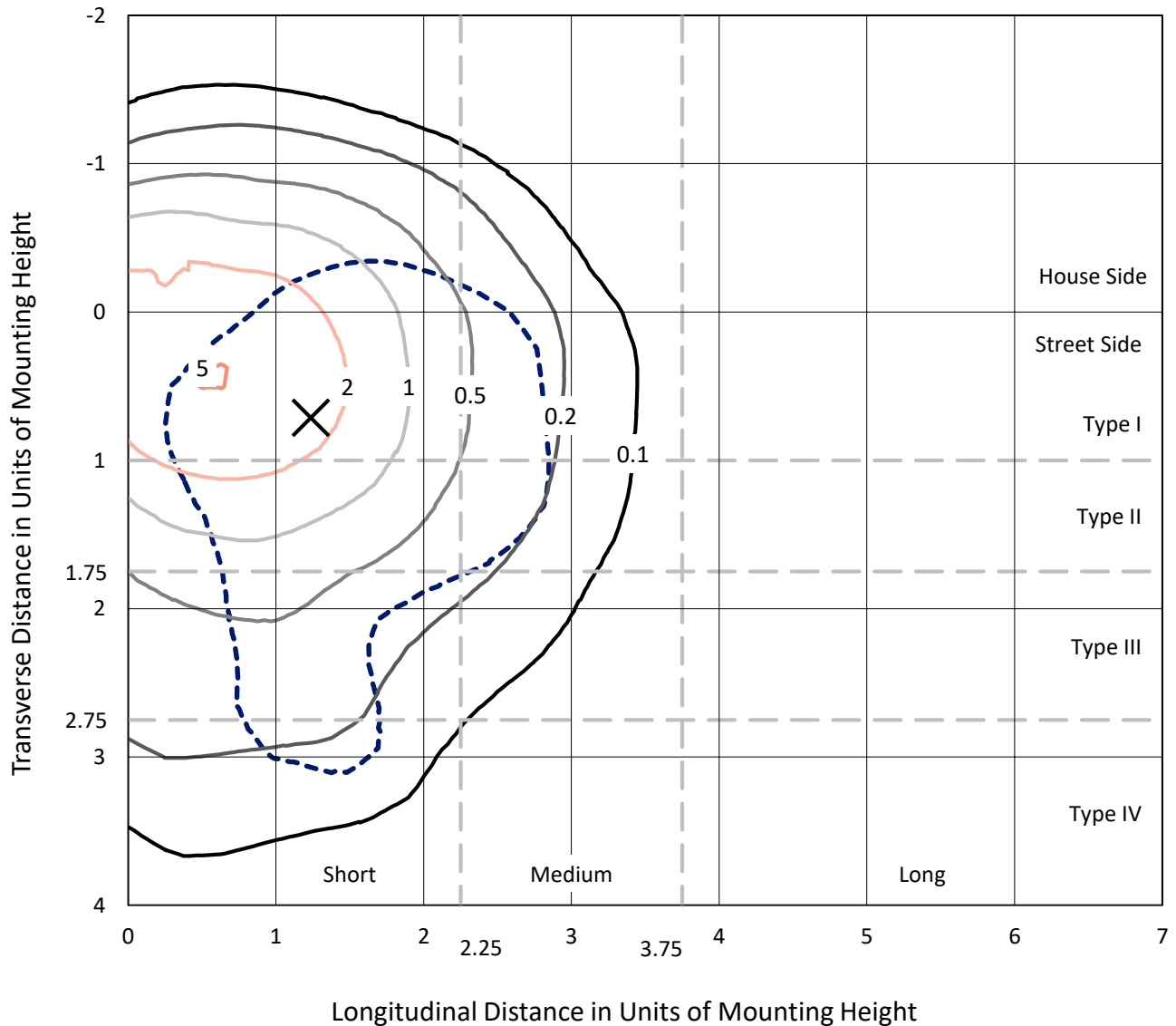
Input Watts (W): 5.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

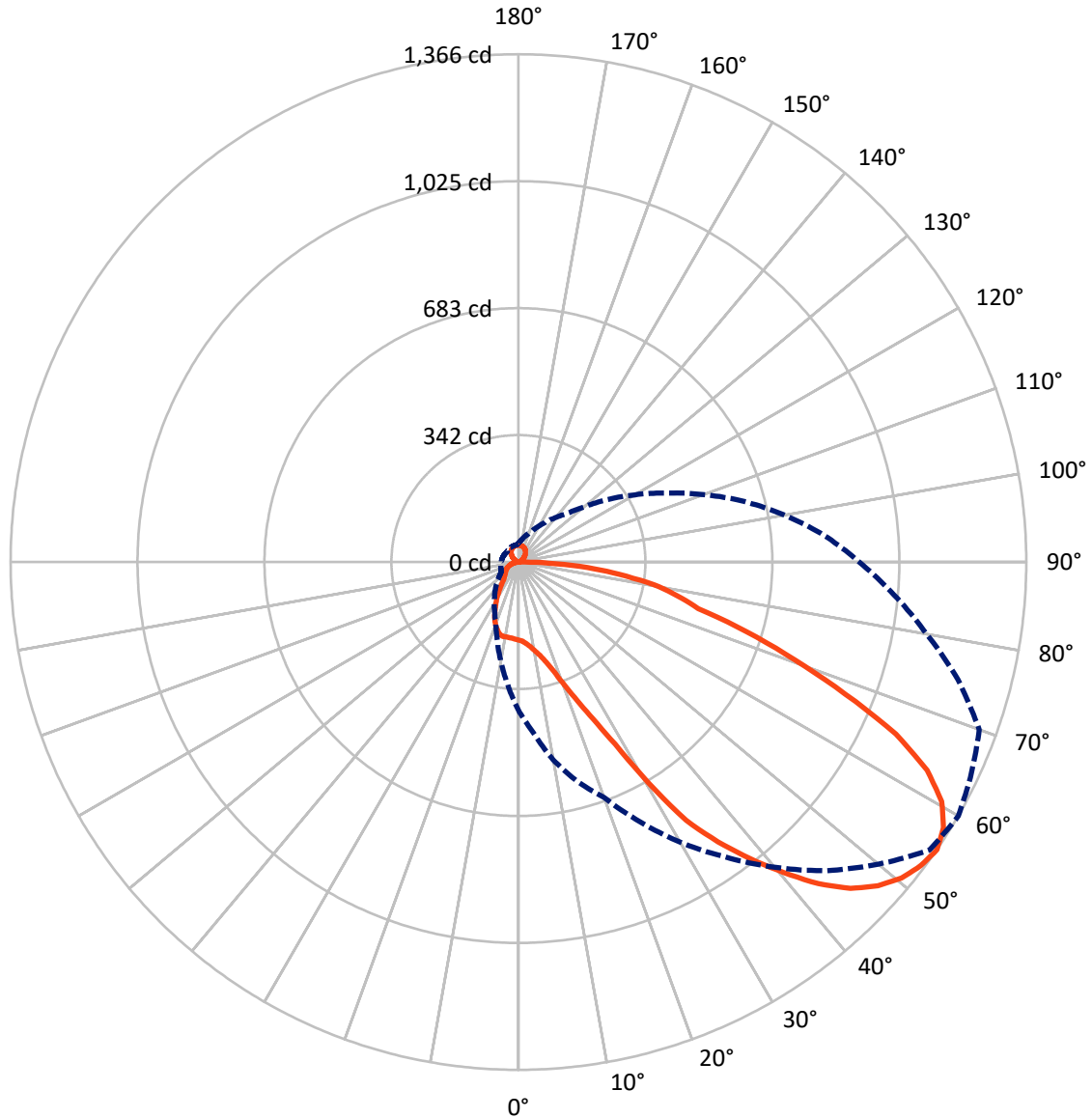
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 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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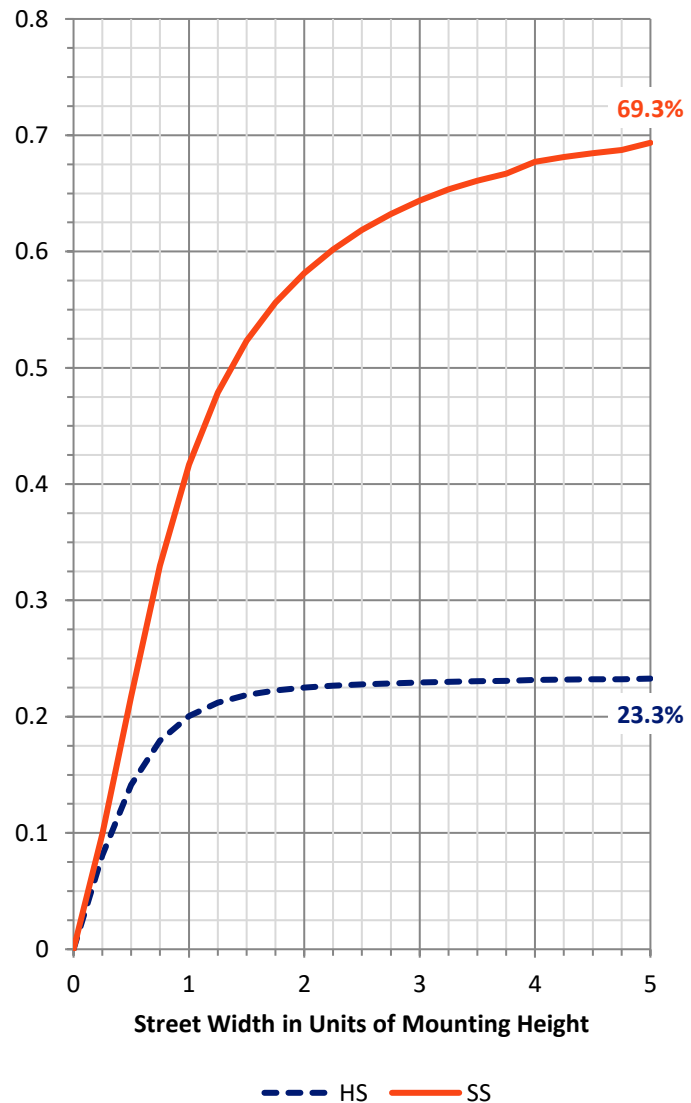
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	394.0	51.1	445.1
	% Fixture	23.5	3.0	26.5
Street Side	Lumens	1182.4	51.1	1233.5
	% Fixture	70.4	3.0	73.5
Total	Lumens	1576.5	102.1	1678.6
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.7	1.2
10°-20°	68.0	4.1
20°-30°	132.0	7.9
30°-40°	207.5	12.4
40°-50°	277.3	16.5
50°-60°	325.4	19.4
60°-70°	308.7	18.4
70°-80°	186.3	11.1
80°-90°	50.5	3.0
90°-100°	0.4	0.0
100°-110°	4.0	0.2
110°-120°	8.2	0.5
120°-130°	13.9	0.8
130°-140°	19.4	1.2
140°-150°	21.2	1.3
150°-160°	18.4	1.1
160°-170°	12.4	0.7
170°-180°	4.3	0.3
0°-90°	1576.5	93.9
0°-180°	1678.6	100.0



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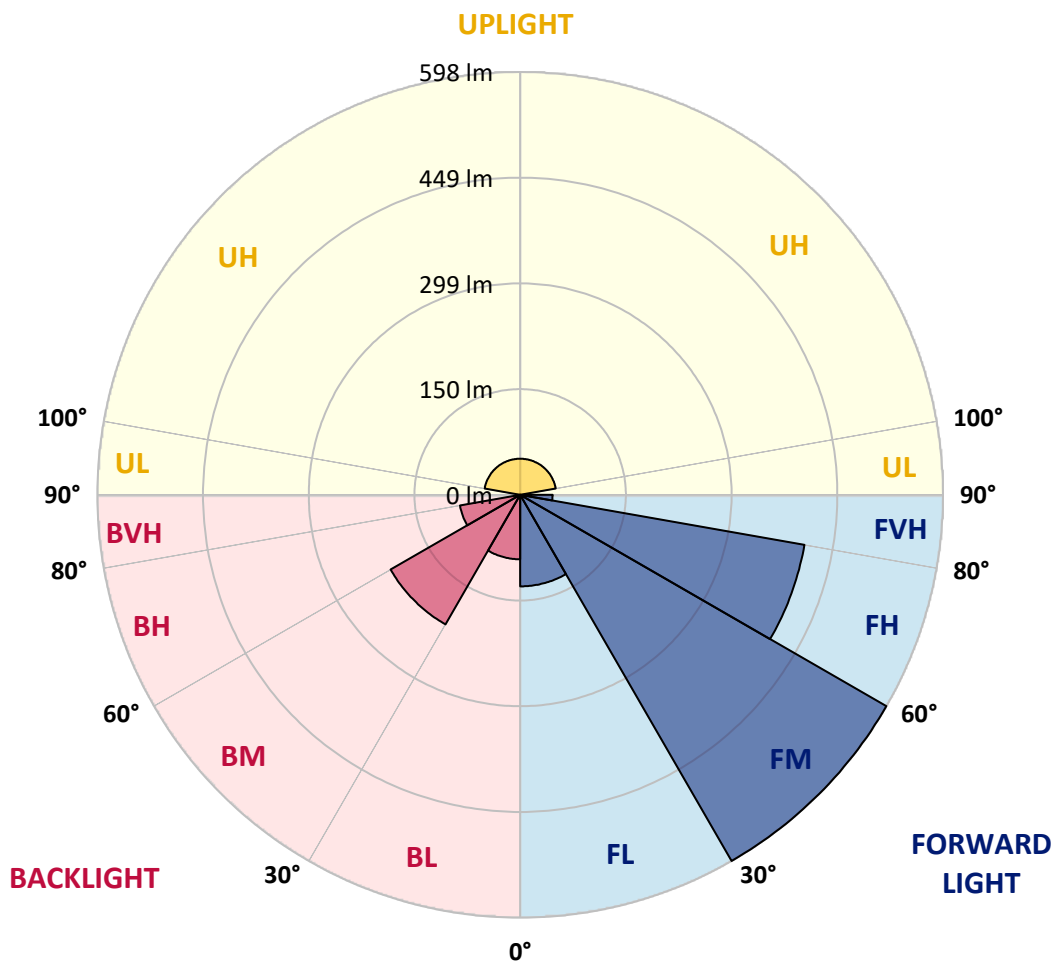
CATALOG NUMBER: ENC-EXX-LED-E1-SLL-ULG-CWB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	129.6	7.7			
FM	(30°-60°)	598.4	35.7			
FH	(60°-80°)	408.5	24.3			G0/660
FVH	(80°-90°)	45.9	2.7			G1/100
BL	(0°-30°)	91.2	5.4	B0/110		
BM	(30°-60°)	211.8	12.6	B0/220		
BH	(60°-80°)	86.5	5.2	B0/110		G0/110
BVH	(80°-90°)	4.6	0.3			G0/10
UL	(90°-100°)	0.4	0.0		U1/10	
UH	(100°-180°)	51.1	3.0		U3/500	

BUG Rating: B0-U3-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1
2.5°	214.7	214.3	214.7	214.3	214.3	214.3	214.7	214.3	213.4	213.4	213.7
5°	219.8	219.8	219.8	220.2	220.2	220.5	221.1	220.5	220.2	221.8	220.5
7.5°	226.0	226.0	227.0	227.3	228.3	228.3	229.5	229.2	230.5	231.5	230.5
10°	235.4	234.4	236.7	236.7	239.3	239.6	240.9	241.2	243.5	245.4	243.8
12.5°	249.0	249.6	253.5	254.2	257.4	257.4	257.4	258.7	260.3	261.6	260.0
15°	273.3	274.6	279.7	280.1	285.6	283.3	285.9	286.2	285.9	286.9	284.6
17.5°	304.7	308.2	315.7	317.3	319.9	324.4	324.4	323.8	325.4	326.4	320.2
20°	343.2	349.3	357.8	361.0	368.1	375.9	375.6	374.3	374.6	372.0	365.2
22.5°	386.6	400.5	414.4	419.6	424.8	434.5	440.6	438.7	440.3	434.5	428.3
25°	436.1	458.8	479.8	487.6	506.4	523.5	526.1	524.8	517.7	512.2	506.0
27.5°	466.5	496.3	525.1	544.9	576.9	604.5	610.0	619.0	621.3	625.8	610.9
30°	473.0	510.2	546.2	576.3	614.8	647.5	683.8	710.7	728.8	743.0	733.3
32.5°	477.5	519.6	559.5	597.3	629.1	676.7	722.3	762.1	815.2	834.7	853.1
35°	478.8	527.1	572.1	614.8	655.9	703.2	752.1	795.8	867.7	925.3	964.8
37.5°	476.9	532.6	585.4	637.5	686.4	738.5	790.0	832.7	902.6	977.1	1030.2
40°	469.1	530.6	590.9	649.5	708.7	773.1	832.1	878.4	943.8	1031.8	1102.4
42.5°	459.1	522.6	588.9	653.4	720.0	795.8	867.0	923.4	995.6	1084.6	1164.9
45°	446.5	512.5	581.2	649.1	721.0	805.2	886.5	958.7	1035.4	1134.5	1211.8
47.5°	430.9	498.3	570.8	639.8	714.5	805.5	895.5	978.1	1062.3	1168.8	1252.3
50°	416.4	483.4	559.1	627.1	702.2	797.4	894.6	986.8	1078.8	1188.9	1276.6
52.5°	405.0	470.8	549.1	617.1	688.0	784.2	884.8	982.6	1081.4	1191.4	1281.1
55°	397.9	460.4	540.7	610.3	673.7	769.9	869.9	968.0	1071.7	1174.3	1264.3
57.5°	398.9	458.4	535.8	609.0	663.4	757.6	853.1	947.3	1041.5	1139.3	1232.2
60°	408.9	462.7	533.2	599.9	669.9	758.9	845.7	924.3	999.8	1089.8	1176.6
62.5°	434.2	480.5	537.4	606.1	683.1	771.2	840.8	888.7	933.7	1023.7	1112.1
65°	482.1	522.2	567.9	628.1	703.5	788.4	821.1	830.8	859.6	945.4	1033.1
67.5°	529.0	576.6	602.5	641.0	711.6	793.2	797.4	755.7	755.0	838.5	902.0
70°	574.4	643.3	653.7	675.0	723.3	788.0	772.8	692.2	655.6	667.0	703.9
72.5°	544.6	647.8	655.3	661.8	690.6	750.8	733.3	624.5	542.6	528.1	569.8
75°	415.7	546.8	564.3	553.0	568.9	614.8	611.6	526.4	498.6	508.3	524.5
77.5°	299.2	421.5	459.4	422.5	418.3	448.1	439.7	446.8	499.6	513.8	509.9
80°	173.5	267.8	321.8	286.5	273.9	292.7	325.7	375.6	433.2	464.0	469.8
82.5°	108.5	158.0	215.0	201.4	184.2	217.2	268.4	303.4	331.9	360.0	361.6
85°	46.9	67.7	104.9	110.1	136.3	165.8	206.6	216.6	247.7	269.4	250.6
87.5°	1.6	1.6	25.3	37.6	66.7	119.8	162.2	145.0	147.0	128.9	120.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
105°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
107.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8



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CATALOG NUMBER: ENC-EXX-LED-E1-SLL-ULG-CWB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
115°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
117.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
120°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
122.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
125°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
127.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
130°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
132.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
135°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
137.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
140°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
142.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
145°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
147.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
150°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
152.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
155°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
157.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
160°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
162.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
165°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
167.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
170°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
172.5°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
175°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
177.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
180°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1
2.5°	213.7	213.0	213.4	212.4	212.4	212.7	212.7	211.7	211.7	211.7	211.4
5°	221.1	220.5	220.2	219.5	218.5	219.2	218.2	217.6	216.6	216.3	215.3
7.5°	230.8	229.9	229.5	227.9	226.6	226.0	225.3	223.1	222.1	221.5	220.2
10°	242.2	242.2	241.5	238.3	237.3	235.1	232.8	230.2	228.3	225.3	223.7
12.5°	256.7	257.7	255.4	252.5	250.3	245.7	241.5	238.0	234.1	229.9	227.3
15°	278.4	279.1	274.6	272.0	268.4	263.2	256.7	250.9	245.1	239.3	234.4
17.5°	310.5	309.5	303.0	300.5	294.3	285.6	276.8	269.0	260.3	252.2	246.1
20°	356.8	352.9	336.1	335.1	327.3	315.0	302.4	291.1	279.4	269.0	258.7
22.5°	413.1	404.4	392.1	378.2	363.3	349.7	334.8	318.9	304.3	291.4	280.1
25°	486.6	467.2	455.9	437.1	424.1	400.2	379.4	366.8	347.1	332.2	317.6
27.5°	584.7	554.0	537.4	517.0	488.2	471.4	443.2	418.9	397.9	373.3	357.1
30°	712.0	689.3	647.8	619.4	579.5	538.7	504.1	472.4	444.8	415.4	391.4
32.5°	842.8	828.5	779.9	726.8	666.3	606.4	555.6	516.4	480.5	447.4	419.9
35°	953.8	924.3	876.7	821.1	743.4	674.1	609.6	559.8	515.1	474.0	439.3
37.5°	1025.4	1012.4	964.2	901.0	815.9	741.1	674.4	615.5	559.8	506.0	461.4
40°	1105.0	1097.6	1057.1	979.7	901.0	809.4	733.3	671.2	611.3	547.2	488.6
42.5°	1176.2	1183.0	1141.6	1073.6	982.6	879.3	798.4	729.4	661.1	595.7	528.1
45°	1240.0	1252.3	1221.9	1158.7	1059.0	946.0	861.5	786.4	712.0	640.4	565.0
47.5°	1287.9	1301.2	1275.6	1226.1	1122.2	1001.7	916.9	832.7	754.7	672.5	592.5
50°	1328.1	1335.8	1316.4	1273.0	1173.3	1055.8	961.3	872.9	786.4	697.7	610.3
52.5°	1351.4	1355.9	1336.8	1305.4	1212.2	1095.9	995.9	900.7	808.8	715.2	621.9
55°	1350.1	1366.0	1344.3	1319.0	1224.1	1115.0	1014.0	916.6	825.3	726.5	628.7
57.5°	1324.8	1348.1	1338.1	1306.7	1214.1	1113.7	1016.6	925.6	836.0	730.4	625.5
60°	1276.3	1308.3	1315.4	1270.8	1174.0	1078.1	992.0	915.3	825.9	713.2	605.8
62.5°	1207.6	1233.5	1252.0	1191.1	1095.3	1004.3	937.0	876.4	785.4	662.4	565.0
65°	1104.0	1116.0	1121.2	1064.9	971.0	910.4	866.4	814.3	713.2	590.2	501.8
67.5°	949.9	948.3	953.5	927.3	858.0	826.2	797.1	740.4	622.6	507.7	419.6
70°	755.3	789.0	817.5	789.7	746.6	714.9	690.6	623.6	497.3	392.1	318.9
72.5°	614.8	642.3	657.9	633.6	591.8	569.2	537.1	470.4	350.0	278.8	218.9
75°	519.3	499.2	508.6	493.4	454.9	422.2	403.7	330.2	229.5	184.5	136.3
77.5°	469.1	437.1	416.7	384.0	340.0	302.7	283.9	205.3	144.7	108.8	78.7
80°	414.7	370.4	317.3	264.5	226.6	203.6	190.7	117.2	79.6	63.1	45.3
82.5°	315.3	273.6	222.1	183.9	151.2	131.8	116.9	67.0	45.0	33.3	25.9
85°	202.0	186.2	170.0	151.2	126.6	101.7	78.4	48.9	33.0	19.1	14.2
87.5°	97.5	80.9	80.3	74.1	70.6	55.7	33.0	11.3	7.1	6.2	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
105°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
107.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8



REPORT NUMBER: P173313

CATALOG NUMBER: ENC-EXX-LED-E1-SLL-ULG-CWB

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
115°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
117.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
120°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
122.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
125°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
127.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
130°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
132.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
135°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
137.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
140°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
142.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
145°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
147.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
150°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
152.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
155°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
157.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
160°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
162.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
165°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
167.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
170°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
172.5°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
175°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
177.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
180°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6



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CATALOG NUMBER: ENC-EXX-LED-E1-SLL-ULG-CWB

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1
2.5°	210.8	210.4	209.8	209.8	209.5	209.2	208.8	208.8	209.2	208.5	208.2
5°	214.3	214.0	213.0	212.7	212.4	211.7	211.7	211.4	211.4	210.8	210.4
7.5°	218.5	217.9	217.2	216.9	215.9	215.9	215.9	216.6	216.6	216.6	216.9
10°	222.7	221.1	220.5	220.5	220.2	220.5	221.5	222.1	223.1	223.7	224.4
12.5°	225.0	223.4	222.7	222.1	223.1	223.1	224.7	226.6	228.3	229.9	230.5
15°	230.8	227.9	226.6	225.0	225.0	225.0	226.6	228.3	230.2	232.1	232.5
17.5°	240.9	235.7	233.1	229.5	228.6	227.3	227.3	227.9	229.2	230.8	230.8
20°	250.9	245.7	241.5	237.6	235.1	231.5	228.9	226.6	225.7	226.3	226.3
22.5°	269.0	262.9	257.7	251.2	245.4	240.9	234.4	228.9	224.7	223.4	222.4
25°	301.7	293.0	284.3	274.6	268.1	259.7	250.6	241.5	233.1	227.3	222.1
27.5°	338.0	326.0	313.4	298.2	287.8	275.2	263.2	250.3	239.9	231.2	221.8
30°	372.7	350.3	332.2	313.1	296.2	279.1	264.2	249.0	237.6	227.3	215.9
32.5°	389.8	363.3	338.7	314.7	294.3	274.6	258.4	241.2	229.2	217.6	204.0
35°	401.8	370.1	340.6	312.8	289.8	268.1	249.6	231.8	217.6	204.3	188.8
37.5°	416.7	376.9	342.2	311.1	284.3	259.7	238.9	218.9	202.7	188.4	172.2
40°	436.1	387.2	344.2	306.6	275.8	248.0	226.6	204.9	187.8	172.6	157.7
42.5°	463.0	401.5	346.4	301.1	266.5	237.3	215.3	194.3	176.1	159.9	145.0
45°	489.5	418.0	352.3	299.5	260.3	230.5	207.2	184.9	165.8	148.6	131.4
47.5°	509.3	430.3	358.4	300.5	256.7	223.4	198.5	173.5	152.2	133.4	115.9
50°	521.9	438.1	363.9	303.0	253.5	214.0	184.5	159.3	137.3	118.8	101.3
52.5°	528.4	440.3	365.9	302.1	245.1	199.1	169.7	145.4	124.3	106.2	90.7
55°	530.3	438.1	361.6	293.0	230.5	184.2	156.1	133.1	112.7	95.5	81.6
57.5°	523.5	428.3	346.7	274.6	211.1	170.0	141.5	119.1	99.7	84.5	71.9
60°	501.5	406.0	320.5	245.7	189.4	150.9	122.4	100.4	84.5	71.2	62.5
62.5°	461.4	368.1	284.9	209.8	159.6	124.6	97.8	78.7	65.7	56.3	51.8
65°	411.2	316.3	231.5	166.7	122.1	92.9	70.3	57.6	48.6	43.1	40.8
67.5°	336.1	247.4	173.2	118.8	84.2	63.1	47.6	40.8	36.9	35.3	34.6
70°	241.9	171.6	114.6	77.1	54.7	43.1	34.6	31.7	30.1	30.1	30.4
72.5°	159.3	105.9	69.9	49.2	38.9	32.4	28.2	26.9	26.9	27.5	27.8
75°	93.2	61.5	43.1	35.9	30.8	27.2	24.9	24.0	24.0	24.3	24.3
77.5°	55.0	37.9	30.8	27.2	24.9	23.3	22.0	20.7	20.4	20.4	21.4
80°	34.0	26.9	24.0	21.7	20.1	18.8	17.5	17.5	17.5	17.2	17.8
82.5°	22.0	19.1	18.8	18.1	16.2	14.9	13.6	13.6	14.2	13.6	13.9
85°	13.3	12.6	12.3	12.3	11.7	11.0	10.0	10.0	11.0	10.7	9.4
87.5°	3.6	3.2	4.2	3.9	4.5	4.5	4.5	5.2	6.8	8.7	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
105°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
107.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0°
115°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°
117.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°
120°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°
122.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°
125°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°
127.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°
130°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°
132.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°
135°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°
137.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°
140°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°
142.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°
145°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°
147.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°
150°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°
152.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°
155°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°
157.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°
160°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°
162.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°
165°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°
167.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°
170°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°
172.5°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°
175°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°
177.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°
180°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	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°

NUMBER: P173313
 NUMBER: ENC-EXX-LED-E1-SLL-ULG-CWB

REPORT NUMBER: P
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION:

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°	112.5°	165°
210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	112.5°	6.9
207.9	208.2	207.5	207.2	207.5	207.9	206.9	206.6	206.2	205.9	206.2	115°	8.1
210.1	210.1	209.2	208.5	208.5	208.2	207.2	206.9	205.6	205.3	206.2	117.5°	9.6
216.6	216.3	215.3	214.3	214.0	214.0	211.7	210.8	210.1	208.2	208.5	120°	11.3
224.0	224.0	224.4	223.1	221.5	221.1	218.5	216.9	215.9	214.3	213.7	122.5°	13.2
229.9	228.9	228.6	226.6	225.0	224.4	222.1	220.8	219.5	217.9	217.6	125°	15.5
231.8	229.9	228.6	226.3	224.4	223.1	221.1	219.8	218.2	217.2	216.6	127.5°	17.9
229.9	227.9	226.0	223.4	220.8	219.2	216.9	215.0	214.3	213.0	211.1	130°	20.4
225.7	223.4	221.1	217.9	215.0	212.7	210.1	208.5	206.6	204.6	200.7	132.5°	22.8
220.5	217.9	215.6	211.4	208.5	205.9	203.0	200.4	198.1	194.3	188.4	135°	25.2
216.9	211.4	207.5	201.7	198.5	195.2	193.9	191.3	188.1	181.3	174.2	137.5°	27.6
211.7	201.7	194.6	188.8	184.2	180.3	178.1	175.2	171.9	165.4	158.0	140°	29.9
203.0	191.3	184.5	178.4	173.2	169.0	164.8	159.3	155.1	147.6	142.5	142.5°	32.1
189.7	180.0	173.9	168.0	161.2	155.7	150.5	144.1	137.9	130.5	125.9	145°	34.0
174.8	166.1	158.3	152.2	145.0	139.5	134.0	126.6	120.8	114.0	109.8	147.5°	35.6
159.3	149.9	140.8	133.7	127.2	121.1	116.2	109.1	103.0	96.5	94.2	150°	37.3
145.4	134.7	125.0	117.8	110.7	104.6	99.4	91.9	86.8	82.2	79.6	152.5°	38.8
131.8	120.4	111.4	103.9	96.8	90.3	83.5	77.7	73.2	71.2	67.7	155°	40.0
116.6	104.9	96.2	88.1	82.2	75.4	70.3	66.4	63.5	61.8	59.6	157.5°	41.1
101.0	91.3	82.2	74.8	67.7	61.8	58.6	56.7	55.7	54.4	53.4	160°	42.2
88.4	80.0	70.9	63.8	57.3	53.1	51.5	50.5	49.9	49.2	48.9	162.5°	43.2
79.6	70.6	62.5	55.7	50.8	48.6	47.9	47.3	46.6	46.3	46.0	165°	44.0
72.8	63.8	56.3	50.5	46.9	46.3	46.0	45.3	44.7	44.7	44.0	167.5°	44.4
64.8	57.0	50.5	46.3	44.4	44.0	43.7	43.4	43.1	43.1	42.7	170°	44.5
56.3	50.5	46.3	43.4	42.7	42.1	41.4	40.8	40.5	41.1	41.4	172.5°	44.9
47.9	44.4	41.8	40.8	40.1	39.2	38.5	37.9	37.9	38.5	39.5	175°	45.5
39.8	38.5	37.9	37.2	36.9	36.6	35.9	35.3	35.3	35.3	35.9	177.5°	45.7
34.3	33.7	33.7	33.3	33.0	33.0	32.4	31.7	31.7	31.7	31.7	180°	45.6
30.1	30.4	30.4	30.4	30.1	29.8	29.5	28.8	28.5	27.8	27.2		
27.8	27.5	27.2	26.9	26.5	26.2	25.9	25.6	24.9	24.3	23.6		
24.9	24.3	23.3	23.0	22.7	22.0	22.0	21.7	21.0	20.1	19.4		
21.7	21.0	20.1	19.4	19.4	19.1	18.5	18.1	17.2	16.2	15.5		
17.5	16.5	15.5	15.2	14.9	14.6	14.2	13.9	13.6	12.6	12.3		
13.0	12.0	11.0	10.7	10.4	9.7	9.4	9.4	9.4	8.4	7.8		
8.4	7.1	6.2	5.2	5.2	4.9	4.2	3.6	2.9	1.9	1.3		
4.2	2.3	1.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6		
2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8		
3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8		
4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8		
5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8		

'173313
 ENC-EXX-LED-E1-SLL-ULG-CWB

REPORT NUMBER: P173313
 CATALOG NUMBER: ENC-EXX-I

TION (continued):

CANDELA DISTRIBUTION (con

170°	175°	180°	185°	190°	195°	200°	205°	210°	215°		220°	225°
6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0°	210.1	210.1
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	206.2	205.9
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	206.2	204.3
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	207.2	205.6
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	211.4	208.8
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	215.0	212.1
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	214.7	210.4
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	207.9	203.0
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	196.5	190.0
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	182.0	175.8
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	167.7	160.6
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	151.8	145.7
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	135.7	130.2
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	120.1	114.9
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	104.6	99.4
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	89.7	84.8
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	75.8	72.2
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	65.7	62.5
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	57.6	55.0
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	51.8	49.9
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	47.6	46.0
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	45.0	43.7
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	43.1	42.1
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	41.8	40.5
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	40.1	39.2
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	38.5	37.2
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	35.6	34.0
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	31.4	30.1
										70°	26.5	26.2
										72.5°	22.3	22.0
										75°	18.8	18.8
										77.5°	15.5	15.2
										80°	12.0	11.3
										82.5°	6.8	6.5
										85°	1.0	0.6
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	0.2	0.2
										97.5°	0.5	0.5
										100°	1.6	1.6
										102.5°	2.8	2.8
										105°	3.8	3.8
										107.5°	4.8	4.8
										110°	5.8	5.8



REPORT NUMBER: P173313

CATALOG NUMBER: ENC-EXX-LED-E1-SLI

LED-E1-SLL-ULG-CWB

tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	112.5°	6.9	6.9	6.9
206.2	206.6	207.9	208.5	208.8	208.8	209.2	209.8	210.1	115°	8.1	8.1	8.1
204.3	204.9	205.6	206.6	206.9	206.9	207.2	208.2	209.2	117.5°	9.6	9.6	9.6
204.6	204.3	204.6	205.3	205.3	205.3	205.6	206.6	207.5	120°	11.3	11.3	11.3
207.2	205.3	204.0	203.6	203.3	203.3	204.0	205.3	206.2	122.5°	13.2	13.2	13.2
209.5	206.9	204.3	202.7	201.4	200.7	201.1	202.4	204.3	125°	15.5	15.5	15.5
207.5	203.6	200.7	198.5	196.5	195.9	196.2	197.2	199.4	127.5°	17.9	17.9	17.9
199.1	194.9	191.7	190.0	189.1	188.8	189.4	191.3	193.3	130°	20.4	20.4	20.4
187.1	184.9	182.0	181.0	179.0	179.0	178.7	178.7	179.7	132.5°	22.8	22.8	22.8
173.9	172.6	169.7	167.4	165.1	164.8	162.5	162.9	162.5	135°	25.2	25.2	25.2
158.6	157.0	153.5	150.2	147.6	146.0	143.4	143.1	142.1	137.5°	27.6	27.6	27.6
143.4	140.8	136.6	133.4	130.2	127.9	125.6	123.4	122.7	140°	29.9	29.9	29.9
127.9	125.6	120.8	117.8	113.3	110.1	108.1	104.9	103.3	142.5°	32.1	32.1	32.1
112.7	110.1	104.6	99.1	95.8	91.9	89.0	84.8	82.9	145°	34.0	34.0	34.0
95.8	94.2	88.7	82.9	80.0	74.8	71.2	67.7	67.0	147.5°	35.6	35.6	35.6
82.2	78.7	74.5	69.9	65.1	62.2	60.5	59.9	59.6	150°	37.3	37.3	37.3
69.6	67.3	63.5	60.2	58.0	57.3	57.3	57.3	57.6	152.5°	38.8	38.8	38.8
61.2	58.3	56.3	55.4	55.4	55.7	56.0	56.7	57.3	155°	40.0	40.0	40.0
54.1	53.1	53.1	52.8	53.4	54.1	55.0	56.0	56.7	157.5°	41.1	41.1	41.1
49.2	49.5	50.2	50.5	51.8	52.8	53.7	54.4	55.0	160°	42.2	42.2	42.2
45.3	45.7	46.3	47.3	48.2	49.5	50.5	51.2	51.5	162.5°	43.2	43.2	43.2
43.1	43.1	44.0	45.0	46.3	47.3	48.2	48.6	49.2	165°	44.0	44.0	44.0
41.1	41.4	42.4	43.1	43.7	44.4	45.0	45.3	46.6	167.5°	44.4	44.4	44.4
39.8	40.1	40.5	39.8	40.5	41.1	41.8	42.4	43.1	170°	44.5	44.5	44.5
38.2	37.6	36.9	36.9	37.2	37.9	39.2	40.1	41.1	172.5°	44.9	44.9	44.9
36.3	35.3	34.3	34.0	34.3	35.0	36.3	37.6	38.2	175°	45.5	45.5	45.5
33.0	32.7	32.4	32.1	32.4	33.0	34.3	35.3	36.3	177.5°	45.7	45.7	45.7
29.8	29.5	29.1	29.5	29.8	30.4	31.7	32.7	33.7	180°	45.6	45.6	45.6
25.9	25.9	25.9	26.2	26.5	27.8	28.8	30.1	30.4				
21.7	22.3	22.3	22.3	23.0	24.6	25.9	27.2	27.8				
18.5	18.1	18.8	18.8	19.4	20.7	21.7	22.7	23.0				
14.9	14.9	15.2	15.2	15.2	15.9	16.5	16.5	16.5				
11.0	10.7	10.4	9.7	9.7	10.0	10.0	10.0	10.7				
5.2	4.2	4.2	3.9	3.6	3.6	3.6	4.2	4.5				
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6				
0.0	0.3	0.3	0.3	0.6	0.6	0.6	1.0	1.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6				
2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8				
3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8				
4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8				
5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8				



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.-ULG-CWB

CANDELA DISTRIBUTION (continued):

235°	240°	245°	250°	255°	260°	265°	270°		275°	280°	285°	290°
6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0°	210.1	210.1	210.1	210.1
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	209.8	210.4	210.4	211.1
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	209.2	209.8	210.1	211.1
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	208.2	209.5	210.1	211.4
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	207.2	209.2	210.4	212.7
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	206.2	208.2	210.4	212.7
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	201.4	203.3	206.6	209.8
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	194.3	196.2	198.8	201.7
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	180.7	181.3	183.9	187.1
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	161.6	161.2	162.5	166.1
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	139.9	141.2	140.2	144.4
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	119.8	120.8	122.1	124.0
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	100.7	100.4	101.3	103.0
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	80.9	80.6	80.9	82.6
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	66.4	65.4	66.4	68.6
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	59.9	59.9	60.9	62.5
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	58.0	58.3	58.9	60.2
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	57.6	57.6	57.6	58.3
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	57.0	56.7	56.7	56.7
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	55.4	55.0	55.0	55.0
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	51.8	52.1	52.1	52.4
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	49.5	50.2	50.5	51.2
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	47.3	48.6	49.5	50.2
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	43.7	45.0	46.0	47.6
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	41.8	42.4	42.7	43.7
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	39.2	39.8	40.5	40.8
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	36.9	37.6	38.5	38.9
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	34.3	35.3	35.9	36.3
								70°	31.4	32.7	33.0	33.7
								72.5°	28.5	29.1	29.5	30.1
								75°	24.0	24.9	25.6	25.9
								77.5°	17.8	18.8	19.7	20.7
								80°	11.3	12.3	13.0	13.6
								82.5°	5.2	6.2	6.5	7.1
								85°	1.0	1.0	1.0	1.3
								87.5°	1.0	1.3	1.3	1.3
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	0.2	0.2	0.2	0.2
								97.5°	0.5	0.5	0.5	0.5
								100°	1.6	1.6	1.6	1.6
								102.5°	2.8	2.8	2.8	2.8
								105°	3.8	3.8	3.8	3.8
								107.5°	4.8	4.8	4.8	4.8
								110°	5.8	5.8	5.8	5.8



REPORT NUMBER: P173313

CATALOG NUMBER: ENC-EXX-LED-E1-SLL-ULG-CWB

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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
210.1	210.1	210.1	210.1	210.1	210.1	210.1	112.5°	6.9	6.9	6.9	6.9	6.9
211.1	211.4	212.1	212.1	212.7	212.7	213.4	115°	8.1	8.1	8.1	8.1	8.1
211.7	212.4	213.4	213.7	215.0	215.6	216.3	117.5°	9.6	9.6	9.6	9.6	9.6
212.7	213.7	215.0	215.9	217.6	218.5	219.5	120°	11.3	11.3	11.3	11.3	11.3
214.3	215.9	218.2	219.2	220.5	222.7	224.4	122.5°	13.2	13.2	13.2	13.2	13.2
216.6	218.9	221.8	224.4	226.0	229.2	231.8	125°	15.5	15.5	15.5	15.5	15.5
213.4	218.2	221.8	226.6	230.8	236.3	240.9	127.5°	17.9	17.9	17.9	17.9	17.9
205.6	210.1	216.3	222.4	228.9	238.3	247.4	130°	20.4	20.4	20.4	20.4	20.4
191.3	196.5	203.6	211.4	220.8	233.1	246.1	132.5°	22.8	22.8	22.8	22.8	22.8
170.6	175.2	182.9	191.7	202.4	217.6	236.3	135°	25.2	25.2	25.2	25.2	25.2
148.6	154.8	162.2	171.6	183.6	201.7	221.8	137.5°	27.6	27.6	27.6	27.6	27.6
127.6	134.0	142.1	152.5	166.4	185.8	208.8	140°	29.9	29.9	29.9	29.9	29.9
105.9	113.3	120.8	133.7	147.6	168.0	193.6	142.5°	32.1	32.1	32.1	32.1	32.1
86.4	91.9	101.0	112.7	128.9	148.9	176.1	145°	34.0	34.0	34.0	34.0	34.0
70.9	75.4	84.2	95.5	110.1	129.8	153.5	147.5°	35.6	35.6	35.6	35.6	35.6
64.8	68.3	74.5	82.6	95.5	114.6	134.7	150°	37.3	37.3	37.3	37.3	37.3
62.5	65.7	70.3	77.4	87.4	102.0	119.1	152.5°	38.8	38.8	38.8	38.8	38.8
60.2	63.5	68.6	75.1	83.5	93.9	108.5	155°	40.0	40.0	40.0	40.0	40.0
58.3	61.8	67.3	74.5	82.2	91.3	102.6	157.5°	41.1	41.1	41.1	41.1	41.1
56.3	59.6	65.1	73.2	81.6	91.3	102.6	160°	42.2	42.2	42.2	42.2	42.2
53.4	56.7	62.5	70.9	80.3	91.0	103.9	162.5°	43.2	43.2	43.2	43.2	43.2
51.8	54.7	60.9	70.3	80.3	91.9	105.9	165°	44.0	44.0	44.0	44.0	44.0
50.8	53.4	60.5	71.2	82.9	96.5	111.7	167.5°	44.4	44.4	44.4	44.4	44.4
49.2	52.1	59.6	71.6	86.1	103.0	122.1	170°	44.5	44.5	44.5	44.5	44.5
44.7	48.2	56.3	69.3	85.1	105.9	131.1	172.5°	44.9	44.9	44.9	44.9	44.9
41.1	43.4	50.2	63.8	80.3	102.6	132.7	175°	45.5	45.5	45.5	45.5	45.5
39.5	40.8	45.3	56.3	72.5	96.5	127.9	177.5°	45.7	45.7	45.7	45.7	45.7
37.2	37.9	41.1	49.9	62.2	85.5	115.9	180°	45.6	45.6	45.6	45.6	45.6
34.3	34.6	37.2	42.7	51.8	68.0	96.8						
30.8	31.4	33.0	36.9	42.7	52.1	70.3						
26.5	26.9	27.5	30.1	33.7	40.1	49.9						
21.4	21.4	22.0	23.3	25.3	29.8	35.6						
13.9	14.9	15.5	17.8	18.5	21.7	25.3						
8.1	8.7	9.1	9.7	11.3	13.0	15.5						
1.3	1.9	1.9	2.6	3.2	3.6	4.2						
1.6	1.6	1.6	1.6	1.9	1.9	1.9						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.2	0.2	0.2	0.2	0.2	0.2	0.2						
0.5	0.5	0.5	0.5	0.5	0.5	0.5						
1.6	1.6	1.6	1.6	1.6	1.6	1.6						
2.8	2.8	2.8	2.8	2.8	2.8	2.8						
3.8	3.8	3.8	3.8	3.8	3.8	3.8						
4.8	4.8	4.8	4.8	4.8	4.8	4.8						
5.8	5.8	5.8	5.8	5.8	5.8	5.8						



REPORT NUMBER: P173313

CATALOG NUMBER: ENC-EXX-LED-E1-SLL-ULG-CWB

CANDELA DISTRIBUTION (continued):

300°	305°	310°	315°	320°	325°		330°	335°	340°	345°	350°	355°
6.9	6.9	6.9	6.9	6.9	6.9	0°	210.1	210.1	210.1	210.1	210.1	210.1
8.1	8.1	8.1	8.1	8.1	8.1	2.5°	213.7	213.4	214.0	214.7	214.3	216.3
9.6	9.6	9.6	9.6	9.6	9.6	5°	217.2	216.9	217.9	218.5	218.9	220.2
11.3	11.3	11.3	11.3	11.3	11.3	7.5°	220.8	221.1	222.7	223.1	224.0	225.7
13.2	13.2	13.2	13.2	13.2	13.2	10°	225.0	226.6	228.6	229.2	230.8	232.8
15.5	15.5	15.5	15.5	15.5	15.5	12.5°	233.4	235.7	238.3	240.2	243.5	247.4
17.9	17.9	17.9	17.9	17.9	17.9	15°	245.1	250.6	254.8	258.7	263.5	268.1
20.4	20.4	20.4	20.4	20.4	20.4	17.5°	255.4	266.1	275.2	283.3	291.1	298.2
22.8	22.8	22.8	22.8	22.8	22.8	20°	260.3	277.1	291.4	306.3	321.2	331.2
25.2	25.2	25.2	25.2	25.2	25.2	22.5°	255.8	279.4	301.4	325.4	348.0	368.4
27.6	27.6	27.6	27.6	27.6	27.6	25°	246.1	275.2	307.9	342.2	376.5	407.6
29.9	29.9	29.9	29.9	29.9	29.9	27.5°	237.0	272.6	310.5	349.7	390.5	427.7
32.1	32.1	32.1	32.1	32.1	32.1	30°	225.0	263.9	305.3	345.8	390.1	433.8
34.0	34.0	34.0	34.0	34.0	34.0	32.5°	207.2	246.7	290.4	334.4	383.7	432.2
35.6	35.6	35.6	35.6	35.6	35.6	35°	186.2	225.7	270.3	316.6	371.4	426.1
37.3	37.3	37.3	37.3	37.3	37.3	37.5°	163.2	202.0	248.6	298.2	354.8	416.0
38.8	38.8	38.8	38.8	38.8	38.8	40°	143.8	178.4	226.6	280.4	340.0	403.4
40.0	40.0	40.0	40.0	40.0	40.0	42.5°	128.2	159.6	205.3	259.7	323.4	388.8
41.1	41.1	41.1	41.1	41.1	41.1	45°	119.1	145.4	187.1	241.2	306.3	373.6
42.2	42.2	42.2	42.2	42.2	42.2	47.5°	117.2	138.2	174.8	227.3	289.8	357.4
43.2	43.2	43.2	43.2	43.2	43.2	50°	119.1	138.6	169.3	218.5	277.1	342.9
44.0	44.0	44.0	44.0	44.0	44.0	52.5°	123.0	141.8	170.0	215.3	272.0	334.1
44.4	44.4	44.4	44.4	44.4	44.4	55°	129.2	150.5	176.8	218.2	271.3	330.6
44.5	44.5	44.5	44.5	44.5	44.5	57.5°	141.5	165.8	192.3	230.2	279.1	334.4
44.9	44.9	44.9	44.9	44.9	44.9	60°	157.0	186.2	218.2	258.4	297.9	347.4
45.5	45.5	45.5	45.5	45.5	45.5	62.5°	166.4	206.2	250.3	296.9	337.4	377.8
45.7	45.7	45.7	45.7	45.7	45.7	65°	165.4	214.7	276.8	343.2	393.7	432.5
45.6	45.6	45.6	45.6	45.6	45.6	67.5°	154.8	208.5	270.3	345.8	421.9	476.6
						70°	129.2	179.4	251.6	342.5	436.1	506.4
						72.5°	103.0	147.3	216.3	302.1	394.3	466.2
						75°	68.6	103.9	159.6	231.8	298.8	361.3
						77.5°	46.6	65.7	99.7	152.2	207.5	258.7
						80°	31.1	41.1	57.0	83.9	116.2	148.9
						82.5°	18.1	22.7	29.1	41.4	61.5	86.8
						85°	4.9	6.2	8.1	10.7	19.1	33.7
						87.5°	1.9	1.6	1.6	1.6	1.6	1.6
						90°	0.0	0.0	0.0	0.0	0.0	0.0
						92.5°	0.0	0.0	0.0	0.0	0.0	0.0
						95°	0.2	0.2	0.2	0.2	0.2	0.2
						97.5°	0.5	0.5	0.5	0.5	0.5	0.5
						100°	1.6	1.6	1.6	1.6	1.6	1.6
						102.5°	2.8	2.8	2.8	2.8	2.8	2.8
						105°	3.8	3.8	3.8	3.8	3.8	3.8
						107.5°	4.8	4.8	4.8	4.8	4.8	4.8
						110°	5.8	5.8	5.8	5.8	5.8	5.8



REPORT NUMBER: P173313

CATALOG NUMBER: ENC-EXX-LED-E1-SLL-ULG-CWB

CANDELA DISTRIBUTION (continued):

360°	330°	335°	340°	345°	350°	355°	360°
210.1	112.5°	6.9	6.9	6.9	6.9	6.9	6.9
214.7	115°	8.1	8.1	8.1	8.1	8.1	8.1
219.8	117.5°	9.6	9.6	9.6	9.6	9.6	9.6
226.0	120°	11.3	11.3	11.3	11.3	11.3	11.3
235.4	122.5°	13.2	13.2	13.2	13.2	13.2	13.2
249.0	125°	15.5	15.5	15.5	15.5	15.5	15.5
273.3	127.5°	17.9	17.9	17.9	17.9	17.9	17.9
304.7	130°	20.4	20.4	20.4	20.4	20.4	20.4
343.2	132.5°	22.8	22.8	22.8	22.8	22.8	22.8
386.6	135°	25.2	25.2	25.2	25.2	25.2	25.2
436.1	137.5°	27.6	27.6	27.6	27.6	27.6	27.6
466.5	140°	29.9	29.9	29.9	29.9	29.9	29.9
473.0	142.5°	32.1	32.1	32.1	32.1	32.1	32.1
477.5	145°	34.0	34.0	34.0	34.0	34.0	34.0
478.8	147.5°	35.6	35.6	35.6	35.6	35.6	35.6
476.9	150°	37.3	37.3	37.3	37.3	37.3	37.3
469.1	152.5°	38.8	38.8	38.8	38.8	38.8	38.8
459.1	155°	40.0	40.0	40.0	40.0	40.0	40.0
446.5	157.5°	41.1	41.1	41.1	41.1	41.1	41.1
430.9	160°	42.2	42.2	42.2	42.2	42.2	42.2
416.4	162.5°	43.2	43.2	43.2	43.2	43.2	43.2
405.0	165°	44.0	44.0	44.0	44.0	44.0	44.0
397.9	167.5°	44.4	44.4	44.4	44.4	44.4	44.4
398.9	170°	44.5	44.5	44.5	44.5	44.5	44.5
408.9	172.5°	44.9	44.9	44.9	44.9	44.9	44.9
434.2	175°	45.5	45.5	45.5	45.5	45.5	45.5
482.1	177.5°	45.7	45.7	45.7	45.7	45.7	45.7
529.0	180°	45.6	45.6	45.6	45.6	45.6	45.6
574.4							
544.6							
415.7							
299.2							
173.5							
108.5							
46.9							
1.6							
0.0							
0.0							
0.2							
0.5							
1.6							
2.8							
3.8							
4.8							
5.8							

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

Scaled Data Report



(REPORT)