

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: McGRAW-EDISON

Report Number: P228635

Luminaire Tested: **ISC-AF-800-LED-E1-SLR-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-800-LED-E1-SLR-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCUED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, WITH
UPLIGHT GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5632.5 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

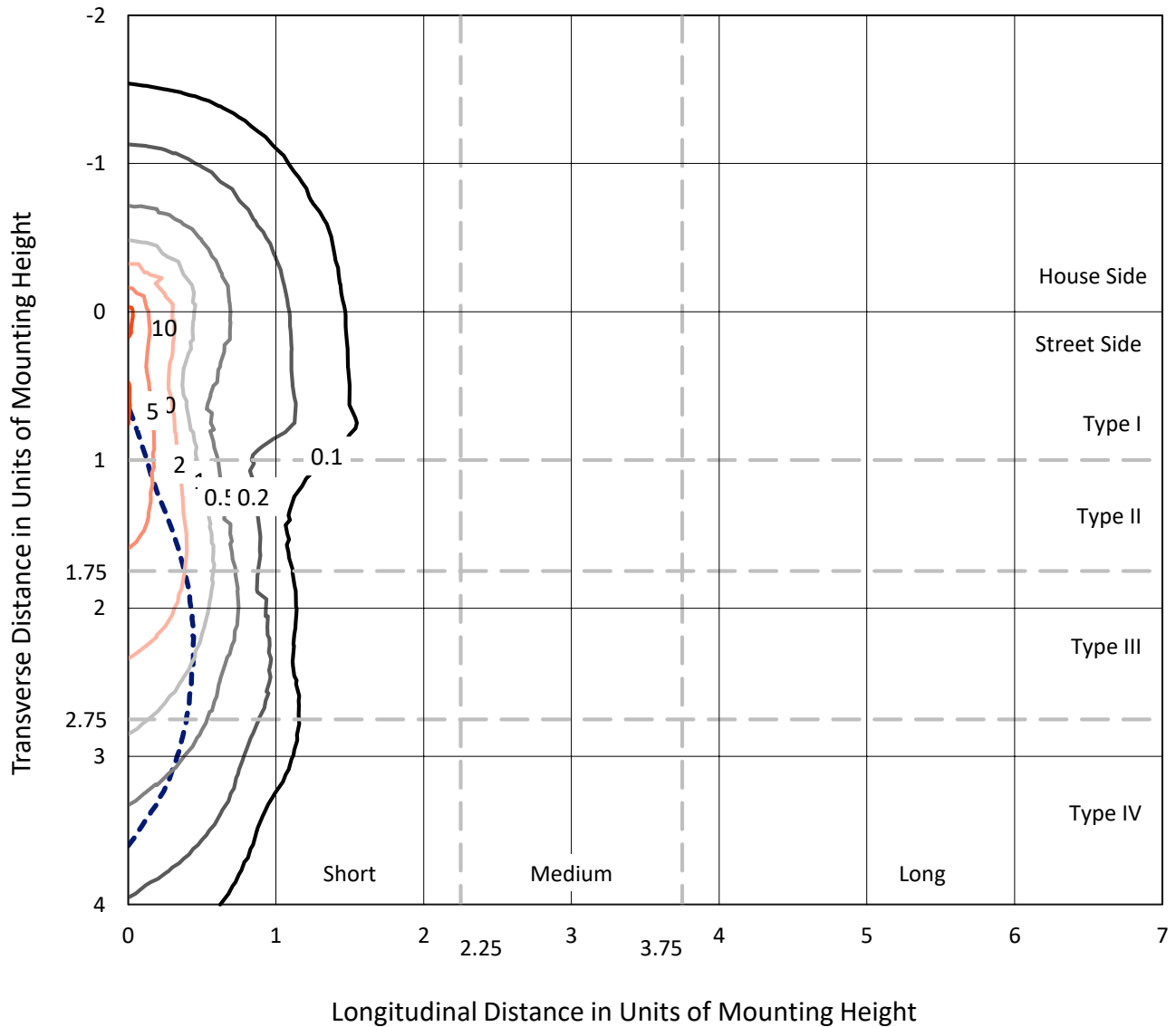
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

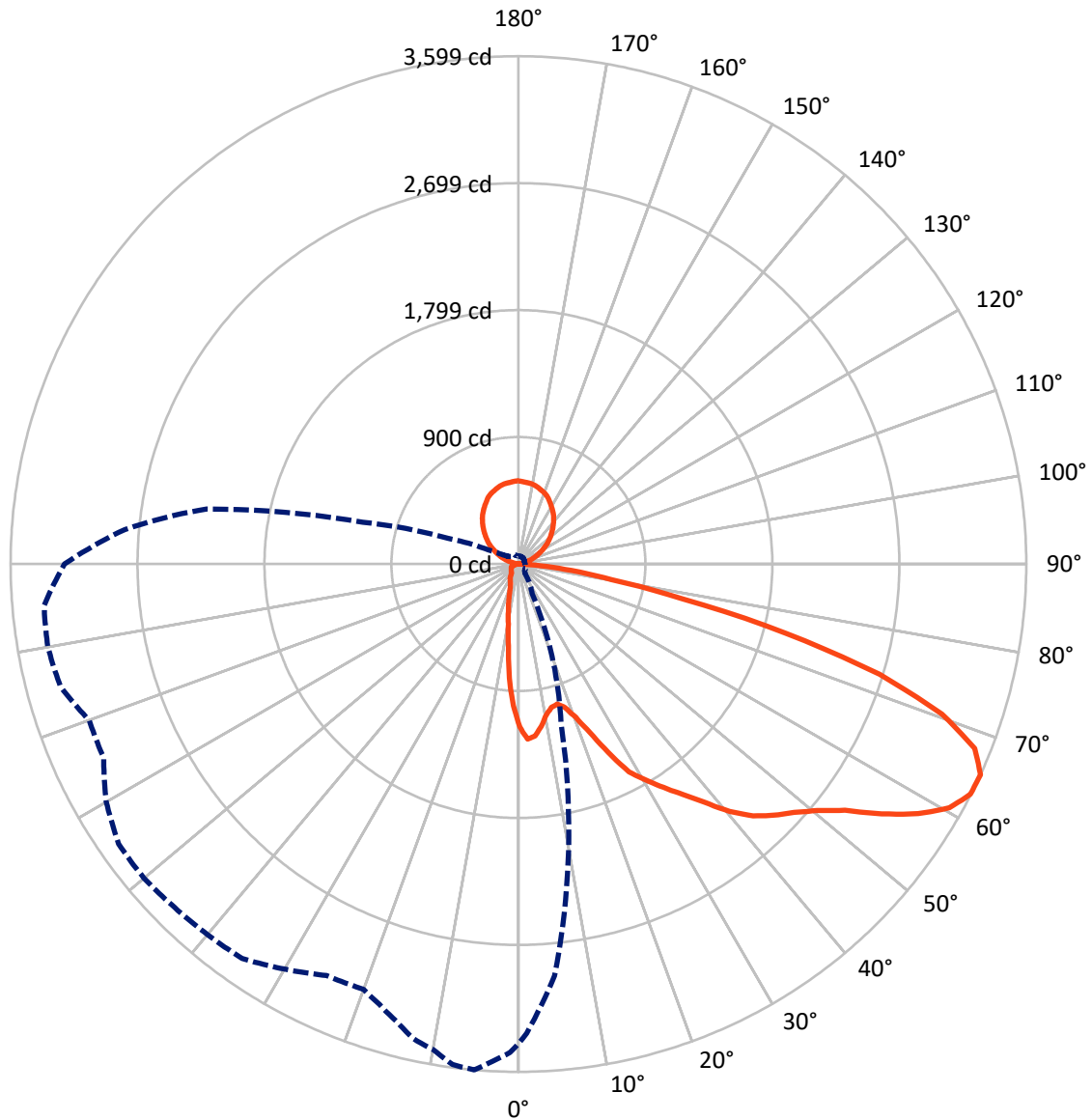
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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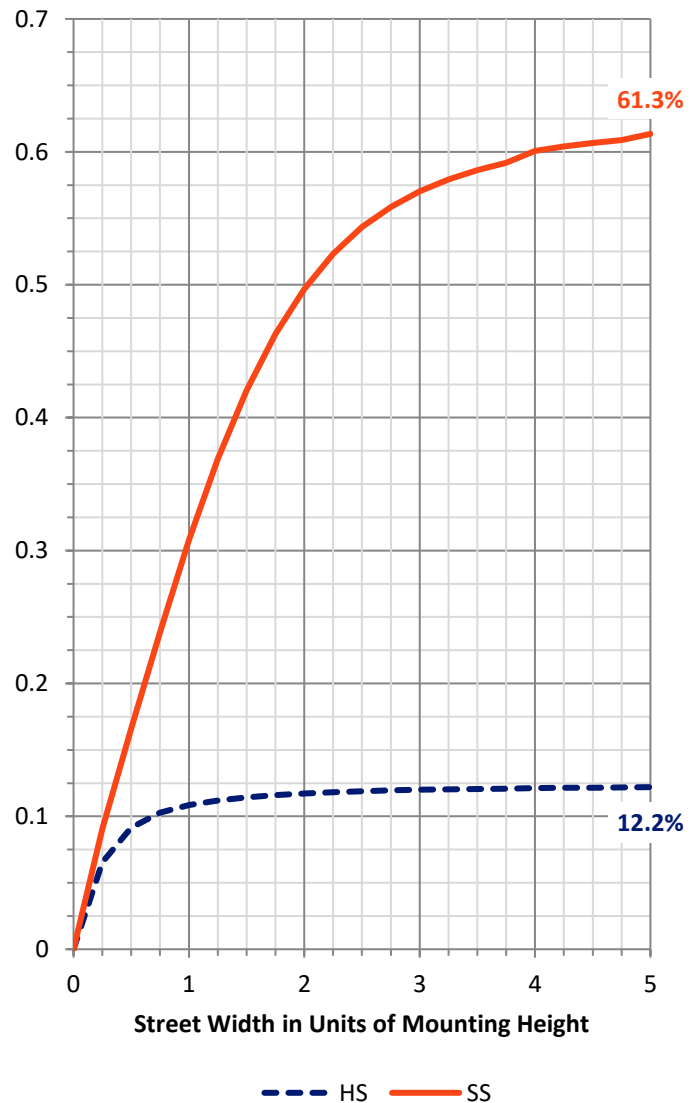
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	694.0	729.4	1423.4
	% Fixture	12.3	13.0	25.3
Street Side	Lumens	3479.7	729.4	4209.1
	% Fixture	61.8	13.0	74.7
Total	Lumens	4173.6	1458.9	5632.5
	% Fixture	74.1	25.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	1.6
10°-20°	182.8	3.2
20°-30°	265.7	4.7
30°-40°	392.9	7.0
40°-50°	572.5	10.2
50°-60°	858.2	15.2
60°-70°	1069.4	19.0
70°-80°	626.4	11.1
80°-90°	117.1	2.1
90°-100°	4.8	0.1
100°-110°	70.6	1.3
110°-120°	156.6	2.8
120°-130°	229.0	4.1
130°-140°	271.7	4.8
140°-150°	275.5	4.9
150°-160°	236.4	4.2
160°-170°	158.7	2.8
170°-180°	55.6	1.0
0°-90°	4173.6	74.1
0°-180°	5632.5	100.0



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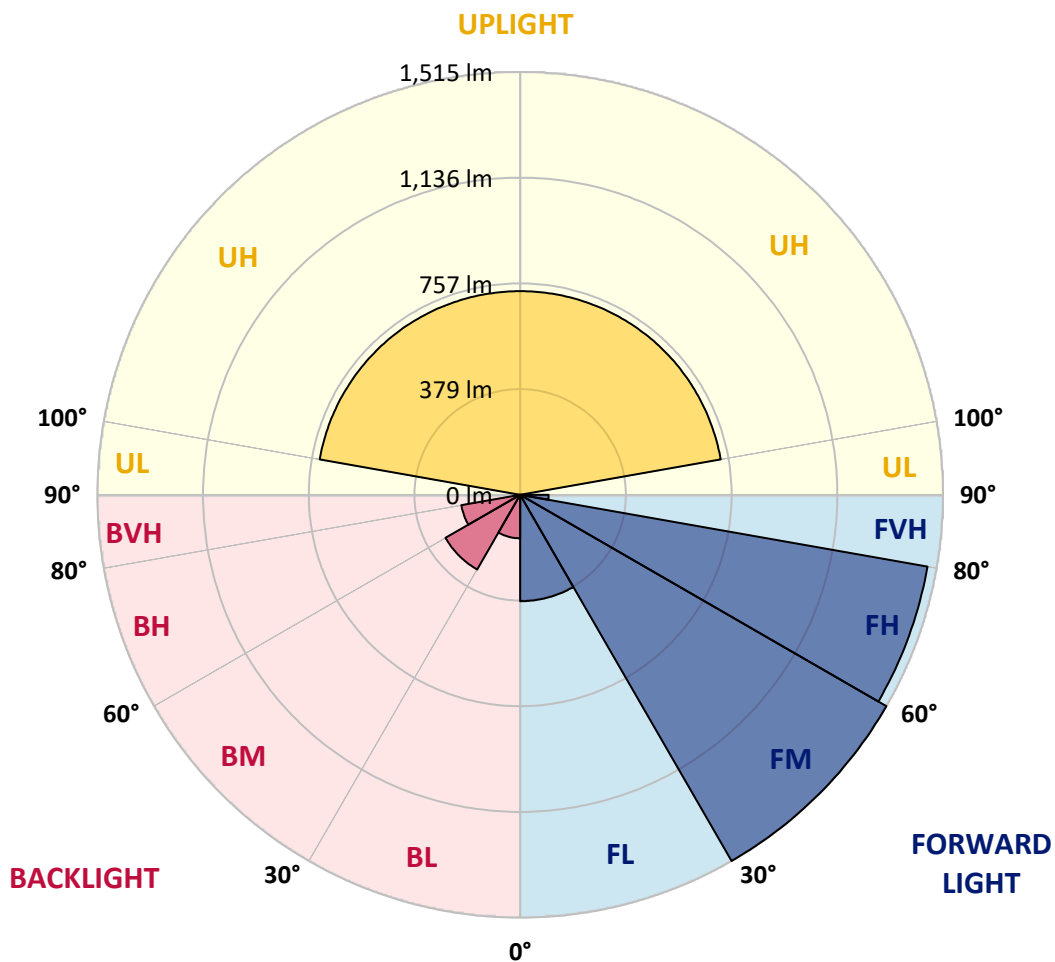
CATALOG NUMBER: ISC-AF-800-LED-E1-SLR-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.3	6.8			
FM (30°-60°)	1514.7	26.9			
FH (60°-80°)	1481.6	26.3			G1/1800
FVH (80°-90°)	102.0	1.8			G2/225
BL (0°-30°)	155.8	2.8	B1/500		
BM (30°-60°)	308.9	5.5	B1/1000		
BH (60°-80°)	214.2	3.8	B1/500		G1/500
BVH (80°-90°)	15.1	0.3			G1/100
UL (90°-100°)	4.8	0.1		U1/10	
UH (100°-180°)	729.4	13.0		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1226.1	1216.2	1196.3	1156.7	1115.3	1075.7	1069.1	1054.3	1055.9	1047.6	1044.3
5°	1186.4	1173.2	1131.9	1049.2	978.2	905.5	900.5	870.8	874.1	855.9	846.0
7.5°	1098.9	1080.6	1034.4	920.3	821.2	725.4	715.5	680.8	675.9	657.7	642.8
10°	1012.9	994.7	936.9	806.4	692.3	621.3	609.7	593.2	580.0	571.7	556.9
12.5°	958.4	948.5	879.0	728.6	639.4	581.6	566.7	550.2	537.0	522.1	507.3
15°	946.8	927.0	855.9	703.9	599.9	528.8	510.6	492.4	477.5	462.7	441.2
17.5°	978.2	958.4	879.0	692.3	555.2	469.2	446.1	421.4	406.5	388.3	365.2
20°	1052.5	1021.2	923.7	675.9	507.3	399.9	371.7	342.1	325.5	294.1	277.6
22.5°	1171.6	1131.9	999.7	675.9	462.7	327.1	295.7	269.3	251.1	223.1	204.9
25°	1341.7	1307.0	1123.6	694.0	423.0	266.1	234.7	208.2	190.1	170.2	158.7
27.5°	1500.4	1445.8	1255.8	720.5	391.6	223.1	191.7	170.2	157.0	147.1	140.5
30°	1619.3	1574.7	1371.5	738.6	345.3	186.7	166.8	153.6	147.1	142.1	138.8
32.5°	1728.4	1677.1	1454.1	750.1	317.2	158.7	140.5	130.5	123.9	117.3	115.7
35°	1844.1	1794.5	1551.6	748.5	299.1	145.4	127.3	115.7	109.0	107.4	104.1
37.5°	2004.4	1936.5	1663.9	748.5	292.5	140.5	119.0	107.4	102.4	99.1	97.5
40°	2159.7	2083.6	1787.9	753.5	285.8	137.2	119.0	107.4	99.1	95.9	92.6
42.5°	2305.0	2220.8	1900.2	761.8	282.5	127.3	112.3	105.8	102.4	95.9	90.8
45°	2415.8	2349.7	1987.8	778.3	282.5	120.6	105.8	100.8	99.1	99.1	97.5
47.5°	2523.2	2448.8	2088.6	809.7	287.6	115.7	100.8	94.2	94.2	94.2	95.9
50°	2662.0	2574.4	2227.4	874.1	287.6	114.1	95.9	89.2	87.6	90.8	90.8
52.5°	2850.4	2787.5	2430.6	966.7	284.2	112.3	94.2	84.3	82.7	84.3	87.6
55°	3116.4	3045.3	2676.9	1080.6	280.9	109.0	90.8	82.7	79.3	77.6	79.3
57.5°	3346.1	3284.9	2903.2	1171.6	272.6	100.8	87.6	80.9	76.0	74.4	72.7
60°	3446.8	3395.6	3048.6	1232.7	257.8	92.6	82.7	77.6	72.7	71.1	69.4
62.5°	3463.4	3399.0	3050.3	1245.9	241.2	84.3	77.6	72.7	69.4	67.7	66.1
65°	3399.0	3326.2	2929.6	1164.9	228.0	84.3	74.4	69.4	64.4	62.8	61.2
67.5°	3253.5	3141.2	2624.0	988.2	216.5	85.9	72.7	64.4	61.2	59.5	57.8
70°	2903.2	2777.6	2215.8	784.9	211.5	87.6	72.7	61.2	56.2	54.5	54.5
72.5°	2326.5	2182.8	1728.4	591.6	203.3	89.2	71.1	57.8	52.9	49.6	49.6
75°	1574.7	1449.1	1171.6	399.9	168.6	77.6	64.4	52.9	46.2	43.0	41.3
77.5°	877.4	836.1	745.2	211.5	107.4	57.8	49.6	43.0	38.1	36.3	34.7
80°	515.6	494.1	439.6	117.3	66.1	33.0	29.8	28.1	24.8	24.8	24.8
82.5°	315.6	294.1	272.6	52.9	31.4	16.6	16.6	13.2	13.2	11.6	11.6
85°	85.9	79.3	110.7	11.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	2.0	3.1	4.1	5.3	6.6	8.0	9.2	10.2
100°	8.2	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2
102.5°	28.6	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4
105°	55.2	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8
107.5°	79.8	79.6	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6
110°	103.3	103.5	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
112.5°	126.8	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6
115°	149.4	149.6	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1
117.5°	172.9	173.1	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3
120°	197.4	197.8	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1
122.5°	224.0	224.2	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4
125°	249.6	250.0	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0
127.5°	273.1	273.5	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8
130°	296.7	297.1	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4
132.5°	320.2	320.4	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2
135°	343.7	343.9	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7
137.5°	367.2	367.4	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9
140°	390.8	391.0	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1
142.5°	413.3	413.7	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9
145°	434.8	435.0	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4
147.5°	454.2	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6
150°	471.6	471.8	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0
152.5°	490.0	490.2	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4
155°	510.5	510.7	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7
157.5°	524.8	525.2	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	537.5	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	547.5	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.6
165°	558.5	558.7	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9
167.5°	567.7	567.9	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9
170°	574.9	575.1	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8
172.5°	578.0	578.2	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2
175°	580.0	580.4	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3
177.5°	585.1	585.3	586.2	588.2	587.2	591.3	591.1	590.8	590.4	590.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1031.0	1027.8	1027.8	1003.0	1003.0	989.8	986.4	986.4	991.4	988.2	968.3
5°	829.5	819.6	812.9	783.3	775.0	760.1	753.5	751.9	756.8	748.5	722.1
7.5°	624.6	616.3	606.4	583.3	573.4	571.7	551.9	547.0	543.6	537.0	520.5
10°	545.3	533.7	525.5	508.9	497.4	489.1	472.6	464.3	457.7	447.7	442.8
12.5°	490.7	479.2	467.6	446.1	431.3	421.4	411.4	395.0	388.3	376.8	370.1
15°	423.0	409.8	396.6	373.5	353.6	343.7	323.9	313.9	307.3	294.1	287.6
17.5°	340.4	322.2	307.3	285.8	276.0	259.4	247.9	231.3	218.1	213.2	208.2
20°	256.1	239.6	226.4	208.2	198.2	185.1	178.5	166.8	160.3	157.0	153.6
22.5°	188.3	175.1	166.8	157.0	152.0	147.1	143.7	140.5	137.2	135.5	135.5
25°	148.7	143.7	140.5	137.2	135.5	133.8	130.5	128.9	127.3	125.6	125.6
27.5°	135.5	132.2	130.5	128.9	127.3	123.9	123.9	120.6	119.0	119.0	117.3
30°	137.2	137.2	137.2	133.8	132.2	128.9	127.3	122.2	119.0	115.7	114.1
32.5°	112.3	112.3	110.7	107.4	105.8	104.1	104.1	100.8	99.1	99.1	102.4
35°	102.4	100.8	99.1	95.9	94.2	90.8	89.2	87.6	85.9	84.3	84.3
37.5°	97.5	95.9	94.2	90.8	89.2	87.6	85.9	82.7	80.9	80.9	79.3
40°	92.6	92.6	92.6	89.2	87.6	84.3	82.7	80.9	79.3	77.6	77.6
42.5°	89.2	89.2	89.2	87.6	85.9	84.3	80.9	79.3	77.6	76.0	74.4
45°	90.8	89.2	89.2	87.6	85.9	82.7	80.9	77.6	76.0	74.4	72.7
47.5°	97.5	95.9	92.6	89.2	85.9	82.7	79.3	76.0	74.4	72.7	71.1
50°	92.6	99.1	100.8	95.9	87.6	82.7	79.3	76.0	72.7	71.1	69.4
52.5°	90.8	92.6	99.1	99.1	90.8	84.3	79.3	76.0	72.7	69.4	67.7
55°	82.7	87.6	89.2	90.8	89.2	82.7	77.6	72.7	71.1	67.7	64.4
57.5°	72.7	76.0	77.6	80.9	82.7	80.9	74.4	69.4	67.7	64.4	61.2
60°	67.7	67.7	67.7	69.4	77.6	84.3	77.6	67.7	62.8	61.2	57.8
62.5°	62.8	62.8	61.2	62.8	64.4	72.7	71.1	64.4	61.2	59.5	56.2
65°	61.2	59.5	57.8	57.8	57.8	57.8	57.8	57.8	56.2	56.2	54.5
67.5°	56.2	54.5	54.5	52.9	52.9	52.9	52.9	52.9	51.2	51.2	49.6
70°	52.9	51.2	49.6	49.6	49.6	47.9	47.9	47.9	46.2	46.2	46.2
72.5°	47.9	46.2	46.2	46.2	44.6	44.6	44.6	43.0	43.0	41.3	41.3
75°	41.3	41.3	39.7	39.7	39.7	38.1	38.1	38.1	38.1	36.3	36.3
77.5°	34.7	33.0	34.7	33.0	33.0	33.0	33.0	33.0	31.4	31.4	29.8
80°	23.1	23.1	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	23.1
82.5°	13.2	11.6	13.2	13.2	13.2	14.8	14.8	16.6	14.8	14.8	13.2
85°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.3	3.3	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	11.3	12.3	13.3	11.8	10.2	8.7	7.2	6.6	6.1	5.6	5.1
100°	31.7	32.2	32.7	32.2	31.7	31.2	30.7	29.9	29.2	28.4	27.6
102.5°	51.7	52.0	52.2	52.0	51.7	51.4	51.1	50.6	50.1	49.6	49.1
105°	72.1	72.4	72.6	72.6	72.6	72.6	72.6	72.1	71.6	71.1	70.6
107.5°	94.1	94.6	95.1	94.9	94.6	94.3	94.1	93.9	93.6	93.3	93.1
110°	115.6	116.1	116.6	116.6	116.6	116.6	116.6	116.4	116.1	115.8	115.6



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CATALOG NUMBER: ISC-AF-800-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	138.1	138.6	139.1	139.1	139.1	139.1	139.1	138.9	138.6	138.3	138.1
115°	160.6	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.6	183.9	184.1	184.3	184.6	184.9	185.2	184.9	184.6	184.3	184.1
120°	207.7	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	232.7	233.0	233.2	233.2	233.2	233.2	233.2	233.4	233.7	234.1	234.3
125°	258.3	258.6	258.8	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8
127.5°	283.4	283.9	284.4	284.2	283.9	283.6	283.4	283.6	283.9	284.2	284.4
130°	306.9	307.4	307.9	307.9	307.9	307.9	307.9	308.1	308.4	308.7	308.9
132.5°	330.9	331.6	332.5	332.5	332.5	332.5	332.5	332.7	333.0	333.3	333.5
135°	354.5	355.2	356.0	356.0	356.0	356.0	356.0	356.2	356.5	356.8	357.0
137.5°	376.4	377.0	377.5	377.5	377.5	377.5	377.5	377.7	378.0	378.3	378.5
140°	398.4	398.7	399.0	399.0	399.0	399.0	399.0	399.5	400.0	400.5	401.0
142.5°	420.4	420.9	421.5	421.5	421.5	421.5	421.5	421.7	422.0	422.3	422.5
145°	442.9	443.4	444.0	443.8	443.4	443.1	442.9	443.1	443.4	443.8	444.0
147.5°	463.9	464.2	464.4	463.9	463.4	462.9	462.4	462.6	462.9	463.2	463.4
150°	481.3	481.6	481.8	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8
152.5°	497.7	498.0	498.2	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2
155°	515.1	515.4	515.6	515.4	515.1	514.7	514.5	514.7	515.1	515.4	515.6
157.5°	530.9	530.9	530.9	530.4	529.9	529.4	528.9	529.1	529.4	529.7	529.9
160°	544.2	544.2	544.2	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2
162.5°	553.9	554.2	554.4	553.9	553.4	552.9	552.4	551.9	551.4	550.9	550.3
165°	565.2	565.5	565.7	564.9	564.2	563.4	562.6	562.1	561.6	561.1	560.6
167.5°	572.9	572.9	572.9	572.3	571.8	571.3	570.8	571.0	571.3	571.6	571.8
170°	578.5	578.2	578.0	577.8	577.5	577.1	576.9	577.5	578.0	578.5	579.0
172.5°	581.5	581.9	582.1	581.5	581.0	580.5	580.0	580.2	580.5	580.8	581.0
175°	585.6	585.9	586.2	585.3	584.6	583.9	583.1	582.6	582.1	581.5	581.0
177.5°	590.2	590.2	590.2	589.4	588.7	588.0	587.2	587.2	587.2	587.2	587.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



REPORT NUMBER: P228635

CATALOG NUMBER: ISC-AF-800-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	978.2	976.5	960.0	963.3	958.4	948.5	950.1	951.8	955.0	948.5	945.2
5°	735.3	736.9	715.5	722.1	717.1	715.5	720.5	728.6	733.7	732.0	727.0
7.5°	522.1	523.9	505.6	504.0	499.0	497.4	504.0	512.2	517.2	515.6	517.2
10°	431.3	426.3	409.8	398.2	386.7	376.8	375.1	375.1	375.1	371.7	368.5
12.5°	356.9	352.0	332.2	322.2	312.3	299.1	297.5	295.7	290.8	285.8	279.3
15°	277.6	272.6	256.1	249.5	241.2	236.3	234.7	234.7	231.3	228.0	224.7
17.5°	201.6	198.2	188.3	181.8	180.1	181.8	183.4	186.7	188.3	190.1	190.1
20°	152.0	150.4	147.1	147.1	148.7	153.6	155.3	160.3	161.9	165.2	168.6
22.5°	133.8	133.8	132.2	132.2	135.5	140.5	143.7	145.4	147.1	148.7	148.7
25°	123.9	123.9	122.2	125.6	130.5	130.5	130.5	130.5	127.3	125.6	125.6
27.5°	117.3	117.3	117.3	119.0	117.3	115.7	115.7	115.7	114.1	114.1	112.3
30°	112.3	112.3	112.3	110.7	110.7	109.0	109.0	107.4	107.4	105.8	105.8
32.5°	104.1	100.8	104.1	100.8	100.8	99.1	100.8	100.8	97.5	97.5	97.5
35°	82.7	80.9	80.9	80.9	79.3	80.9	84.3	84.3	84.3	84.3	84.3
37.5°	77.6	77.6	76.0	74.4	74.4	72.7	74.4	72.7	72.7	72.7	74.4
40°	76.0	74.4	72.7	72.7	71.1	69.4	69.4	69.4	69.4	69.4	69.4
42.5°	72.7	72.7	69.4	67.7	67.7	66.1	66.1	66.1	66.1	66.1	66.1
45°	71.1	69.4	67.7	66.1	64.4	64.4	64.4	64.4	64.4	64.4	62.8
47.5°	69.4	67.7	66.1	64.4	62.8	61.2	61.2	61.2	61.2	61.2	61.2
50°	67.7	66.1	62.8	62.8	61.2	59.5	59.5	59.5	59.5	59.5	59.5
52.5°	64.4	64.4	61.2	59.5	57.8	57.8	57.8	57.8	57.8	57.8	57.8
55°	61.2	61.2	57.8	56.2	54.5	54.5	54.5	54.5	56.2	56.2	56.2
57.5°	59.5	57.8	54.5	54.5	51.2	51.2	51.2	52.9	52.9	54.5	54.5
60°	56.2	54.5	52.9	51.2	51.2	49.6	49.6	49.6	49.6	51.2	51.2
62.5°	54.5	52.9	49.6	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
65°	51.2	51.2	47.9	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
67.5°	47.9	47.9	44.6	43.0	43.0	43.0	44.6	43.0	43.0	43.0	43.0
70°	44.6	43.0	41.3	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
72.5°	39.7	39.7	38.1	36.3	36.3	36.3	36.3	36.3	36.3	36.3	38.1
75°	34.7	33.0	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
77.5°	29.8	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	28.1
80°	21.5	19.8	19.8	19.8	19.8	21.5	21.5	21.5	21.5	21.5	21.5
82.5°	13.2	11.6	11.6	11.6	13.2	14.8	14.8	14.8	14.8	16.6	16.6
85°	3.3	3.3	3.3	3.3	6.6	8.3	8.3	8.3	9.9	8.3	8.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.9	4.6	4.1	4.1	4.1	4.6	4.9	5.1	5.6	6.1	6.6
100°	27.4	27.1	26.6	25.6	26.6	27.1	27.4	27.6	28.4	29.2	29.9
102.5°	49.3	49.6	50.1	49.1	50.1	49.6	49.3	49.1	49.6	50.1	50.6
105°	71.1	71.6	72.6	70.6	72.6	71.6	71.1	70.6	71.1	71.6	72.1
107.5°	93.3	93.6	94.1	93.1	94.1	93.6	93.3	93.1	93.3	93.6	93.9
110°	115.8	116.1	116.6	115.6	116.6	116.1	115.8	115.6	115.8	116.1	116.4



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
112.5°	138.6	139.1	140.1	138.1	140.1	139.1	138.6	138.1	138.3	138.6	138.9	0°
115°	162.1	162.6	163.7	162.6	163.7	162.6	162.1	161.6	161.6	161.6	161.6	2.5°
117.5°	184.6	185.2	186.2	184.1	186.2	185.2	184.6	184.1	184.3	184.6	184.9	5°
120°	209.2	209.7	210.7	208.7	210.7	209.7	209.2	208.7	208.7	208.7	208.7	7.5°
122.5°	235.3	236.3	238.3	237.3	238.3	236.3	235.3	234.3	234.1	233.7	233.4	10°
125°	260.6	261.4	262.9	261.9	262.9	261.4	260.6	259.8	259.8	259.8	259.8	12.5°
127.5°	285.2	285.9	287.4	284.4	287.4	285.9	285.2	284.4	284.2	283.9	283.6	15°
130°	309.7	310.5	312.0	310.0	312.0	310.5	309.7	308.9	308.7	308.4	308.1	17.5°
132.5°	334.3	335.0	336.6	334.5	336.6	335.0	334.3	333.5	333.3	333.0	332.7	20°
135°	357.5	358.0	359.1	358.0	359.1	358.0	357.5	357.0	356.8	356.5	356.2	22.5°
137.5°	379.5	380.5	382.6	380.5	382.6	380.5	379.5	378.5	378.3	378.0	377.7	25°
140°	402.0	403.0	405.1	403.0	405.1	403.0	402.0	401.0	400.5	400.0	399.5	27.5°
142.5°	423.3	424.0	425.5	424.5	425.5	424.0	423.3	422.5	422.3	422.0	421.7	30°
145°	444.8	445.5	447.0	445.0	447.0	445.5	444.8	444.0	443.8	443.4	443.1	32.5°
147.5°	464.2	464.9	466.5	463.4	466.5	464.9	464.2	463.4	463.2	462.9	462.6	35°
150°	480.8	481.8	483.9	480.8	483.9	481.8	480.8	479.8	479.8	479.8	479.8	37.5°
152.5°	498.0	498.7	500.2	497.2	500.2	498.7	498.0	497.2	497.2	497.2	497.2	40°
155°	516.4	517.1	518.6	516.6	518.6	517.1	516.4	515.6	515.4	515.1	514.7	42.5°
157.5°	531.1	532.4	535.0	531.9	535.0	532.4	531.1	529.9	529.7	529.4	529.1	45°
160°	543.0	543.7	545.2	543.2	545.2	543.7	543.0	542.2	542.2	542.2	542.2	47.5°
162.5°	550.9	551.4	552.4	549.3	552.4	551.4	550.9	550.3	550.9	551.4	551.9	50°
165°	561.1	561.6	562.6	560.6	562.6	561.6	561.1	560.6	561.1	561.6	562.1	52.5°
167.5°	572.9	573.9	575.9	573.9	575.9	573.9	572.9	571.8	571.6	571.3	571.0	55°
170°	580.2	581.5	584.1	582.1	584.1	581.5	580.2	579.0	578.5	578.0	577.5	57.5°
172.5°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	580.8	580.5	580.2	60°
175°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	581.5	582.1	582.6	62.5°
177.5°	588.0	588.7	590.2	587.2	590.2	588.7	588.0	587.2	587.2	587.2	587.2	65°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	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
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	115°	115°
1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	112.5°	139.1
941.8	961.7	961.7	948.5	955.0	948.5	946.8	958.4	964.9	986.4	999.7	115°	161.6
728.6	753.5	755.1	748.5	756.8	751.9	756.8	771.6	783.3	798.1	811.3	117.5°	185.2
520.5	543.6	548.6	543.6	558.5	556.9	560.2	576.6	586.6	594.8	596.5	120°	208.7
366.8	370.1	383.4	380.0	389.9	388.3	393.2	406.5	419.7	424.6	428.0	122.5°	233.2
276.0	272.6	277.6	271.0	276.0	276.0	277.6	285.8	302.4	309.0	325.5	125°	259.8
223.1	219.7	219.7	216.5	216.5	214.8	216.5	223.1	234.7	244.6	257.8	127.5°	283.4
190.1	190.1	190.1	188.3	186.7	186.7	188.3	191.7	198.2	204.9	211.5	130°	307.9
170.2	173.5	175.1	176.8	178.5	180.1	181.8	186.7	185.1	178.5	170.2	132.5°	332.5
148.7	148.7	150.4	150.4	148.7	148.7	148.7	148.7	148.7	153.6	158.7	135°	356.0
123.9	123.9	123.9	125.6	123.9	123.9	125.6	125.6	127.3	130.5	135.5	137.5°	377.5
112.3	112.3	112.3	112.3	112.3	112.3	112.3	114.1	115.7	120.6	123.9	140°	399.0
104.1	104.1	102.4	102.4	102.4	100.8	102.4	102.4	104.1	110.7	115.7	142.5°	421.5
95.9	94.2	94.2	94.2	92.6	92.6	92.6	95.9	97.5	100.8	105.8	145°	442.9
84.3	84.3	84.3	85.9	85.9	85.9	85.9	89.2	89.2	90.8	90.8	147.5°	462.4
76.0	76.0	77.6	79.3	79.3	80.9	80.9	82.7	84.3	82.7	80.9	150°	479.8
69.4	71.1	71.1	74.4	74.4	74.4	76.0	77.6	79.3	76.0	76.0	152.5°	497.2
66.1	66.1	66.1	67.7	67.7	67.7	69.4	71.1	72.7	72.7	72.7	155°	514.5
62.8	62.8	62.8	64.4	62.8	62.8	62.8	64.4	67.7	67.7	69.4	157.5°	528.9
61.2	61.2	61.2	59.5	59.5	59.5	59.5	61.2	62.8	66.1	67.7	160°	542.2
59.5	57.8	57.8	57.8	57.8	57.8	57.8	59.5	61.2	62.8	66.1	162.5°	552.4
56.2	56.2	56.2	56.2	56.2	56.2	56.2	57.8	59.5	61.2	62.8	165°	562.6
56.2	56.2	54.5	54.5	56.2	56.2	56.2	57.8	59.5	61.2	61.2	167.5°	570.8
54.5	52.9	52.9	54.5	54.5	54.5	54.5	56.2	57.8	59.5	59.5	170°	576.9
51.2	51.2	51.2	51.2	52.9	52.9	54.5	56.2	56.2	57.8	57.8	172.5°	580.0
47.9	49.6	49.6	49.6	51.2	51.2	52.9	54.5	56.2	57.8	56.2	175°	583.1
46.2	47.9	47.9	47.9	49.6	49.6	49.6	52.9	54.5	54.5	56.2	177.5°	587.2
44.6	44.6	44.6	46.2	46.2	47.9	47.9	51.2	51.2	52.9	54.5	180°	589.2
41.3	41.3	41.3	43.0	43.0	44.6	46.2	47.9	47.9	49.6	51.2		
38.1	38.1	38.1	39.7	39.7	41.3	43.0	46.2	44.6	46.2	46.2		
33.0	33.0	34.7	34.7	36.3	38.1	39.7	39.7	39.7	39.7	39.7		
28.1	28.1	29.8	29.8	31.4	33.0	33.0	33.0	34.7	33.0	33.0		
23.1	23.1	24.8	24.8	24.8	24.8	26.4	24.8	26.4	24.8	26.4		
16.6	16.6	18.2	16.6	18.2	16.6	16.6	14.8	18.2	16.6	16.6		
6.6	8.3	8.3	8.3	8.3	6.6	6.6	4.9	6.6	6.6	4.9		
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	0.0	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		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1	3.1	2.0		
30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5	14.3	10.2		
51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0	38.9	32.7		
72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5	62.4	57.3		
94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0	85.9	81.8		
116.6	116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	108.4	105.4		

'228635
 ISC-AF-800-LED-E1-SLR-ULG

REPORT NUMBER: P228635
 CATALOG NUMBER: ISC-AF-80

TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	132.0	128.9	0°	1155.0	1155.0
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	2.5°	1004.6	1003.0
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	5°	812.9	809.7
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	7.5°	581.6	575.0
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	10°	429.6	434.5
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	12.5°	343.7	363.6
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	15°	276.0	287.6
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	17.5°	213.2	218.1
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	20°	170.2	170.2
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	22.5°	148.7	147.1
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	25°	140.5	138.8
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	27.5°	127.3	128.9
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	30°	119.0	120.6
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	32.5°	109.0	110.7
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	35°	89.2	89.2
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	37.5°	82.7	82.7
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	40°	77.6	79.3
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	42.5°	74.4	74.4
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	45°	71.1	72.7
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	47.5°	69.4	69.4
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	50°	66.1	67.7
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	52.5°	64.4	66.1
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	55°	62.8	62.8
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	57.5°	59.5	61.2
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	60°	59.5	59.5
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	62.5°	57.8	57.8
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	65°	56.2	56.2
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	52.9	52.9
										70°	49.6	49.6
										72.5°	46.2	44.6
										75°	39.7	39.7
										77.5°	33.0	33.0
										80°	24.8	23.1
										82.5°	14.8	13.2
										85°	4.9	4.9
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.2	8.2
										102.5°	28.6	28.6
										105°	55.2	55.2
										107.5°	78.8	79.8
										110°	104.3	103.3



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O-LED-E1-SLR-ULG

<u>tinued):</u>										<u>CANDELA DISTRIBUTION (continued):</u>		
185°	195°	205°	215°	225°	230°	235°	240°	245°		175°	180°	185°
1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	112.5°	126.8	126.8	126.8
1027.8	1046.0	1057.5	1102.1	1122.0	1146.7	1158.3	1174.9	1191.3	115°	150.4	149.4	150.4
839.4	862.6	882.4	946.8	984.8	1019.5	1047.6	1074.0	1112.0	117.5°	173.9	172.9	173.9
594.8	614.7	641.1	710.5	776.6	822.9	864.2	908.8	958.4	120°	199.5	197.4	199.5
454.4	484.2	518.8	571.7	624.6	657.7	694.0	743.6	803.0	122.5°	225.0	224.0	225.0
380.0	416.4	457.7	517.2	573.4	599.9	626.3	651.0	682.4	125°	251.6	249.6	251.6
300.7	335.4	385.0	454.4	520.5	550.2	581.6	611.4	639.4	127.5°	275.2	273.1	275.2
224.7	249.5	294.1	376.8	449.5	487.4	523.9	565.1	603.1	130°	298.7	296.7	298.7
171.9	183.4	214.8	279.3	368.5	416.4	462.7	515.6	570.1	132.5°	321.2	320.2	321.2
148.7	153.6	168.6	206.5	287.6	343.7	403.1	469.2	537.0	135°	344.7	343.7	344.7
137.2	140.5	148.7	166.8	224.7	284.2	345.3	424.6	507.3	137.5°	368.3	367.2	368.3
130.5	133.8	140.5	150.4	186.7	231.3	299.1	386.7	485.8	140°	391.8	390.8	391.8
122.2	125.6	137.2	148.7	170.2	198.2	256.1	342.1	452.8	142.5°	415.3	413.3	415.3
112.3	114.1	117.3	130.5	145.4	168.6	218.1	302.4	418.1	145°	435.8	434.8	435.8
90.8	95.9	102.4	115.7	130.5	148.7	195.0	276.0	396.6	147.5°	454.2	454.2	454.2
84.3	89.2	95.9	107.4	120.6	137.2	185.1	266.1	376.8	150°	472.6	471.6	472.6
79.3	84.3	90.8	104.1	112.3	132.2	180.1	251.1	356.9	152.5°	491.0	490.0	491.0
76.0	80.9	89.2	99.1	110.7	128.9	166.8	237.9	345.3	155°	511.5	510.5	511.5
72.7	77.6	87.6	95.9	112.3	122.2	158.7	228.0	335.4	157.5°	526.8	524.8	526.8
71.1	76.0	85.9	97.5	109.0	115.7	150.4	219.7	327.1	160°	539.1	537.0	539.1
69.4	74.4	84.3	107.4	104.1	110.7	143.7	213.2	322.2	162.5°	548.3	547.3	548.3
67.7	72.7	84.3	109.0	100.8	104.1	138.8	206.5	319.0	165°	559.6	558.5	559.6
64.4	71.1	84.3	100.8	94.2	100.8	128.9	196.6	310.7	167.5°	568.8	567.7	568.8
62.8	67.7	82.7	92.6	89.2	95.9	119.0	180.1	299.1	170°	575.9	574.9	575.9
61.2	66.1	82.7	82.7	84.3	90.8	107.4	160.3	279.3	172.5°	579.0	578.0	579.0
59.5	66.1	84.3	74.4	79.3	85.9	99.1	143.7	254.5	175°	582.1	580.0	582.1
57.8	62.8	72.7	71.1	76.0	80.9	95.9	132.2	233.0	177.5°	586.2	585.1	586.2
54.5	59.5	64.4	66.1	72.7	77.6	94.2	130.5	213.2	180°	589.2	589.2	589.2
49.6	54.5	57.8	62.8	67.7	74.4	94.2	128.9	198.2				
46.2	49.6	52.9	56.2	61.2	69.4	92.6	130.5	191.7				
39.7	43.0	46.2	49.6	54.5	64.4	87.6	122.2	171.9				
31.4	36.3	39.7	41.3	46.2	56.2	76.0	104.1	138.8				
23.1	28.1	29.8	33.0	36.3	43.0	59.5	76.0	102.4				
13.2	18.2	19.8	21.5	28.1	31.4	39.7	49.6	69.4				
4.9	8.3	9.9	11.6	16.6	18.2	24.8	31.4	36.3				
0.0	0.0	0.0	0.0	3.3	4.9	8.3	9.9	8.3				
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				
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
2.0	2.0	3.1	4.1	9.2	11.3	13.3	10.2	7.2				
8.2	10.2	14.3	22.5	30.7	31.7	32.7	31.7	30.7				
28.6	32.7	38.9	46.0	51.1	51.7	52.2	51.7	51.1				
55.2	57.3	62.4	67.5	71.6	72.1	72.6	72.6	72.6				
78.8	81.8	85.9	90.0	93.1	94.1	95.1	94.6	94.1				
104.3	105.4	108.4	112.5	114.6	115.6	116.6	116.6	116.6				



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SLR-ULG

CANDELA DISTRIBUTION (continued):

195°	205°	215°	225°	230°	235°	240°	245°		250°	255°	260°	265°
128.9	132.0	135.0	137.1	138.1	139.1	139.1	139.1	0°	1155.0	1155.0	1155.0	1155.0
152.4	154.5	157.5	159.6	160.6	161.6	161.6	161.6	2.5°	1211.2	1227.7	1249.2	1269.1
175.9	178.0	181.1	183.1	183.6	184.1	184.6	185.2	5°	1141.8	1173.2	1219.5	1257.4
200.5	202.5	205.6	206.6	207.7	208.7	208.7	208.7	7.5°	1001.4	1044.3	1102.1	1155.0
226.1	228.1	231.2	232.2	232.7	233.2	233.2	233.2	10°	854.3	913.8	974.9	1042.7
252.7	253.7	256.8	257.8	258.3	258.8	259.3	259.8	12.5°	733.7	801.4	870.8	955.0
276.2	278.2	280.3	282.3	283.4	284.4	283.9	283.4	15°	682.4	741.9	822.9	915.4
299.7	300.7	304.8	305.9	306.9	307.9	307.9	307.9	17.5°	660.9	736.9	829.5	927.0
324.3	325.3	328.4	329.4	330.9	332.5	332.5	332.5	20°	637.8	741.9	865.8	984.8
346.8	348.8	352.9	352.9	354.5	356.0	356.0	356.0	22.5°	624.6	758.4	912.1	1079.0
371.3	372.4	375.4	375.4	376.4	377.5	377.5	377.5	25°	621.3	796.5	991.4	1212.8
393.8	394.9	396.9	397.9	398.4	399.0	399.0	399.0	27.5°	624.6	839.4	1090.6	1356.6
417.4	416.3	419.4	419.4	420.4	421.5	421.5	421.5	30°	609.7	884.0	1189.7	1482.2
437.8	437.8	440.9	441.9	442.9	444.0	443.4	442.9	32.5°	584.9	917.1	1277.3	1583.0
457.3	458.3	462.4	463.4	463.9	464.4	463.4	462.4	35°	556.9	931.9	1340.1	1677.1
474.6	475.7	479.8	480.8	481.3	481.8	480.8	479.8	37.5°	527.1	933.5	1399.6	1776.4
494.1	493.1	496.1	497.2	497.7	498.2	497.7	497.2	40°	510.6	927.0	1460.7	1898.6
513.5	512.5	514.5	514.5	515.1	515.6	515.1	514.5	42.5°	504.0	915.4	1505.3	1991.1
528.9	527.8	530.9	530.9	530.9	530.9	529.9	528.9	45°	504.0	903.9	1546.6	2060.5
541.1	541.1	544.2	544.2	544.2	544.2	543.2	542.2	47.5°	505.6	908.8	1596.2	2172.8
551.4	550.3	553.4	553.4	553.9	554.4	553.4	552.4	50°	513.9	964.9	1680.5	2296.8
561.6	560.6	564.7	564.7	565.2	565.7	564.2	562.6	52.5°	527.1	1054.3	1825.9	2443.8
571.8	570.8	573.9	572.9	572.9	572.9	571.8	570.8	55°	540.3	1145.1	2015.9	2690.1
579.0	578.0	580.0	579.0	578.5	578.0	577.5	576.9	57.5°	551.9	1212.8	2201.0	2934.6
582.1	580.0	582.1	581.0	581.5	582.1	581.0	580.0	60°	563.4	1265.7	2308.4	3043.7
583.1	582.1	585.1	585.1	585.6	586.2	584.6	583.1	62.5°	556.9	1245.9	2338.2	2989.2
588.2	587.2	591.3	590.2	590.2	590.2	588.7	587.2	65°	532.0	1141.8	2243.9	2800.7
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	464.3	960.0	1954.8	2503.4
								70°	385.0	753.5	1594.6	2131.5
								72.5°	323.9	563.4	1226.1	1650.7
								75°	269.3	398.2	862.6	1136.8
								77.5°	200.0	271.0	624.6	794.8
								80°	133.8	166.8	398.2	555.2
								82.5°	80.9	97.5	229.7	388.3
								85°	44.6	61.2	140.5	254.5
								87.5°	11.6	13.2	31.4	11.6
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	1.0	1.0	1.0	1.0
								97.5°	6.1	5.1	4.6	4.1
								100°	29.2	27.6	27.1	26.6
								102.5°	50.1	49.1	49.6	50.1
								105°	71.6	70.6	71.6	72.6
								107.5°	93.6	93.1	93.6	94.1
								110°	116.1	115.6	116.1	116.6

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CANDELA DISTRIBUTION (continued):

270°	275°	280°	285°	290°	295°	300°		250°	255°	260°	265°	270°
1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	112.5°	138.6	138.1	139.1	140.1	138.1
1283.9	1297.1	1313.7	1313.7	1333.5	1340.1	1353.3	115°	161.6	161.6	162.6	163.7	162.6
1303.8	1348.4	1389.7	1412.8	1452.5	1478.9	1505.3	117.5°	184.6	184.1	185.2	186.2	184.1
1222.7	1295.5	1363.2	1426.0	1492.1	1548.2	1589.6	120°	208.7	208.7	209.7	210.7	208.7
1115.3	1193.0	1275.6	1359.9	1439.2	1518.6	1586.3	122.5°	233.7	234.3	236.3	238.3	237.3
1039.3	1122.0	1219.5	1292.2	1374.7	1454.1	1520.2	125°	259.8	259.8	261.4	262.9	261.9
1004.6	1088.9	1179.8	1254.1	1331.8	1396.2	1442.6	127.5°	283.9	284.4	285.9	287.4	284.4
1022.8	1125.2	1206.3	1269.1	1326.9	1356.6	1363.2	130°	308.4	308.9	310.5	312.0	310.0
1102.1	1209.5	1269.1	1310.3	1320.2	1318.6	1293.8	132.5°	333.0	333.5	335.0	336.6	334.5
1226.1	1351.6	1393.0	1384.7	1343.3	1290.6	1249.2	135°	356.5	357.0	358.0	359.1	358.0
1393.0	1518.6	1541.7	1495.3	1402.9	1300.4	1231.0	137.5°	378.0	378.5	380.5	382.6	380.5
1568.1	1697.0	1688.7	1619.3	1487.2	1343.3	1232.7	140°	400.0	401.0	403.0	405.1	403.0
1692.1	1799.5	1766.4	1662.3	1515.2	1371.5	1254.1	142.5°	422.0	422.5	424.0	425.5	424.5
1821.0	1901.9	1842.4	1730.0	1578.0	1431.0	1310.3	145°	443.4	444.0	445.5	447.0	445.0
1959.8	2002.6	1906.9	1792.8	1654.0	1505.3	1374.7	147.5°	462.9	463.4	464.9	466.5	463.4
2093.6	2111.8	1973.0	1850.6	1715.2	1581.3	1462.3	150°	479.8	479.8	481.8	483.9	480.8
2237.3	2212.5	2042.3	1898.6	1764.7	1662.3	1564.8	152.5°	497.2	497.2	498.7	500.2	497.2
2361.3	2306.8	2106.8	1946.5	1825.9	1739.9	1672.2	155°	515.1	515.6	517.1	518.6	516.6
2453.8	2382.8	2167.9	1992.8	1885.4	1832.5	1799.5	157.5°	529.4	529.9	532.4	535.0	531.9
2533.1	2455.4	2215.8	2060.5	1968.0	1948.1	1959.8	160°	542.2	542.2	543.7	545.2	543.2
2632.3	2533.1	2280.3	2136.5	2080.4	2100.2	2166.3	162.5°	551.4	550.3	551.4	552.4	549.3
2785.9	2657.0	2387.7	2245.6	2219.2	2290.2	2415.8	165°	561.6	560.6	561.6	562.6	560.6
3033.8	2881.8	2577.7	2435.6	2404.2	2513.3	2693.3	167.5°	571.3	571.8	573.9	575.9	573.9
3248.6	3132.9	2828.9	2657.0	2643.8	2761.1	2957.8	170°	578.0	579.0	581.5	584.1	582.1
3346.1	3334.5	3088.3	2929.6	2909.8	3018.9	3205.6	172.5°	580.5	581.0	582.6	584.1	581.0
3337.8	3433.6	3299.8	3187.4	3119.7	3210.5	3392.3	175°	582.1	581.0	582.6	584.1	581.0
3217.2	3374.1	3385.8	3359.3	3237.0	3243.6	3372.5	177.5°	587.2	587.2	588.7	590.2	587.2
2980.9	3167.6	3362.5	3354.4	3199.0	3061.9	3088.3	180°	589.2	589.2	589.2	589.2	589.2
2645.5	2805.7	3116.4	3179.1	2957.8	2701.6	2581.0						
2120.0	2306.8	2767.7	2855.3	2552.9	2192.7	2006.0						
1462.3	1708.5	2415.8	2424.1	2072.1	1725.1	1523.5						
1004.6	1216.2	1953.1	1974.6	1644.1	1308.7	1135.2						
675.9	814.6	1432.6	1341.7	1085.7	907.2	862.6						
426.3	507.3	900.5	841.1	715.5	654.4	670.9						
198.2	277.6	492.4	480.9	451.1	395.0	343.7						
4.9	14.8	95.9	62.8	62.8	36.3	13.2						
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						
1.0	1.0	1.0	1.0	1.0	1.0	1.0						
4.1	4.1	4.6	5.1	6.1	7.2	10.2						
25.6	26.6	27.1	27.6	29.2	30.7	31.7						
49.1	50.1	49.6	49.1	50.1	51.1	51.7						
70.6	72.6	71.6	70.6	71.6	72.6	72.6						
93.1	94.1	93.6	93.1	93.6	94.1	94.6						
115.6	116.6	116.1	115.6	116.1	116.6	116.6						



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CANDELA DISTRIBUTION (continued):

275°	280°	285°	290°	295°	300°		305°	310°	315°	325°	335°	340°
140.1	139.1	138.1	138.6	139.1	139.1	0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
163.7	162.6	161.6	161.6	161.6	161.6	2.5°	1341.7	1346.7	1345.1	1333.5	1303.8	1292.2
186.2	185.2	184.1	184.6	185.2	184.6	5°	1503.6	1511.9	1502.0	1474.0	1397.9	1361.5
210.7	209.7	208.7	208.7	208.7	208.7	7.5°	1617.7	1624.2	1607.8	1543.3	1407.8	1346.7
238.3	236.3	234.3	233.7	233.2	233.2	10°	1639.2	1654.0	1635.9	1543.3	1386.3	1310.3
262.9	261.4	259.8	259.8	259.8	259.3	12.5°	1578.0	1609.4	1596.2	1528.5	1376.4	1295.5
287.4	285.9	284.4	283.9	283.4	283.9	15°	1483.8	1487.2	1495.3	1493.7	1358.3	1278.9
312.0	310.5	308.9	308.4	307.9	307.9	17.5°	1379.8	1376.4	1386.3	1417.7	1353.3	1290.6
336.6	335.0	333.5	333.0	332.5	332.5	20°	1285.5	1280.6	1290.6	1321.9	1333.5	1318.6
359.1	358.0	357.0	356.5	356.0	356.0	22.5°	1226.1	1209.5	1207.9	1254.1	1343.3	1383.0
382.6	380.5	378.5	378.0	377.5	377.5	25°	1193.0	1174.9	1183.1	1235.9	1384.7	1459.0
405.1	403.0	401.0	400.0	399.0	399.0	27.5°	1183.1	1163.3	1174.9	1234.3	1427.6	1551.6
425.5	424.0	422.5	422.0	421.5	421.5	30°	1189.7	1169.8	1174.9	1245.9	1449.1	1573.1
447.0	445.5	444.0	443.4	442.9	443.4	32.5°	1227.7	1193.0	1189.7	1280.6	1488.8	1621.0
466.5	464.9	463.4	462.9	462.4	463.4	35°	1278.9	1229.4	1222.7	1336.8	1540.1	1682.1
483.9	481.8	479.8	479.8	479.8	480.8	37.5°	1364.8	1303.8	1293.8	1431.0	1609.4	1733.4
500.2	498.7	497.2	497.2	497.2	497.7	40°	1480.5	1419.3	1419.3	1551.6	1703.6	1804.4
518.6	517.1	515.6	515.1	514.5	515.1	42.5°	1611.0	1571.5	1578.0	1697.0	1811.0	1893.6
535.0	532.4	529.9	529.4	528.9	529.9	45°	1784.5	1763.1	1796.1	1880.4	1920.1	1976.2
545.2	543.7	542.2	542.2	542.2	543.2	47.5°	1987.8	2006.0	2052.2	2078.7	2030.8	2060.5
552.4	551.4	550.3	551.4	552.4	553.4	50°	2242.3	2290.2	2334.8	2328.2	2167.9	2158.0
562.6	561.6	560.6	561.6	562.6	564.2	52.5°	2534.8	2597.6	2628.9	2592.6	2321.6	2263.8
575.9	573.9	571.8	571.3	570.8	571.8	55°	2832.1	2908.1	2898.2	2857.0	2488.4	2410.8
584.1	581.5	579.0	578.0	576.9	577.5	57.5°	3101.5	3161.0	3187.4	3098.2	2691.7	2589.3
584.1	582.6	581.0	580.5	580.0	581.0	60°	3314.7	3379.1	3379.1	3291.5	2913.2	2794.2
584.1	582.6	581.0	582.1	583.1	584.6	62.5°	3470.0	3521.2	3503.0	3418.8	3103.1	3012.3
590.2	588.7	587.2	587.2	587.2	588.7	65°	3458.4	3463.4	3443.6	3412.2	3217.2	3207.3
589.2	589.2	589.2	589.2	589.2	589.2	67.5°	3132.9	3134.5	3174.2	3161.0	3131.3	3253.5
						70°	2567.8	2594.2	2662.0	2642.2	2794.2	3045.3
						72.5°	1954.8	1971.3	2052.2	2034.0	2240.7	2516.6
						75°	1422.7	1421.1	1455.8	1429.3	1690.4	1997.7
						77.5°	1095.5	1065.8	1059.2	1062.4	1198.0	1452.5
						80°	884.0	884.0	874.1	837.8	733.7	849.4
						82.5°	705.5	677.5	627.9	556.9	471.0	502.4
						85°	352.0	342.1	299.1	247.9	206.5	274.3
						87.5°	1.6	0.0	0.0	0.0	0.0	0.0
						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°	1.0	1.0	1.0	1.0	1.0	1.0
						97.5°	13.3	11.3	9.2	4.1	3.1	2.6
						100°	32.7	31.7	30.7	22.5	14.3	12.3
						102.5°	52.2	51.7	51.1	46.0	38.9	35.8
						105°	72.6	72.1	71.6	67.5	62.4	59.8
						107.5°	95.1	94.1	93.1	90.0	85.9	83.9
						110°	116.6	115.6	114.6	112.5	108.4	106.9



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CANDELA DISTRIBUTION (continued):

342.5°	345°	347.5°	350°	352.5°		305°	310°	315°	325°	335°	340°	342.5°
1155.0	1155.0	1155.0	1155.0	1155.0	112.5°	139.1	138.1	137.1	135.0	132.0	130.4	129.7
1287.2	1274.0	1259.2	1259.2	1245.9	115°	161.6	160.6	159.6	157.5	154.5	153.4	152.9
1340.1	1313.7	1292.2	1272.3	1252.5	117.5°	184.1	183.6	183.1	181.1	178.0	177.0	176.5
1313.7	1282.3	1255.8	1221.1	1189.7	120°	208.7	207.7	206.6	205.6	202.5	201.5	201.0
1274.0	1239.3	1201.3	1164.9	1120.3	122.5°	233.2	232.7	232.2	231.2	228.1	227.1	226.6
1252.5	1211.2	1164.9	1126.9	1075.7	125°	258.8	258.3	257.8	256.8	253.7	253.2	252.9
1235.9	1193.0	1151.7	1115.3	1070.7	127.5°	284.4	283.4	282.3	280.3	278.2	277.2	276.7
1262.4	1221.1	1191.3	1150.1	1115.3	130°	307.9	306.9	305.9	304.8	300.7	300.2	299.9
1307.0	1282.3	1259.2	1232.7	1204.6	132.5°	332.5	330.9	329.4	328.4	325.3	324.8	324.5
1391.3	1388.0	1386.3	1366.6	1346.7	135°	356.0	354.5	352.9	352.9	348.8	347.8	347.3
1497.1	1510.3	1528.5	1528.5	1528.5	137.5°	377.5	376.4	375.4	375.4	372.4	371.8	371.5
1606.1	1639.2	1673.9	1688.7	1698.6	140°	399.0	398.4	397.9	396.9	394.9	394.3	394.0
1637.5	1685.4	1739.9	1776.4	1801.1	142.5°	421.5	420.4	419.4	419.4	416.3	416.9	417.2
1688.7	1743.2	1804.4	1845.7	1890.3	145°	444.0	442.9	441.9	440.9	437.8	437.8	437.8
1749.9	1797.8	1860.5	1916.8	1981.1	147.5°	464.4	463.9	463.4	462.4	458.3	457.8	457.5
1801.1	1863.9	1931.6	2004.4	2086.9	150°	481.8	481.3	480.8	479.8	475.7	475.2	474.9
1878.8	1944.8	2019.2	2116.7	2217.5	152.5°	498.2	497.7	497.2	496.1	493.1	493.6	493.9
1964.7	2035.8	2113.4	2210.9	2328.2	155°	515.6	515.1	514.5	514.5	512.5	513.0	513.3
2039.0	2101.9	2186.0	2286.9	2420.7	157.5°	530.9	530.9	530.9	530.9	527.8	528.4	528.7
2110.0	2167.9	2267.1	2369.5	2501.7	160°	544.2	544.2	544.2	544.2	541.1	541.1	541.1
2204.3	2248.9	2348.0	2465.3	2605.8	162.5°	554.4	553.9	553.4	553.4	550.3	550.9	551.2
2301.7	2362.9	2472.0	2605.8	2762.8	165°	565.7	565.2	564.7	564.7	560.6	561.1	561.4
2433.9	2506.6	2640.5	2792.6	2990.8	167.5°	572.9	572.9	572.9	573.9	570.8	571.3	571.6
2615.7	2691.7	2833.8	3004.0	3207.3	170°	578.0	578.5	579.0	580.0	578.0	578.5	578.8
2838.8	2913.2	3035.4	3204.0	3393.9	172.5°	582.1	581.5	581.0	582.1	580.0	581.0	581.5
3047.0	3149.5	3260.1	3385.8	3536.0	175°	586.2	585.6	585.1	585.1	582.1	582.6	582.9
3273.3	3352.7	3445.2	3493.2	3577.4	177.5°	590.2	590.2	590.2	591.3	587.2	587.7	588.0
3339.4	3405.5	3486.5	3486.5	3476.6	180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2
3144.4	3245.3	3316.3	3316.3	3232.0								
2734.7	2903.2	2972.6	3015.6	2908.1								
2222.5	2432.3	2546.3	2582.6	2387.7								
1630.9	1764.7	1779.6	1784.5	1521.8								
940.2	1046.0	1083.9	1138.4	912.1								
545.3	584.9	649.4	672.5	555.2								
305.7	309.0	309.0	285.8	233.0								
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								
1.0	1.0	1.0	1.0	1.0								
2.3	2.0	2.0	2.0	2.0								
11.3	10.2	9.7	9.2	8.7								
34.3	32.7	31.7	30.7	29.7								
58.5	57.3	56.8	56.3	55.8								
82.9	81.8	81.0	80.3	79.6								
106.2	105.4	105.2	104.9	104.5								

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CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°		355°	359°	360°
128.9	128.4	127.9	127.4	0°	1155.0	1155.0	1155.0
152.4	151.9	151.4	150.9	2.5°	1242.6	1222.7	1226.1
175.9	175.4	174.9	174.4	5°	1224.4	1196.3	1186.4
200.5	200.3	200.0	199.7	7.5°	1161.7	1113.7	1098.9
226.1	225.9	225.6	225.3	10°	1085.7	1024.5	1012.9
252.7	252.5	252.2	251.9	12.5°	1042.7	973.2	958.4
276.2	276.0	275.7	275.4	15°	1029.4	963.3	946.8
299.7	299.5	299.2	298.9	17.5°	1069.1	998.0	978.2
324.3	323.5	322.7	322.0	20°	1159.9	1075.7	1052.5
346.8	346.3	345.8	345.2	22.5°	1295.5	1199.6	1171.6
371.3	370.5	369.8	369.1	25°	1478.9	1369.8	1341.7
393.8	393.3	392.8	392.3	27.5°	1667.2	1536.7	1500.4
417.4	416.9	416.3	415.8	30°	1776.4	1655.6	1619.3
437.8	437.3	436.8	436.3	32.5°	1887.0	1771.3	1728.4
457.3	456.4	455.7	455.0	35°	2004.4	1887.0	1844.1
474.6	474.1	473.6	473.1	37.5°	2141.4	2042.3	2004.4
494.1	493.3	492.6	491.8	40°	2305.0	2214.2	2159.7
513.5	513.0	512.5	512.0	42.5°	2440.6	2356.3	2305.0
528.9	528.4	527.8	527.3	45°	2539.7	2468.7	2415.8
541.1	540.6	540.1	539.6	47.5°	2630.6	2576.1	2523.2
551.4	550.6	549.8	549.1	50°	2744.6	2698.3	2662.0
561.6	561.1	560.6	560.1	52.5°	2898.2	2881.8	2850.4
571.8	571.0	570.3	569.6	55°	3124.6	3161.0	3116.4
579.0	578.2	577.5	576.7	57.5°	3339.4	3365.9	3346.1
582.1	581.2	580.5	579.8	60°	3508.0	3471.7	3446.8
583.1	582.9	582.6	582.3	62.5°	3593.9	3504.7	3463.4
588.2	587.7	587.2	586.7	65°	3598.8	3461.8	3399.0
589.2	589.2	589.2	589.2	67.5°	3486.5	3326.2	3253.5
				70°	3184.1	2999.1	2903.2
				72.5°	2675.2	2390.9	2326.5
				75°	1961.4	1612.7	1574.7
				77.5°	1188.1	927.0	877.4
				80°	669.2	532.0	515.6
				82.5°	380.0	299.1	315.6
				85°	155.3	77.6	85.9
				87.5°	0.0	0.0	0.0
				90°	0.0	0.0	0.0
				92.5°	0.0	0.0	0.0
				95°	1.0	1.0	1.0
				97.5°	2.0	2.0	2.0
				100°	8.2	8.2	8.2
				102.5°	28.6	28.6	28.6
				105°	55.2	55.2	55.2
				107.5°	78.8	79.6	79.8
				110°	104.3	103.5	103.3

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CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	126.8	126.8	126.8
115°	150.4	149.6	149.4
117.5°	173.9	173.1	172.9
120°	199.5	197.8	197.4
122.5°	225.0	224.2	224.0
125°	251.6	250.0	249.6
127.5°	275.2	273.5	273.1
130°	298.7	297.1	296.7
132.5°	321.2	320.4	320.2
135°	344.7	343.9	343.7
137.5°	368.3	367.4	367.2
140°	391.8	391.0	390.8
142.5°	415.3	413.7	413.3
145°	435.8	435.0	434.8
147.5°	454.2	454.2	454.2
150°	472.6	471.8	471.6
152.5°	491.0	490.2	490.0
155°	511.5	510.7	510.5
157.5°	526.8	525.2	524.8
160°	539.1	537.5	537.0
162.5°	548.3	547.5	547.3
165°	559.6	558.7	558.5
167.5°	568.8	567.9	567.7
170°	575.9	575.1	574.9
172.5°	579.0	578.2	578.0
175°	582.1	580.4	580.0
177.5°	586.2	585.3	585.1
180°	589.2	589.2	589.2

(END OF REPORT)