

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: P228656

Luminaire Tested: **ISC-AF-1200-LED-E1-SLR-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228656
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-8030-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) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5904.2 lumens
Efficiency: N/A
Efficacy: 71.4 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

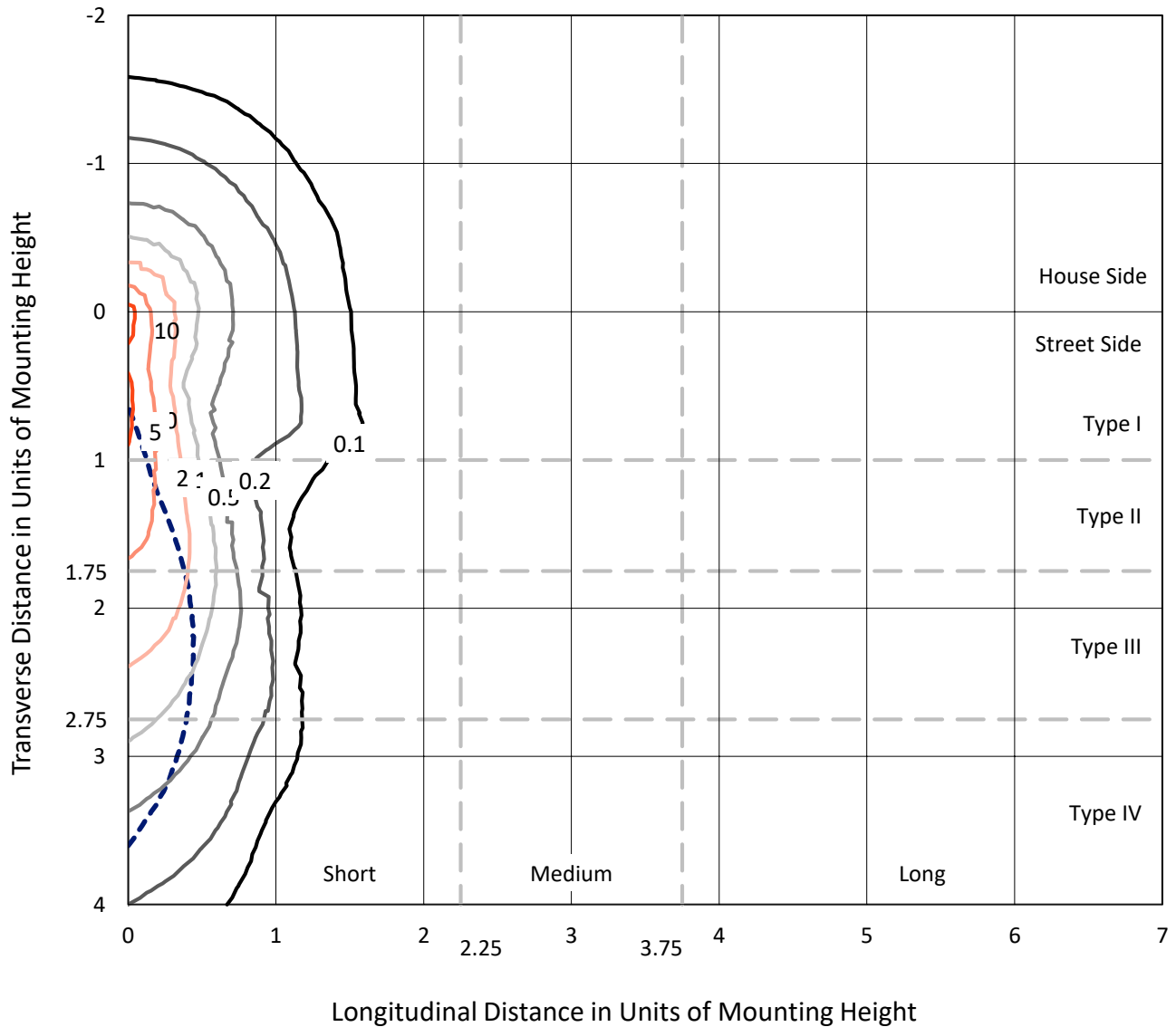
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

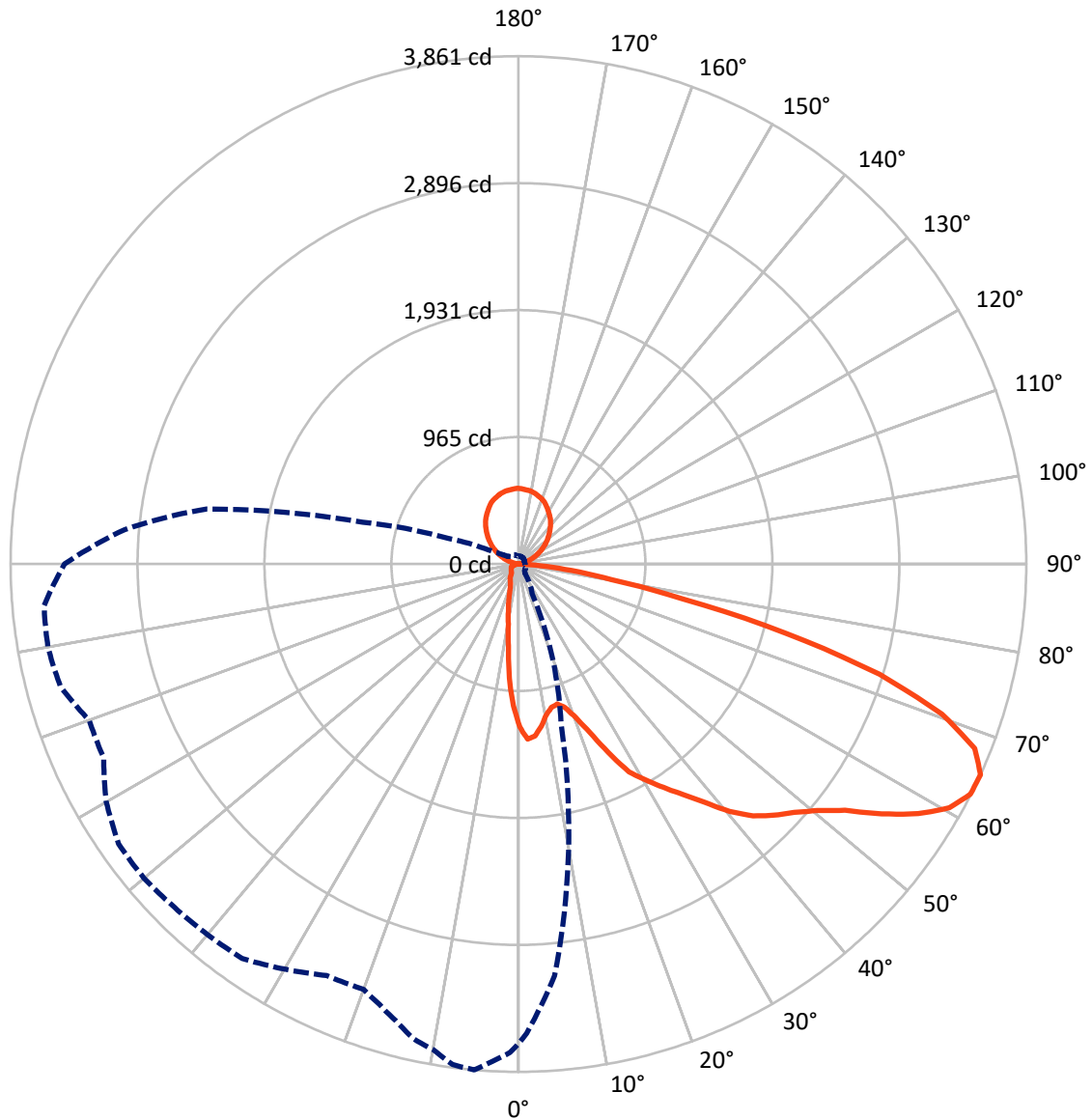


Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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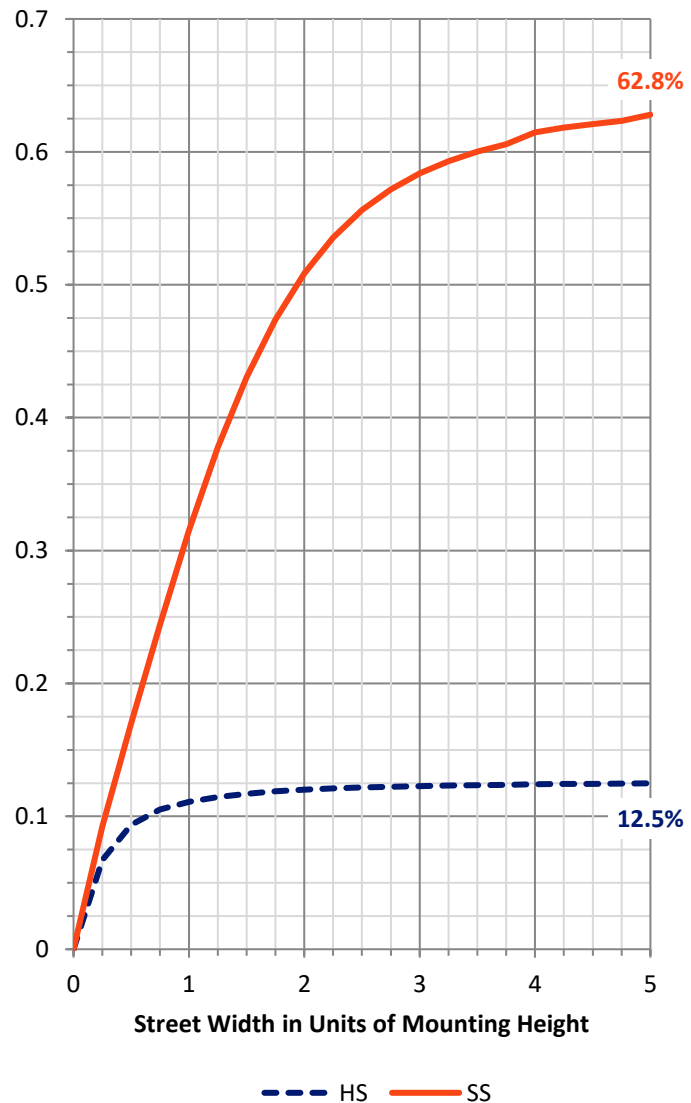
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.6	713.1	1457.7
	% Fixture	12.6	12.1	24.7
Street Side	Lumens	3733.4	713.1	4446.5
	% Fixture	63.2	12.1	75.3
Total	Lumens	4478.0	1426.2	5904.2
	% Fixture	75.8	24.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.6
10°-20°	196.1	3.3
20°-30°	285.0	4.8
30°-40°	421.6	7.1
40°-50°	614.2	10.4
50°-60°	920.8	15.6
60°-70°	1147.4	19.4
70°-80°	672.1	11.4
80°-90°	125.7	2.1
90°-100°	4.7	0.1
100°-110°	69.0	1.2
110°-120°	153.0	2.6
120°-130°	223.9	3.8
130°-140°	265.6	4.5
140°-150°	269.3	4.6
150°-160°	231.1	3.9
160°-170°	155.1	2.6
170°-180°	54.3	0.9
0°-90°	4478.0	75.8
0°-180°	5904.2	100.0



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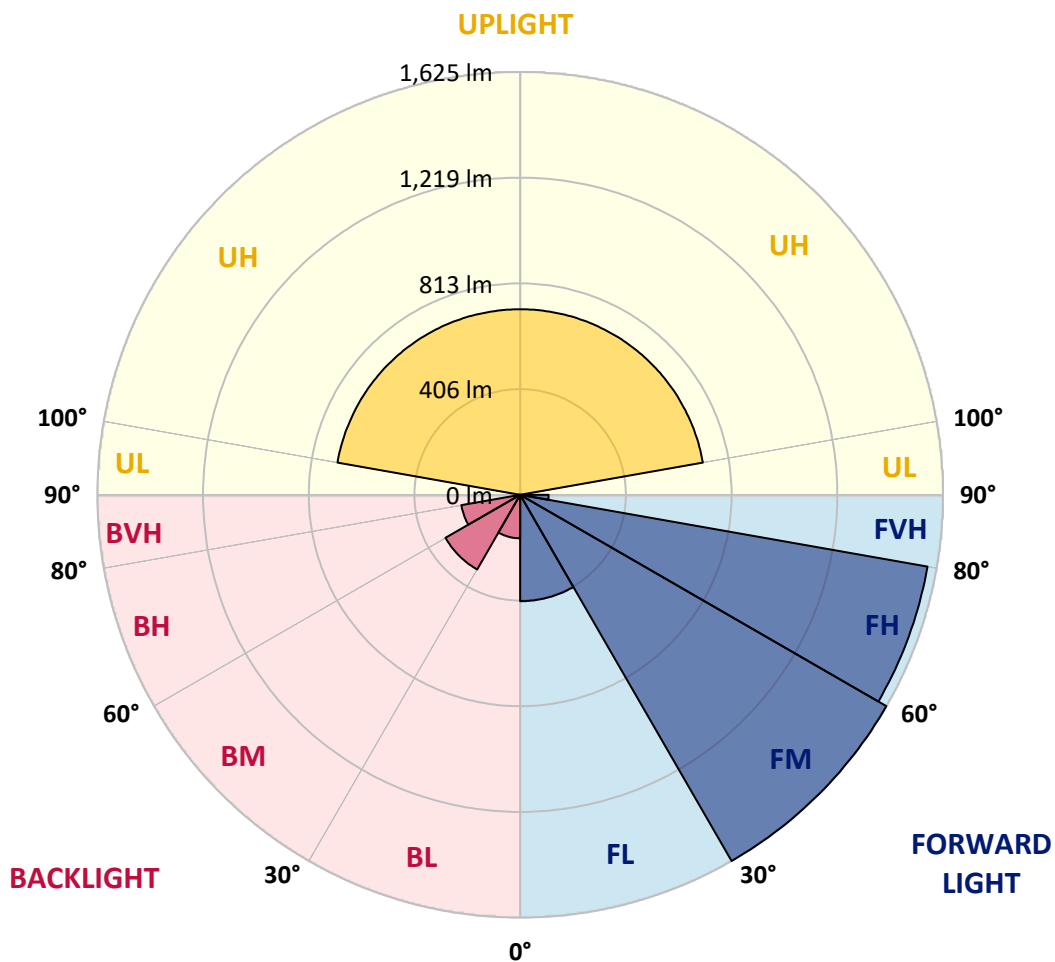
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.1	6.9			
FM	(30°-60°)	1625.2	27.5			
FH	(60°-80°)	1589.7	26.9			G1/1800
FVH	(80°-90°)	109.5	1.9			G2/225
BL	(0°-30°)	167.2	2.8	B1/500		
BM	(30°-60°)	331.4	5.6	B1/1000		
BH	(60°-80°)	229.8	3.9	B1/500		G1/500
BVH	(80°-90°)	16.2	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	12.1		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°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1315.5	1304.8	1283.6	1241.0	1196.7	1154.1	1147.1	1131.1	1132.9	1124.0	1120.5
5°	1272.9	1258.7	1214.4	1125.8	1049.5	971.5	966.2	934.3	937.9	918.3	907.7
7.5°	1179.0	1159.5	1109.8	987.5	881.1	778.3	767.7	730.4	725.1	705.6	689.6
10°	1086.8	1067.3	1005.2	865.2	742.8	666.6	654.2	636.5	622.3	613.4	597.5
12.5°	1028.3	1017.6	943.2	781.8	686.1	624.1	608.1	590.4	576.2	560.2	544.3
15°	1015.9	994.6	918.3	755.2	643.6	567.3	547.8	528.3	512.4	496.4	473.4
17.5°	1049.5	1028.3	943.2	742.8	595.7	503.5	478.7	452.1	436.1	416.6	391.8
20°	1129.3	1095.6	991.0	725.1	544.3	429.0	398.9	367.0	349.3	315.6	297.8
22.5°	1257.0	1214.4	1072.6	725.1	496.4	351.0	317.3	289.0	269.5	239.3	219.8
25°	1439.6	1402.3	1205.6	744.6	453.9	285.4	251.7	223.4	203.9	182.6	170.2
27.5°	1609.8	1551.3	1347.4	773.0	420.2	239.3	205.7	182.6	168.4	157.8	150.7
30°	1737.4	1689.5	1471.5	792.5	370.5	200.3	179.1	164.9	157.8	152.5	148.9
32.5°	1854.4	1799.5	1560.1	804.9	340.4	170.2	150.7	140.1	133.0	125.9	124.1
35°	1978.5	1925.3	1664.7	803.1	320.9	156.0	136.5	124.1	117.0	115.2	111.7
37.5°	2150.5	2077.8	1785.3	803.1	313.8	150.7	127.6	115.2	109.9	106.4	104.6
40°	2317.1	2235.6	1918.3	808.4	306.7	147.1	127.6	115.2	106.4	102.8	99.3
42.5°	2473.2	2382.7	2038.8	817.3	303.2	136.5	120.6	113.5	109.9	102.8	97.5
45°	2591.9	2521.0	2132.8	835.0	303.2	129.4	113.5	108.1	106.4	106.4	104.6
47.5°	2707.2	2627.4	2240.9	868.7	308.5	124.1	108.1	101.1	101.1	101.1	102.8
50°	2856.1	2762.1	2389.8	937.9	308.5	122.3	102.8	95.7	94.0	97.5	97.5
52.5°	3058.2	2990.8	2607.9	1037.1	304.9	120.6	101.1	90.4	88.6	90.4	94.0
55°	3343.6	3267.4	2872.1	1159.5	301.4	117.0	97.5	88.6	85.1	83.3	85.1
57.5°	3590.1	3524.5	3114.9	1257.0	292.5	108.1	94.0	86.9	81.6	79.8	78.0
60°	3698.2	3643.3	3271.0	1322.6	276.6	99.3	88.6	83.3	78.0	76.2	74.5
62.5°	3715.9	3646.8	3272.7	1336.7	258.8	90.4	83.3	78.0	74.5	72.7	70.9
65°	3646.8	3568.8	3143.3	1249.9	244.7	90.4	79.8	74.5	69.1	67.4	65.6
67.5°	3490.8	3370.2	2815.3	1060.2	232.2	92.2	78.0	69.1	65.6	63.8	62.1
70°	3114.9	2980.2	2377.4	842.1	226.9	94.0	78.0	65.6	60.3	58.5	58.5
72.5°	2496.2	2342.0	1854.4	634.7	218.1	95.7	76.2	62.1	56.7	53.2	53.2
75°	1689.5	1554.8	1257.0	429.0	180.8	83.3	69.1	56.7	49.6	46.1	44.3
77.5°	941.4	897.1	799.6	226.9	115.2	62.1	53.2	46.1	40.8	39.0	37.2
80°	553.1	530.1	471.6	125.9	70.9	35.5	31.9	30.1	26.6	26.6	26.6
82.5°	338.6	315.6	292.5	56.7	33.7	17.7	17.7	14.2	14.2	12.4	12.4
85°	92.2	85.1	118.8	12.4	3.5	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	3.0	4.0	5.2	6.5	7.8	9.0	10.0
100°	8.0	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5
102.5°	28.0	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2
105°	54.0	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2
107.5°	78.0	77.8	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5
110°	101.0	101.2	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
112.5°	124.0	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5
115°	146.0	146.2	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5
117.5°	169.0	169.2	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2
120°	193.0	193.4	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5
122.5°	219.0	219.2	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2
125°	244.0	244.4	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2
127.5°	267.0	267.4	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5
130°	290.0	290.4	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5
132.5°	313.0	313.2	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8
135°	336.0	336.2	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8
137.5°	359.0	359.2	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5
140°	382.0	382.2	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2
142.5°	404.0	404.4	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5
145°	425.0	425.2	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5
147.5°	444.0	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2
150°	461.0	461.2	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2
152.5°	479.0	479.2	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2
155°	499.0	499.2	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2
157.5°	513.0	513.4	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	525.4	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	535.2	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2
165°	546.0	546.2	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2
167.5°	555.0	555.2	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0
170°	562.0	562.2	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8
172.5°	565.0	565.2	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2
175°	567.0	567.4	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2
177.5°	572.0	572.2	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1106.3	1102.7	1102.7	1076.1	1076.1	1062.0	1058.4	1058.4	1063.7	1060.2	1038.9
5°	890.0	879.3	872.3	840.3	831.5	815.5	808.4	806.7	812.0	803.1	774.7
7.5°	670.1	661.3	650.6	625.8	615.2	613.4	592.1	586.8	583.3	576.2	558.5
10°	585.0	572.6	563.8	546.0	533.6	524.8	507.0	498.2	491.1	480.4	475.1
12.5°	526.5	514.1	501.7	478.7	462.7	452.1	441.4	423.7	416.6	404.2	397.1
15°	453.9	439.7	425.5	400.7	379.4	368.8	347.5	336.8	329.8	315.6	308.5
17.5°	365.2	345.7	329.8	306.7	296.1	278.3	265.9	248.2	234.0	228.7	223.4
20°	274.8	257.1	242.9	223.4	212.7	198.6	191.5	179.1	172.0	168.4	164.9
22.5°	202.1	187.9	179.1	168.4	163.1	157.8	154.2	150.7	147.1	145.4	145.4
25°	159.6	154.2	150.7	147.1	145.4	143.6	140.1	138.3	136.5	134.7	134.7
27.5°	145.4	141.8	140.1	138.3	136.5	133.0	133.0	129.4	127.6	127.6	125.9
30°	147.1	147.1	147.1	143.6	141.8	138.3	136.5	131.2	127.6	124.1	122.3
32.5°	120.6	120.6	118.8	115.2	113.5	111.7	111.7	108.1	106.4	106.4	109.9
35°	109.9	108.1	106.4	102.8	101.1	97.5	95.7	94.0	92.2	90.4	90.4
37.5°	104.6	102.8	101.1	97.5	95.7	94.0	92.2	88.6	86.9	86.9	85.1
40°	99.3	99.3	99.3	95.7	94.0	90.4	88.6	86.9	85.1	83.3	83.3
42.5°	95.7	95.7	95.7	94.0	92.2	90.4	86.9	85.1	83.3	81.6	79.8
45°	97.5	95.7	95.7	94.0	92.2	88.6	86.9	83.3	81.6	79.8	78.0
47.5°	104.6	102.8	99.3	95.7	92.2	88.6	85.1	81.6	79.8	78.0	76.2
50°	99.3	106.4	108.1	102.8	94.0	88.6	85.1	81.6	78.0	76.2	74.5
52.5°	97.5	99.3	106.4	106.4	97.5	90.4	85.1	81.6	78.0	74.5	72.7
55°	88.6	94.0	95.7	97.5	95.7	88.6	83.3	78.0	76.2	72.7	69.1
57.5°	78.0	81.6	83.3	86.9	88.6	86.9	79.8	74.5	72.7	69.1	65.6
60°	72.7	72.7	72.7	74.5	83.3	90.4	83.3	72.7	67.4	65.6	62.1
62.5°	67.4	67.4	65.6	67.4	69.1	78.0	76.2	69.1	65.6	63.8	60.3
65°	65.6	63.8	62.1	62.1	62.1	62.1	62.1	62.1	60.3	60.3	58.5
67.5°	60.3	58.5	58.5	56.7	56.7	56.7	56.7	56.7	55.0	55.0	53.2
70°	56.7	55.0	53.2	53.2	53.2	51.4	51.4	51.4	49.6	49.6	49.6
72.5°	51.4	49.6	49.6	49.6	47.9	47.9	47.9	46.1	46.1	44.3	44.3
75°	44.3	44.3	42.5	42.5	42.5	40.8	40.8	40.8	40.8	39.0	39.0
77.5°	37.2	35.5	37.2	35.5	35.5	35.5	35.5	35.5	33.7	33.7	31.9
80°	24.8	24.8	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	24.8
82.5°	14.2	12.4	14.2	14.2	14.2	16.0	16.0	17.7	16.0	16.0	14.2
85°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.5	3.5	3.5	3.5
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°	11.0	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.0	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.5	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.5	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.0	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0



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CATALOG NUMBER: ISC-AF-1200-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	135.0	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.0	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.5	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.0	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.5	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.5	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.0	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.0	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	323.5	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	346.5	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.0	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.5	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.0	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.0	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.5	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.5	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.5	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.5	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.5	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.5	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.5	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.5	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.5	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



REPORT NUMBER: P228656

CATALOG NUMBER: ISC-AF-1200-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1049.5	1047.8	1030.0	1033.6	1028.3	1017.6	1019.4	1021.2	1024.7	1017.6	1014.1
5°	788.9	790.7	767.7	774.7	769.4	767.7	773.0	781.8	787.2	785.4	780.1
7.5°	560.2	562.0	542.5	540.7	535.4	533.6	540.7	549.6	554.9	553.1	554.9
10°	462.7	457.4	439.7	427.3	414.9	404.2	402.4	402.4	402.4	398.9	395.4
12.5°	382.9	377.6	356.3	345.7	335.1	320.9	319.1	317.3	312.0	306.7	299.6
15°	297.8	292.5	274.8	267.7	258.8	253.5	251.7	251.7	248.2	244.7	241.1
17.5°	216.3	212.7	202.1	195.0	193.2	195.0	196.8	200.3	202.1	203.9	203.9
20°	163.1	161.3	157.8	157.8	159.6	164.9	166.7	172.0	173.7	177.3	180.8
22.5°	143.6	143.6	141.8	141.8	145.4	150.7	154.2	156.0	157.8	159.6	159.6
25°	133.0	133.0	131.2	134.7	140.1	140.1	140.1	140.1	136.5	134.7	134.7
27.5°	125.9	125.9	125.9	127.6	125.9	124.1	124.1	124.1	122.3	122.3	120.6
30°	120.6	120.6	120.6	118.8	118.8	117.0	117.0	115.2	115.2	113.5	113.5
32.5°	111.7	108.1	111.7	108.1	108.1	106.4	108.1	108.1	104.6	104.6	104.6
35°	88.6	86.9	86.9	86.9	85.1	86.9	90.4	90.4	90.4	90.4	90.4
37.5°	83.3	83.3	81.6	79.8	79.8	78.0	79.8	78.0	78.0	78.0	79.8
40°	81.6	79.8	78.0	78.0	76.2	74.5	74.5	74.5	74.5	74.5	74.5
42.5°	78.0	78.0	74.5	72.7	72.7	70.9	70.9	70.9	70.9	70.9	70.9
45°	76.2	74.5	72.7	70.9	69.1	69.1	69.1	69.1	69.1	69.1	67.4
47.5°	74.5	72.7	70.9	69.1	67.4	65.6	65.6	65.6	65.6	65.6	65.6
50°	72.7	70.9	67.4	67.4	65.6	63.8	63.8	63.8	63.8	63.8	63.8
52.5°	69.1	69.1	65.6	63.8	62.1	62.1	62.1	62.1	62.1	62.1	62.1
55°	65.6	65.6	62.1	60.3	58.5	58.5	58.5	58.5	60.3	60.3	60.3
57.5°	63.8	62.1	58.5	58.5	55.0	55.0	55.0	56.7	56.7	58.5	58.5
60°	60.3	58.5	56.7	55.0	55.0	53.2	53.2	53.2	53.2	55.0	55.0
62.5°	58.5	56.7	53.2	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
65°	55.0	55.0	51.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
67.5°	51.4	51.4	47.9	46.1	46.1	46.1	47.9	46.1	46.1	46.1	46.1
70°	47.9	46.1	44.3	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
72.5°	42.5	42.5	40.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0	40.8
75°	37.2	35.5	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
77.5°	31.9	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	30.1
80°	23.0	21.3	21.3	21.3	21.3	23.0	23.0	23.0	23.0	23.0	23.0
82.5°	14.2	12.4	12.4	12.4	14.2	16.0	16.0	16.0	16.0	17.7	17.7
85°	3.5	3.5	3.5	3.5	7.1	8.9	8.9	8.9	10.6	8.9	8.9
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°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8

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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°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	0°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	2.5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	7.5°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	10°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	12.5°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	15°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	17.5°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	20°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	22.5°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	25°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	27.5°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	30°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	32.5°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	35°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	37.5°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	40°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	42.5°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	45°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	47.5°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	50°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	52.5°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	55°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	57.5°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	60°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	62.5°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	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°
1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	112.5°	136.0
1010.5	1031.8	1031.8	1017.6	1024.7	1017.6	1015.9	1028.3	1035.4	1058.4	1072.6	115°	158.0
781.8	808.4	810.2	803.1	812.0	806.7	812.0	827.9	840.3	856.3	870.5	117.5°	181.0
558.5	583.3	588.6	583.3	599.2	597.5	601.0	618.7	629.4	638.2	640.0	120°	204.0
393.6	397.1	411.3	407.8	418.4	416.6	421.9	436.1	450.3	455.6	459.2	122.5°	228.0
296.1	292.5	297.8	290.8	296.1	296.1	297.8	306.7	324.4	331.5	349.3	125°	254.0
239.3	235.8	235.8	232.2	232.2	230.5	232.2	239.3	251.7	262.4	276.6	127.5°	277.0
203.9	203.9	203.9	202.1	200.3	200.3	202.1	205.7	212.7	219.8	226.9	130°	301.0
182.6	186.2	187.9	189.7	191.5	193.2	195.0	200.3	198.6	191.5	182.6	132.5°	325.0
159.6	159.6	161.3	161.3	159.6	159.6	159.6	159.6	159.6	164.9	170.2	135°	348.0
133.0	133.0	133.0	134.7	133.0	133.0	134.7	134.7	136.5	140.1	145.4	137.5°	369.0
120.6	120.6	120.6	120.6	120.6	120.6	120.6	122.3	124.1	129.4	133.0	140°	390.0
111.7	111.7	109.9	109.9	109.9	108.1	109.9	109.9	111.7	118.8	124.1	142.5°	412.0
102.8	101.1	101.1	101.1	99.3	99.3	99.3	102.8	104.6	108.1	113.5	145°	433.0
90.4	90.4	90.4	92.2	92.2	92.2	92.2	95.7	95.7	97.5	97.5	147.5°	452.0
81.6	81.6	83.3	85.1	85.1	86.9	86.9	88.6	90.4	88.6	86.9	150°	469.0
74.5	76.2	76.2	79.8	79.8	79.8	81.6	83.3	85.1	81.6	81.6	152.5°	486.0
70.9	70.9	70.9	72.7	72.7	72.7	74.5	76.2	78.0	78.0	78.0	155°	503.0
67.4	67.4	67.4	69.1	67.4	67.4	67.4	69.1	72.7	72.7	74.5	157.5°	517.0
65.6	65.6	65.6	63.8	63.8	63.8	63.8	65.6	67.4	70.9	72.7	160°	530.0
63.8	62.1	62.1	62.1	62.1	62.1	62.1	63.8	65.6	67.4	70.9	162.5°	540.0
60.3	60.3	60.3	60.3	60.3	60.3	60.3	62.1	63.8	65.6	67.4	165°	550.0
60.3	60.3	58.5	58.5	60.3	60.3	60.3	62.1	63.8	65.6	65.6	167.5°	558.0
58.5	56.7	56.7	58.5	58.5	58.5	58.5	60.3	62.1	63.8	63.8	170°	564.0
55.0	55.0	55.0	55.0	56.7	56.7	58.5	60.3	60.3	62.1	62.1	172.5°	567.0
51.4	53.2	53.2	53.2	55.0	55.0	56.7	58.5	60.3	62.1	60.3	175°	570.0
49.6	51.4	51.4	51.4	53.2	53.2	53.2	56.7	58.5	58.5	60.3	177.5°	574.0
47.9	47.9	47.9	49.6	49.6	51.4	51.4	55.0	55.0	56.7	58.5	180°	576.0
44.3	44.3	44.3	46.1	46.1	47.9	49.6	51.4	51.4	53.2	55.0		
40.8	40.8	40.8	42.5	42.5	44.3	46.1	49.6	47.9	49.6	49.6		
35.5	35.5	37.2	37.2	39.0	40.8	42.5	42.5	42.5	42.5	42.5		
30.1	30.1	31.9	31.9	33.7	35.5	35.5	35.5	37.2	35.5	35.5		
24.8	24.8	26.6	26.6	26.6	26.6	28.4	26.6	28.4	26.6	28.4		
17.7	17.7	19.5	17.7	19.5	17.7	17.7	16.0	19.5	17.7	17.7		
7.1	8.9	8.9	8.9	8.9	7.1	7.1	5.3	7.1	7.1	5.3		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	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		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		
114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0		

'228656
 ISC-AF-1200-LED-E1-SLR-8030-ULG

REPORT NUMBER: P228656
 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°
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	0°	1239.2	1239.2
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	1077.9	1076.1
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	872.3	868.7
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	624.1	617.0
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	460.9	466.3
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	368.8	390.0
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	296.1	308.5
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	228.7	234.0
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	182.6	182.6
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	159.6	157.8
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	150.7	148.9
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	136.5	138.3
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	127.6	129.4
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	117.0	118.8
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	95.7	95.7
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	88.6	88.6
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	83.3	85.1
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	79.8	79.8
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	76.2	78.0
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	74.5	74.5
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	70.9	72.7
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	69.1	70.9
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	67.4	67.4
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	63.8	65.6
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	63.8	63.8
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	62.1	62.1
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	60.3	60.3
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	56.7	56.7
										70°	53.2	53.2
										72.5°	49.6	47.9
										75°	42.5	42.5
										77.5°	35.5	35.5
										80°	26.6	24.8
										82.5°	16.0	14.2
										85°	5.3	5.3
										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°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0
										110°	102.0	101.0



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tinued):

CANDELA DISTRIBUTION (continued):

185°	195°	205°	215°	225°	230°	235°	240°	245°		175°	180°	185°
1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	112.5°	124.0	124.0	124.0
1102.7	1122.2	1134.6	1182.5	1203.8	1230.4	1242.8	1260.5	1278.2	115°	147.0	146.0	147.0
900.6	925.4	946.7	1015.9	1056.6	1093.9	1124.0	1152.4	1193.1	117.5°	170.0	169.0	170.0
638.2	659.5	687.9	762.3	833.3	882.9	927.2	975.1	1028.3	120°	195.0	193.0	195.0
487.5	519.5	556.7	613.4	670.1	705.6	744.6	797.8	861.6	122.5°	220.0	219.0	220.0
407.8	446.8	491.1	554.9	615.2	643.6	671.9	698.5	732.2	125°	246.0	244.0	246.0
322.7	359.9	413.1	487.5	558.5	590.4	624.1	656.0	686.1	127.5°	269.0	267.0	269.0
241.1	267.7	315.6	404.2	482.2	523.0	562.0	606.3	647.1	130°	292.0	290.0	292.0
184.4	196.8	230.5	299.6	395.4	446.8	496.4	553.1	611.6	132.5°	314.0	313.0	314.0
159.6	164.9	180.8	221.6	308.5	368.8	432.6	503.5	576.2	135°	337.0	336.0	337.0
147.1	150.7	159.6	179.1	241.1	304.9	370.5	455.6	544.3	137.5°	360.0	359.0	360.0
140.1	143.6	150.7	161.3	200.3	248.2	320.9	414.9	521.2	140°	383.0	382.0	383.0
131.2	134.7	147.1	159.6	182.6	212.7	274.8	367.0	485.8	142.5°	406.0	404.0	406.0
120.6	122.3	125.9	140.1	156.0	180.8	234.0	324.4	448.5	145°	426.0	425.0	426.0
97.5	102.8	109.9	124.1	140.1	159.6	209.2	296.1	425.5	147.5°	444.0	444.0	444.0
90.4	95.7	102.8	115.2	129.4	147.1	198.6	285.4	404.2	150°	462.0	461.0	462.0
85.1	90.4	97.5	111.7	120.6	141.8	193.2	269.5	382.9	152.5°	480.0	479.0	480.0
81.6	86.9	95.7	106.4	118.8	138.3	179.1	255.3	370.5	155°	500.0	499.0	500.0
78.0	83.3	94.0	102.8	120.6	131.2	170.2	244.7	359.9	157.5°	515.0	513.0	515.0
76.2	81.6	92.2	104.6	117.0	124.1	161.3	235.8	351.0	160°	527.0	525.0	527.0
74.5	79.8	90.4	115.2	111.7	118.8	154.2	228.7	345.7	162.5°	536.0	535.0	536.0
72.7	78.0	90.4	117.0	108.1	111.7	148.9	221.6	342.2	165°	547.0	546.0	547.0
69.1	76.2	90.4	108.1	101.1	108.1	138.3	211.0	333.3	167.5°	556.0	555.0	556.0
67.4	72.7	88.6	99.3	95.7	102.8	127.6	193.2	320.9	170°	563.0	562.0	563.0
65.6	70.9	88.6	88.6	90.4	97.5	115.2	172.0	299.6	172.5°	566.0	565.0	566.0
63.8	70.9	90.4	79.8	85.1	92.2	106.4	154.2	273.0	175°	569.0	567.0	569.0
62.1	67.4	78.0	76.2	81.6	86.9	102.8	141.8	250.0	177.5°	573.0	572.0	573.0
58.5	63.8	69.1	70.9	78.0	83.3	101.1	140.1	228.7	180°	576.0	576.0	576.0
53.2	58.5	62.1	67.4	72.7	79.8	101.1	138.3	212.7				
49.6	53.2	56.7	60.3	65.6	74.5	99.3	140.1	205.7				
42.5	46.1	49.6	53.2	58.5	69.1	94.0	131.2	184.4				
33.7	39.0	42.5	44.3	49.6	60.3	81.6	111.7	148.9				
24.8	30.1	31.9	35.5	39.0	46.1	63.8	81.6	109.9				
14.2	19.5	21.3	23.0	30.1	33.7	42.5	53.2	74.5				
5.3	8.9	10.6	12.4	17.7	19.5	26.6	33.7	39.0				
0.0	0.0	0.0	0.0	3.5	5.3	8.9	10.6	8.9				
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				
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
2.0	2.0	3.0	4.0	9.0	11.0	13.0	10.0	7.0				
8.0	10.0	14.0	22.0	30.0	31.0	32.0	31.0	30.0				
28.0	32.0	38.0	45.0	50.0	50.5	51.0	50.5	50.0				
54.0	56.0	61.0	66.0	70.0	70.5	71.0	71.0	71.0				
77.0	80.0	84.0	88.0	91.0	92.0	93.0	92.5	92.0				
102.0	103.0	106.0	110.0	112.0	113.0	114.0	114.0	114.0				



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-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

195°	205°	215°	225°	230°	235°	240°	245°		250°	255°	260°	265°
126.0	129.0	132.0	134.0	135.0	136.0	136.0	136.0	0°	1239.2	1239.2	1239.2	1239.2
149.0	151.0	154.0	156.0	157.0	158.0	158.0	158.0	2.5°	1299.5	1317.2	1340.3	1361.6
172.0	174.0	177.0	179.0	179.5	180.0	180.5	181.0	5°	1225.1	1258.7	1308.4	1349.2
196.0	198.0	201.0	202.0	203.0	204.0	204.0	204.0	7.5°	1074.4	1120.5	1182.5	1239.2
221.0	223.0	226.0	227.0	227.5	228.0	228.0	228.0	10°	916.6	980.4	1046.0	1118.7
247.0	248.0	251.0	252.0	252.5	253.0	253.5	254.0	12.5°	787.2	859.8	934.3	1024.7
270.0	272.0	274.0	276.0	277.0	278.0	277.5	277.0	15°	732.2	796.0	882.9	982.2
293.0	294.0	298.0	299.0	300.0	301.0	301.0	301.0	17.5°	709.1	790.7	890.0	994.6
317.0	318.0	321.0	322.0	323.5	325.0	325.0	325.0	20°	684.3	796.0	929.0	1056.6
339.0	341.0	345.0	345.0	346.5	348.0	348.0	348.0	22.5°	670.1	813.7	978.6	1157.7
363.0	364.0	367.0	367.0	368.0	369.0	369.0	369.0	25°	666.6	854.5	1063.7	1301.3
385.0	386.0	388.0	389.0	389.5	390.0	390.0	390.0	27.5°	670.1	900.6	1170.1	1455.5
408.0	407.0	410.0	410.0	411.0	412.0	412.0	412.0	30°	654.2	948.5	1276.5	1590.3
428.0	428.0	431.0	432.0	433.0	434.0	433.5	433.0	32.5°	627.6	983.9	1370.4	1698.4
447.0	448.0	452.0	453.0	453.5	454.0	453.0	452.0	35°	597.5	999.9	1437.8	1799.5
464.0	465.0	469.0	470.0	470.5	471.0	470.0	469.0	37.5°	565.5	1001.7	1501.6	1905.8
483.0	482.0	485.0	486.0	486.5	487.0	486.5	486.0	40°	547.8	994.6	1567.2	2037.0
502.0	501.0	503.0	503.0	503.5	504.0	503.5	503.0	42.5°	540.7	982.2	1615.1	2136.3
517.0	516.0	519.0	519.0	519.0	519.0	518.0	517.0	45°	540.7	969.8	1659.4	2210.8
529.0	529.0	532.0	532.0	532.0	532.0	531.0	530.0	47.5°	542.5	975.1	1712.6	2331.3
539.0	538.0	541.0	541.0	541.5	542.0	541.0	540.0	50°	551.4	1035.4	1803.0	2464.3
549.0	548.0	552.0	552.0	552.5	553.0	551.5	550.0	52.5°	565.5	1131.1	1959.0	2622.1
559.0	558.0	561.0	560.0	560.0	560.0	559.0	558.0	55°	579.7	1228.6	2162.9	2886.2
566.0	565.0	567.0	566.0	565.5	565.0	564.5	564.0	57.5°	592.1	1301.3	2361.5	3148.6
569.0	567.0	569.0	568.0	568.5	569.0	568.0	567.0	60°	604.6	1358.0	2476.7	3265.6
570.0	569.0	572.0	572.0	572.5	573.0	571.5	570.0	62.5°	597.5	1336.7	2508.6	3207.1
575.0	574.0	578.0	577.0	577.0	577.0	575.5	574.0	65°	570.9	1225.1	2407.6	3005.0
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	498.2	1030.0	2097.3	2685.9
								70°	413.1	808.4	1710.8	2287.0
								72.5°	347.5	604.6	1315.5	1771.1
								75°	289.0	427.3	925.4	1219.7
								77.5°	214.5	290.8	670.1	852.8
								80°	143.6	179.1	427.3	595.7
								82.5°	86.9	104.6	246.4	416.6
								85°	47.9	65.6	150.7	273.0
								87.5°	12.4	14.2	33.7	12.4
								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°	6.0	5.0	4.5	4.0
								100°	28.5	27.0	26.5	26.0
								102.5°	49.0	48.0	48.5	49.0
								105°	70.0	69.0	70.0	71.0
								107.5°	91.5	91.0	91.5	92.0
								110°	113.5	113.0	113.5	114.0



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-ULG

CANDELA DISTRIBUTION (continued):

270°	275°	280°	285°	290°	295°	300°		250°	255°	260°	265°	270°
1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	112.5°	135.5	135.0	136.0	137.0	135.0
1377.5	1391.7	1409.4	1409.4	1430.7	1437.8	1452.0	115°	158.0	158.0	159.0	160.0	159.0
1398.8	1446.7	1491.0	1515.8	1558.4	1586.7	1615.1	117.5°	180.5	180.0	181.0	182.0	180.0
1311.9	1389.9	1462.6	1530.0	1600.9	1661.2	1705.5	120°	204.0	204.0	205.0	206.0	204.0
1196.7	1280.0	1368.7	1459.1	1544.2	1629.3	1702.0	122.5°	228.5	229.0	231.0	233.0	232.0
1115.1	1203.8	1308.4	1386.4	1475.0	1560.1	1631.0	125°	254.0	254.0	255.5	257.0	256.0
1077.9	1168.3	1265.8	1345.6	1428.9	1498.1	1547.7	127.5°	277.5	278.0	279.5	281.0	278.0
1097.4	1207.3	1294.2	1361.6	1423.6	1455.5	1462.6	130°	301.5	302.0	303.5	305.0	303.0
1182.5	1297.7	1361.6	1405.9	1416.5	1414.8	1388.2	132.5°	325.5	326.0	327.5	329.0	327.0
1315.5	1450.2	1494.5	1485.7	1441.3	1384.6	1340.3	135°	348.5	349.0	350.0	351.0	350.0
1494.5	1629.3	1654.1	1604.5	1505.2	1395.3	1320.8	137.5°	369.5	370.0	372.0	374.0	372.0
1682.5	1820.7	1811.9	1737.4	1595.6	1441.3	1322.6	140°	391.0	392.0	394.0	396.0	394.0
1815.4	1930.7	1895.2	1783.5	1625.7	1471.5	1345.6	142.5°	412.5	413.0	414.5	416.0	415.0
1953.7	2040.6	1976.8	1856.2	1693.1	1535.3	1405.9	145°	433.5	434.0	435.5	437.0	435.0
2102.6	2148.7	2045.9	1923.6	1774.6	1615.1	1475.0	147.5°	452.5	453.0	454.5	456.0	453.0
2246.2	2265.7	2116.8	1985.6	1840.2	1696.6	1569.0	150°	469.0	469.0	471.0	473.0	470.0
2400.5	2373.9	2191.3	2037.0	1893.4	1783.5	1678.9	152.5°	486.0	486.0	487.5	489.0	486.0
2533.4	2474.9	2260.4	2088.4	1959.0	1866.8	1794.1	155°	503.5	504.0	505.5	507.0	505.0
2632.7	2556.5	2326.0	2138.1	2022.9	1966.1	1930.7	157.5°	517.5	518.0	520.5	523.0	520.0
2717.8	2634.5	2377.4	2210.8	2111.5	2090.2	2102.6	160°	530.0	530.0	531.5	533.0	531.0
2824.2	2717.8	2446.6	2292.3	2232.0	2253.3	2324.2	162.5°	539.0	538.0	539.0	540.0	537.0
2989.1	2850.8	2561.8	2409.3	2381.0	2457.2	2591.9	165°	549.0	548.0	549.0	550.0	548.0
3255.0	3091.9	2765.7	2613.2	2579.5	2696.5	2889.8	167.5°	558.5	559.0	561.0	563.0	561.0
3485.5	3361.4	3035.2	2850.8	2836.6	2962.5	3173.4	170°	565.0	566.0	568.5	571.0	569.0
3590.1	3577.7	3313.5	3143.3	3122.0	3239.0	3439.4	172.5°	567.5	568.0	569.5	571.0	568.0
3581.2	3684.0	3540.4	3419.9	3347.2	3444.7	3639.7	175°	569.0	568.0	569.5	571.0	568.0
3451.8	3620.2	3632.6	3604.3	3473.1	3480.2	3618.4	177.5°	574.0	574.0	575.5	577.0	574.0
3198.3	3398.6	3607.8	3598.9	3432.3	3285.1	3313.5	180°	576.0	576.0	576.0	576.0	576.0
2838.4	3010.3	3343.6	3411.0	3173.4	2898.7	2769.2						
2274.6	2474.9	2969.6	3063.5	2739.1	2352.6	2152.3						
1569.0	1833.2	2591.9	2600.8	2223.2	1850.9	1634.6						
1077.9	1304.8	2095.5	2118.6	1764.0	1404.1	1218.0						
725.1	874.0	1537.1	1439.6	1164.8	973.3	925.4						
457.4	544.3	966.2	902.4	767.7	702.1	719.8						
212.7	297.8	528.3	515.9	484.0	423.7	368.8						
5.3	16.0	102.8	67.4	67.4	39.0	14.2						
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						
4.0	4.0	4.5	5.0	6.0	7.0	10.0						
25.0	26.0	26.5	27.0	28.5	30.0	31.0						
48.0	49.0	48.5	48.0	49.0	50.0	50.5						
69.0	71.0	70.0	69.0	70.0	71.0	71.0						
91.0	92.0	91.5	91.0	91.5	92.0	92.5						
113.0	114.0	113.5	113.0	113.5	114.0	114.0						



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CANDELA DISTRIBUTION (continued):

275°	280°	285°	290°	295°	300°		305°	310°	315°	325°	335°	340°
137.0	136.0	135.0	135.5	136.0	136.0	0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
160.0	159.0	158.0	158.0	158.0	158.0	2.5°	1439.6	1444.9	1443.1	1430.7	1398.8	1386.4
182.0	181.0	180.0	180.5	181.0	180.5	5°	1613.3	1622.2	1611.5	1581.4	1499.9	1460.8
206.0	205.0	204.0	204.0	204.0	204.0	7.5°	1735.6	1742.7	1725.0	1655.9	1510.5	1444.9
233.0	231.0	229.0	228.5	228.0	228.0	10°	1758.7	1774.6	1755.1	1655.9	1487.4	1405.9
257.0	255.5	254.0	254.0	254.0	253.5	12.5°	1693.1	1726.8	1712.6	1639.9	1476.8	1389.9
281.0	279.5	278.0	277.5	277.0	277.5	15°	1592.0	1595.6	1604.5	1602.7	1457.3	1372.2
305.0	303.5	302.0	301.5	301.0	301.0	17.5°	1480.4	1476.8	1487.4	1521.1	1452.0	1384.6
329.0	327.5	326.0	325.5	325.0	325.0	20°	1379.3	1374.0	1384.6	1418.3	1430.7	1414.8
351.0	350.0	349.0	348.5	348.0	348.0	22.5°	1315.5	1297.7	1296.0	1345.6	1441.3	1483.9
374.0	372.0	370.0	369.5	369.0	369.0	25°	1280.0	1260.5	1269.4	1326.1	1485.7	1565.4
396.0	394.0	392.0	391.0	390.0	390.0	27.5°	1269.4	1248.1	1260.5	1324.3	1531.8	1664.7
416.0	414.5	413.0	412.5	412.0	412.0	30°	1276.5	1255.2	1260.5	1336.7	1554.8	1687.8
437.0	435.5	434.0	433.5	433.0	433.5	32.5°	1317.2	1280.0	1276.5	1374.0	1597.4	1739.2
456.0	454.5	453.0	452.5	452.0	453.0	35°	1372.2	1319.0	1311.9	1434.3	1652.3	1804.8
473.0	471.0	469.0	469.0	469.0	470.0	37.5°	1464.4	1398.8	1388.2	1535.3	1726.8	1859.7
489.0	487.5	486.0	486.0	486.0	486.5	40°	1588.5	1522.9	1522.9	1664.7	1827.8	1936.0
507.0	505.5	504.0	503.5	503.0	503.5	42.5°	1728.6	1686.0	1693.1	1820.7	1943.1	2031.7
523.0	520.5	518.0	517.5	517.0	518.0	45°	1914.7	1891.7	1927.1	2017.5	2060.1	2120.4
533.0	531.5	530.0	530.0	530.0	531.0	47.5°	2132.8	2152.3	2201.9	2230.3	2178.9	2210.8
540.0	539.0	538.0	539.0	540.0	541.0	50°	2405.8	2457.2	2505.1	2498.0	2326.0	2315.4
550.0	549.0	548.0	549.0	550.0	551.5	52.5°	2719.6	2787.0	2820.6	2781.6	2490.9	2428.8
563.0	561.0	559.0	558.5	558.0	559.0	55°	3038.7	3120.3	3109.6	3065.3	2669.9	2586.6
571.0	568.5	566.0	565.0	564.0	564.5	57.5°	3327.7	3391.5	3419.9	3324.1	2888.0	2778.1
571.0	569.5	568.0	567.5	567.0	568.0	60°	3556.4	3625.5	3625.5	3531.6	3125.6	2997.9
571.0	569.5	568.0	569.0	570.0	571.5	62.5°	3723.0	3778.0	3758.5	3668.1	3329.5	3232.0
577.0	575.5	574.0	574.0	574.0	575.5	65°	3710.6	3715.9	3694.7	3661.0	3451.8	3441.2
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	3361.4	3363.1	3405.7	3391.5	3359.6	3490.8
						70°	2755.0	2783.4	2856.1	2834.8	2997.9	3267.4
						72.5°	2097.3	2115.0	2201.9	2182.4	2404.0	2700.1
						75°	1526.4	1524.7	1561.9	1533.5	1813.7	2143.4
						77.5°	1175.4	1143.5	1136.4	1140.0	1285.3	1558.4
						80°	948.5	948.5	937.9	898.8	787.2	911.3
						82.5°	757.0	726.9	673.7	597.5	505.3	539.0
						85°	377.6	367.0	320.9	265.9	221.6	294.3
						87.5°	1.8	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°	13.0	11.0	9.0	4.0	3.0	2.5
						100°	32.0	31.0	30.0	22.0	14.0	12.0
						102.5°	51.0	50.5	50.0	45.0	38.0	35.0
						105°	71.0	70.5	70.0	66.0	61.0	58.5
						107.5°	93.0	92.0	91.0	88.0	84.0	82.0
						110°	114.0	113.0	112.0	110.0	106.0	104.5



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CANDELA DISTRIBUTION (continued):

342.5°	345°	347.5°	350°	352.5°		305°	310°	315°	325°	335°	340°	342.5°
1239.2	1239.2	1239.2	1239.2	1239.2	112.5°	136.0	135.0	134.0	132.0	129.0	127.5	126.8
1381.1	1366.9	1350.9	1350.9	1336.7	115°	158.0	157.0	156.0	154.0	151.0	150.0	149.5
1437.8	1409.4	1386.4	1365.1	1343.8	117.5°	180.0	179.5	179.0	177.0	174.0	173.0	172.5
1409.4	1375.8	1347.4	1310.2	1276.5	120°	204.0	203.0	202.0	201.0	198.0	197.0	196.5
1366.9	1329.7	1288.9	1249.9	1202.0	122.5°	228.0	227.5	227.0	226.0	223.0	222.0	221.5
1343.8	1299.5	1249.9	1209.1	1154.1	125°	253.0	252.5	252.0	251.0	248.0	247.5	247.2
1326.1	1280.0	1235.7	1196.7	1148.8	127.5°	278.0	277.0	276.0	274.0	272.0	271.0	270.5
1354.5	1310.2	1278.2	1233.9	1196.7	130°	301.0	300.0	299.0	298.0	294.0	293.5	293.2
1402.3	1375.8	1350.9	1322.6	1292.4	132.5°	325.0	323.5	322.0	321.0	318.0	317.5	317.2
1492.8	1489.2	1487.4	1466.2	1444.9	135°	348.0	346.5	345.0	345.0	341.0	340.0	339.5
1606.2	1620.4	1639.9	1639.9	1639.9	137.5°	369.0	368.0	367.0	367.0	364.0	363.5	363.2
1723.2	1758.7	1795.9	1811.9	1822.5	140°	390.0	389.5	389.0	388.0	386.0	385.5	385.2
1756.9	1808.3	1866.8	1905.8	1932.4	142.5°	412.0	411.0	410.0	410.0	407.0	407.5	407.8
1811.9	1870.4	1936.0	1980.3	2028.2	145°	434.0	433.0	432.0	431.0	428.0	428.0	428.0
1877.5	1928.9	1996.3	2056.5	2125.7	147.5°	454.0	453.5	453.0	452.0	448.0	447.5	447.2
1932.4	1999.8	2072.5	2150.5	2239.1	150°	471.0	470.5	470.0	469.0	465.0	464.5	464.2
2015.8	2086.7	2166.5	2271.1	2379.2	152.5°	487.0	486.5	486.0	485.0	482.0	482.5	482.8
2107.9	2184.2	2267.5	2372.1	2498.0	155°	504.0	503.5	503.0	503.0	501.0	501.5	501.8
2187.7	2255.1	2345.5	2453.7	2597.3	157.5°	519.0	519.0	519.0	519.0	516.0	516.5	516.8
2264.0	2326.0	2432.4	2542.3	2684.1	160°	532.0	532.0	532.0	532.0	529.0	529.0	529.0
2365.0	2412.9	2519.3	2645.1	2795.8	162.5°	542.0	541.5	541.0	541.0	538.0	538.5	538.8
2469.6	2535.2	2652.2	2795.8	2964.2	165°	553.0	552.5	552.0	552.0	548.0	548.5	548.8
2611.4	2689.5	2833.1	2996.2	3208.9	167.5°	560.0	560.0	560.0	561.0	558.0	558.5	558.8
2806.5	2888.0	3040.5	3223.1	3441.2	170°	565.0	565.5	566.0	567.0	565.0	565.5	565.8
3045.8	3125.6	3256.8	3437.6	3641.5	172.5°	569.0	568.5	568.0	569.0	567.0	568.0	568.5
3269.2	3379.1	3497.9	3632.6	3794.0	175°	573.0	572.5	572.0	572.0	569.0	569.5	569.8
3512.1	3597.2	3696.4	3747.9	3838.3	177.5°	577.0	577.0	577.0	578.0	574.0	574.5	574.8
3583.0	3653.9	3740.8	3740.8	3730.1	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
3373.8	3481.9	3558.2	3558.2	3467.7								
2934.1	3114.9	3189.4	3235.5	3120.3								
2384.5	2609.7	2732.0	2771.0	2561.8								
1749.8	1893.4	1909.4	1914.7	1632.8								
1008.8	1122.2	1163.0	1221.5	978.6								
585.0	627.6	696.7	721.6	595.7								
328.0	331.5	331.5	306.7	250.0								
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								
2.2	2.0	2.0	2.0	2.0								
11.0	10.0	9.5	9.0	8.5								
33.5	32.0	31.0	30.0	29.0								
57.2	56.0	55.5	55.0	54.5								
81.0	80.0	79.2	78.5	77.8								
103.8	103.0	102.8	102.5	102.2								

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CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°		355°	359°	360°
126.0	125.5	125.0	124.5	0°	1239.2	1239.2	1239.2
149.0	148.5	148.0	147.5	2.5°	1333.2	1311.9	1315.5
172.0	171.5	171.0	170.5	5°	1313.7	1283.6	1272.9
196.0	195.8	195.5	195.2	7.5°	1246.3	1194.9	1179.0
221.0	220.8	220.5	220.2	10°	1164.8	1099.2	1086.8
247.0	246.8	246.5	246.2	12.5°	1118.7	1044.2	1028.3
270.0	269.8	269.5	269.2	15°	1104.5	1033.6	1015.9
293.0	292.8	292.5	292.2	17.5°	1147.1	1070.8	1049.5
317.0	316.2	315.5	314.8	20°	1244.6	1154.1	1129.3
339.0	338.5	338.0	337.5	22.5°	1389.9	1287.1	1257.0
363.0	362.2	361.5	360.8	25°	1586.7	1469.7	1439.6
385.0	384.5	384.0	383.5	27.5°	1788.8	1648.8	1609.8
408.0	407.5	407.0	406.5	30°	1905.8	1776.4	1737.4
428.0	427.5	427.0	426.5	32.5°	2024.6	1900.5	1854.4
447.0	446.2	445.5	444.8	35°	2150.5	2024.6	1978.5
464.0	463.5	463.0	462.5	37.5°	2297.6	2191.3	2150.5
483.0	482.2	481.5	480.8	40°	2473.2	2375.7	2317.1
502.0	501.5	501.0	500.5	42.5°	2618.5	2528.1	2473.2
517.0	516.5	516.0	515.5	45°	2724.9	2648.7	2591.9
529.0	528.5	528.0	527.5	47.5°	2822.4	2763.9	2707.2
539.0	538.2	537.5	536.8	50°	2944.7	2895.1	2856.1
549.0	548.5	548.0	547.5	52.5°	3109.6	3091.9	3058.2
559.0	558.2	557.5	556.8	55°	3352.5	3391.5	3343.6
566.0	565.2	564.5	563.8	57.5°	3583.0	3611.3	3590.1
569.0	568.2	567.5	566.8	60°	3763.8	3724.8	3698.2
570.0	569.8	569.5	569.2	62.5°	3856.0	3760.3	3715.9
575.0	574.5	574.0	573.5	65°	3861.3	3714.2	3646.8
576.0	576.0	576.0	576.0	67.5°	3740.8	3568.8	3490.8
				70°	3416.3	3217.8	3114.9
				72.5°	2870.3	2565.3	2496.2
				75°	2104.4	1730.3	1689.5
				77.5°	1274.7	994.6	941.4
				80°	718.0	570.9	553.1
				82.5°	407.8	320.9	338.6
				85°	166.7	83.3	92.2
				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°	8.0	8.0	8.0
				102.5°	28.0	28.0	28.0
				105°	54.0	54.0	54.0
				107.5°	77.0	77.8	78.0
				110°	102.0	101.2	101.0

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CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	124.0	124.0	124.0
115°	147.0	146.2	146.0
117.5°	170.0	169.2	169.0
120°	195.0	193.4	193.0
122.5°	220.0	219.2	219.0
125°	246.0	244.4	244.0
127.5°	269.0	267.4	267.0
130°	292.0	290.4	290.0
132.5°	314.0	313.2	313.0
135°	337.0	336.2	336.0
137.5°	360.0	359.2	359.0
140°	383.0	382.2	382.0
142.5°	406.0	404.4	404.0
145°	426.0	425.2	425.0
147.5°	444.0	444.0	444.0
150°	462.0	461.2	461.0
152.5°	480.0	479.2	479.0
155°	500.0	499.2	499.0
157.5°	515.0	513.4	513.0
160°	527.0	525.4	525.0
162.5°	536.0	535.2	535.0
165°	547.0	546.2	546.0
167.5°	556.0	555.2	555.0
170°	563.0	562.2	562.0
172.5°	566.0	565.2	565.0
175°	569.0	567.4	567.0
177.5°	573.0	572.2	572.0
180°	576.0	576.0	576.0

(END OF REPORT)