

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: P160144

Luminaire Tested: **ENV-E02-LED-E1-SLR-7050-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P160144
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: ENV-E02-LED-E1-SLR-7050-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5311.8 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

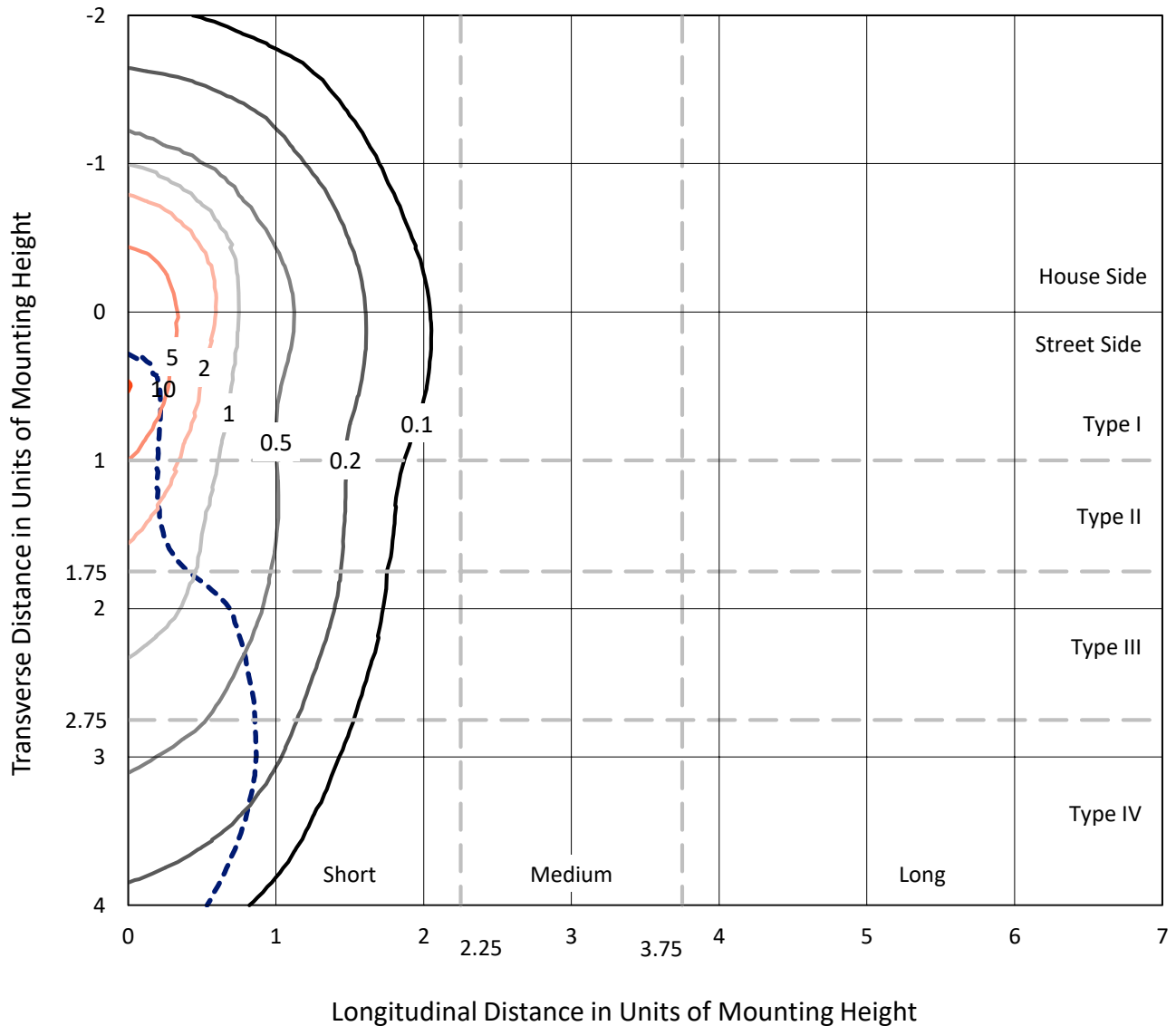
Input Watts (W): 54.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

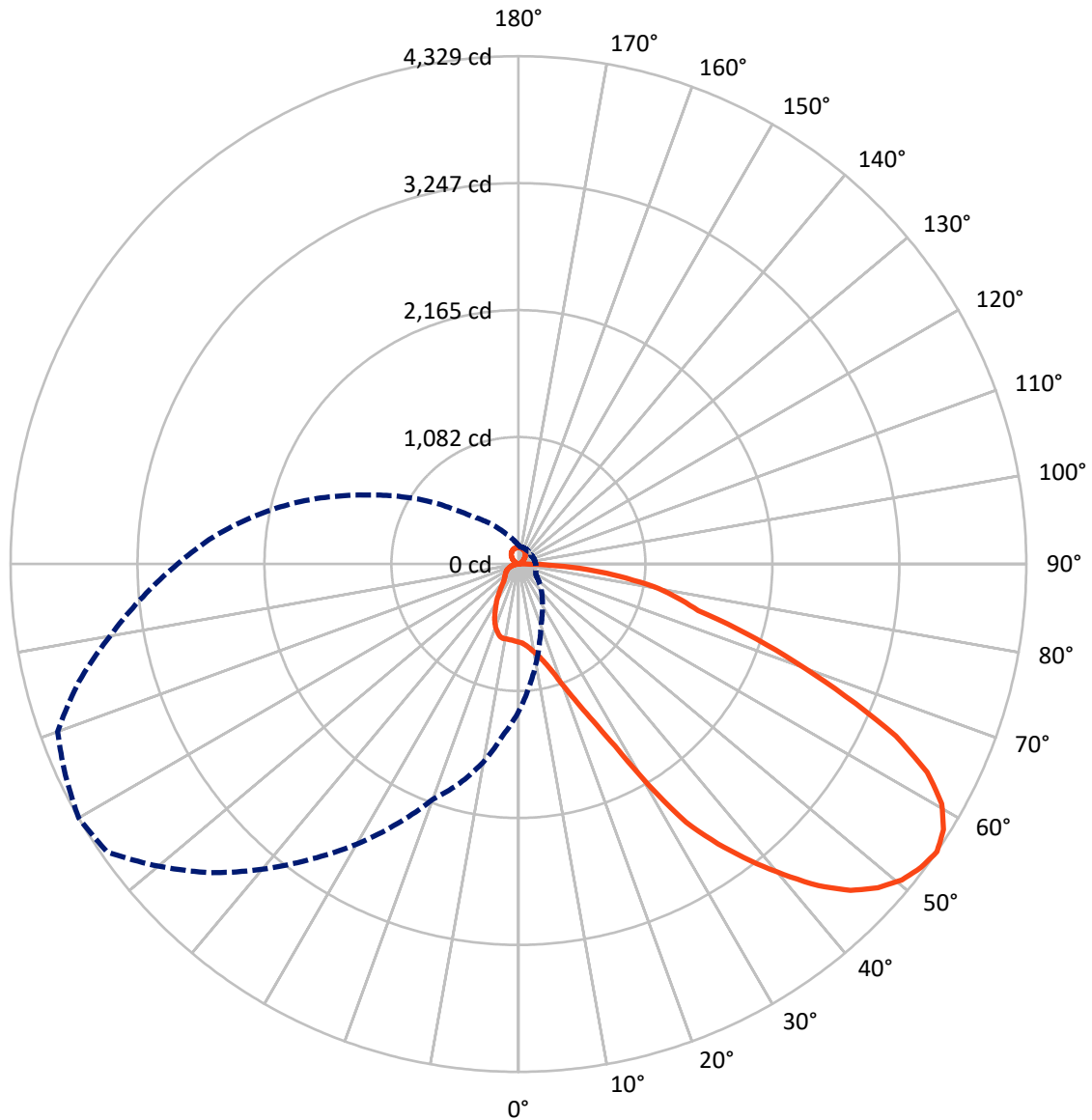
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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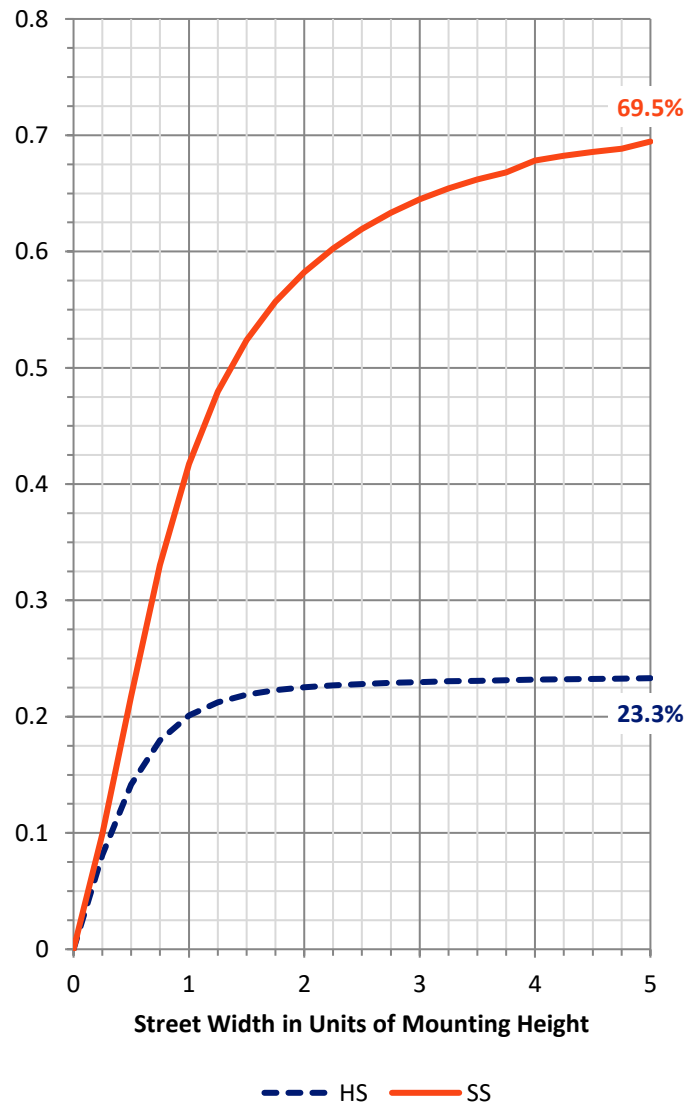
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1248.8	157.7	1406.6
	% Fixture	23.5	3.0	26.5
Street Side	Lumens	3747.5	157.7	3905.2
	% Fixture	70.6	3.0	73.5
Total	Lumens	4996.3	315.5	5311.8
	% Fixture	94.1	5.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.2
10°-20°	215.6	4.1
20°-30°	418.4	7.9
30°-40°	657.5	12.4
40°-50°	879.0	16.5
50°-60°	1031.3	19.4
60°-70°	978.4	18.4
70°-80°	590.5	11.1
80°-90°	160.0	3.0
90°-100°	1.3	0.0
100°-110°	12.3	0.2
110°-120°	25.2	0.5
120°-130°	43.0	0.8
130°-140°	60.0	1.1
140°-150°	65.4	1.2
150°-160°	56.9	1.1
160°-170°	38.2	0.7
170°-180°	13.3	0.3
0°-90°	4996.3	94.1
0°-180°	5311.8	100.0



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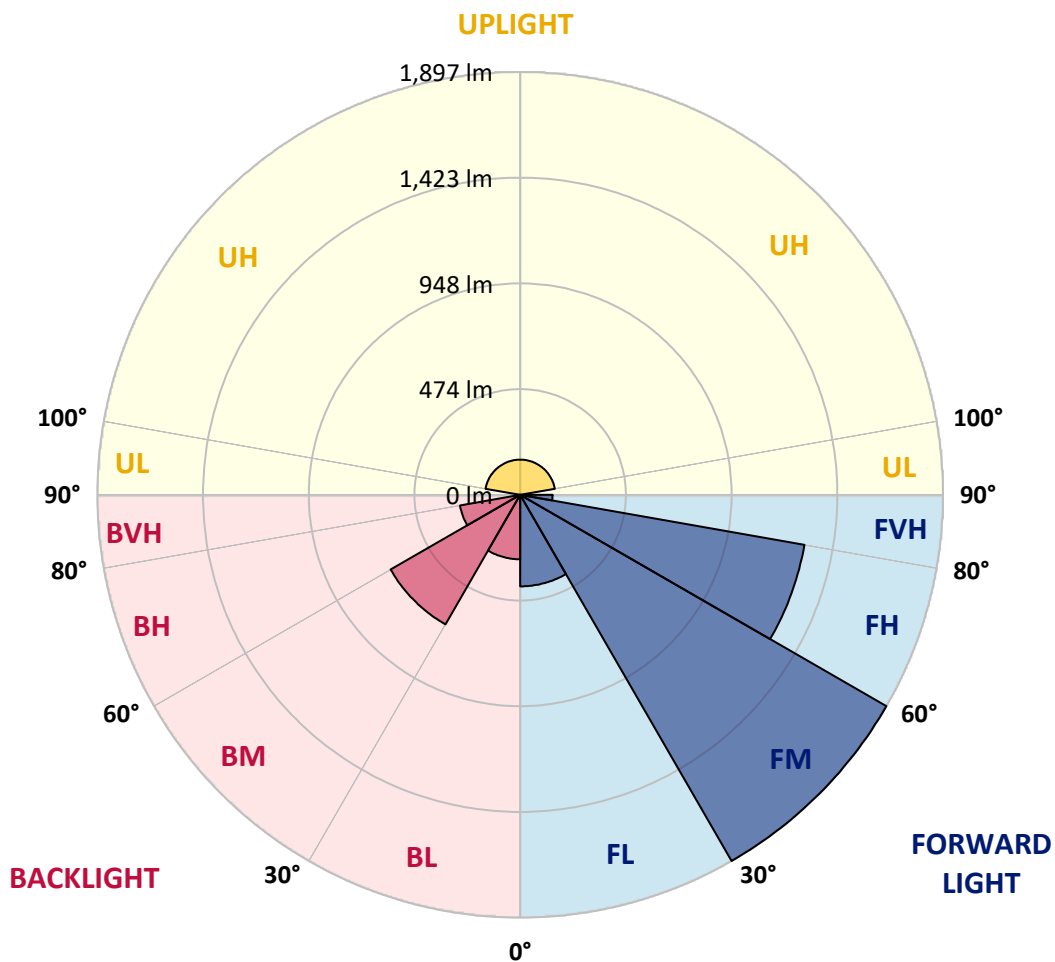
CATALOG NUMBER: ENV-E02-LED-E1-SLR-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	410.6	7.7			
FM	(30°-60°)	1896.7	35.7			
FH	(60°-80°)	1294.7	24.4			G1/1800
FVH	(80°-90°)	145.5	2.7			G2/225
BL	(0°-30°)	289.0	5.4	B1/500		
BM	(30°-60°)	671.1	12.6	B1/1000		
BH	(60°-80°)	274.2	5.2	B1/500		G1/500
BVH	(80°-90°)	14.5	0.3			G1/100
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	157.7	3.0		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9
2.5°	680.3	685.4	679.3	680.3	678.3	676.2	677.2	676.2	674.2	674.2	672.1
5°	696.7	697.8	693.6	692.6	690.6	687.5	688.5	685.4	683.4	681.3	677.2
7.5°	716.2	715.2	710.1	707.0	706.0	700.8	699.8	695.7	692.6	689.5	684.4
10°	746.0	737.8	731.6	726.5	724.4	718.3	713.1	711.1	706.0	698.8	694.7
12.5°	789.1	783.9	771.6	761.4	755.2	747.0	739.8	734.7	726.5	716.2	711.1
15°	866.0	849.6	835.2	819.9	807.5	794.2	776.8	763.4	749.1	731.6	718.3
17.5°	965.6	945.0	922.5	897.8	872.2	843.5	809.6	783.9	755.2	725.5	704.9
20°	1087.7	1049.7	1017.9	970.7	923.5	878.3	825.0	779.8	738.8	699.8	670.0
22.5°	1225.2	1167.7	1103.1	1031.2	955.3	885.5	810.6	749.1	689.5	641.3	607.5
25°	1382.2	1291.9	1193.4	1084.6	975.8	872.2	779.8	702.9	639.3	581.8	543.8
27.5°	1478.6	1355.5	1237.5	1108.2	984.0	864.0	751.1	661.8	589.0	527.4	483.3
30°	1499.1	1375.0	1236.5	1095.9	967.6	836.3	713.1	613.6	532.5	467.9	423.8
32.5°	1513.5	1369.9	1215.9	1060.0	920.4	781.9	656.7	558.2	472.0	408.4	357.1
35°	1517.6	1350.4	1176.9	1003.5	856.8	715.2	590.0	486.4	411.5	348.9	302.7
37.5°	1511.5	1318.5	1124.6	945.0	788.0	640.3	517.2	426.9	363.2	302.7	261.7
40°	1486.8	1278.5	1077.4	888.6	718.3	565.4	455.6	377.6	323.2	277.0	245.2
42.5°	1455.0	1232.4	1025.1	822.9	650.6	505.9	406.3	343.7	297.6	264.7	238.1
45°	1415.0	1184.1	970.7	764.4	593.1	460.7	377.6	325.3	289.4	260.6	236.0
47.5°	1365.7	1132.8	918.4	720.3	554.1	438.1	371.5	325.3	289.4	258.6	231.9
50°	1319.6	1086.6	878.3	692.6	536.7	439.2	377.6	329.4	288.3	254.5	224.7
52.5°	1283.7	1058.9	861.9	682.4	538.7	449.4	389.9	335.5	291.4	254.5	222.7
55°	1261.1	1047.7	859.9	691.6	560.3	477.1	409.4	354.0	305.8	262.7	225.7
57.5°	1264.2	1060.0	884.5	729.6	609.5	525.4	448.4	386.8	326.3	272.9	226.8
60°	1296.0	1101.0	944.0	818.8	691.6	590.0	497.7	415.6	335.5	269.9	219.6
62.5°	1376.0	1197.5	1069.2	940.9	793.2	653.6	527.4	420.7	325.3	254.5	202.1
65°	1527.9	1370.9	1247.7	1087.7	877.3	680.3	524.3	405.3	305.8	229.8	178.5
67.5°	1676.7	1510.4	1337.0	1095.9	856.8	660.8	490.5	367.3	270.9	197.0	158.0
70°	1820.3	1604.8	1382.2	1085.6	797.3	568.5	409.4	306.8	215.5	164.2	135.4
72.5°	1725.9	1477.6	1249.8	957.4	685.4	466.9	326.3	222.7	165.2	135.4	117.0
75°	1317.5	1145.1	947.1	734.7	505.9	329.4	217.5	158.0	127.2	106.7	95.4
77.5°	948.1	819.9	657.7	482.3	316.0	208.3	147.8	112.9	94.4	80.0	73.9
80°	550.0	472.0	368.4	265.8	180.6	130.3	98.5	80.0	68.7	58.5	56.4
82.5°	343.7	275.0	195.0	131.3	92.3	71.8	57.5	49.3	41.0	35.9	30.8
85°	148.8	106.7	60.5	33.9	25.7	19.5	15.4	13.3	11.3	10.3	8.2
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	6.2	6.2	6.2	6.2	5.1
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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CATALOG NUMBER: ENV-E02-LED-E1-SLR-7050-ULG

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°	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9
2.5°	672.1	670.0	669.0	669.0	667.0	667.0	664.9	665.9	664.9	662.9	661.8
5°	676.2	673.1	671.1	669.0	665.9	664.9	662.9	662.9	659.8	656.7	655.7
7.5°	681.3	677.2	674.2	670.0	665.9	663.9	659.8	657.7	654.7	651.6	650.6
10°	691.6	684.4	679.3	674.2	667.0	662.9	656.7	653.6	650.6	646.4	644.4
12.5°	702.9	693.6	686.5	674.2	667.0	659.8	653.6	647.5	641.3	637.2	636.2
15°	702.9	691.6	676.2	664.9	654.7	644.4	638.2	632.1	624.9	621.8	620.8
17.5°	685.4	665.9	651.6	639.3	630.0	621.8	615.7	612.6	606.4	600.3	598.2
20°	645.4	622.8	606.4	593.1	582.8	574.6	572.6	569.5	566.4	566.4	567.4
22.5°	579.7	555.1	540.8	526.4	515.1	511.0	512.0	515.1	516.1	515.1	522.3
25°	514.1	490.5	471.0	457.6	444.3	447.4	443.3	450.5	453.5	454.6	462.8
27.5°	450.5	424.8	404.3	393.0	386.8	382.7	379.7	388.9	390.9	398.1	405.3
30°	382.7	359.1	335.5	326.3	321.2	318.1	319.1	327.3	332.5	342.7	348.9
32.5°	320.1	291.4	274.0	261.7	256.5	255.5	256.5	262.7	268.8	282.2	291.4
35°	266.8	239.1	224.7	217.5	210.4	207.3	210.4	212.4	214.5	225.7	237.0
37.5°	236.0	216.5	205.2	198.0	192.9	189.8	189.8	188.8	189.8	191.9	197.0
40°	222.7	208.3	198.0	190.9	186.8	184.7	183.7	182.6	181.6	181.6	181.6
42.5°	217.5	201.1	190.9	184.7	182.6	182.6	182.6	181.6	179.6	177.5	176.5
45°	213.4	196.0	184.7	179.6	179.6	179.6	180.6	179.6	177.5	174.4	171.4
47.5°	206.2	188.8	178.5	174.4	174.4	174.4	175.5	174.4	172.4	170.3	167.3
50°	198.0	179.6	169.3	166.2	165.2	165.2	164.2	163.2	162.1	160.1	157.0
52.5°	192.9	173.4	164.2	162.1	160.1	159.0	157.0	156.0	153.9	152.9	149.8
55°	191.9	169.3	161.1	159.0	157.0	153.9	149.8	147.8	143.7	142.6	140.6
57.5°	188.8	165.2	156.0	150.8	145.7	142.6	138.5	136.5	134.4	132.4	130.3
60°	178.5	152.9	141.6	138.5	135.4	134.4	132.4	130.3	127.2	124.2	120.1
62.5°	159.0	137.5	130.3	129.3	128.3	126.2	124.2	121.1	119.0	114.9	110.8
65°	143.7	129.3	125.2	123.1	122.1	119.0	117.0	114.9	111.8	108.8	104.7
67.5°	130.3	120.1	118.0	114.9	113.9	111.8	108.8	106.7	103.6	100.6	96.5
70°	118.0	109.8	108.8	106.7	104.7	103.6	99.5	96.5	95.4	91.3	88.2
72.5°	104.7	99.5	97.5	95.4	93.4	92.3	90.3	88.2	86.2	82.1	78.0
75°	87.2	85.2	84.1	82.1	81.1	79.0	75.9	72.9	71.8	68.7	65.7
77.5°	69.8	67.7	67.7	65.7	62.6	59.5	56.4	52.3	52.3	52.3	50.3
80°	49.3	47.2	44.1	43.1	41.0	39.0	35.9	33.9	31.8	31.8	31.8
82.5°	28.7	27.7	25.7	22.6	20.5	19.5	16.4	14.4	13.3	11.3	11.3
85°	6.2	6.2	4.1	4.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0
87.5°	5.1	5.1	5.1	4.1	4.1	4.1	3.1	3.1	3.1	2.1	2.1
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



REPORT NUMBER: P160144

CATALOG NUMBER: ENV-E02-LED-E1-SLR-7050-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



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CATALOG NUMBER: ENV-E02-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9
2.5°	661.8	660.8	658.8	654.7	653.6	652.6	653.6	653.6	652.6	653.6	654.7
5°	655.7	654.7	651.6	649.5	647.5	647.5	653.6	653.6	650.6	651.6	655.7
7.5°	650.6	650.6	648.5	647.5	648.5	651.6	656.7	660.8	659.8	665.9	668.0
10°	644.4	645.4	646.4	650.6	656.7	661.8	670.0	677.2	679.3	684.4	687.5
12.5°	638.2	642.3	647.5	655.7	663.9	672.1	681.3	689.5	690.6	695.7	699.8
15°	622.8	629.0	636.2	645.4	657.7	667.0	680.3	686.5	688.5	691.6	696.7
17.5°	599.2	602.3	607.5	617.7	631.1	643.4	658.8	669.0	675.2	679.3	681.3
20°	567.4	573.6	576.7	585.9	593.1	602.3	622.8	636.2	648.5	654.7	660.8
22.5°	523.3	530.5	537.7	546.9	551.0	557.2	576.7	597.2	615.7	628.0	635.2
25°	467.9	476.1	486.4	497.7	502.8	508.9	531.5	552.0	574.6	596.2	606.4
27.5°	412.5	422.8	433.0	446.4	454.6	461.7	481.2	500.7	524.3	544.9	555.1
30°	359.1	373.5	382.7	398.1	405.3	412.5	429.9	451.5	467.9	491.5	504.8
32.5°	303.7	314.0	331.4	348.9	357.1	364.3	380.7	399.2	413.5	437.1	456.6
35°	253.4	262.7	281.2	298.6	303.7	315.0	331.4	347.8	361.2	382.7	401.2
37.5°	206.2	221.6	236.0	249.3	260.6	268.8	284.2	298.6	305.8	326.3	345.8
40°	183.7	190.9	201.1	213.4	220.6	228.8	240.1	252.4	260.6	275.0	291.4
42.5°	175.5	175.5	178.5	184.7	193.9	198.0	208.3	214.5	225.7	231.9	246.3
45°	169.3	167.3	168.3	168.3	171.4	174.4	182.6	188.8	196.0	201.1	210.4
47.5°	164.2	160.1	159.0	157.0	156.0	158.0	164.2	169.3	172.4	176.5	179.6
50°	152.9	149.8	146.7	144.7	143.7	145.7	150.8	154.9	156.0	158.0	160.1
52.5°	146.7	142.6	139.6	136.5	136.5	138.5	142.6	145.7	146.7	147.8	149.8
55°	138.5	136.5	134.4	131.3	130.3	133.4	136.5	139.6	141.6	141.6	143.7
57.5°	128.3	126.2	128.3	127.2	126.2	128.3	132.4	135.4	136.5	136.5	137.5
60°	118.0	117.0	117.0	119.0	121.1	124.2	127.2	131.3	130.3	128.3	129.3
62.5°	108.8	107.7	108.8	111.8	114.9	118.0	122.1	125.2	122.1	120.1	120.1
65°	102.6	101.6	102.6	103.6	104.7	107.7	112.9	113.9	111.8	111.8	111.8
67.5°	94.4	93.4	92.3	93.4	94.4	95.4	99.5	100.6	100.6	100.6	100.6
70°	84.1	83.1	82.1	82.1	82.1	83.1	84.1	86.2	88.2	90.3	91.3
72.5°	72.9	70.8	70.8	70.8	68.7	69.8	70.8	74.9	77.0	79.0	81.1
75°	61.6	59.5	59.5	57.5	58.5	59.5	59.5	61.6	63.6	66.7	68.7
77.5°	48.2	48.2	48.2	47.2	47.2	48.2	49.3	49.3	51.3	54.4	57.5
80°	30.8	30.8	32.8	33.9	34.9	35.9	38.0	39.0	40.0	43.1	44.1
82.5°	11.3	12.3	13.3	13.3	16.4	20.5	21.5	24.6	26.7	29.8	29.8
85°	1.0	1.0	1.0	1.0	1.0	2.1	3.1	4.1	6.2	9.2	11.3
87.5°	2.1	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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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°
665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	112.5°	21.2
655.7	658.8	657.7	656.7	657.7	659.8	658.8	659.8	660.8	662.9	661.8	115°	25.0
656.7	659.8	660.8	660.8	662.9	665.9	665.9	667.0	668.0	670.0	670.0	117.5°	29.5
671.1	678.3	678.3	679.3	682.4	685.4	686.5	687.5	686.5	686.5	686.5	120°	34.8
692.6	700.8	701.9	707.0	711.1	710.1	710.1	711.1	709.0	707.0	703.9	122.5°	40.9
703.9	711.1	713.1	718.3	724.4	725.5	728.5	730.6	728.5	723.4	718.3	125°	47.8
700.8	707.0	711.1	717.2	724.4	728.5	734.7	736.7	735.7	729.6	723.4	127.5°	55.3
687.5	694.7	699.8	708.0	716.2	722.4	728.5	731.6	731.6	726.5	722.4	130°	63.0
665.9	674.2	681.3	690.6	700.8	708.0	715.2	717.2	717.2	715.2	718.3	132.5°	70.5
643.4	652.6	660.8	670.0	683.4	690.6	698.8	704.9	708.0	712.1	725.5	135°	77.9
614.6	618.7	629.0	639.3	657.7	670.0	687.5	703.9	720.3	738.8	765.5	137.5°	85.3
564.4	571.5	583.9	598.2	616.7	639.3	671.1	702.9	732.6	760.3	793.2	140°	92.5
522.3	535.6	549.0	565.4	584.9	606.4	643.4	684.4	720.3	753.2	789.1	142.5°	99.2
477.1	493.6	511.0	532.5	551.0	570.5	601.3	646.4	689.5	726.5	764.4	145°	104.9
424.8	442.3	459.7	482.3	501.8	526.4	554.1	598.2	647.5	689.5	734.7	147.5°	110.1
368.4	383.8	403.3	423.8	446.4	475.1	504.8	545.9	597.2	642.3	693.6	150°	115.1
315.0	331.4	350.9	373.5	396.1	426.9	460.7	499.7	546.9	595.1	649.5	152.5°	119.7
264.7	286.3	306.8	329.4	353.0	381.7	417.6	459.7	506.9	558.2	615.7	155°	123.7
222.7	239.1	260.6	279.1	304.8	332.5	369.4	416.6	471.0	525.4	585.9	157.5°	127.0
185.7	196.0	214.5	237.0	260.6	289.4	320.1	367.3	422.8	482.3	550.0	160°	130.3
163.2	168.3	181.6	202.1	224.7	253.4	280.1	321.2	376.6	435.1	504.8	162.5°	133.5
151.9	153.9	161.1	176.5	198.0	223.7	252.4	287.3	336.6	394.0	460.7	165°	136.0
145.7	146.7	148.8	160.1	178.5	202.1	230.9	258.6	302.7	357.1	421.7	167.5°	137.1
138.5	139.6	140.6	146.7	160.1	180.6	205.2	227.8	267.8	316.0	377.6	170°	137.4
131.3	133.4	135.4	137.5	146.7	160.1	178.5	198.0	225.7	267.8	318.1	172.5°	138.6
122.1	124.2	127.2	129.3	132.4	140.6	151.9	164.2	178.5	208.3	249.3	175°	140.5
113.9	115.9	117.0	118.0	120.1	122.1	126.2	129.3	136.5	153.9	182.6	177.5°	141.1
102.6	104.7	104.7	105.7	106.7	106.7	108.8	109.8	111.8	117.0	129.3	180°	140.8
93.4	94.4	95.4	96.5	96.5	96.5	95.4	96.5	95.4	95.4	100.6		
82.1	83.1	84.1	85.2	86.2	87.2	88.2	88.2	87.2	85.2	85.2		
69.8	69.8	71.8	72.9	73.9	77.0	79.0	77.0	77.0	75.9	75.9		
58.5	60.5	61.6	61.6	63.6	66.7	68.7	67.7	64.6	64.6	65.7		
45.1	46.2	47.2	48.2	49.3	52.3	55.4	56.4	54.4	55.4	55.4		
29.8	30.8	32.8	33.9	34.9	38.0	41.0	44.1	43.1	45.1	43.1		
13.3	15.4	16.4	16.4	19.5	22.6	26.7	29.8	33.9	34.9	31.8		
0.0	1.0	1.0	1.0	4.1	7.2	13.3	20.5	27.7	21.5	16.4		
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		

'160144
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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°	665.9	665.9
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	661.8	662.9
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	671.1	671.1
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	684.4	684.4
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	701.9	698.8
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	712.1	707.0
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	718.3	713.1
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	720.3	720.3
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	725.5	733.7
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	742.9	763.4
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	794.2	822.9
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	834.2	872.2
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	837.3	884.5
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	818.8	870.1
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	791.1	849.6
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	757.3	822.9
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	718.3	786.0
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	682.4	752.1
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	656.7	730.6
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	629.0	708.0
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	584.9	678.3
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	537.7	631.1
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	494.6	583.9
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	448.4	538.7
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	387.9	478.2
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	309.9	395.1
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	222.7	294.5
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	150.8	200.1
										70°	109.8	136.5
										72.5°	89.3	102.6
										75°	79.0	86.2
										77.5°	69.8	73.9
										80°	55.4	59.5
										82.5°	43.1	47.2
										85°	31.8	34.9
										87.5°	14.4	14.4
										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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tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	665.9	112.5°	21.2	21.2	21.2
663.9	664.9	664.9	667.0	668.0	670.0	671.1	671.1	671.1	115°	25.0	25.0	25.0
673.1	674.2	675.2	678.3	679.3	682.4	685.4	686.5	689.5	117.5°	29.5	29.5	29.5
684.4	687.5	688.5	690.6	692.6	697.8	701.9	703.9	707.0	120°	34.8	34.8	34.8
697.8	698.8	698.8	700.8	706.0	709.0	714.2	723.4	729.6	122.5°	40.9	40.9	40.9
707.0	703.9	706.0	708.0	713.1	720.3	728.5	741.9	754.2	125°	47.8	47.8	47.8
713.1	713.1	718.3	722.4	731.6	742.9	758.3	776.8	795.2	127.5°	55.3	55.3	55.3
724.4	727.5	738.8	747.0	763.4	779.8	799.3	825.0	852.7	130°	63.0	63.0	63.0
745.0	753.2	765.5	778.8	795.2	819.9	852.7	885.5	922.5	132.5°	70.5	70.5	70.5
777.8	796.3	816.8	833.2	852.7	887.6	923.5	964.5	1010.7	135°	77.9	77.9	77.9
849.6	870.1	900.9	928.6	956.3	1006.6	1052.8	1100.0	1162.6	137.5°	85.3	85.3	85.3
912.2	945.0	993.3	1033.3	1071.3	1131.8	1183.1	1261.1	1327.8	140°	92.5	92.5	92.5
938.9	992.2	1052.8	1110.2	1181.0	1240.6	1316.5	1409.9	1497.1	142.5°	99.2	99.2	99.2
932.7	997.4	1073.3	1151.3	1235.4	1330.9	1418.1	1522.7	1636.6	145°	104.9	104.9	104.9
918.4	991.2	1079.5	1172.8	1273.4	1392.4	1502.2	1632.5	1774.1	147.5°	110.1	110.1	110.1
900.9	986.1	1084.6	1194.4	1320.6	1462.2	1603.8	1774.1	1950.6	150°	115.1	115.1	115.1
874.2	971.7	1090.8	1227.2	1382.2	1548.4	1734.1	1937.3	2127.1	152.5°	119.7	119.7	119.7
844.5	954.3	1097.9	1272.4	1467.3	1673.6	1888.0	2095.3	2311.8	155°	123.7	123.7	123.7
825.0	949.1	1116.4	1324.7	1551.5	1790.6	2029.6	2256.4	2492.4	157.5°	127.0	127.0	127.0
813.7	952.2	1135.9	1363.7	1614.1	1877.8	2131.2	2391.9	2639.1	160°	130.3	130.3	130.3
803.4	960.4	1153.3	1388.3	1654.1	1934.2	2211.3	2492.4	2766.4	162.5°	133.5	133.5	133.5
776.8	957.4	1159.5	1395.5	1674.6	1971.1	2266.7	2563.2	2854.6	165°	136.0	136.0	136.0
730.6	928.6	1146.2	1388.3	1680.8	1992.7	2302.6	2615.5	2904.9	167.5°	137.1	137.1	137.1
669.0	870.1	1099.0	1357.5	1659.2	1982.4	2314.9	2649.4	2933.6	170°	137.4	137.4	137.4
600.3	778.8	1015.8	1286.7	1589.4	1919.8	2260.5	2617.6	2900.8	172.5°	138.6	138.6	138.6
505.9	664.9	903.0	1166.7	1462.2	1790.6	2099.4	2489.3	2777.7	175°	140.5	140.5	140.5
386.8	528.4	733.7	1002.5	1303.2	1590.5	1870.6	2260.5	2580.7	177.5°	141.1	141.1	141.1
266.8	376.6	549.0	783.9	1065.1	1329.8	1608.9	1973.2	2346.7	180°	140.8	140.8	140.8
173.4	244.2	363.2	543.8	766.5	1010.7	1242.6	1576.1	1976.3				
123.1	156.0	221.6	335.5	504.8	693.6	883.5	1109.2	1490.9				
97.5	113.9	136.5	195.0	295.5	432.0	584.9	727.5	1046.6				
79.0	86.2	97.5	120.1	174.4	249.3	344.8	458.7	650.6				
63.6	68.7	75.9	85.2	107.7	143.7	200.1	252.4	371.5				
51.3	57.5	59.5	60.5	69.8	82.1	105.7	142.6	212.4				
36.9	39.0	39.0	40.0	42.1	45.1	60.5	104.7	154.9				
14.4	12.3	13.3	10.3	11.3	12.3	19.5	22.6	35.9				
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°	665.9	665.9	665.9	665.9
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	674.2	674.2	673.1	673.1
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	691.6	694.7	692.6	695.7
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	714.2	716.2	718.3	722.4
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	737.8	745.0	752.1	755.2
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	765.5	778.8	793.2	800.4
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	813.7	834.2	850.6	861.9
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	877.3	905.0	932.7	952.2
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	958.4	998.4	1037.4	1062.0
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	1061.0	1108.2	1151.3	1198.5
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	1202.6	1268.3	1344.2	1385.2
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1404.7	1494.0	1547.4	1638.7
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	1597.6	1707.4	1836.7	1962.9
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1760.8	1921.9	2111.7	2303.6
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	1932.2	2136.4	2355.9	2602.2
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	2137.4	2348.8	2585.8	2855.7
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	2324.1	2565.3	2855.7	3105.0
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	2530.4	2786.9	3114.2	3402.6
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	2730.5	2998.3	3356.4	3672.4
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2905.9	3174.8	3556.5	3885.9
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	3046.5	3346.1	3718.6	4034.6
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	3156.3	3473.4	3841.7	4137.3
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	3213.8	3533.9	3879.7	4180.4
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	3222.0	3529.8	3847.9	4141.4
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	3144.0	3416.9	3720.7	4027.5
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2969.5	3183.0	3471.3	3775.0
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	2745.9	2885.4	3077.3	3374.9
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	2526.3	2618.6	2719.2	2938.8
								70°	2188.7	2265.6	2366.2	2502.7
								72.5°	1702.3	1803.9	1875.7	2008.1
								75°	1279.6	1338.0	1441.7	1563.8
								77.5°	899.9	959.4	1077.4	1217.0
								80°	604.4	645.4	718.3	838.3
								82.5°	370.4	417.6	479.2	582.8
								85°	248.3	322.2	401.2	479.2
								87.5°	104.7	176.5	223.7	235.0
								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



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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
665.9	665.9	665.9	665.9	665.9	665.9	665.9	112.5°	21.2	21.2	21.2	21.2	21.2
676.2	675.2	677.2	677.2	676.2	676.2	679.3	115°	25.0	25.0	25.0	25.0	25.0
697.8	698.8	700.8	698.8	702.9	697.8	698.8	117.5°	29.5	29.5	29.5	29.5	29.5
727.5	728.5	731.6	730.6	733.7	730.6	726.5	120°	34.8	34.8	34.8	34.8	34.8
765.5	767.5	767.5	772.7	777.8	771.6	764.4	122.5°	40.9	40.9	40.9	40.9	40.9
809.6	816.8	813.7	824.0	829.1	825.0	819.9	125°	47.8	47.8	47.8	47.8	47.8
870.1	884.5	882.5	901.9	909.1	906.1	907.1	127.5°	55.3	55.3	55.3	55.3	55.3
960.4	981.0	984.0	1014.8	1034.3	1031.2	1026.1	130°	63.0	63.0	63.0	63.0	63.0
1065.1	1118.5	1130.8	1157.4	1179.0	1187.2	1186.2	132.5°	70.5	70.5	70.5	70.5	70.5
1242.6	1281.6	1309.3	1357.5	1377.0	1395.5	1390.4	135°	77.9	77.9	77.9	77.9	77.9
1444.8	1480.7	1542.2	1603.8	1623.3	1640.7	1663.3	137.5°	85.3	85.3	85.3	85.3	85.3
1703.3	1755.7	1853.1	1936.3	1983.5	1969.1	1961.9	140°	92.5	92.5	92.5	92.5	92.5
2053.2	2184.6	2256.4	2324.1	2354.9	2309.8	2252.3	142.5°	99.2	99.2	99.2	99.2	99.2
2471.9	2625.8	2671.0	2703.8	2645.3	2583.7	2415.5	145°	104.9	104.9	104.9	104.9	104.9
2778.7	2929.5	3022.9	3057.8	2932.6	2750.0	2522.2	147.5°	110.1	110.1	110.1	110.1	110.1
3055.7	3208.6	3249.7	3265.1	3096.8	2860.8	2639.1	150°	115.1	115.1	115.1	115.1	115.1
3350.2	3478.5	3502.1	3493.9	3270.2	2991.1	2783.8	152.5°	119.7	119.7	119.7	119.7	119.7
3618.0	3749.4	3727.8	3691.9	3437.5	3155.3	2926.5	155°	123.7	123.7	123.7	123.7	123.7
3872.5	3969.0	3930.0	3840.7	3595.5	3281.5	3038.3	157.5°	127.0	127.0	127.0	127.0	127.0
4042.9	4123.9	4081.8	3969.0	3704.2	3366.7	3099.9	160°	130.3	130.3	130.3	130.3	130.3
4172.1	4233.7	4209.1	4045.9	3767.9	3419.0	3127.6	162.5°	133.5	133.5	133.5	133.5	133.5
4236.8	4297.3	4283.0	4060.3	3776.1	3427.2	3114.2	165°	136.0	136.0	136.0	136.0	136.0
4260.4	4329.1	4278.9	4006.9	3721.7	3396.4	3068.1	167.5°	137.1	137.1	137.1	137.1	137.1
4240.9	4272.7	4198.8	3905.4	3610.9	3301.0	3002.4	170°	137.4	137.4	137.4	137.4	137.4
4169.1	4146.5	4044.9	3728.9	3453.9	3168.6	2929.5	172.5°	138.6	138.6	138.6	138.6	138.6
3967.9	3909.5	3827.4	3524.7	3244.5	2959.3	2816.7	175°	140.5	140.5	140.5	140.5	140.5
3553.4	3537.0	3499.0	3274.3	2996.2	2724.3	2633.0	177.5°	141.1	141.1	141.1	141.1	141.1
3021.9	3005.5	3010.6	2858.7	2657.6	2392.9	2394.9	180°	140.8	140.8	140.8	140.8	140.8
2590.9	2500.6	2393.9	2230.8	2113.8	2077.9	2193.8						
2085.0	2035.8	1948.6	1805.9	1673.6	1719.8	1979.4						
1612.0	1582.3	1645.9	1662.3	1611.0	1580.2	1668.4						
1320.6	1385.2	1486.8	1616.1	1628.4	1583.3	1416.0						
1005.6	1173.9	1314.4	1488.9	1470.4	1372.9	1190.3						
703.9	867.1	999.4	1146.2	1141.0	1051.8	961.5						
538.7	590.0	640.3	794.2	853.7	785.0	686.5						
254.5	256.5	308.9	380.7	408.4	465.9	459.7						
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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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°	665.9	665.9	665.9	665.9	665.9	665.9
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	680.3	679.3	679.3	679.3	680.3	679.3
29.5	29.5	29.5	29.5	29.5	29.5	5°	700.8	698.8	697.8	697.8	696.7	696.7
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	727.5	723.4	723.4	720.3	719.3	716.2
40.9	40.9	40.9	40.9	40.9	40.9	10°	763.4	759.3	758.3	750.1	750.1	742.9
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	815.8	815.8	815.8	805.5	803.4	791.1
55.3	55.3	55.3	55.3	55.3	55.3	15°	906.1	897.8	905.0	887.6	886.6	870.1
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	1028.2	1028.2	1013.8	1005.6	1000.5	976.9
70.5	70.5	70.5	70.5	70.5	70.5	20°	1190.3	1191.3	1166.7	1144.1	1133.8	1107.2
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	1396.5	1377.0	1346.3	1329.8	1313.4	1269.3
85.3	85.3	85.3	85.3	85.3	85.3	25°	1667.4	1659.2	1604.8	1545.3	1520.7	1454.0
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1933.2	1915.7	1828.5	1726.9	1664.3	1573.0
99.2	99.2	99.2	99.2	99.2	99.2	30°	2167.1	2052.2	1948.6	1826.5	1731.0	1617.1
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	2289.2	2144.6	1993.7	1893.2	1773.1	1646.9
110.1	110.1	110.1	110.1	110.1	110.1	35°	2383.6	2228.7	2078.9	1948.6	1813.1	1670.5
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	2503.7	2340.5	2175.3	2020.4	1855.2	1687.9
119.7	119.7	119.7	119.7	119.7	119.7	40°	2637.1	2450.3	2246.1	2058.4	1872.6	1681.8
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	2747.9	2522.2	2282.1	2070.7	1866.5	1656.1
127.0	127.0	127.0	127.0	127.0	127.0	45°	2809.5	2551.9	2285.1	2057.3	1841.9	1624.3
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2838.2	2553.0	2264.6	2027.6	1809.0	1579.2
133.5	133.5	133.5	133.5	133.5	133.5	50°	2835.1	2527.3	2225.6	1987.6	1772.1	1532.0
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	2804.3	2485.2	2180.5	1955.8	1740.3	1492.0
137.1	137.1	137.1	137.1	137.1	137.1	55°	2757.1	2440.1	2135.3	1934.2	1713.6	1459.1
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	2703.8	2401.1	2102.5	1930.1	1698.2	1453.0
138.6	138.6	138.6	138.6	138.6	138.6	60°	2680.2	2405.2	2123.0	1901.4	1690.0	1466.3
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2664.8	2444.2	2165.1	1920.9	1703.3	1522.7
141.1	141.1	141.1	141.1	141.1	141.1	65°	2602.2	2498.6	2229.7	1990.6	1799.8	1655.1
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	2527.3	2514.0	2255.4	2031.7	1909.6	1827.5
						70°	2449.3	2497.5	2292.3	2139.4	2071.7	2038.9
						72.5°	2324.1	2379.5	2188.7	2097.4	2076.8	2053.2
						75°	1938.3	1948.6	1802.9	1752.6	1788.5	1733.1
						77.5°	1393.5	1420.1	1325.7	1339.1	1456.0	1336.0
						80°	1032.3	927.6	868.1	908.1	1019.9	848.6
						82.5°	850.6	688.5	583.9	638.2	681.3	500.7
						85°	654.7	525.4	432.0	348.9	332.5	214.5
						87.5°	514.1	379.7	211.4	119.0	80.0	5.1
						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: P160144

CATALOG NUMBER: ENV-E02-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

360°		330°	335°	340°	345°	350°	355°	360°
665.9	112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2
680.3	115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0
696.7	117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5
716.2	120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8
746.0	122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9
789.1	125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8
866.0	127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3
965.6	130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0
1087.7	132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5
1225.2	135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9
1382.2	137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3
1478.6	140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5
1499.1	142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2
1513.5	145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9
1517.6	147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1
1511.5	150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1
1486.8	152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7
1455.0	155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7
1415.0	157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0
1365.7	160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3
1319.6	162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5
1283.7	165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0
1261.1	167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1
1264.2	170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4
1296.0	172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6
1376.0	175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5
1527.9	177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1
1676.7	180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8
1820.3								
1725.9								
1317.5								
948.1								
550.0								
343.7								
148.8								
5.1								
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



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