

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: P228659

Luminaire Tested: **ISC-AF-1200-LED-E1-SLR-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228659
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-7030-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, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6284.2 lumens
Efficiency: N/A
Efficacy: 76.0 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

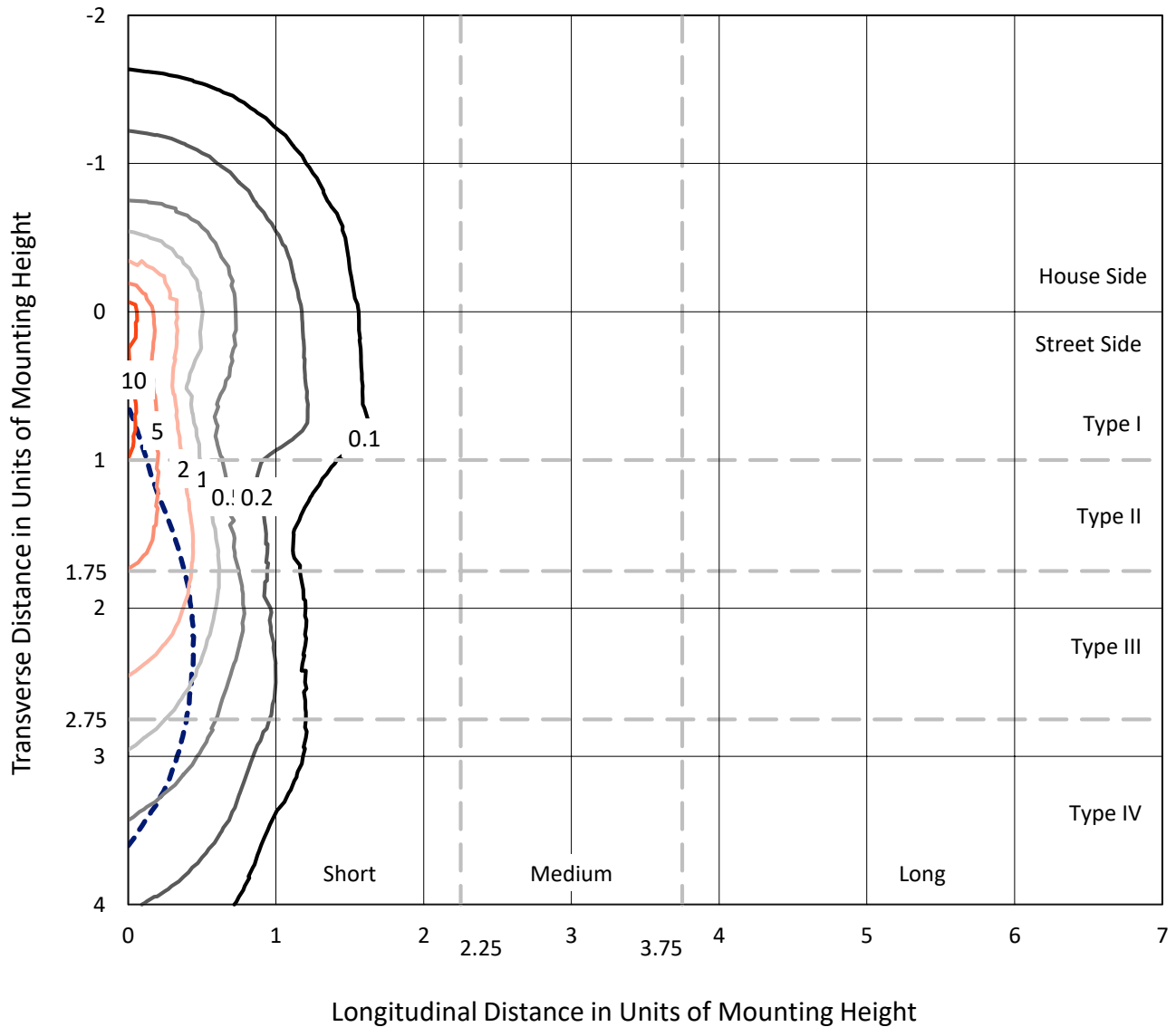


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Iso-Footcandle Lines of Horizontal Illumination

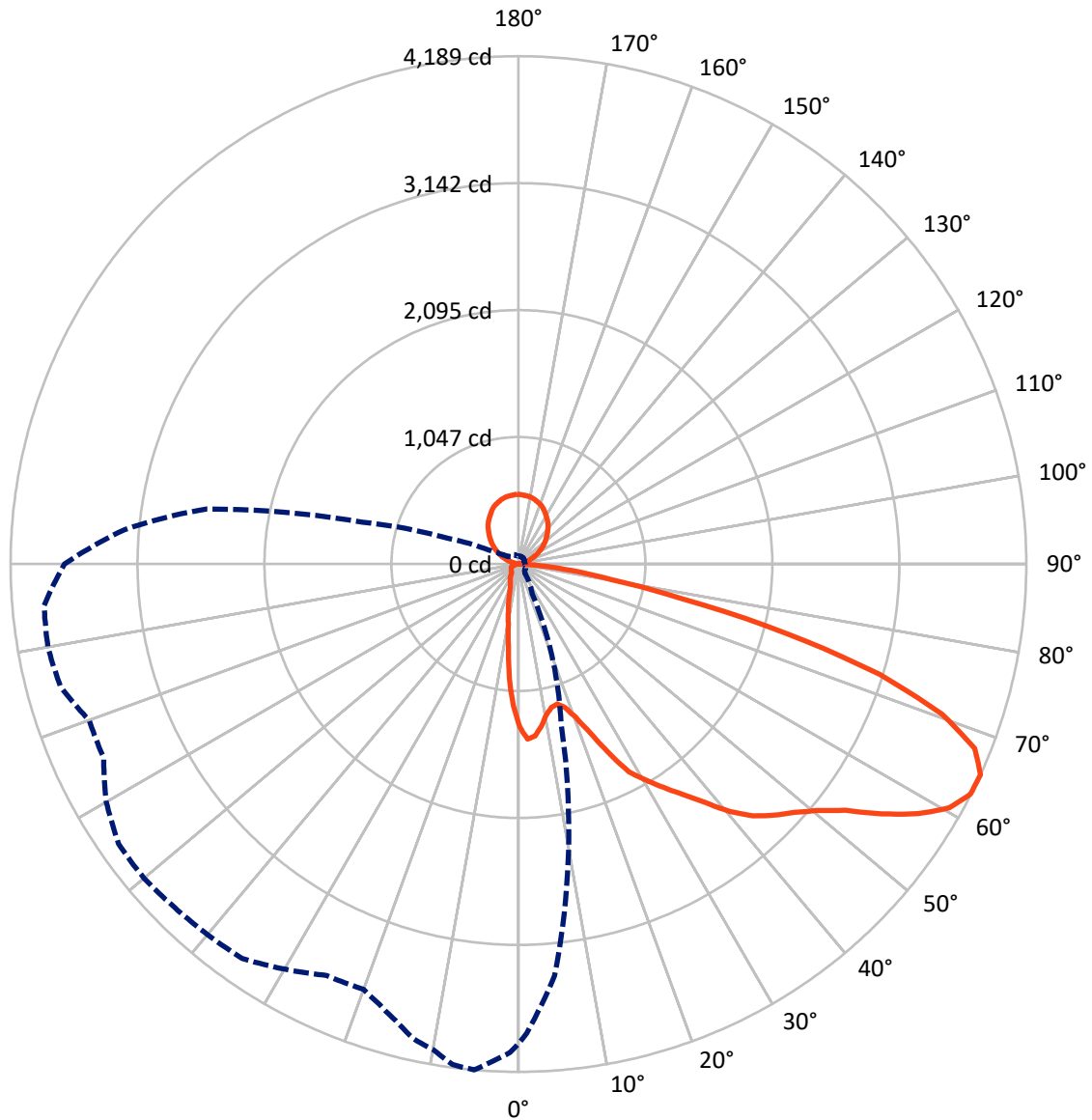
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 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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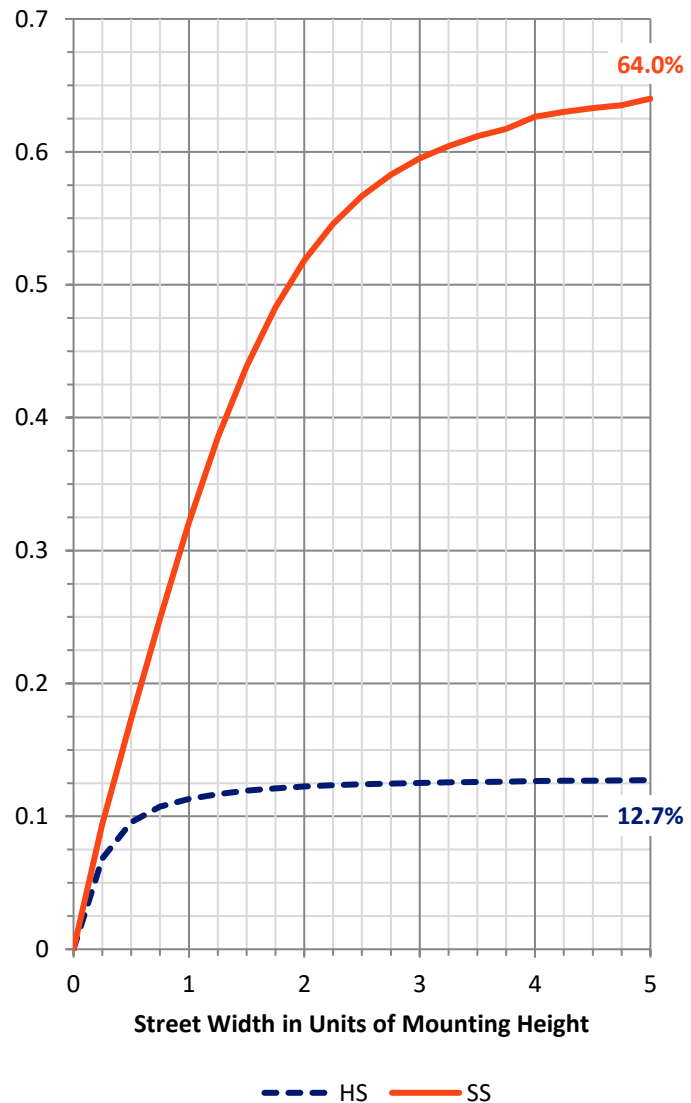
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.8	713.1	1520.9
	% Fixture	12.9	11.3	24.2
Street Side	Lumens	4050.2	713.1	4763.3
	% Fixture	64.5	11.3	75.8
Total	Lumens	4858.0	1426.2	6284.2
	% Fixture	77.3	22.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	1.6
10°-20°	212.7	3.4
20°-30°	309.2	4.9
30°-40°	457.3	7.3
40°-50°	666.4	10.6
50°-60°	998.9	15.9
60°-70°	1244.8	19.8
70°-80°	729.2	11.6
80°-90°	136.3	2.2
90°-100°	4.7	0.1
100°-110°	69.0	1.1
110°-120°	153.0	2.4
120°-130°	223.9	3.6
130°-140°	265.6	4.2
140°-150°	269.3	4.3
150°-160°	231.1	3.7
160°-170°	155.1	2.5
170°-180°	54.3	0.9
0°-90°	4858.0	77.3
0°-180°	6284.2	100.0



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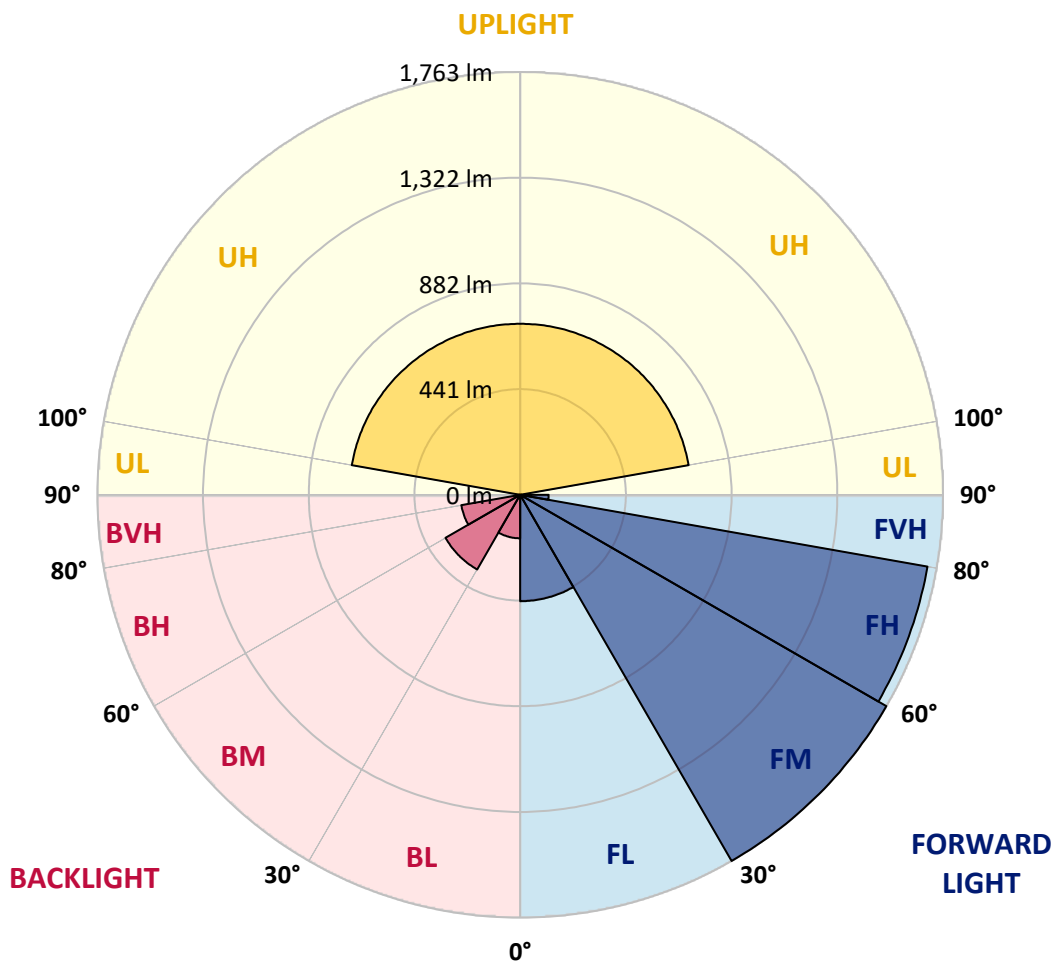
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.8	7.1			
FM (30°-60°)	1763.1	28.1			
FH (60°-80°)	1724.6	27.4			G1/1800
FVH (80°-90°)	118.8	1.9			G2/225
BL (0°-30°)	181.4	2.9	B1/500		
BM (30°-60°)	359.5	5.7	B1/1000		
BH (60°-80°)	249.3	4.0	B1/500		G1/500
BVH (80°-90°)	17.6	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	11.3		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°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1427.1	1415.6	1392.5	1346.3	1298.2	1252.1	1244.4	1227.1	1229.0	1219.4	1215.5
5°	1380.9	1365.6	1317.5	1221.3	1138.6	1054.0	1048.2	1013.6	1017.4	996.3	984.7
7.5°	1279.0	1257.9	1204.0	1071.3	955.9	844.3	832.8	792.4	786.6	765.5	748.2
10°	1179.0	1157.8	1090.5	938.6	805.9	723.2	709.7	690.5	675.1	665.5	648.2
12.5°	1115.5	1104.0	1023.2	848.2	744.3	677.0	659.7	640.5	625.1	607.8	590.5
15°	1102.1	1079.0	996.3	819.3	698.2	615.5	594.3	573.1	555.8	538.5	513.5
17.5°	1138.6	1115.5	1023.2	805.9	646.2	546.2	519.3	490.4	473.1	452.0	425.1
20°	1225.2	1188.6	1075.1	786.6	590.5	465.4	432.7	398.1	378.9	342.4	323.1
22.5°	1363.6	1317.5	1163.6	786.6	538.5	380.8	344.3	313.5	292.3	259.6	238.5
25°	1561.7	1521.3	1307.9	807.8	492.4	309.7	273.1	242.3	221.2	198.1	184.6
27.5°	1746.4	1682.9	1461.7	838.6	455.8	259.6	223.1	198.1	182.7	171.2	163.5
30°	1884.9	1832.9	1596.4	859.7	402.0	217.3	194.3	178.9	171.2	165.4	161.6
32.5°	2011.8	1952.2	1692.5	873.2	369.3	184.6	163.5	151.9	144.2	136.6	134.6
35°	2146.4	2088.7	1806.0	871.3	348.1	169.3	148.1	134.6	126.9	125.0	121.2
37.5°	2333.0	2254.1	1936.8	871.3	340.4	163.5	138.5	125.0	119.2	115.4	113.5
40°	2513.8	2425.3	2081.0	877.0	332.7	159.6	138.5	125.0	115.4	111.6	107.7
42.5°	2683.0	2584.9	2211.8	886.7	328.9	148.1	130.8	123.1	119.2	111.6	105.8
45°	2811.9	2735.0	2313.8	905.9	328.9	140.4	123.1	117.3	115.4	115.4	113.5
47.5°	2936.9	2850.4	2431.1	942.4	334.7	134.6	117.3	109.6	109.6	109.6	111.6
50°	3098.5	2996.5	2592.6	1017.4	334.7	132.7	111.6	103.9	101.9	105.8	105.8
52.5°	3317.7	3244.6	2829.2	1125.1	330.8	130.8	109.6	98.1	96.2	98.1	101.9
55°	3627.4	3544.7	3115.8	1257.9	327.0	126.9	105.8	96.2	92.3	90.4	92.3
57.5°	3894.7	3823.6	3379.3	1363.6	317.3	117.3	101.9	94.2	88.5	86.5	84.6
60°	4012.0	3952.4	3548.5	1434.8	300.0	107.7	96.2	90.4	84.6	82.7	80.8
62.5°	4031.3	3956.3	3550.4	1450.2	280.8	98.1	90.4	84.6	80.8	78.9	76.9
65°	3956.3	3871.6	3410.0	1355.9	265.4	98.1	86.5	80.8	75.0	73.1	71.2
67.5°	3787.0	3656.2	3054.2	1150.1	252.0	100.0	84.6	75.0	71.2	69.2	67.3
70°	3379.3	3233.1	2579.2	913.6	246.2	101.9	84.6	71.2	65.4	63.5	63.5
72.5°	2708.0	2540.7	2011.8	688.5	236.6	103.9	82.7	67.3	61.5	57.7	57.7
75°	1832.9	1686.8	1363.6	465.4	196.2	90.4	75.0	61.5	53.9	50.0	48.1
77.5°	1021.3	973.2	867.4	246.2	125.0	67.3	57.7	50.0	44.2	42.3	40.4
80°	600.1	575.1	511.6	136.6	76.9	38.5	34.6	32.7	28.8	28.8	28.8
82.5°	367.4	342.4	317.3	61.5	36.5	19.2	19.2	15.4	15.4	13.5	13.5
85°	100.0	92.3	128.9	13.5	3.8	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°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1200.2	1196.3	1196.3	1167.5	1167.5	1152.1	1148.2	1148.2	1154.0	1150.1	1127.1
5°	965.5	954.0	946.3	911.7	902.0	884.7	877.0	875.1	880.9	871.3	840.5
7.5°	727.0	717.4	705.9	678.9	667.4	665.5	642.4	636.6	632.8	625.1	605.8
10°	634.7	621.2	611.6	592.4	578.9	569.3	550.1	540.5	532.8	521.2	515.4
12.5°	571.2	557.8	544.3	519.3	502.0	490.4	478.9	459.7	452.0	438.5	430.8
15°	492.4	477.0	461.6	434.7	411.6	400.1	377.0	365.4	357.7	342.4	334.7
17.5°	396.2	375.0	357.7	332.7	321.2	302.0	288.5	269.3	253.9	248.1	242.3
20°	298.1	278.9	263.5	242.3	230.8	215.4	207.7	194.3	186.6	182.7	178.9
22.5°	219.3	203.9	194.3	182.7	176.9	171.2	167.3	163.5	159.6	157.7	157.7
25°	173.1	167.3	163.5	159.6	157.7	155.8	151.9	150.0	148.1	146.2	146.2
27.5°	157.7	153.9	151.9	150.0	148.1	144.2	144.2	140.4	138.5	138.5	136.6
30°	159.6	159.6	159.6	155.8	153.9	150.0	148.1	142.3	138.5	134.6	132.7
32.5°	130.8	130.8	128.9	125.0	123.1	121.2	121.2	117.3	115.4	115.4	119.2
35°	119.2	117.3	115.4	111.6	109.6	105.8	103.9	101.9	100.0	98.1	98.1
37.5°	113.5	111.6	109.6	105.8	103.9	101.9	100.0	96.2	94.2	94.2	92.3
40°	107.7	107.7	107.7	103.9	101.9	98.1	96.2	94.2	92.3	90.4	90.4
42.5°	103.9	103.9	103.9	101.9	100.0	98.1	94.2	92.3	90.4	88.5	86.5
45°	105.8	103.9	103.9	101.9	100.0	96.2	94.2	90.4	88.5	86.5	84.6
47.5°	113.5	111.6	107.7	103.9	100.0	96.2	92.3	88.5	86.5	84.6	82.7
50°	107.7	115.4	117.3	111.6	101.9	96.2	92.3	88.5	84.6	82.7	80.8
52.5°	105.8	107.7	115.4	115.4	105.8	98.1	92.3	88.5	84.6	80.8	78.9
55°	96.2	101.9	103.9	105.8	103.9	96.2	90.4	84.6	82.7	78.9	75.0
57.5°	84.6	88.5	90.4	94.2	96.2	94.2	86.5	80.8	78.9	75.0	71.2
60°	78.9	78.9	78.9	80.8	90.4	98.1	90.4	78.9	73.1	71.2	67.3
62.5°	73.1	73.1	71.2	73.1	75.0	84.6	82.7	75.0	71.2	69.2	65.4
65°	71.2	69.2	67.3	67.3	67.3	67.3	67.3	67.3	65.4	65.4	63.5
67.5°	65.4	63.5	63.5	61.5	61.5	61.5	61.5	61.5	59.6	59.6	57.7
70°	61.5	59.6	57.7	57.7	57.7	55.8	55.8	55.8	53.9	53.9	53.9
72.5°	55.8	53.9	53.9	53.9	51.9	51.9	51.9	50.0	50.0	48.1	48.1
75°	48.1	48.1	46.2	46.2	46.2	44.2	44.2	44.2	44.2	42.3	42.3
77.5°	40.4	38.5	40.4	38.5	38.5	38.5	38.5	38.5	36.5	36.5	34.6
80°	26.9	26.9	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	26.9
82.5°	15.4	13.5	15.4	15.4	15.4	17.3	17.3	19.2	17.3	17.3	15.4
85°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.8	3.8	3.8	3.8
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



REPORT NUMBER: P228659

CATALOG NUMBER: ISC-AF-1200-LED-E1-SLR-7030-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: P228659

CATALOG NUMBER: ISC-AF-1200-LED-E1-SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1138.6	1136.7	1117.4	1121.3	1115.5	1104.0	1105.9	1107.8	1111.7	1104.0	1100.1
5°	855.9	857.8	832.8	840.5	834.7	832.8	838.6	848.2	854.0	852.0	846.3
7.5°	607.8	609.7	588.5	586.6	580.8	578.9	586.6	596.2	602.0	600.1	602.0
10°	502.0	496.2	477.0	463.5	450.1	438.5	436.6	436.6	436.6	432.7	428.9
12.5°	415.4	409.7	386.6	375.0	363.5	348.1	346.2	344.3	338.5	332.7	325.0
15°	323.1	317.3	298.1	290.4	280.8	275.0	273.1	273.1	269.3	265.4	261.6
17.5°	234.6	230.8	219.3	211.6	209.6	211.6	213.5	217.3	219.3	221.2	221.2
20°	176.9	175.0	171.2	171.2	173.1	178.9	180.8	186.6	188.5	192.3	196.2
22.5°	155.8	155.8	153.9	153.9	157.7	163.5	167.3	169.3	171.2	173.1	173.1
25°	144.2	144.2	142.3	146.2	151.9	151.9	151.9	151.9	148.1	146.2	146.2
27.5°	136.6	136.6	136.6	138.5	136.6	134.6	134.6	134.6	132.7	132.7	130.8
30°	130.8	130.8	130.8	128.9	128.9	126.9	126.9	125.0	125.0	123.1	123.1
32.5°	121.2	117.3	121.2	117.3	117.3	115.4	117.3	117.3	113.5	113.5	113.5
35°	96.2	94.2	94.2	94.2	92.3	94.2	98.1	98.1	98.1	98.1	98.1
37.5°	90.4	90.4	88.5	86.5	86.5	84.6	86.5	84.6	84.6	84.6	86.5
40°	88.5	86.5	84.6	84.6	82.7	80.8	80.8	80.8	80.8	80.8	80.8
42.5°	84.6	84.6	80.8	78.9	78.9	76.9	76.9	76.9	76.9	76.9	76.9
45°	82.7	80.8	78.9	76.9	75.0	75.0	75.0	75.0	75.0	75.0	73.1
47.5°	80.8	78.9	76.9	75.0	73.1	71.2	71.2	71.2	71.2	71.2	71.2
50°	78.9	76.9	73.1	73.1	71.2	69.2	69.2	69.2	69.2	69.2	69.2
52.5°	75.0	75.0	71.2	69.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3
55°	71.2	71.2	67.3	65.4	63.5	63.5	63.5	63.5	65.4	65.4	65.4
57.5°	69.2	67.3	63.5	63.5	59.6	59.6	59.6	61.5	61.5	63.5	63.5
60°	65.4	63.5	61.5	59.6	59.6	57.7	57.7	57.7	57.7	59.6	59.6
62.5°	63.5	61.5	57.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
65°	59.6	59.6	55.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
67.5°	55.8	55.8	51.9	50.0	50.0	50.0	51.9	50.0	50.0	50.0	50.0
70°	51.9	50.0	48.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
72.5°	46.2	46.2	44.2	42.3	42.3	42.3	42.3	42.3	42.3	42.3	44.2
75°	40.4	38.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
77.5°	34.6	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	32.7
80°	25.0	23.1	23.1	23.1	23.1	25.0	25.0	25.0	25.0	25.0	25.0
82.5°	15.4	13.5	13.5	13.5	15.4	17.3	17.3	17.3	17.3	19.2	19.2
85°	3.8	3.8	3.8	3.8	7.7	9.6	9.6	9.6	11.5	9.6	9.6
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
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	115°	115°
1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	112.5°	136.0
1096.3	1119.4	1119.4	1104.0	1111.7	1104.0	1102.1	1115.5	1123.2	1148.2	1163.6	115°	158.0
848.2	877.0	879.0	871.3	880.9	875.1	880.9	898.2	911.7	929.0	944.4	117.5°	181.0
605.8	632.8	638.5	632.8	650.1	648.2	652.0	671.2	682.8	692.4	694.3	120°	204.0
427.0	430.8	446.2	442.4	453.9	452.0	457.8	473.1	488.5	494.3	498.1	122.5°	228.0
321.2	317.3	323.1	315.4	321.2	321.2	323.1	332.7	352.0	359.7	378.9	125°	254.0
259.6	255.8	255.8	252.0	252.0	250.0	252.0	259.6	273.1	284.7	300.0	127.5°	277.0
221.2	221.2	221.2	219.3	217.3	217.3	219.3	223.1	230.8	238.5	246.2	130°	301.0
198.1	201.9	203.9	205.8	207.7	209.6	211.6	217.3	215.4	207.7	198.1	132.5°	325.0
173.1	173.1	175.0	175.0	173.1	173.1	173.1	173.1	173.1	178.9	184.6	135°	348.0
144.2	144.2	144.2	146.2	144.2	144.2	146.2	146.2	148.1	151.9	157.7	137.5°	369.0
130.8	130.8	130.8	130.8	130.8	130.8	130.8	132.7	134.6	140.4	144.2	140°	390.0
121.2	121.2	119.2	119.2	119.2	117.3	119.2	119.2	121.2	128.9	134.6	142.5°	412.0
111.6	109.6	109.6	109.6	107.7	107.7	107.7	111.6	113.5	117.3	123.1	145°	433.0
98.1	98.1	98.1	100.0	100.0	100.0	100.0	103.9	103.9	105.8	105.8	147.5°	452.0
88.5	88.5	90.4	92.3	92.3	94.2	94.2	96.2	98.1	96.2	94.2	150°	469.0
80.8	82.7	82.7	86.5	86.5	86.5	88.5	90.4	92.3	88.5	88.5	152.5°	486.0
76.9	76.9	76.9	78.9	78.9	78.9	80.8	82.7	84.6	84.6	84.6	155°	503.0
73.1	73.1	73.1	75.0	73.1	73.1	73.1	75.0	78.9	78.9	80.8	157.5°	517.0
71.2	71.2	71.2	69.2	69.2	69.2	69.2	71.2	73.1	76.9	78.9	160°	530.0
69.2	67.3	67.3	67.3	67.3	67.3	67.3	69.2	71.2	73.1	76.9	162.5°	540.0
65.4	65.4	65.4	65.4	65.4	65.4	65.4	67.3	69.2	71.2	73.1	165°	550.0
65.4	65.4	63.5	63.5	65.4	65.4	65.4	67.3	69.2	71.2	71.2	167.5°	558.0
63.5	61.5	61.5	63.5	63.5	63.5	63.5	65.4	67.3	69.2	69.2	170°	564.0
59.6	59.6	59.6	59.6	61.5	61.5	63.5	65.4	65.4	67.3	67.3	172.5°	567.0
55.8	57.7	57.7	57.7	59.6	59.6	61.5	63.5	65.4	67.3	65.4	175°	570.0
53.9	55.8	55.8	55.8	57.7	57.7	57.7	61.5	63.5	63.5	65.4	177.5°	574.0
51.9	51.9	51.9	53.9	53.9	55.8	55.8	59.6	59.6	61.5	63.5	180°	576.0
48.1	48.1	48.1	50.0	50.0	51.9	53.9	55.8	55.8	57.7	59.6		
44.2	44.2	44.2	46.2	46.2	48.1	50.0	53.9	51.9	53.9	53.9		
38.5	38.5	40.4	40.4	42.3	44.2	46.2	46.2	46.2	46.2	46.2		
32.7	32.7	34.6	34.6	36.5	38.5	38.5	38.5	40.4	38.5	38.5		
26.9	26.9	28.8	28.8	28.8	28.8	30.8	28.8	30.8	28.8	30.8		
19.2	19.2	21.2	19.2	21.2	19.2	19.2	17.3	21.2	19.2	19.2		
7.7	9.6	9.6	9.6	9.6	7.7	7.7	5.8	7.7	7.7	5.8		
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	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		

'228659
 ISC-AF-1200-LED-E1-SLR-7030-ULG

REPORT NUMBER: P228659
 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°	1344.4	1344.4
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	1169.4	1167.5
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	946.3	942.4
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	677.0	669.3
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	500.1	505.8
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	400.1	423.1
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	321.2	334.7
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	248.1	253.9
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	198.1	198.1
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	173.1	171.2
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	163.5	161.6
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	148.1	150.0
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	138.5	140.4
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	126.9	128.9
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	103.9	103.9
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	96.2	96.2
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	90.4	92.3
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	86.5	86.5
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	82.7	84.6
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	80.8	80.8
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	76.9	78.9
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	75.0	76.9
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	73.1	73.1
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	69.2	71.2
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	69.2	69.2
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	67.3	67.3
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	65.4	65.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	61.5	61.5
										70°	57.7	57.7
										72.5°	53.9	51.9
										75°	46.2	46.2
										77.5°	38.5	38.5
										80°	28.8	26.9
										82.5°	17.3	15.4
										85°	5.8	5.8
										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°
1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	112.5°	124.0	124.0	124.0
1196.3	1217.5	1230.9	1282.9	1305.9	1334.8	1348.2	1367.5	1386.7	115°	147.0	146.0	147.0
977.0	1004.0	1027.1	1102.1	1146.3	1186.7	1219.4	1250.2	1294.4	117.5°	170.0	169.0	170.0
692.4	715.5	746.2	827.0	904.0	957.8	1005.9	1057.8	1115.5	120°	195.0	193.0	195.0
528.9	563.5	603.9	665.5	727.0	765.5	807.8	865.5	934.7	122.5°	220.0	219.0	220.0
442.4	484.7	532.8	602.0	667.4	698.2	728.9	757.8	794.3	125°	246.0	244.0	246.0
350.0	390.4	448.1	528.9	605.8	640.5	677.0	711.6	744.3	127.5°	269.0	267.0	269.0
261.6	290.4	342.4	438.5	523.1	567.4	609.7	657.8	702.0	130°	292.0	290.0	292.0
200.0	213.5	250.0	325.0	428.9	484.7	538.5	600.1	663.5	132.5°	314.0	313.0	314.0
173.1	178.9	196.2	240.4	334.7	400.1	469.3	546.2	625.1	135°	337.0	336.0	337.0
159.6	163.5	173.1	194.3	261.6	330.8	402.0	494.3	590.5	137.5°	360.0	359.0	360.0
151.9	155.8	163.5	175.0	217.3	269.3	348.1	450.1	565.5	140°	383.0	382.0	383.0
142.3	146.2	159.6	173.1	198.1	230.8	298.1	398.1	527.0	142.5°	406.0	404.0	406.0
130.8	132.7	136.6	151.9	169.3	196.2	253.9	352.0	486.6	145°	426.0	425.0	426.0
105.8	111.6	119.2	134.6	151.9	173.1	227.0	321.2	461.6	147.5°	444.0	444.0	444.0
98.1	103.9	111.6	125.0	140.4	159.6	215.4	309.7	438.5	150°	462.0	461.0	462.0
92.3	98.1	105.8	121.2	130.8	153.9	209.6	292.3	415.4	152.5°	480.0	479.0	480.0
88.5	94.2	103.9	115.4	128.9	150.0	194.3	277.0	402.0	155°	500.0	499.0	500.0
84.6	90.4	101.9	111.6	130.8	142.3	184.6	265.4	390.4	157.5°	515.0	513.0	515.0
82.7	88.5	100.0	113.5	126.9	134.6	175.0	255.8	380.8	160°	527.0	525.0	527.0
80.8	86.5	98.1	125.0	121.2	128.9	167.3	248.1	375.0	162.5°	536.0	535.0	536.0
78.9	84.6	98.1	126.9	117.3	121.2	161.6	240.4	371.2	165°	547.0	546.0	547.0
75.0	82.7	98.1	117.3	109.6	117.3	150.0	228.9	361.6	167.5°	556.0	555.0	556.0
73.1	78.9	96.2	107.7	103.9	111.6	138.5	209.6	348.1	170°	563.0	562.0	563.0
71.2	76.9	96.2	96.2	98.1	105.8	125.0	186.6	325.0	172.5°	566.0	565.0	566.0
69.2	76.9	98.1	86.5	92.3	100.0	115.4	167.3	296.2	175°	569.0	567.0	569.0
67.3	73.1	84.6	82.7	88.5	94.2	111.6	153.9	271.2	177.5°	573.0	572.0	573.0
63.5	69.2	75.0	76.9	84.6	90.4	109.6	151.9	248.1	180°	576.0	576.0	576.0
57.7	63.5	67.3	73.1	78.9	86.5	109.6	150.0	230.8				
53.9	57.7	61.5	65.4	71.2	80.8	107.7	151.9	223.1				
46.2	50.0	53.9	57.7	63.5	75.0	101.9	142.3	200.0				
36.5	42.3	46.2	48.1	53.9	65.4	88.5	121.2	161.6				
26.9	32.7	34.6	38.5	42.3	50.0	69.2	88.5	119.2				
15.4	21.2	23.1	25.0	32.7	36.5	46.2	57.7	80.8				
5.8	9.6	11.5	13.5	19.2	21.2	28.8	36.5	42.3				
0.0	0.0	0.0	0.0	3.8	5.8	9.6	11.5	9.6				
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				
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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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°	1344.4	1344.4	1344.4	1344.4
149.0	151.0	154.0	156.0	157.0	158.0	158.0	158.0	2.5°	1409.8	1429.0	1454.0	1477.1
172.0	174.0	177.0	179.0	179.5	180.0	180.5	181.0	5°	1329.0	1365.6	1419.4	1463.6
196.0	198.0	201.0	202.0	203.0	204.0	204.0	204.0	7.5°	1165.5	1215.5	1282.9	1344.4
221.0	223.0	226.0	227.0	227.5	228.0	228.0	228.0	10°	994.4	1063.6	1134.8	1213.6
247.0	248.0	251.0	252.0	252.5	253.0	253.5	254.0	12.5°	854.0	932.8	1013.6	1111.7
270.0	272.0	274.0	276.0	277.0	278.0	277.5	277.0	15°	794.3	863.6	957.8	1065.5
293.0	294.0	298.0	299.0	300.0	301.0	301.0	301.0	17.5°	769.3	857.8	965.5	1079.0
317.0	318.0	321.0	322.0	323.5	325.0	325.0	325.0	20°	742.4	863.6	1007.8	1146.3
339.0	341.0	345.0	345.0	346.5	348.0	348.0	348.0	22.5°	727.0	882.8	1061.7	1255.9
363.0	364.0	367.0	367.0	368.0	369.0	369.0	369.0	25°	723.2	927.0	1154.0	1411.7
385.0	386.0	388.0	389.0	389.5	390.0	390.0	390.0	27.5°	727.0	977.0	1269.4	1579.0
408.0	407.0	410.0	410.0	411.0	412.0	412.0	412.0	30°	709.7	1029.0	1384.8	1725.2
428.0	428.0	431.0	432.0	433.0	434.0	433.5	433.0	32.5°	680.9	1067.4	1486.7	1842.5
447.0	448.0	452.0	453.0	453.5	454.0	453.0	452.0	35°	648.2	1084.8	1559.8	1952.2
464.0	465.0	469.0	470.0	470.5	471.0	470.0	469.0	37.5°	613.5	1086.7	1629.1	2067.6
483.0	482.0	485.0	486.0	486.5	487.0	486.5	486.0	40°	594.3	1079.0	1700.2	2209.9
502.0	501.0	503.0	503.0	503.5	504.0	503.5	503.0	42.5°	586.6	1065.5	1752.1	2317.6
517.0	516.0	519.0	519.0	519.0	519.0	518.0	517.0	45°	586.6	1052.1	1800.2	2398.4
529.0	529.0	532.0	532.0	532.0	532.0	531.0	530.0	47.5°	588.5	1057.8	1857.9	2529.2
539.0	538.0	541.0	541.0	541.5	542.0	541.0	540.0	50°	598.2	1123.2	1956.0	2673.4
549.0	548.0	552.0	552.0	552.5	553.0	551.5	550.0	52.5°	613.5	1227.1	2125.3	2844.6
559.0	558.0	561.0	560.0	560.0	560.0	559.0	558.0	55°	628.9	1332.9	2346.5	3131.2
566.0	565.0	567.0	566.0	565.5	565.0	564.5	564.0	57.5°	642.4	1411.7	2561.9	3415.8
569.0	567.0	569.0	568.0	568.5	569.0	568.0	567.0	60°	655.9	1473.3	2686.9	3542.8
570.0	569.0	572.0	572.0	572.5	573.0	571.5	570.0	62.5°	648.2	1450.2	2721.5	3479.3
575.0	574.0	578.0	577.0	577.0	577.0	575.5	574.0	65°	619.3	1329.0	2611.9	3260.0
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	540.5	1117.4	2275.3	2913.8
								70°	448.1	877.0	1856.0	2481.1
								72.5°	377.0	655.9	1427.1	1921.4
								75°	313.5	463.5	1004.0	1323.2
								77.5°	232.7	315.4	727.0	925.1
								80°	155.8	194.3	463.5	646.2
								82.5°	94.2	113.5	267.3	452.0
								85°	51.9	71.2	163.5	296.2
								87.5°	13.5	15.4	36.5	13.5
								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°	6.0	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°
1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	112.5°	135.5	135.0	136.0	137.0	135.0
1494.4	1509.8	1529.0	1529.0	1552.1	1559.8	1575.2	115°	158.0	158.0	159.0	160.0	159.0
1517.5	1569.4	1617.5	1644.4	1690.6	1721.4	1752.1	117.5°	180.5	180.0	181.0	182.0	180.0
1423.3	1507.9	1586.7	1659.8	1736.8	1802.2	1850.2	120°	204.0	204.0	205.0	206.0	204.0
1298.2	1388.6	1484.8	1582.9	1675.2	1767.5	1846.4	122.5°	228.5	229.0	231.0	233.0	232.0
1209.8	1305.9	1419.4	1504.0	1600.2	1692.5	1769.5	125°	254.0	254.0	255.5	257.0	256.0
1169.4	1267.5	1373.3	1459.8	1550.2	1625.2	1679.1	127.5°	277.5	278.0	279.5	281.0	278.0
1190.5	1309.8	1404.0	1477.1	1544.4	1579.0	1586.7	130°	301.5	302.0	303.5	305.0	303.0
1282.9	1407.9	1477.1	1525.2	1536.7	1534.8	1506.0	132.5°	325.5	326.0	327.5	329.0	327.0
1427.1	1573.3	1621.4	1611.7	1563.7	1502.1	1454.0	135°	348.5	349.0	350.0	351.0	350.0
1621.4	1767.5	1794.5	1740.6	1632.9	1513.7	1432.9	137.5°	369.5	370.0	372.0	374.0	372.0
1825.2	1975.2	1965.6	1884.9	1731.0	1563.7	1434.8	140°	391.0	392.0	394.0	396.0	394.0
1969.5	2094.5	2056.0	1934.9	1763.7	1596.4	1459.8	142.5°	412.5	413.0	414.5	416.0	415.0
2119.5	2213.7	2144.5	2013.7	1836.8	1665.6	1525.2	145°	433.5	434.0	435.5	437.0	435.0
2281.1	2331.1	2219.5	2086.8	1925.2	1752.1	1600.2	147.5°	452.5	453.0	454.5	456.0	453.0
2436.8	2458.0	2296.4	2154.1	1996.4	1840.6	1702.1	150°	469.0	469.0	471.0	473.0	470.0
2604.2	2575.3	2377.2	2209.9	2054.1	1934.9	1821.4	152.5°	486.0	486.0	487.5	489.0	486.0
2748.4	2685.0	2452.2	2265.7	2125.3	2025.3	1946.4	155°	503.5	504.0	505.5	507.0	505.0
2856.1	2773.4	2523.4	2319.5	2194.5	2133.0	2094.5	157.5°	517.5	518.0	520.5	523.0	520.0
2948.4	2858.1	2579.2	2398.4	2290.7	2267.6	2281.1	160°	530.0	530.0	531.5	533.0	531.0
3063.8	2948.4	2654.2	2486.9	2421.5	2444.5	2521.5	162.5°	539.0	538.0	539.0	540.0	537.0
3242.7	3092.7	2779.2	2613.8	2583.0	2665.7	2811.9	165°	549.0	548.0	549.0	550.0	548.0
3531.2	3354.3	3000.4	2835.0	2798.4	2925.4	3135.0	167.5°	558.5	559.0	561.0	563.0	561.0
3781.2	3646.6	3292.7	3092.7	3077.3	3213.9	3442.7	170°	565.0	566.0	568.5	571.0	569.0
3894.7	3881.3	3594.7	3410.0	3387.0	3513.9	3731.2	172.5°	567.5	568.0	569.5	571.0	568.0
3885.1	3996.7	3840.9	3710.1	3631.2	3737.0	3948.6	175°	569.0	568.0	569.5	571.0	568.0
3744.7	3927.4	3940.9	3910.1	3767.8	3775.5	3925.5	177.5°	574.0	574.0	575.5	577.0	574.0
3469.7	3687.0	3914.0	3904.3	3723.5	3563.9	3594.7	180°	576.0	576.0	576.0	576.0	576.0
3079.2	3265.8	3627.4	3700.5	3442.7	3144.6	3004.2						
2467.6	2685.0	3221.6	3323.5	2971.5	2552.2	2334.9						
1702.1	1988.7	2811.9	2821.5	2411.8	2007.9	1773.3						
1169.4	1415.6	2273.4	2298.4	1913.7	1523.3	1321.3						
786.6	948.2	1667.5	1561.7	1263.6	1055.9	1004.0						
496.2	590.5	1048.2	979.0	832.8	761.6	780.9						
230.8	323.1	573.1	559.7	525.1	459.7	400.1						
5.8	17.3	111.6	73.1	73.1	42.3	15.4						
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						
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°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
160.0	159.0	158.0	158.0	158.0	158.0	2.5°	1561.7	1567.5	1565.6	1552.1	1517.5	1504.0
182.0	181.0	180.0	180.5	181.0	180.5	5°	1750.2	1759.8	1748.3	1715.6	1627.1	1584.8
206.0	205.0	204.0	204.0	204.0	204.0	7.5°	1882.9	1890.6	1871.4	1796.4	1638.7	1567.5
233.0	231.0	229.0	228.5	228.0	228.0	10°	1907.9	1925.2	1904.1	1796.4	1613.7	1525.2
257.0	255.5	254.0	254.0	254.0	253.5	12.5°	1836.8	1873.3	1857.9	1779.1	1602.1	1507.9
281.0	279.5	278.0	277.5	277.0	277.5	15°	1727.1	1731.0	1740.6	1738.7	1581.0	1488.6
305.0	303.5	302.0	301.5	301.0	301.0	17.5°	1606.0	1602.1	1613.7	1650.2	1575.2	1502.1
329.0	327.5	326.0	325.5	325.0	325.0	20°	1496.3	1490.6	1502.1	1538.7	1552.1	1534.8
351.0	350.0	349.0	348.5	348.0	348.0	22.5°	1427.1	1407.9	1405.9	1459.8	1563.7	1609.8
374.0	372.0	370.0	369.5	369.0	369.0	25°	1388.6	1367.5	1377.1	1438.6	1611.7	1698.3
396.0	394.0	392.0	391.0	390.0	390.0	27.5°	1377.1	1354.0	1367.5	1436.7	1661.7	1806.0
416.0	414.5	413.0	412.5	412.0	412.0	30°	1384.8	1361.7	1367.5	1450.2	1686.8	1831.0
437.0	435.5	434.0	433.5	433.0	433.5	32.5°	1429.0	1388.6	1384.8	1490.6	1732.9	1886.8
456.0	454.5	453.0	452.5	452.0	453.0	35°	1488.6	1430.9	1423.3	1556.0	1792.5	1957.9
473.0	471.0	469.0	469.0	469.0	470.0	37.5°	1588.7	1517.5	1506.0	1665.6	1873.3	2017.6
489.0	487.5	486.0	486.0	486.0	486.5	40°	1723.3	1652.1	1652.1	1806.0	1982.9	2100.3
507.0	505.5	504.0	503.5	503.0	503.5	42.5°	1875.2	1829.1	1836.8	1975.2	2108.0	2204.1
523.0	520.5	518.0	517.5	517.0	518.0	45°	2077.2	2052.2	2090.6	2188.7	2234.9	2300.3
533.0	531.5	530.0	530.0	530.0	531.0	47.5°	2313.8	2334.9	2388.8	2419.5	2363.8	2398.4
540.0	539.0	538.0	539.0	540.0	541.0	50°	2609.9	2665.7	2717.7	2710.0	2523.4	2511.9
550.0	549.0	548.0	549.0	550.0	551.5	52.5°	2950.4	3023.5	3060.0	3017.7	2702.3	2634.9
563.0	561.0	559.0	558.5	558.0	559.0	55°	3296.6	3385.0	3373.5	3325.4	2896.5	2806.1
571.0	568.5	566.0	565.0	564.0	564.5	57.5°	3610.1	3679.3	3710.1	3606.2	3133.1	3013.8
571.0	569.5	568.0	567.5	567.0	568.0	60°	3858.2	3933.2	3933.2	3831.3	3390.8	3252.3
571.0	569.5	568.0	569.0	570.0	571.5	62.5°	4039.0	4098.6	4077.4	3979.3	3612.0	3506.2
577.0	575.5	574.0	574.0	574.0	575.5	65°	4025.5	4031.3	4008.2	3971.7	3744.7	3733.2
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	3646.6	3648.5	3694.7	3679.3	3644.7	3787.0
						70°	2988.8	3019.6	3098.5	3075.4	3252.3	3544.7
						72.5°	2275.3	2294.5	2388.8	2367.6	2608.0	2929.2
						75°	1656.0	1654.1	1694.4	1663.7	1967.6	2325.3
						77.5°	1275.2	1240.5	1232.8	1236.7	1394.4	1690.6
						80°	1029.0	1029.0	1017.4	975.1	854.0	988.6
						82.5°	821.3	788.6	730.9	648.2	548.1	584.7
						85°	409.7	398.1	348.1	288.5	240.4	319.3
						87.5°	1.9	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°
1344.4	1344.4	1344.4	1344.4	1344.4	112.5°	136.0	135.0	134.0	132.0	129.0	127.5	126.8
1498.3	1482.9	1465.6	1465.6	1450.2	115°	158.0	157.0	156.0	154.0	151.0	150.0	149.5
1559.8	1529.0	1504.0	1481.0	1457.9	117.5°	180.0	179.5	179.0	177.0	174.0	173.0	172.5
1529.0	1492.5	1461.7	1421.3	1384.8	120°	204.0	203.0	202.0	201.0	198.0	197.0	196.5
1482.9	1442.5	1398.3	1355.9	1304.0	122.5°	228.0	227.5	227.0	226.0	223.0	222.0	221.5
1457.9	1409.8	1355.9	1311.7	1252.1	125°	253.0	252.5	252.0	251.0	248.0	247.5	247.2
1438.6	1388.6	1340.6	1298.2	1246.3	127.5°	278.0	277.0	276.0	274.0	272.0	271.0	270.5
1469.4	1421.3	1386.7	1338.6	1298.2	130°	301.0	300.0	299.0	298.0	294.0	293.5	293.2
1521.3	1492.5	1465.6	1434.8	1402.1	132.5°	325.0	323.5	322.0	321.0	318.0	317.5	317.2
1619.4	1615.6	1613.7	1590.6	1567.5	135°	348.0	346.5	345.0	345.0	341.0	340.0	339.5
1742.5	1757.9	1779.1	1779.1	1779.1	137.5°	369.0	368.0	367.0	367.0	364.0	363.5	363.2
1869.5	1907.9	1948.3	1965.6	1977.2	140°	390.0	389.5	389.0	388.0	386.0	385.5	385.2
1906.0	1961.8	2025.3	2067.6	2096.4	142.5°	412.0	411.0	410.0	410.0	407.0	407.5	407.8
1965.6	2029.1	2100.3	2148.3	2200.3	145°	434.0	433.0	432.0	431.0	428.0	428.0	428.0
2036.8	2092.6	2165.7	2231.1	2306.1	147.5°	454.0	453.5	453.0	452.0	448.0	447.5	447.2
2096.4	2169.5	2248.4	2333.0	2429.2	150°	471.0	470.5	470.0	469.0	465.0	464.5	464.2
2186.8	2263.7	2350.3	2463.8	2581.1	152.5°	487.0	486.5	486.0	485.0	482.0	482.5	482.8
2286.8	2369.5	2459.9	2573.4	2710.0	155°	504.0	503.5	503.0	503.0	501.0	501.5	501.8
2373.4	2446.5	2544.6	2661.9	2817.7	157.5°	519.0	519.0	519.0	519.0	516.0	516.5	516.8
2456.1	2523.4	2638.8	2758.0	2911.9	160°	532.0	532.0	532.0	532.0	529.0	529.0	529.0
2565.7	2617.6	2733.0	2869.6	3033.1	162.5°	542.0	541.5	541.0	541.0	538.0	538.5	538.8
2679.2	2750.3	2877.3	3033.1	3215.8	165°	553.0	552.5	552.0	552.0	548.0	548.5	548.8
2833.1	2917.7	3073.5	3250.4	3481.2	167.5°	560.0	560.0	560.0	561.0	558.0	558.5	558.8
3044.6	3133.1	3298.5	3496.6	3733.2	170°	565.0	565.5	566.0	567.0	565.0	565.5	565.8
3304.3	3390.8	3533.1	3729.3	3950.5	172.5°	569.0	568.5	568.0	569.0	567.0	568.0	568.5
3546.6	3665.8	3794.7	3940.9	4115.9	175°	573.0	572.5	572.0	572.0	569.0	569.5	569.8
3810.1	3902.4	4010.1	4065.9	4164.0	177.5°	577.0	577.0	577.0	578.0	574.0	574.5	574.8
3887.0	3964.0	4058.2	4058.2	4046.7	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
3660.1	3777.4	3860.1	3860.1	3762.0								
3183.1	3379.3	3460.1	3510.1	3385.0								
2586.9	2831.1	2963.8	3006.1	2779.2								
1898.3	2054.1	2071.4	2077.2	1771.4								
1094.4	1217.5	1261.7	1325.2	1061.7								
634.7	680.9	755.9	782.8	646.2								
355.8	359.7	359.7	332.7	271.2								
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								
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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 CATALOG NUMBER: ISC-AF-1200-LED-E1-SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°		355°	359°	360°
126.0	125.5	125.0	124.5	0°	1344.4	1344.4	1344.4
149.0	148.5	148.0	147.5	2.5°	1446.3	1423.3	1427.1
172.0	171.5	171.0	170.5	5°	1425.2	1392.5	1380.9
196.0	195.8	195.5	195.2	7.5°	1352.1	1296.3	1279.0
221.0	220.8	220.5	220.2	10°	1263.6	1192.5	1179.0
247.0	246.8	246.5	246.2	12.5°	1213.6	1132.8	1115.5
270.0	269.8	269.5	269.2	15°	1198.2	1121.3	1102.1
293.0	292.8	292.5	292.2	17.5°	1244.4	1161.7	1138.6
317.0	316.2	315.5	314.8	20°	1350.2	1252.1	1225.2
339.0	338.5	338.0	337.5	22.5°	1507.9	1396.3	1363.6
363.0	362.2	361.5	360.8	25°	1721.4	1594.4	1561.7
385.0	384.5	384.0	383.5	27.5°	1940.6	1788.7	1746.4
408.0	407.5	407.0	406.5	30°	2067.6	1927.2	1884.9
428.0	427.5	427.0	426.5	32.5°	2196.4	2061.8	2011.8
447.0	446.2	445.5	444.8	35°	2333.0	2196.4	2146.4
464.0	463.5	463.0	462.5	37.5°	2492.6	2377.2	2333.0
483.0	482.2	481.5	480.8	40°	2683.0	2577.2	2513.8
502.0	501.5	501.0	500.5	42.5°	2840.7	2742.7	2683.0
517.0	516.5	516.0	515.5	45°	2956.1	2873.4	2811.9
529.0	528.5	528.0	527.5	47.5°	3061.9	2998.5	2936.9
539.0	538.2	537.5	536.8	50°	3194.6	3140.8	3098.5
549.0	548.5	548.0	547.5	52.5°	3373.5	3354.3	3317.7
559.0	558.2	557.5	556.8	55°	3637.0	3679.3	3627.4
566.0	565.2	564.5	563.8	57.5°	3887.0	3917.8	3894.7
569.0	568.2	567.5	566.8	60°	4083.2	4040.9	4012.0
570.0	569.8	569.5	569.2	62.5°	4183.2	4079.4	4031.3
575.0	574.5	574.0	573.5	65°	4189.0	4029.4	3956.3
576.0	576.0	576.0	576.0	67.5°	4058.2	3871.6	3787.0
				70°	3706.2	3490.8	3379.3
				72.5°	3113.9	2783.0	2708.0
				75°	2283.0	1877.2	1832.9
				77.5°	1382.9	1079.0	1021.3
				80°	778.9	619.3	600.1
				82.5°	442.4	348.1	367.4
				85°	180.8	90.4	100.0
				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)