

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: P228655

Luminaire Tested: **ISC-AF-1200-LED-E1-SLR-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228655
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-1200-LED-E1-SLR-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED 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: 7072.8 lumens
Efficiency: N/A
Efficacy: 85.5 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

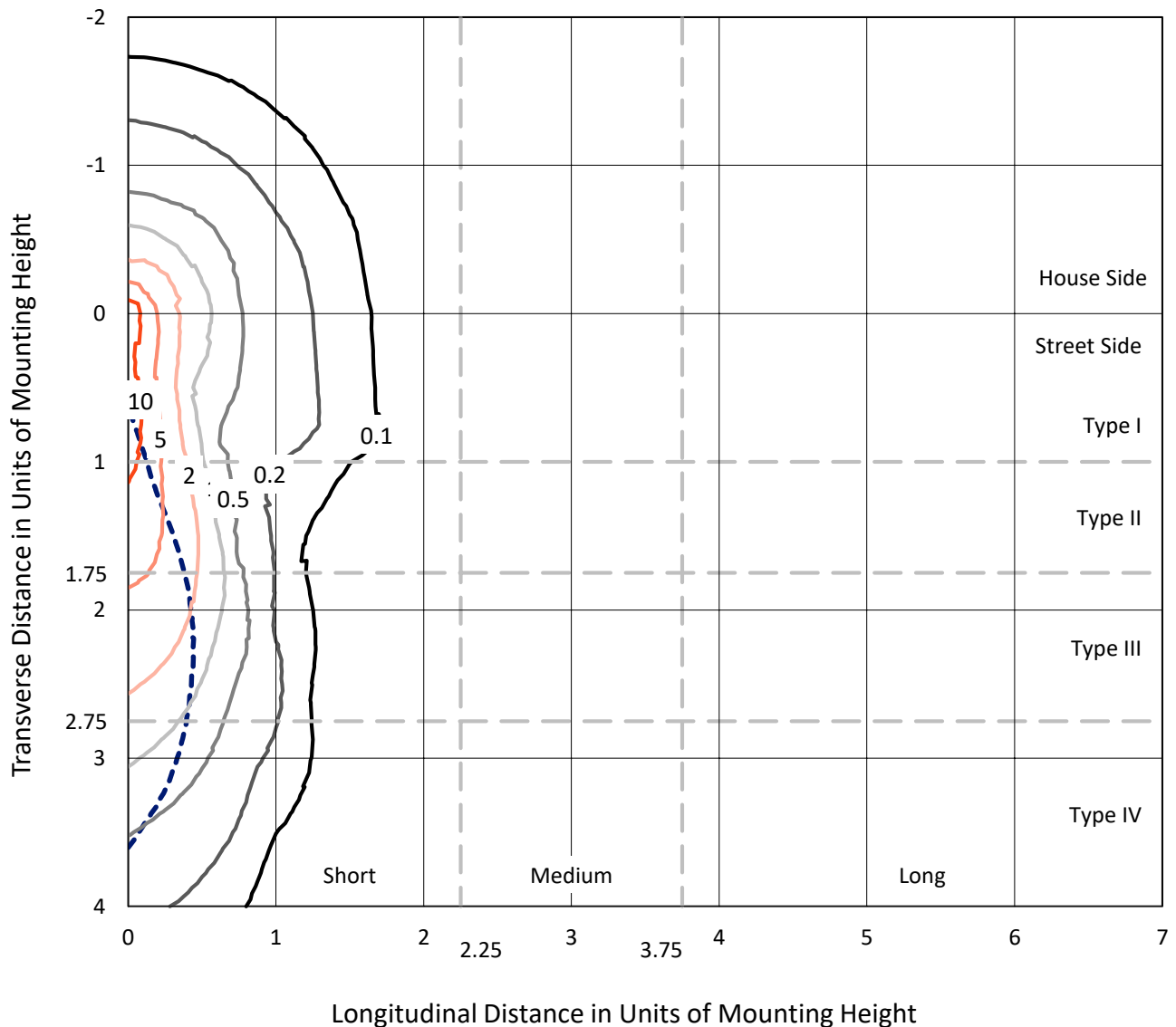
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

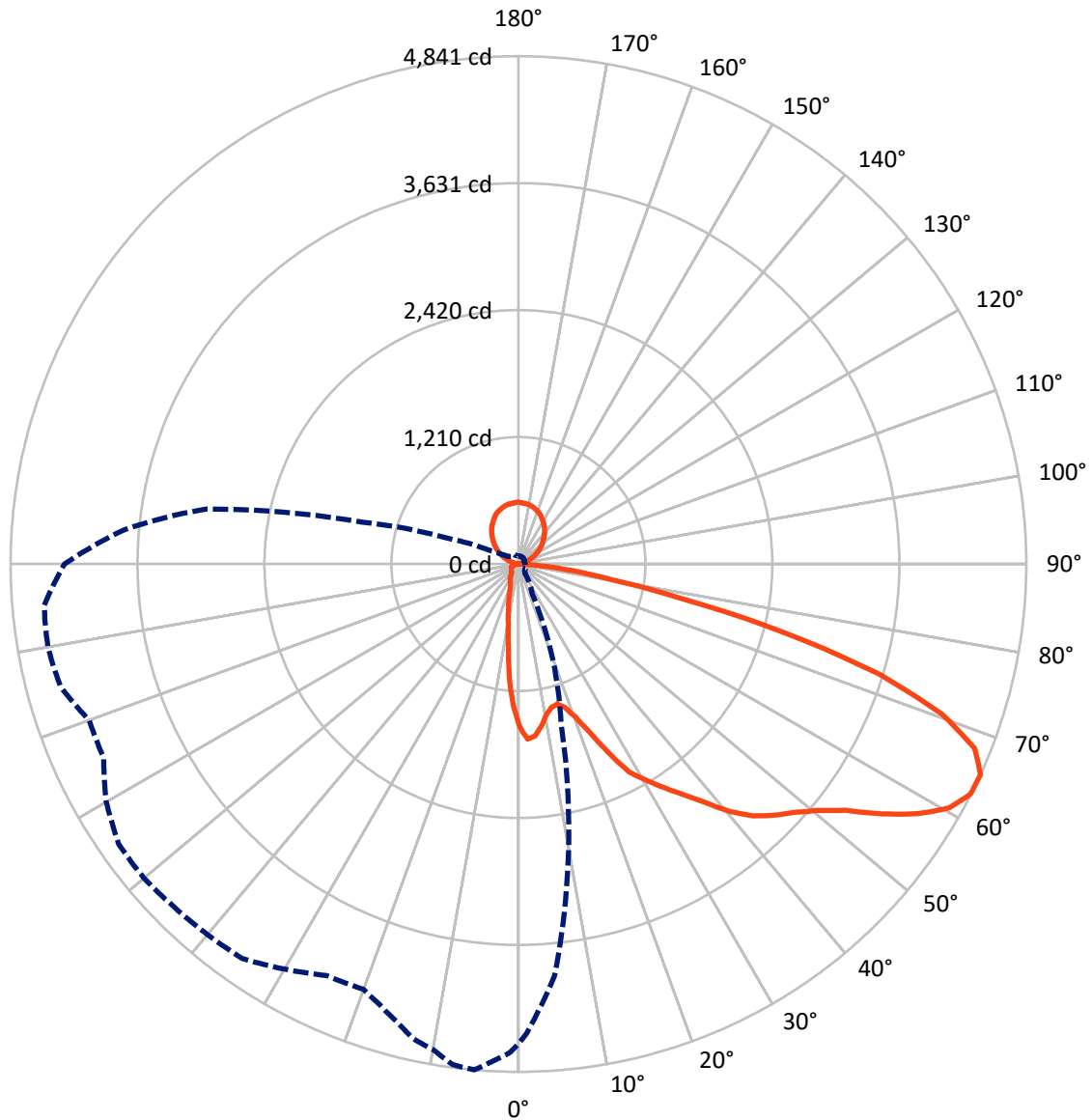
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 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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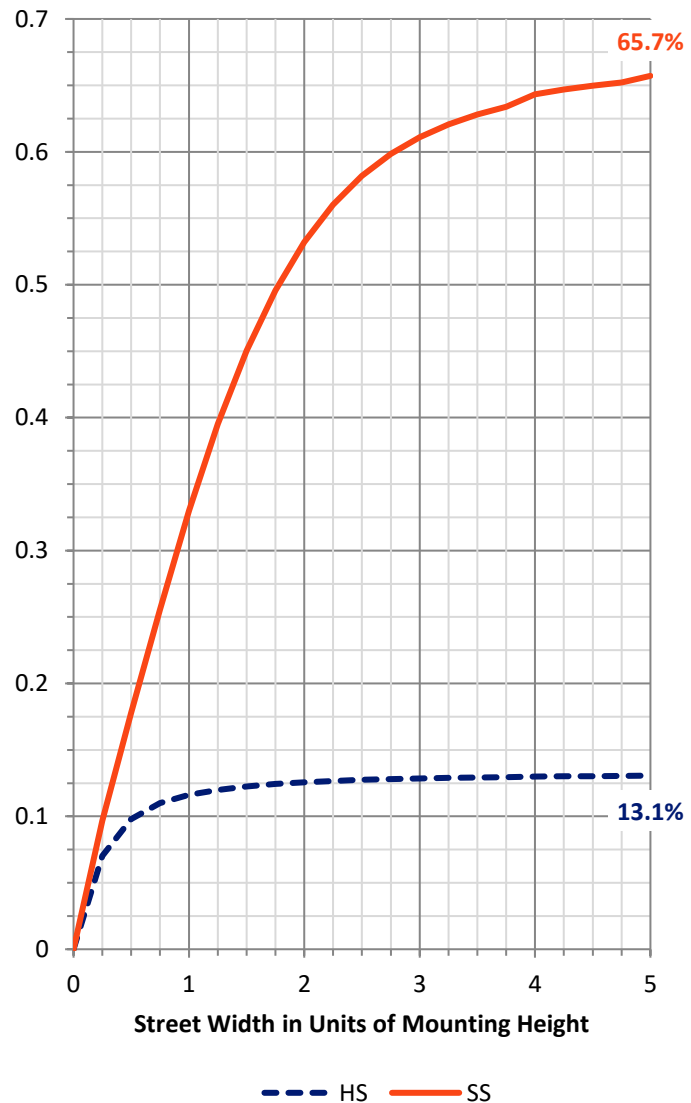
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	933.4	729.4	1662.9
	% Fixture	13.2	10.3	23.5
Street Side	Lumens	4680.5	729.4	5409.9
	% Fixture	66.2	10.3	76.5
Total	Lumens	5613.9	1458.9	7072.8
	% Fixture	79.4	20.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	1.7
10°-20°	245.8	3.5
20°-30°	357.3	5.1
30°-40°	528.5	7.5
40°-50°	770.0	10.9
50°-60°	1154.3	16.3
60°-70°	1438.4	20.3
70°-80°	842.6	11.9
80°-90°	157.5	2.2
90°-100°	4.8	0.1
100°-110°	70.6	1.0
110°-120°	156.6	2.2
120°-130°	229.0	3.2
130°-140°	271.7	3.8
140°-150°	275.5	3.9
150°-160°	236.4	3.3
160°-170°	158.7	2.2
170°-180°	55.6	0.8
0°-90°	5613.9	79.4
0°-180°	7072.8	100.0



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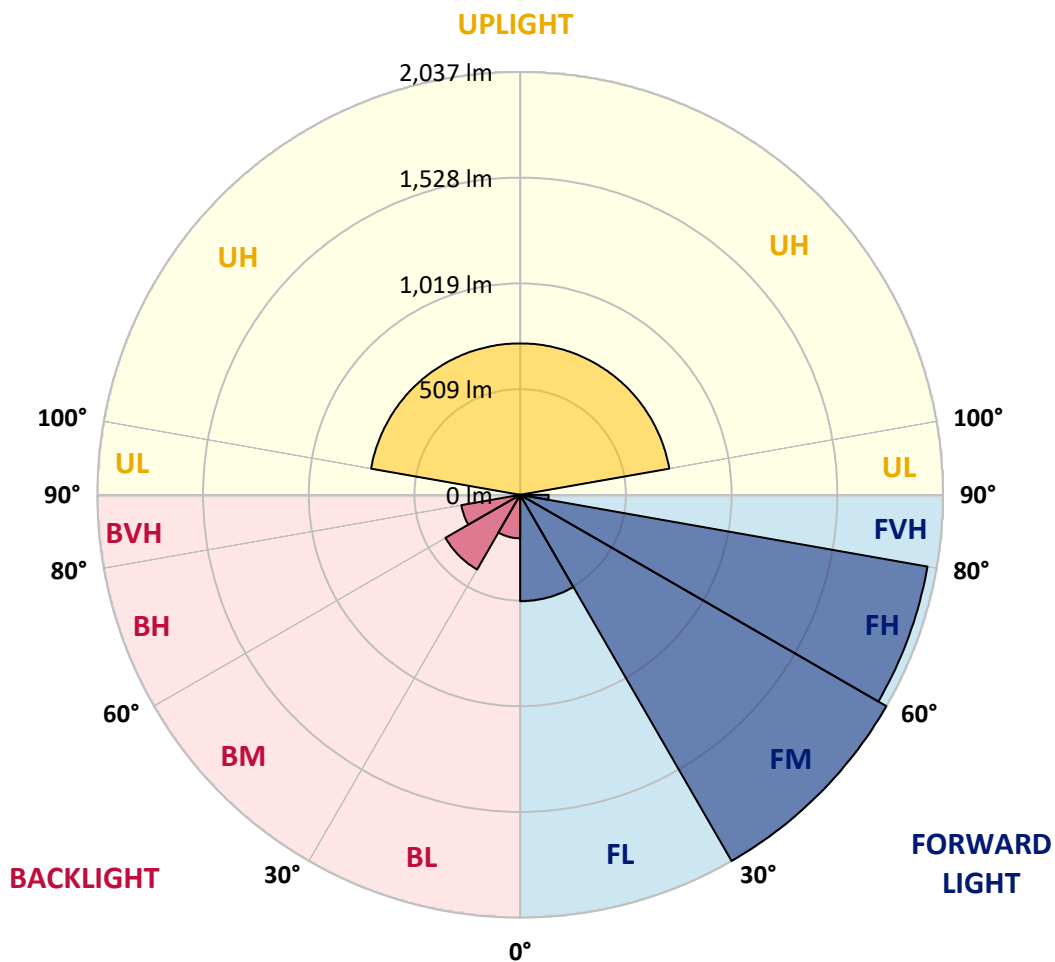
CATALOG NUMBER: ISC-AF-1200-LED-E1-SLR-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	512.9	7.3			
FM	(30°-60°)	2037.4	28.8			
FH	(60°-80°)	1992.9	28.2			G2/5000
FVH	(80°-90°)	137.3	1.9			G2/225
BL	(0°-30°)	209.6	3.0	B1/500		
BM	(30°-60°)	415.5	5.9	B1/1000		
BH	(60°-80°)	288.1	4.1	B1/500		G1/500
BVH	(80°-90°)	20.3	0.3			G1/100
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	10.3		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°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1649.2	1635.8	1609.2	1555.8	1500.3	1447.0	1438.1	1418.0	1420.3	1409.1	1404.7
5°	1595.8	1578.0	1522.5	1411.4	1315.8	1218.0	1211.3	1171.3	1175.8	1151.3	1137.9
7.5°	1478.1	1453.6	1391.3	1238.0	1104.7	975.7	962.4	915.7	909.1	884.6	864.6
10°	1362.5	1338.0	1260.2	1084.6	931.3	835.8	820.1	797.9	780.1	769.1	749.0
12.5°	1289.1	1275.8	1182.4	980.2	860.2	782.4	762.4	740.1	722.3	702.4	682.3
15°	1273.6	1246.9	1151.3	946.8	806.8	711.3	686.8	662.4	642.3	622.4	593.4
17.5°	1315.8	1289.1	1182.4	931.3	746.8	631.3	600.1	566.7	546.8	522.3	491.2
20°	1415.8	1373.6	1242.5	909.1	682.3	537.9	500.1	460.1	437.8	395.6	373.4
22.5°	1575.9	1522.5	1344.7	909.1	622.4	440.1	397.8	362.3	337.9	300.0	275.6
25°	1804.8	1758.0	1511.4	933.5	569.0	357.8	315.6	280.1	255.6	228.9	213.4
27.5°	2018.1	1944.7	1689.2	969.0	526.7	300.0	257.8	228.9	211.1	197.8	188.9
30°	2178.2	2118.1	1844.8	993.5	464.5	251.1	224.4	206.7	197.8	191.2	186.7
32.5°	2324.9	2255.9	1955.9	1009.0	426.8	213.4	188.9	175.5	166.7	157.8	155.6
35°	2480.5	2413.8	2087.0	1006.9	402.3	195.6	171.1	155.6	146.7	144.4	140.0
37.5°	2696.0	2604.9	2238.2	1006.9	393.4	188.9	160.0	144.4	137.8	133.4	131.1
40°	2905.0	2802.7	2404.9	1013.5	384.5	184.4	160.0	144.4	133.4	128.9	124.5
42.5°	3100.6	2987.2	2556.0	1024.6	380.0	171.1	151.1	142.3	137.8	128.9	122.2
45°	3249.4	3160.5	2673.8	1046.9	380.0	162.2	142.3	135.5	133.4	133.4	131.1
47.5°	3393.9	3293.9	2809.3	1089.0	386.8	155.6	135.5	126.6	126.6	126.6	128.9
50°	3580.6	3462.8	2996.1	1175.8	386.8	153.3	128.9	120.0	117.8	122.2	122.2
52.5°	3834.0	3749.5	3269.5	1300.3	382.3	151.1	126.6	113.3	111.1	113.3	117.8
55°	4191.8	4096.3	3600.6	1453.6	377.9	146.7	122.2	111.1	106.7	104.4	106.7
57.5°	4500.8	4418.5	3905.1	1575.9	366.7	135.5	117.8	108.9	102.2	100.0	97.8
60°	4636.3	4567.5	4100.7	1658.1	346.7	124.5	111.1	104.4	97.8	95.5	93.4
62.5°	4658.6	4571.9	4103.0	1675.8	324.5	113.3	104.4	97.8	93.4	91.1	88.9
65°	4571.9	4474.1	3940.7	1567.0	306.7	113.3	100.0	93.4	86.6	84.5	82.2
67.5°	4376.3	4225.2	3529.5	1329.1	291.1	115.6	97.8	86.6	82.2	80.0	77.7
70°	3905.1	3736.2	2980.5	1055.8	284.5	117.8	97.8	82.2	75.6	73.3	73.3
72.5°	3129.4	2936.1	2324.9	795.7	273.3	120.0	95.5	77.7	71.1	66.7	66.7
75°	2118.1	1949.2	1575.9	537.9	226.7	104.4	86.6	71.1	62.2	57.8	55.5
77.5°	1180.2	1124.6	1002.4	284.5	144.4	77.7	66.7	57.8	51.1	48.9	46.6
80°	693.5	664.5	591.2	157.8	88.9	44.5	40.0	37.7	33.3	33.3	33.3
82.5°	424.5	395.6	366.7	71.1	42.2	22.2	22.2	17.8	17.8	15.5	15.5
85°	115.6	106.7	148.9	15.5	4.4	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°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1386.9	1382.4	1382.4	1349.2	1349.2	1331.4	1326.9	1326.9	1333.5	1329.1	1302.4
5°	1115.7	1102.4	1093.5	1053.5	1042.4	1022.4	1013.5	1011.3	1017.9	1006.9	971.3
7.5°	840.1	829.0	815.7	784.6	771.2	769.1	742.4	735.7	731.2	722.3	700.1
10°	733.5	717.9	706.8	684.6	669.0	657.9	635.7	624.5	615.6	602.3	595.7
12.5°	660.1	644.6	629.0	600.1	580.1	566.7	553.4	531.2	522.3	506.8	497.9
15°	569.0	551.2	533.5	502.3	475.7	462.3	435.7	422.3	413.4	395.6	386.8
17.5°	457.9	433.4	413.4	384.5	371.1	348.9	333.4	311.2	293.4	286.7	280.1
20°	344.5	322.2	304.5	280.1	266.7	248.9	240.1	224.4	215.6	211.1	206.7
22.5°	253.4	235.6	224.4	211.1	204.5	197.8	193.3	188.9	184.4	182.3	182.3
25°	200.0	193.3	188.9	184.4	182.3	180.0	175.5	173.4	171.1	168.9	168.9
27.5°	182.3	177.8	175.5	173.4	171.1	166.7	166.7	162.2	160.0	160.0	157.8
30°	184.4	184.4	184.4	180.0	177.8	173.4	171.1	164.5	160.0	155.6	153.3
32.5°	151.1	151.1	148.9	144.4	142.3	140.0	140.0	135.5	133.4	133.4	137.8
35°	137.8	135.5	133.4	128.9	126.6	122.2	120.0	117.8	115.6	113.3	113.3
37.5°	131.1	128.9	126.6	122.2	120.0	117.8	115.6	111.1	108.9	108.9	106.7
40°	124.5	124.5	124.5	120.0	117.8	113.3	111.1	108.9	106.7	104.4	104.4
42.5°	120.0	120.0	120.0	117.8	115.6	113.3	108.9	106.7	104.4	102.2	100.0
45°	122.2	120.0	120.0	117.8	115.6	111.1	108.9	104.4	102.2	100.0	97.8
47.5°	131.1	128.9	124.5	120.0	115.6	111.1	106.7	102.2	100.0	97.8	95.5
50°	124.5	133.4	135.5	128.9	117.8	111.1	106.7	102.2	97.8	95.5	93.4
52.5°	122.2	124.5	133.4	133.4	122.2	113.3	106.7	102.2	97.8	93.4	91.1
55°	111.1	117.8	120.0	122.2	120.0	111.1	104.4	97.8	95.5	91.1	86.6
57.5°	97.8	102.2	104.4	108.9	111.1	108.9	100.0	93.4	91.1	86.6	82.2
60°	91.1	91.1	91.1	93.4	104.4	113.3	104.4	91.1	84.5	82.2	77.7
62.5°	84.5	84.5	82.2	84.5	86.6	97.8	95.5	86.6	82.2	80.0	75.6
65°	82.2	80.0	77.7	77.7	77.7	77.7	77.7	77.7	75.6	75.6	73.3
67.5°	75.6	73.3	73.3	71.1	71.1	71.1	71.1	71.1	68.9	68.9	66.7
70°	71.1	68.9	66.7	66.7	66.7	64.4	64.4	64.4	62.2	62.2	62.2
72.5°	64.4	62.2	62.2	62.2	60.0	60.0	60.0	57.8	57.8	55.5	55.5
75°	55.5	55.5	53.3	53.3	53.3	51.1	51.1	51.1	51.1	48.9	48.9
77.5°	46.6	44.5	46.6	44.5	44.5	44.5	44.5	44.5	42.2	42.2	40.0
80°	31.1	31.1	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	31.1
82.5°	17.8	15.5	17.8	17.8	17.8	20.0	20.0	22.2	20.0	20.0	17.8
85°	0.0	0.0	0.0	0.0	0.0	2.3	2.3	4.4	4.4	4.4	4.4
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-1200-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



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CATALOG NUMBER: ISC-AF-1200-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1315.8	1313.6	1291.4	1295.8	1289.1	1275.8	1278.0	1280.2	1284.6	1275.8	1271.3
5°	989.1	991.2	962.4	971.3	964.6	962.4	969.0	980.2	986.8	984.6	977.9
7.5°	702.4	704.6	680.2	677.9	671.3	669.0	677.9	689.0	695.7	693.5	695.7
10°	580.1	573.5	551.2	535.6	520.1	506.8	504.5	504.5	504.5	500.1	495.6
12.5°	480.1	473.4	446.7	433.4	420.0	402.3	400.1	397.8	391.2	384.5	375.6
15°	373.4	366.7	344.5	335.6	324.5	317.8	315.6	315.6	311.2	306.7	302.3
17.5°	271.2	266.7	253.4	244.5	242.2	244.5	246.7	251.1	253.4	255.6	255.6
20°	204.5	202.2	197.8	197.8	200.0	206.7	208.9	215.6	217.8	222.3	226.7
22.5°	180.0	180.0	177.8	177.8	182.3	188.9	193.3	195.6	197.8	200.0	200.0
25°	166.7	166.7	164.5	168.9	175.5	175.5	175.5	175.5	171.1	168.9	168.9
27.5°	157.8	157.8	157.8	160.0	157.8	155.6	155.6	155.6	153.3	153.3	151.1
30°	151.1	151.1	151.1	148.9	148.9	146.7	146.7	144.4	144.4	142.3	142.3
32.5°	140.0	135.5	140.0	135.5	135.5	133.4	135.5	135.5	131.1	131.1	131.1
35°	111.1	108.9	108.9	108.9	106.7	108.9	113.3	113.3	113.3	113.3	113.3
37.5°	104.4	104.4	102.2	100.0	100.0	97.8	100.0	97.8	97.8	97.8	100.0
40°	102.2	100.0	97.8	97.8	95.5	93.4	93.4	93.4	93.4	93.4	93.4
42.5°	97.8	97.8	93.4	91.1	91.1	88.9	88.9	88.9	88.9	88.9	88.9
45°	95.5	93.4	91.1	88.9	86.6	86.6	86.6	86.6	86.6	86.6	84.5
47.5°	93.4	91.1	88.9	86.6	84.5	82.2	82.2	82.2	82.2	82.2	82.2
50°	91.1	88.9	84.5	84.5	82.2	80.0	80.0	80.0	80.0	80.0	80.0
52.5°	86.6	86.6	82.2	80.0	77.7	77.7	77.7	77.7	77.7	77.7	77.7
55°	82.2	82.2	77.7	75.6	73.3	73.3	73.3	73.3	75.6	75.6	75.6
57.5°	80.0	77.7	73.3	73.3	68.9	68.9	68.9	71.1	71.1	73.3	73.3
60°	75.6	73.3	71.1	68.9	68.9	66.7	66.7	66.7	66.7	68.9	68.9
62.5°	73.3	71.1	66.7	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
65°	68.9	68.9	64.4	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
67.5°	64.4	64.4	60.0	57.8	57.8	57.8	60.0	57.8	57.8	57.8	57.8
70°	60.0	57.8	55.5	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
72.5°	53.3	53.3	51.1	48.9	48.9	48.9	48.9	48.9	48.9	48.9	51.1
75°	46.6	44.5	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
77.5°	40.0	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	37.7
80°	28.8	26.7	26.7	26.7	26.7	28.8	28.8	28.8	28.8	28.8	28.8
82.5°	17.8	15.5	15.5	15.5	17.8	20.0	20.0	20.0	20.0	22.2	22.2
85°	4.4	4.4	4.4	4.4	8.9	11.2	11.2	11.2	13.3	11.2	11.2
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°
1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	112.5°	139.1
1266.9	1293.5	1293.5	1275.8	1284.6	1275.8	1273.6	1289.1	1298.0	1326.9	1344.7	115°	161.6
980.2	1013.5	1015.7	1006.9	1017.9	1011.3	1017.9	1038.0	1053.5	1073.5	1091.3	117.5°	185.2
700.1	731.2	738.0	731.2	751.3	749.0	753.5	775.7	789.0	800.2	802.4	120°	208.7
493.4	497.9	515.7	511.2	524.6	522.3	529.0	546.8	564.6	571.2	575.6	122.5°	233.2
371.1	366.7	373.4	364.5	371.1	371.1	373.4	384.5	406.7	415.6	437.8	125°	259.8
300.0	295.6	295.6	291.1	291.1	289.0	291.1	300.0	315.6	329.0	346.7	127.5°	283.4
255.6	255.6	255.6	253.4	251.1	251.1	253.4	257.8	266.7	275.6	284.5	130°	307.9
228.9	233.3	235.6	237.8	240.1	242.2	244.5	251.1	248.9	240.1	228.9	132.5°	332.5
200.0	200.0	202.2	202.2	200.0	200.0	200.0	200.0	200.0	206.7	213.4	135°	356.0
166.7	166.7	166.7	168.9	166.7	166.7	168.9	168.9	171.1	175.5	182.3	137.5°	377.5
151.1	151.1	151.1	151.1	151.1	151.1	151.1	153.3	155.6	162.2	166.7	140°	399.0
140.0	140.0	137.8	137.8	137.8	135.5	137.8	137.8	140.0	148.9	155.6	142.5°	421.5
128.9	126.6	126.6	126.6	124.5	124.5	124.5	128.9	131.1	135.5	142.3	145°	442.9
113.3	113.3	113.3	115.6	115.6	115.6	115.6	120.0	120.0	122.2	122.2	147.5°	462.4
102.2	102.2	104.4	106.7	106.7	108.9	108.9	111.1	113.3	111.1	108.9	150°	479.8
93.4	95.5	95.5	100.0	100.0	100.0	102.2	104.4	106.7	102.2	102.2	152.5°	497.2
88.9	88.9	88.9	91.1	91.1	91.1	93.4	95.5	97.8	97.8	97.8	155°	514.5
84.5	84.5	84.5	86.6	84.5	84.5	84.5	86.6	91.1	91.1	93.4	157.5°	528.9
82.2	82.2	82.2	80.0	80.0	80.0	80.0	82.2	84.5	88.9	91.1	160°	542.2
80.0	77.7	77.7	77.7	77.7	77.7	77.7	80.0	82.2	84.5	88.9	162.5°	552.4
75.6	75.6	75.6	75.6	75.6	75.6	75.6	77.7	80.0	82.2	84.5	165°	562.6
75.6	75.6	73.3	73.3	75.6	75.6	75.6	77.7	80.0	82.2	82.2	167.5°	570.8
73.3	71.1	71.1	73.3	73.3	73.3	73.3	75.6	77.7	80.0	80.0	170°	576.9
68.9	68.9	68.9	68.9	71.1	71.1	73.3	75.6	75.6	77.7	77.7	172.5°	580.0
64.4	66.7	66.7	66.7	68.9	68.9	71.1	73.3	75.6	77.7	75.6	175°	583.1
62.2	64.4	64.4	64.4	66.7	66.7	66.7	71.1	73.3	73.3	75.6	177.5°	587.2
60.0	60.0	60.0	62.2	62.2	64.4	64.4	68.9	68.9	71.1	73.3	180°	589.2
55.5	55.5	55.5	57.8	57.8	60.0	62.2	64.4	64.4	66.7	68.9		
51.1	51.1	51.1	53.3	53.3	55.5	57.8	62.2	60.0	62.2	62.2		
44.5	44.5	46.6	46.6	48.9	51.1	53.3	53.3	53.3	53.3	53.3		
37.7	37.7	40.0	40.0	42.2	44.5	44.5	44.5	46.6	44.5	44.5		
31.1	31.1	33.3	33.3	33.3	33.3	35.6	33.3	35.6	33.3	35.6		
22.2	22.2	24.4	22.2	24.4	22.2	22.2	20.0	24.4	22.2	22.2		
8.9	11.2	11.2	11.2	11.2	8.9	8.9	6.6	8.9	8.9	6.6		
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		

'228655
 ISC-AF-1200-LED-E1-SLR-ULG

REPORT NUMBER: P228655
 CATALOG NUMBER: ISC-AF-12

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°	1553.6	1553.6
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	2.5°	1351.3	1349.2
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	5°	1093.5	1089.0
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	7.5°	782.4	773.5
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	10°	577.9	584.5
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	12.5°	462.3	489.0
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	15°	371.1	386.8
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	17.5°	286.7	293.4
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	20°	228.9	228.9
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	22.5°	200.0	197.8
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	25°	188.9	186.7
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	27.5°	171.1	173.4
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	30°	160.0	162.2
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	32.5°	146.7	148.9
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	35°	120.0	120.0
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	37.5°	111.1	111.1
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	40°	104.4	106.7
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	42.5°	100.0	100.0
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	45°	95.5	97.8
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	47.5°	93.4	93.4
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	50°	88.9	91.1
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	52.5°	86.6	88.9
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	55°	84.5	84.5
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	57.5°	80.0	82.2
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	60°	80.0	80.0
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	62.5°	77.7	77.7
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	65°	75.6	75.6
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	71.1	71.1
										70°	66.7	66.7
										72.5°	62.2	60.0
										75°	53.3	53.3
										77.5°	44.5	44.5
										80°	33.3	31.1
										82.5°	20.0	17.8
										85°	6.6	6.6
										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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CANDELA DISTRIBUTION (continued):

185°	195°	205°	215°	225°	230°	235°	240°	245°		175°	180°	185°
1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	112.5°	126.8	126.8	126.8
1382.4	1406.9	1422.5	1482.5	1509.2	1542.5	1558.1	1580.3	1602.5	115°	150.4	149.4	150.4
1129.1	1160.2	1186.8	1273.6	1324.7	1371.4	1409.1	1444.7	1495.9	117.5°	173.9	172.9	173.9
800.2	826.9	862.3	955.7	1044.6	1106.8	1162.4	1222.4	1289.1	120°	199.5	197.4	199.5
611.2	651.2	697.9	769.1	840.1	884.6	933.5	1000.1	1080.2	122.5°	225.0	224.0	225.0
511.2	560.1	615.6	695.7	771.2	806.8	842.4	875.7	917.9	125°	251.6	249.6	251.6
404.5	451.2	517.8	611.2	700.1	740.1	782.4	822.4	860.2	127.5°	275.2	273.1	275.2
302.3	335.6	395.6	506.8	604.6	655.7	704.6	760.2	811.3	130°	298.7	296.7	298.7
231.2	246.7	289.0	375.6	495.6	560.1	622.4	693.5	766.8	132.5°	321.2	320.2	321.2
200.0	206.7	226.7	277.8	386.8	462.3	542.3	631.3	722.3	135°	344.7	343.7	344.7
184.4	188.9	200.0	224.4	302.3	382.3	464.5	571.2	682.3	137.5°	368.3	367.2	368.3
175.5	180.0	188.9	202.2	251.1	311.2	402.3	520.1	653.5	140°	391.8	390.8	391.8
164.5	168.9	184.4	200.0	228.9	266.7	344.5	460.1	609.0	142.5°	415.3	413.3	415.3
151.1	153.3	157.8	175.5	195.6	226.7	293.4	406.7	562.3	145°	435.8	434.8	435.8
122.2	128.9	137.8	155.6	175.5	200.0	262.3	371.1	533.5	147.5°	454.2	454.2	454.2
113.3	120.0	128.9	144.4	162.2	184.4	248.9	357.8	506.8	150°	472.6	471.6	472.6
106.7	113.3	122.2	140.0	151.1	177.8	242.2	337.9	480.1	152.5°	491.0	490.0	491.0
102.2	108.9	120.0	133.4	148.9	173.4	224.4	320.1	464.5	155°	511.5	510.5	511.5
97.8	104.4	117.8	128.9	151.1	164.5	213.4	306.7	451.2	157.5°	526.8	524.8	526.8
95.5	102.2	115.6	131.1	146.7	155.6	202.2	295.6	440.1	160°	539.1	537.0	539.1
93.4	100.0	113.3	144.4	140.0	148.9	193.3	286.7	433.4	162.5°	548.3	547.3	548.3
91.1	97.8	113.3	146.7	135.5	140.0	186.7	277.8	428.9	165°	559.6	558.5	559.6
86.6	95.5	113.3	135.5	126.6	135.5	173.4	264.5	417.9	167.5°	568.8	567.7	568.8
84.5	91.1	111.1	124.5	120.0	128.9	160.0	242.2	402.3	170°	575.9	574.9	575.9
82.2	88.9	111.1	111.1	113.3	122.2	144.4	215.6	375.6	172.5°	579.0	578.0	579.0
80.0	88.9	113.3	100.0	106.7	115.6	133.4	193.3	342.3	175°	582.1	580.0	582.1
77.7	84.5	97.8	95.5	102.2	108.9	128.9	177.8	313.4	177.5°	586.2	585.1	586.2
73.3	80.0	86.6	88.9	97.8	104.4	126.6	175.5	286.7	180°	589.2	589.2	589.2
66.7	73.3	77.7	84.5	91.1	100.0	126.6	173.4	266.7				
62.2	66.7	71.1	75.6	82.2	93.4	124.5	175.5	257.8				
53.3	57.8	62.2	66.7	73.3	86.6	117.8	164.5	231.2				
42.2	48.9	53.3	55.5	62.2	75.6	102.2	140.0	186.7				
31.1	37.7	40.0	44.5	48.9	57.8	80.0	102.2	137.8				
17.8	24.4	26.7	28.8	37.7	42.2	53.3	66.7	93.4				
6.6	11.2	13.3	15.5	22.2	24.4	33.3	42.2	48.9				
0.0	0.0	0.0	0.0	4.4	6.6	11.2	13.3	11.2				
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	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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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°	1553.6	1553.6	1553.6	1553.6
152.4	154.5	157.5	159.6	160.6	161.6	161.6	161.6	2.5°	1629.2	1651.3	1680.3	1707.0
175.9	178.0	181.1	183.1	183.6	184.1	184.6	185.2	5°	1535.9	1578.0	1640.3	1691.4
200.5	202.5	205.6	206.6	207.7	208.7	208.7	208.7	7.5°	1346.9	1404.7	1482.5	1553.6
226.1	228.1	231.2	232.2	232.7	233.2	233.2	233.2	10°	1149.1	1229.1	1311.3	1402.5
252.7	253.7	256.8	257.8	258.3	258.8	259.3	259.8	12.5°	986.8	1078.0	1171.3	1284.6
276.2	278.2	280.3	282.3	283.4	284.4	283.9	283.4	15°	917.9	998.0	1106.8	1231.3
299.7	300.7	304.8	305.9	306.9	307.9	307.9	307.9	17.5°	889.0	991.2	1115.7	1246.9
324.3	325.3	328.4	329.4	330.9	332.5	332.5	332.5	20°	857.9	998.0	1164.6	1324.7
346.8	348.8	352.9	352.9	354.5	356.0	356.0	356.0	22.5°	840.1	1020.2	1226.9	1451.4
371.3	372.4	375.4	375.4	376.4	377.5	377.5	377.5	25°	835.8	1071.3	1333.5	1631.4
393.8	394.9	396.9	397.9	398.4	399.0	399.0	399.0	27.5°	840.1	1129.1	1466.9	1824.7
417.4	416.3	419.4	419.4	420.4	421.5	421.5	421.5	30°	820.1	1189.1	1600.3	1993.6
437.8	437.8	440.9	441.9	442.9	444.0	443.4	442.9	32.5°	786.9	1233.6	1718.0	2129.3
457.3	458.3	462.4	463.4	463.9	464.4	463.4	462.4	35°	749.0	1253.5	1802.5	2255.9
474.6	475.7	479.8	480.8	481.3	481.8	480.8	479.8	37.5°	709.0	1255.8	1882.5	2389.3
494.1	493.1	496.1	497.2	497.7	498.2	497.7	497.2	40°	686.8	1246.9	1964.8	2553.8
513.5	512.5	514.5	514.5	515.1	515.6	515.1	514.5	42.5°	677.9	1231.3	2024.8	2678.3
528.9	527.8	530.9	530.9	530.9	530.9	529.9	528.9	45°	677.9	1215.8	2080.4	2771.6
541.1	541.1	544.2	544.2	544.2	544.2	543.2	542.2	47.5°	680.2	1222.4	2147.1	2922.8
551.4	550.3	553.4	553.4	553.9	554.4	553.4	552.4	50°	691.2	1298.0	2260.4	3089.4
561.6	560.6	564.7	564.7	565.2	565.7	564.2	562.6	52.5°	709.0	1418.0	2456.0	3287.3
571.8	570.8	573.9	572.9	572.9	572.9	571.8	570.8	55°	726.8	1540.3	2711.5	3618.4
579.0	578.0	580.0	579.0	578.5	578.0	577.5	576.9	57.5°	742.4	1631.4	2960.5	3947.4
582.1	580.0	582.1	581.0	581.5	582.1	581.0	580.0	60°	757.9	1702.5	3105.0	4094.1
583.1	582.1	585.1	585.1	585.6	586.2	584.6	583.1	62.5°	749.0	1675.8	3145.0	4020.7
588.2	587.2	591.3	590.2	590.2	590.2	588.7	587.2	65°	715.7	1535.9	3018.3	3767.3
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	624.5	1291.4	2629.4	3367.2
								70°	517.8	1013.5	2144.8	2867.1
								72.5°	435.7	757.9	1649.2	2220.4
								75°	362.3	535.6	1160.2	1529.1
								77.5°	268.9	364.5	840.1	1069.1
								80°	180.0	224.4	535.6	746.8
								82.5°	108.9	131.1	308.9	522.3
								85°	60.0	82.2	188.9	342.3
								87.5°	15.5	17.8	42.2	15.5
								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°
1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	112.5°	138.6	138.1	139.1	140.1	138.1
1726.9	1744.7	1766.9	1766.9	1793.6	1802.5	1820.3	115°	161.6	161.6	162.6	163.7	162.6
1753.6	1813.7	1869.2	1900.3	1953.6	1989.2	2024.8	117.5°	184.6	184.1	185.2	186.2	184.1
1644.7	1742.5	1833.6	1918.1	2007.0	2082.6	2138.2	120°	208.7	208.7	209.7	210.7	208.7
1500.3	1604.7	1715.9	1829.2	1935.9	2042.5	2133.7	122.5°	233.7	234.3	236.3	238.3	237.3
1398.1	1509.2	1640.3	1738.1	1849.2	1955.9	2044.8	125°	259.8	259.8	261.4	262.9	261.9
1351.3	1464.7	1586.9	1686.9	1791.4	1878.1	1940.3	127.5°	283.9	284.4	285.9	287.4	284.4
1375.8	1513.6	1622.5	1707.0	1784.7	1824.7	1833.6	130°	308.4	308.9	310.5	312.0	310.0
1482.5	1626.9	1707.0	1762.5	1775.8	1773.6	1740.3	132.5°	333.0	333.5	335.0	336.6	334.5
1649.2	1818.1	1873.6	1862.6	1806.9	1735.8	1680.3	135°	356.5	357.0	358.0	359.1	358.0
1873.6	2042.5	2073.7	2011.4	1887.0	1749.1	1655.9	137.5°	378.0	378.5	380.5	382.6	380.5
2109.2	2282.6	2271.5	2178.2	2000.4	1806.9	1658.1	140°	400.0	401.0	403.0	405.1	403.0
2276.0	2420.4	2376.0	2236.0	2038.1	1844.8	1686.9	142.5°	422.0	422.5	424.0	425.5	424.5
2449.4	2558.2	2478.2	2327.1	2122.6	1924.8	1762.5	145°	443.4	444.0	445.5	447.0	445.0
2636.0	2693.8	2564.8	2411.5	2224.8	2024.8	1849.2	147.5°	462.9	463.4	464.9	466.5	463.4
2816.1	2840.5	2653.8	2489.4	2307.1	2127.0	1967.0	150°	479.8	479.8	481.8	483.9	480.8
3009.4	2976.1	2747.1	2553.8	2373.8	2236.0	2104.8	152.5°	497.2	497.2	498.7	500.2	497.2
3176.1	3102.7	2833.8	2618.2	2456.0	2340.4	2249.3	155°	515.1	515.6	517.1	518.6	516.6
3300.6	3205.0	2916.0	2680.4	2536.0	2464.9	2420.4	157.5°	529.4	529.9	532.4	535.0	531.9
3407.2	3302.8	2980.5	2771.6	2647.1	2620.5	2636.0	160°	542.2	542.2	543.7	545.2	543.2
3540.6	3407.2	3067.2	2873.9	2798.3	2825.0	2913.9	162.5°	551.4	550.3	551.4	552.4	549.3
3747.3	3574.0	3211.7	3020.6	2985.0	3080.5	3249.4	165°	561.6	560.6	561.6	562.6	560.6
4080.8	3876.3	3467.3	3276.1	3233.9	3380.5	3622.9	167.5°	571.3	571.8	573.9	575.9	573.9
4369.6	4214.0	3805.1	3574.0	3556.2	3714.0	3978.5	170°	578.0	579.0	581.5	584.1	582.1
4500.8	4485.2	4154.1	3940.7	3914.0	4060.7	4311.8	172.5°	580.5	581.0	582.6	584.1	581.0
4489.6	4618.6	4438.6	4287.4	4196.2	4318.5	4563.0	175°	582.1	581.0	582.6	584.1	581.0
4327.4	4538.5	4554.1	4518.6	4354.1	4363.0	4536.4	177.5°	587.2	587.2	588.7	590.2	587.2
4009.6	4260.7	4523.0	4511.9	4302.9	4118.5	4154.1	180°	589.2	589.2	589.2	589.2	589.2
3558.4	3774.0	4191.8	4276.3	3978.5	3633.9	3471.7						
2851.6	3102.7	3722.8	3840.7	3433.9	2949.4	2698.2						
1967.0	2298.2	3249.4	3260.6	2787.1	2320.4	2049.3						
1351.3	1635.8	2627.1	2656.0	2211.5	1760.3	1527.0						
909.1	1095.8	1927.0	1804.8	1460.3	1220.2	1160.2						
573.5	682.3	1211.3	1131.3	962.4	880.1	902.3						
266.7	373.4	662.4	646.8	606.8	531.2	462.3						
6.6	20.0	128.9	84.5	84.5	48.9	17.8						
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°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
163.7	162.6	161.6	161.6	161.6	161.6	2.5°	1804.8	1811.4	1809.2	1793.6	1753.6	1738.1
186.2	185.2	184.1	184.6	185.2	184.6	5°	2022.6	2033.7	2020.3	1982.6	1880.3	1831.4
210.7	209.7	208.7	208.7	208.7	208.7	7.5°	2175.9	2184.8	2162.6	2075.9	1893.7	1811.4
238.3	236.3	234.3	233.7	233.2	233.2	10°	2204.9	2224.8	2200.4	2075.9	1864.7	1762.5
262.9	261.4	259.8	259.8	259.8	259.3	12.5°	2122.6	2164.9	2147.1	2055.9	1851.4	1742.5
287.4	285.9	284.4	283.9	283.4	283.9	15°	1995.9	2000.4	2011.4	2009.3	1827.0	1720.3
312.0	310.5	308.9	308.4	307.9	307.9	17.5°	1855.8	1851.4	1864.7	1907.0	1820.3	1735.8
336.6	335.0	333.5	333.0	332.5	332.5	20°	1729.2	1722.5	1735.8	1778.1	1793.6	1773.6
359.1	358.0	357.0	356.5	356.0	356.0	22.5°	1649.2	1626.9	1624.8	1686.9	1806.9	1860.3
382.6	380.5	378.5	378.0	377.5	377.5	25°	1604.7	1580.3	1591.4	1662.5	1862.6	1962.5
405.1	403.0	401.0	400.0	399.0	399.0	27.5°	1591.4	1564.7	1580.3	1660.2	1920.3	2087.0
425.5	424.0	422.5	422.0	421.5	421.5	30°	1600.3	1573.6	1580.3	1675.8	1949.2	2116.0
447.0	445.5	444.0	443.4	442.9	443.4	32.5°	1651.3	1604.7	1600.3	1722.5	2002.5	2180.4
466.5	464.9	463.4	462.9	462.4	463.4	35°	1720.3	1653.6	1644.7	1798.0	2071.5	2262.7
483.9	481.8	479.8	479.8	479.8	480.8	37.5°	1835.9	1753.6	1740.3	1924.8	2164.9	2331.5
500.2	498.7	497.2	497.2	497.2	497.7	40°	1991.5	1909.2	1909.2	2087.0	2291.5	2427.1
518.6	517.1	515.6	515.1	514.5	515.1	42.5°	2167.0	2113.7	2122.6	2282.6	2436.0	2547.1
535.0	532.4	529.9	529.4	528.9	529.9	45°	2400.5	2371.5	2416.0	2529.3	2582.6	2658.2
545.2	543.7	542.2	542.2	542.2	543.2	47.5°	2673.8	2698.2	2760.4	2796.0	2731.6	2771.6
552.4	551.4	550.3	551.4	552.4	553.4	50°	3016.1	3080.5	3140.6	3131.7	2916.0	2902.7
562.6	561.6	560.6	561.6	562.6	564.2	52.5°	3409.5	3494.0	3536.1	3487.2	3122.8	3045.0
575.9	573.9	571.8	571.3	570.8	571.8	55°	3809.6	3911.8	3898.5	3842.9	3347.2	3242.8
584.1	581.5	579.0	578.0	576.9	577.5	57.5°	4171.8	4251.9	4287.4	4167.4	3620.6	3482.8
584.1	582.6	581.0	580.5	580.0	581.0	60°	4458.5	4545.3	4545.3	4427.4	3918.4	3758.4
584.1	582.6	581.0	582.1	583.1	584.6	62.5°	4667.5	4736.4	4711.9	4598.6	4174.0	4051.8
590.2	588.7	587.2	587.2	587.2	588.7	65°	4651.9	4658.6	4631.9	4589.7	4327.4	4314.1
589.2	589.2	589.2	589.2	589.2	589.2	67.5°	4214.0	4216.3	4269.6	4251.9	4211.8	4376.3
						70°	3453.9	3489.5	3580.6	3553.9	3758.4	4096.3
						72.5°	2629.4	2651.6	2760.4	2736.0	3013.8	3385.0
						75°	1913.6	1911.5	1958.1	1922.5	2273.7	2687.1
						77.5°	1473.6	1433.6	1424.7	1429.2	1611.4	1953.6
						80°	1189.1	1189.1	1175.8	1126.9	986.8	1142.4
						82.5°	949.1	911.2	844.5	749.0	633.4	675.7
						85°	473.4	460.1	402.3	333.4	277.8	369.0
						87.5°	2.3	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°
1553.6	1553.6	1553.6	1553.6	1553.6	112.5°	139.1	138.1	137.1	135.0	132.0	130.4	129.7
1731.4	1713.6	1693.6	1693.6	1675.8	115°	161.6	160.6	159.6	157.5	154.5	153.4	152.9
1802.5	1766.9	1738.1	1711.4	1684.7	117.5°	184.1	183.6	183.1	181.1	178.0	177.0	176.5
1766.9	1724.7	1689.2	1642.6	1600.3	120°	208.7	207.7	206.6	205.6	202.5	201.5	201.0
1713.6	1667.0	1615.9	1567.0	1506.9	122.5°	233.2	232.7	232.2	231.2	228.1	227.1	226.6
1684.7	1629.2	1567.0	1515.8	1447.0	125°	258.8	258.3	257.8	256.8	253.7	253.2	252.9
1662.5	1604.7	1549.2	1500.3	1440.2	127.5°	284.4	283.4	282.3	280.3	278.2	277.2	276.7
1698.1	1642.6	1602.5	1546.9	1500.3	130°	307.9	306.9	305.9	304.8	300.7	300.2	299.9
1758.0	1724.7	1693.6	1658.1	1620.3	132.5°	332.5	330.9	329.4	328.4	325.3	324.8	324.5
1871.4	1867.0	1864.7	1838.1	1811.4	135°	356.0	354.5	352.9	352.9	348.8	347.8	347.3
2013.7	2031.5	2055.9	2055.9	2055.9	137.5°	377.5	376.4	375.4	375.4	372.4	371.8	371.5
2160.4	2204.9	2251.5	2271.5	2284.9	140°	399.0	398.4	397.9	396.9	394.9	394.3	394.0
2202.6	2267.1	2340.4	2389.3	2422.7	142.5°	421.5	420.4	419.4	419.4	416.3	416.9	417.2
2271.5	2344.8	2427.1	2482.7	2542.6	145°	444.0	442.9	441.9	440.9	437.8	437.8	437.8
2353.7	2418.2	2502.6	2578.2	2664.9	147.5°	464.4	463.9	463.4	462.4	458.3	457.8	457.5
2422.7	2507.2	2598.2	2696.0	2807.2	150°	481.8	481.3	480.8	479.8	475.7	475.2	474.9
2527.1	2616.0	2716.0	2847.2	2982.7	152.5°	498.2	497.7	497.2	496.1	493.1	493.6	493.9
2642.7	2738.2	2842.7	2973.8	3131.7	155°	515.6	515.1	514.5	514.5	512.5	513.0	513.3
2742.7	2827.1	2940.5	3076.1	3256.2	157.5°	530.9	530.9	530.9	530.9	527.8	528.4	528.7
2838.3	2916.0	3049.4	3187.2	3365.0	160°	544.2	544.2	544.2	544.2	541.1	541.1	541.1
2964.9	3025.0	3158.4	3316.1	3505.0	162.5°	554.4	553.9	553.4	553.4	550.3	550.9	551.2
3096.1	3178.3	3325.0	3505.0	3716.2	165°	565.7	565.2	564.7	564.7	560.6	561.1	561.4
3273.9	3371.6	3551.7	3756.2	4023.0	167.5°	572.9	572.9	572.9	573.9	570.8	571.3	571.6
3518.4	3620.6	3811.8	4040.7	4314.1	170°	578.0	578.5	579.0	580.0	578.0	578.5	578.8
3818.5	3918.4	4082.9	4309.6	4565.2	172.5°	582.1	581.5	581.0	582.1	580.0	581.0	581.5
4098.5	4236.2	4385.2	4554.1	4756.4	175°	586.2	585.6	585.1	585.1	582.1	582.6	582.9
4403.0	4509.7	4634.2	4698.6	4812.0	177.5°	590.2	590.2	590.2	591.3	587.2	587.7	588.0
4491.9	4580.8	4689.7	4689.7	4676.3	180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2
4229.6	4365.2	4460.8	4460.8	4347.4								
3678.4	3905.1	3998.5	4056.3	3911.8								
2989.4	3271.7	3425.0	3473.9	3211.7								
2193.7	2373.8	2393.7	2400.5	2047.0								
1264.7	1406.9	1458.0	1531.4	1226.9								
733.5	786.9	873.5	904.6	746.8								
411.2	415.6	415.6	384.5	313.4								
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°	1553.6	1553.6	1553.6
152.4	151.9	151.4	150.9	2.5°	1671.4	1644.7	1649.2
175.9	175.4	174.9	174.4	5°	1647.0	1609.2	1595.8
200.5	200.3	200.0	199.7	7.5°	1562.5	1498.0	1478.1
226.1	225.9	225.6	225.3	10°	1460.3	1378.0	1362.5
252.7	252.5	252.2	251.9	12.5°	1402.5	1309.1	1289.1
276.2	276.0	275.7	275.4	15°	1384.7	1295.8	1273.6
299.7	299.5	299.2	298.9	17.5°	1438.1	1342.4	1315.8
324.3	323.5	322.7	322.0	20°	1560.3	1447.0	1415.8
346.8	346.3	345.8	345.2	22.5°	1742.5	1613.6	1575.9
371.3	370.5	369.8	369.1	25°	1989.2	1842.5	1804.8
393.8	393.3	392.8	392.3	27.5°	2242.6	2067.0	2018.1
417.4	416.9	416.3	415.8	30°	2389.3	2227.1	2178.2
437.8	437.3	436.8	436.3	32.5°	2538.2	2382.7	2324.9
457.3	456.4	455.7	455.0	35°	2696.0	2538.2	2480.5
474.6	474.1	473.6	473.1	37.5°	2880.5	2747.1	2696.0
494.1	493.3	492.6	491.8	40°	3100.6	2978.3	2905.0
513.5	513.0	512.5	512.0	42.5°	3282.8	3169.4	3100.6
528.9	528.4	527.8	527.3	45°	3416.1	3320.6	3249.4
541.1	540.6	540.1	539.6	47.5°	3538.4	3465.0	3393.9
551.4	550.6	549.8	549.1	50°	3691.7	3629.5	3580.6
561.6	561.1	560.6	560.1	52.5°	3898.5	3876.3	3834.0
571.8	571.0	570.3	569.6	55°	4203.0	4251.9	4191.8
579.0	578.2	577.5	576.7	57.5°	4491.9	4527.5	4500.8
582.1	581.2	580.5	579.8	60°	4718.6	4669.7	4636.3
583.1	582.9	582.6	582.3	62.5°	4834.2	4714.2	4658.6
588.2	587.7	587.2	586.7	65°	4840.8	4656.4	4571.9
589.2	589.2	589.2	589.2	67.5°	4689.7	4474.1	4376.3
				70°	4283.0	4034.0	3905.1
				72.5°	3598.4	3216.2	3129.4
				75°	2638.2	2169.3	2118.1
				77.5°	1598.1	1246.9	1180.2
				80°	900.2	715.7	693.5
				82.5°	511.2	402.3	424.5
				85°	208.9	104.4	115.6
				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)