

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: P228658

Luminaire Tested: **ISC-AF-1200-LED-E1-SLR-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228658
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-7050-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) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6914.2 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

Input Watts (W): 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

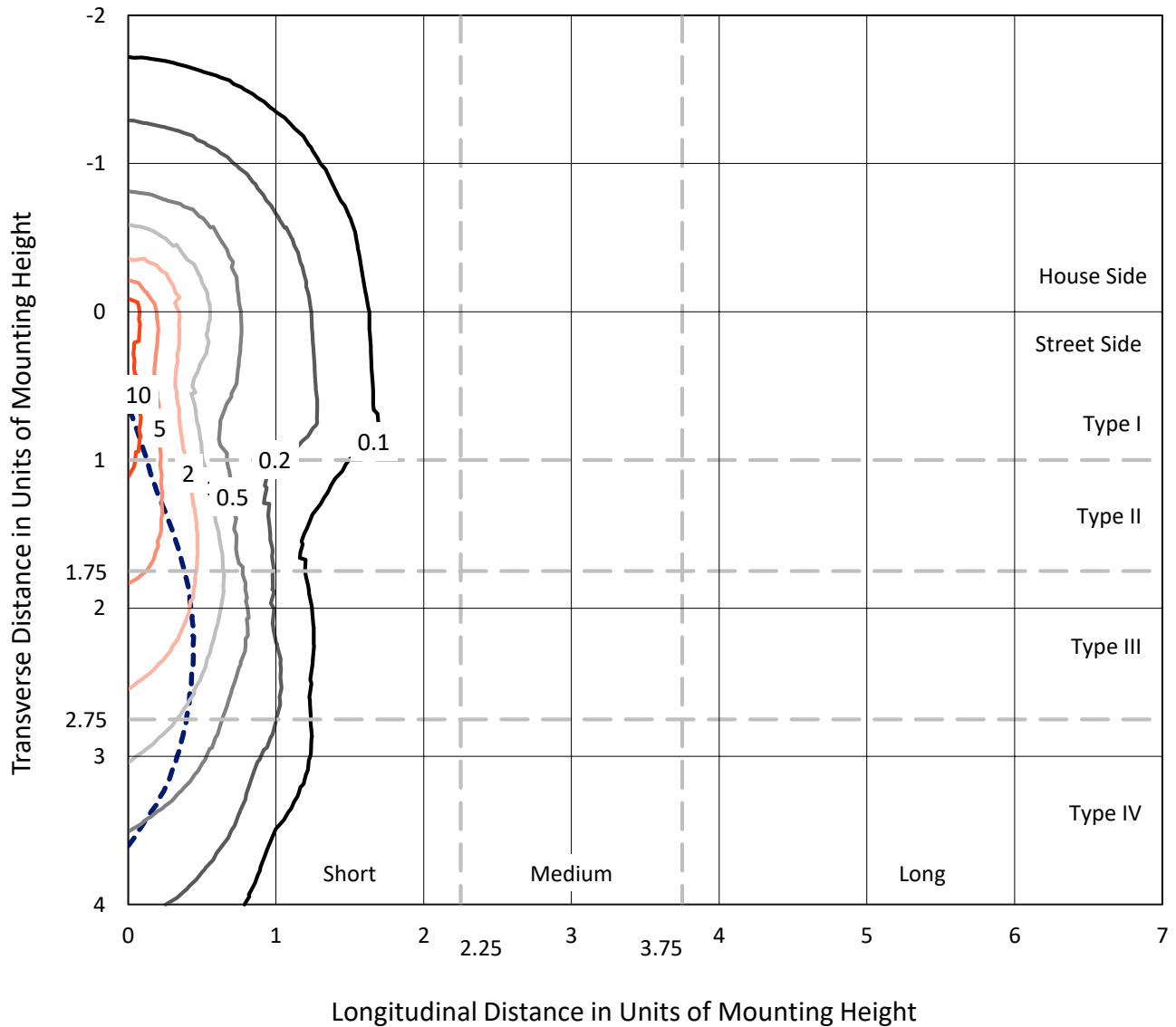


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Iso-Footcandle Lines of Horizontal Illumination

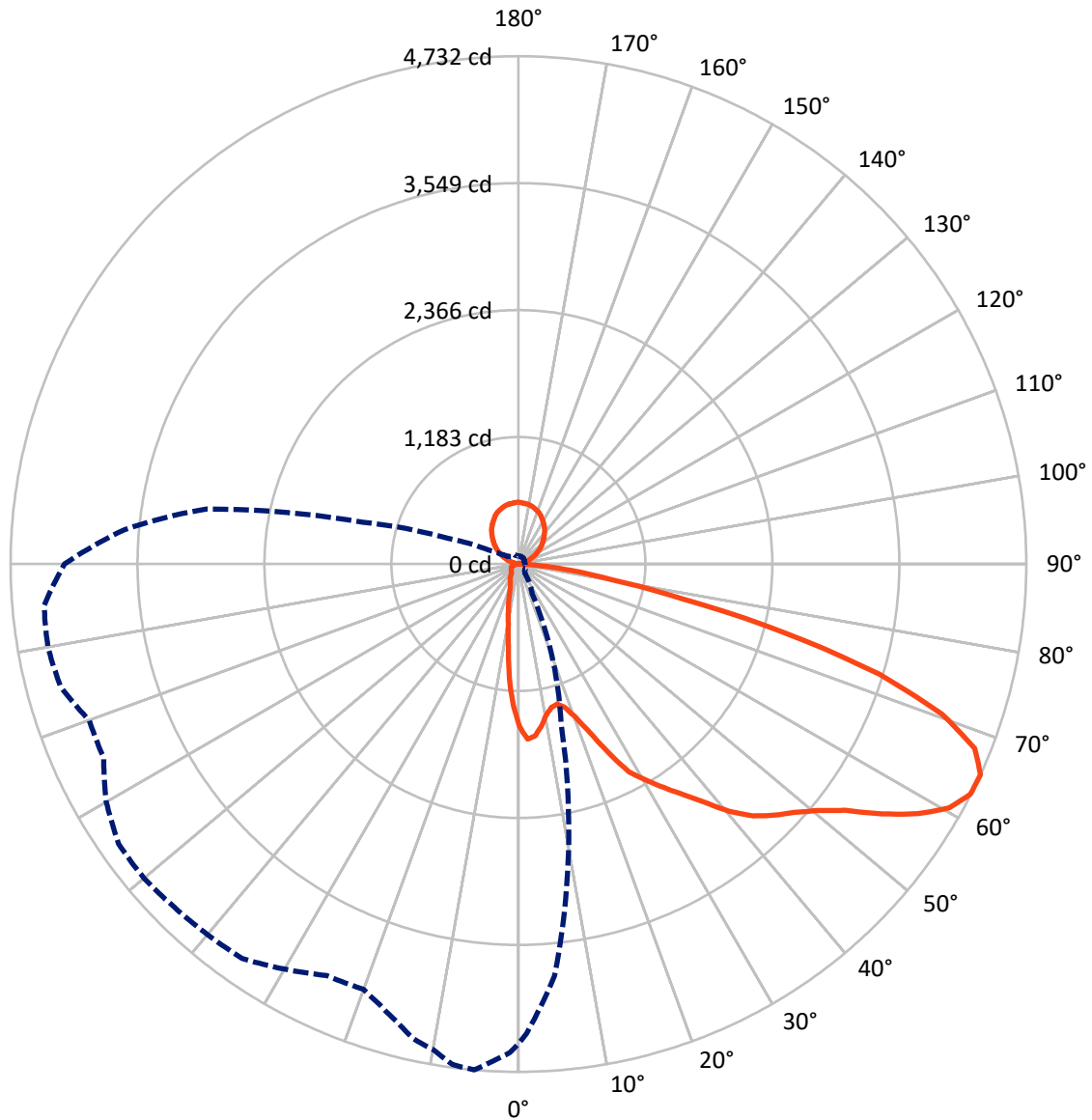
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 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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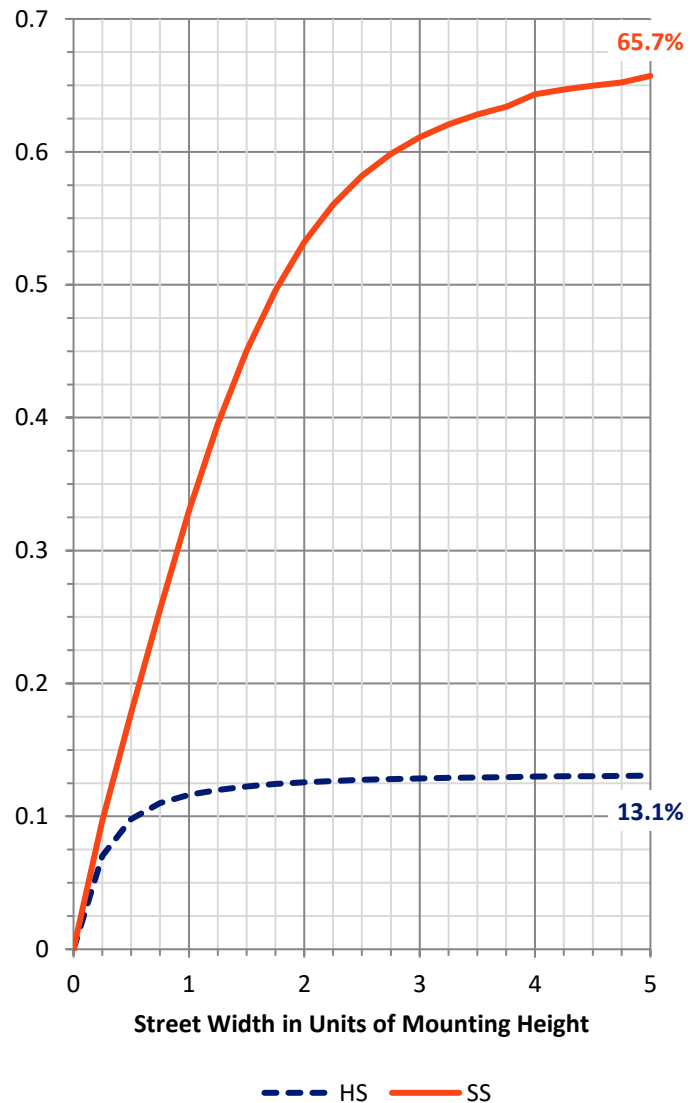
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	912.5	713.1	1625.6
	% Fixture	13.2	10.3	23.5
Street Side	Lumens	4575.5	713.1	5288.5
	% Fixture	66.2	10.3	76.5
Total	Lumens	5488.0	1426.2	6914.2
	% Fixture	79.4	20.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	1.7
10°-20°	240.3	3.5
20°-30°	349.3	5.1
30°-40°	516.6	7.5
40°-50°	752.8	10.9
50°-60°	1128.4	16.3
60°-70°	1406.2	20.3
70°-80°	823.7	11.9
80°-90°	154.0	2.2
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.2
120°-130°	223.9	3.2
130°-140°	265.6	3.8
140°-150°	269.3	3.9
150°-160°	231.1	3.3
160°-170°	155.1	2.2
170°-180°	54.3	0.8
0°-90°	5488.0	79.4
0°-180°	6914.2	100.0



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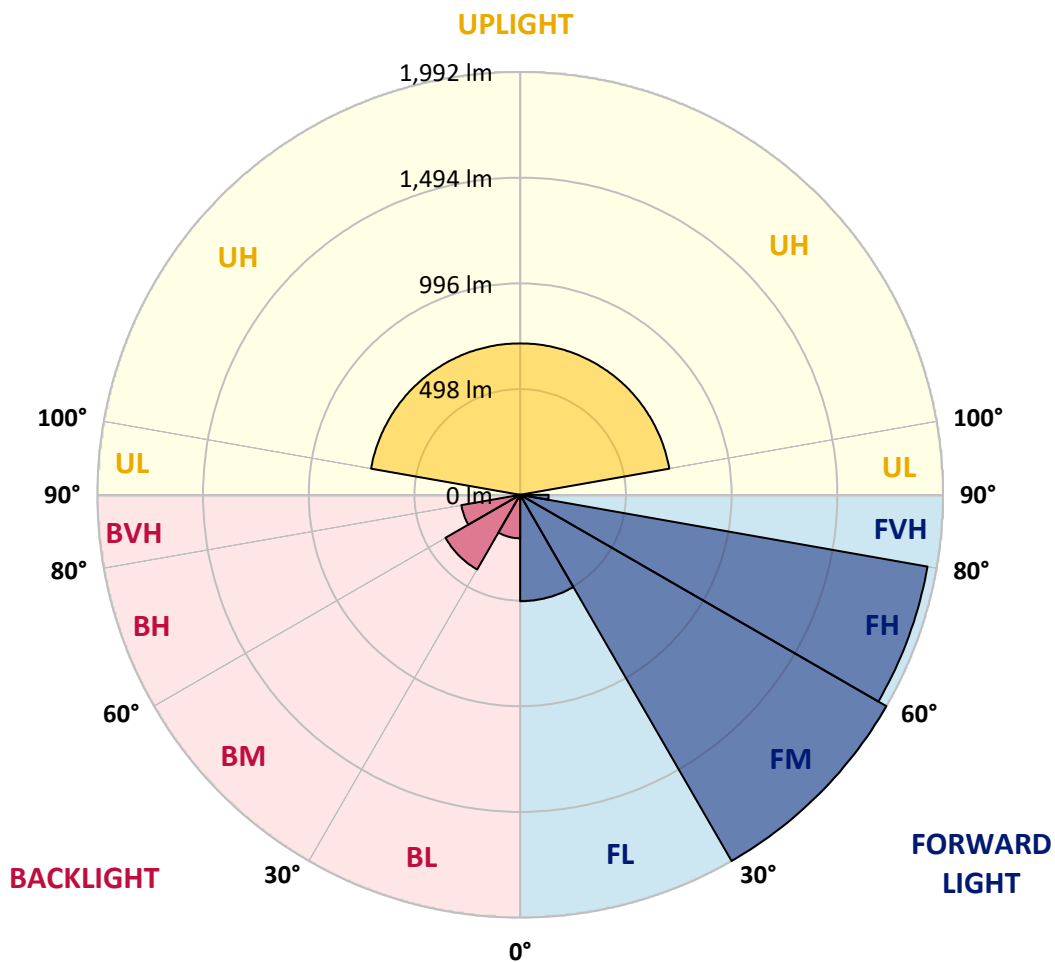
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.3	7.3			
FM	(30°-60°)	1991.7	28.8			
FH	(60°-80°)	1948.2	28.2			G2/5000
FVH	(80°-90°)	134.2	1.9			G2/225
BL	(0°-30°)	204.9	3.0	B1/500		
BM	(30°-60°)	406.1	5.9	B1/1000		
BH	(60°-80°)	281.7	4.1	B1/500		G1/500
BVH	(80°-90°)	19.8	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1612.2	1599.1	1573.1	1520.9	1466.6	1414.5	1405.8	1386.2	1388.4	1377.5	1373.2
5°	1560.0	1542.6	1488.3	1379.7	1286.3	1190.7	1184.1	1145.0	1149.4	1125.5	1112.4
7.5°	1444.9	1421.0	1360.1	1210.2	1079.9	953.8	940.8	895.2	888.7	864.8	845.2
10°	1331.9	1308.0	1231.9	1060.3	910.4	817.0	801.7	780.0	762.6	751.8	732.2
12.5°	1260.2	1247.2	1155.9	958.2	840.9	764.8	745.3	723.5	706.1	686.6	667.0
15°	1245.0	1218.9	1125.5	925.6	788.7	695.3	671.4	647.5	627.9	608.4	580.1
17.5°	1286.3	1260.2	1155.9	910.4	730.0	617.1	586.6	554.0	534.5	510.6	480.2
20°	1384.0	1342.8	1214.6	888.7	667.0	525.8	488.9	449.8	428.0	386.7	365.0
22.5°	1540.5	1488.3	1314.5	888.7	608.4	430.2	388.9	354.2	330.3	293.3	269.4
25°	1764.3	1718.6	1477.5	912.6	556.2	349.8	308.5	273.8	249.9	223.8	208.6
27.5°	1972.8	1901.1	1651.3	947.3	514.9	293.3	252.0	223.8	206.4	193.4	184.7
30°	2129.3	2070.6	1803.4	971.2	454.1	245.5	219.4	202.1	193.4	186.9	182.5
32.5°	2272.7	2205.3	1912.0	986.4	417.2	208.6	184.7	171.6	163.0	154.3	152.1
35°	2424.8	2359.6	2040.2	984.3	393.3	191.2	167.3	152.1	143.4	141.2	136.9
37.5°	2635.5	2546.5	2188.0	984.3	384.6	184.7	156.4	141.2	134.7	130.4	128.2
40°	2839.8	2739.8	2350.9	990.8	375.9	180.3	156.4	141.2	130.4	126.0	121.7
42.5°	3031.0	2920.2	2498.7	1001.6	371.5	167.3	147.7	139.1	134.7	126.0	119.5
45°	3176.5	3089.6	2613.8	1023.4	371.5	158.6	139.1	132.5	130.4	130.4	128.2
47.5°	3317.8	3220.0	2746.3	1064.6	378.1	152.1	132.5	123.8	123.8	123.8	126.0
50°	3500.3	3385.1	2928.9	1149.4	378.1	149.9	126.0	117.3	115.2	119.5	119.5
52.5°	3748.0	3665.4	3196.1	1271.1	373.7	147.7	123.8	110.8	108.6	110.8	115.2
55°	4097.8	4004.4	3519.8	1421.0	369.4	143.4	119.5	108.6	104.3	102.1	104.3
57.5°	4399.8	4319.4	3817.5	1540.5	358.5	132.5	115.2	106.5	99.9	97.8	95.6
60°	4532.3	4465.0	4008.7	1620.9	338.9	121.7	108.6	102.1	95.6	93.4	91.3
62.5°	4554.1	4469.3	4010.9	1638.2	317.2	110.8	102.1	95.6	91.3	89.1	86.9
65°	4469.3	4373.7	3852.3	1531.8	299.8	110.8	97.8	91.3	84.7	82.6	80.4
67.5°	4278.1	4130.4	3450.3	1299.3	284.6	113.0	95.6	84.7	80.4	78.2	76.0
70°	3817.5	3652.4	2913.6	1032.1	278.1	115.2	95.6	80.4	73.9	71.7	71.7
72.5°	3059.2	2870.2	2272.7	777.8	267.2	117.3	93.4	76.0	69.5	65.2	65.2
75°	2070.6	1905.5	1540.5	525.8	221.6	102.1	84.7	69.5	60.8	56.5	54.3
77.5°	1153.7	1099.4	979.9	278.1	141.2	76.0	65.2	56.5	50.0	47.8	45.6
80°	677.9	649.6	577.9	154.3	86.9	43.5	39.1	36.9	32.6	32.6	32.6
82.5°	415.0	386.7	358.5	69.5	41.3	21.7	21.7	17.4	17.4	15.2	15.2
85°	113.0	104.3	145.6	15.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	2.0	3.0	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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1355.8	1351.4	1351.4	1318.9	1318.9	1301.5	1297.1	1297.1	1303.6	1299.3	1273.2
5°	1090.7	1077.7	1069.0	1029.9	1019.0	999.5	990.8	988.6	995.1	984.3	949.5
7.5°	821.3	810.4	797.4	767.0	753.9	751.8	725.7	719.2	714.8	706.1	684.4
10°	717.0	701.8	690.9	669.2	654.0	643.1	621.4	610.5	601.8	588.8	582.3
12.5°	645.3	630.1	614.9	586.6	567.1	554.0	541.0	519.3	510.6	495.4	486.7
15°	556.2	538.8	521.5	491.0	465.0	451.9	425.9	412.8	404.1	386.7	378.1
17.5°	447.6	423.7	404.1	375.9	362.8	341.1	325.9	304.2	286.8	280.3	273.8
20°	336.8	315.0	297.7	273.8	260.7	243.3	234.7	219.4	210.8	206.4	202.1
22.5°	247.7	230.3	219.4	206.4	199.9	193.4	189.0	184.7	180.3	178.2	178.2
25°	195.5	189.0	184.7	180.3	178.2	176.0	171.6	169.5	167.3	165.1	165.1
27.5°	178.2	173.8	171.6	169.5	167.3	163.0	163.0	158.6	156.4	156.4	154.3
30°	180.3	180.3	180.3	176.0	173.8	169.5	167.3	160.8	156.4	152.1	149.9
32.5°	147.7	147.7	145.6	141.2	139.1	136.9	136.9	132.5	130.4	130.4	134.7
35°	134.7	132.5	130.4	126.0	123.8	119.5	117.3	115.2	113.0	110.8	110.8
37.5°	128.2	126.0	123.8	119.5	117.3	115.2	113.0	108.6	106.5	106.5	104.3
40°	121.7	121.7	121.7	117.3	115.2	110.8	108.6	106.5	104.3	102.1	102.1
42.5°	117.3	117.3	117.3	115.2	113.0	110.8	106.5	104.3	102.1	99.9	97.8
45°	119.5	117.3	117.3	115.2	113.0	108.6	106.5	102.1	99.9	97.8	95.6
47.5°	128.2	126.0	121.7	117.3	113.0	108.6	104.3	99.9	97.8	95.6	93.4
50°	121.7	130.4	132.5	126.0	115.2	108.6	104.3	99.9	95.6	93.4	91.3
52.5°	119.5	121.7	130.4	130.4	119.5	110.8	104.3	99.9	95.6	91.3	89.1
55°	108.6	115.2	117.3	119.5	117.3	108.6	102.1	95.6	93.4	89.1	84.7
57.5°	95.6	99.9	102.1	106.5	108.6	106.5	97.8	91.3	89.1	84.7	80.4
60°	89.1	89.1	89.1	91.3	102.1	110.8	102.1	89.1	82.6	80.4	76.0
62.5°	82.6	82.6	80.4	82.6	84.7	95.6	93.4	84.7	80.4	78.2	73.9
65°	80.4	78.2	76.0	76.0	76.0	76.0	76.0	76.0	73.9	73.9	71.7
67.5°	73.9	71.7	71.7	69.5	69.5	69.5	69.5	69.5	67.4	67.4	65.2
70°	69.5	67.4	65.2	65.2	65.2	63.0	63.0	63.0	60.8	60.8	60.8
72.5°	63.0	60.8	60.8	60.8	58.7	58.7	58.7	56.5	56.5	54.3	54.3
75°	54.3	54.3	52.1	52.1	52.1	50.0	50.0	50.0	50.0	47.8	47.8
77.5°	45.6	43.5	45.6	43.5	43.5	43.5	43.5	43.5	41.3	41.3	39.1
80°	30.4	30.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	30.4
82.5°	17.4	15.2	17.4	17.4	17.4	19.6	19.6	21.7	19.6	19.6	17.4
85°	0.0	0.0	0.0	0.0	0.0	2.2	2.2	4.3	4.3	4.3	4.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	11.0	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-7050-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: P228658

CATALOG NUMBER: ISC-AF-1200-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1286.3	1284.1	1262.4	1266.7	1260.2	1247.2	1249.3	1251.5	1255.8	1247.2	1242.8
5°	966.9	969.0	940.8	949.5	943.0	940.8	947.3	958.2	964.7	962.5	956.0
7.5°	686.6	688.8	664.9	662.7	656.2	654.0	662.7	673.5	680.1	677.9	680.1
10°	567.1	560.6	538.8	523.6	508.4	495.4	493.2	493.2	493.2	488.9	484.5
12.5°	469.3	462.8	436.7	423.7	410.6	393.3	391.1	388.9	382.4	375.9	367.2
15°	365.0	358.5	336.8	328.1	317.2	310.7	308.5	308.5	304.2	299.8	295.5
17.5°	265.1	260.7	247.7	239.0	236.8	239.0	241.2	245.5	247.7	249.9	249.9
20°	199.9	197.7	193.4	193.4	195.5	202.1	204.2	210.8	212.9	217.3	221.6
22.5°	176.0	176.0	173.8	173.8	178.2	184.7	189.0	191.2	193.4	195.5	195.5
25°	163.0	163.0	160.8	165.1	171.6	171.6	171.6	171.6	167.3	165.1	165.1
27.5°	154.3	154.3	154.3	156.4	154.3	152.1	152.1	152.1	149.9	149.9	147.7
30°	147.7	147.7	147.7	145.6	145.6	143.4	143.4	141.2	141.2	139.1	139.1
32.5°	136.9	132.5	136.9	132.5	132.5	130.4	132.5	132.5	128.2	128.2	128.2
35°	108.6	106.5	106.5	106.5	104.3	106.5	110.8	110.8	110.8	110.8	110.8
37.5°	102.1	102.1	99.9	97.8	97.8	95.6	97.8	95.6	95.6	95.6	97.8
40°	99.9	97.8	95.6	95.6	93.4	91.3	91.3	91.3	91.3	91.3	91.3
42.5°	95.6	95.6	91.3	89.1	89.1	86.9	86.9	86.9	86.9	86.9	86.9
45°	93.4	91.3	89.1	86.9	84.7	84.7	84.7	84.7	84.7	84.7	82.6
47.5°	91.3	89.1	86.9	84.7	82.6	80.4	80.4	80.4	80.4	80.4	80.4
50°	89.1	86.9	82.6	82.6	80.4	78.2	78.2	78.2	78.2	78.2	78.2
52.5°	84.7	84.7	80.4	78.2	76.0	76.0	76.0	76.0	76.0	76.0	76.0
55°	80.4	80.4	76.0	73.9	71.7	71.7	71.7	71.7	73.9	73.9	73.9
57.5°	78.2	76.0	71.7	71.7	67.4	67.4	67.4	69.5	69.5	71.7	71.7
60°	73.9	71.7	69.5	67.4	67.4	65.2	65.2	65.2	65.2	67.4	67.4
62.5°	71.7	69.5	65.2	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
65°	67.4	67.4	63.0	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
67.5°	63.0	63.0	58.7	56.5	56.5	56.5	58.7	56.5	56.5	56.5	56.5
70°	58.7	56.5	54.3	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
72.5°	52.1	52.1	50.0	47.8	47.8	47.8	47.8	47.8	47.8	47.8	50.0
75°	45.6	43.5	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
77.5°	39.1	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	36.9
80°	28.2	26.1	26.1	26.1	26.1	28.2	28.2	28.2	28.2	28.2	28.2
82.5°	17.4	15.2	15.2	15.2	17.4	19.6	19.6	19.6	19.6	21.7	21.7
85°	4.3	4.3	4.3	4.3	8.7	10.9	10.9	10.9	13.0	10.9	10.9
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°

NUMBER: P228658
 NUMBER: ISC-AF-1200-LED-E1-SLR-7050-ULG

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°
1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	112.5°	136.0
1238.5	1264.5	1264.5	1247.2	1255.8	1247.2	1245.0	1260.2	1268.9	1297.1	1314.5	115°	158.0
958.2	990.8	992.9	984.3	995.1	988.6	995.1	1014.7	1029.9	1049.4	1066.8	117.5°	181.0
684.4	714.8	721.4	714.8	734.4	732.2	736.6	758.3	771.3	782.2	784.4	120°	204.0
482.3	486.7	504.1	499.7	512.8	510.6	517.1	534.5	551.9	558.4	562.7	122.5°	228.0
362.8	358.5	365.0	356.3	362.8	362.8	365.0	375.9	397.6	406.3	428.0	125°	254.0
293.3	289.0	289.0	284.6	284.6	282.5	284.6	293.3	308.5	321.6	338.9	127.5°	277.0
249.9	249.9	249.9	247.7	245.5	245.5	247.7	252.0	260.7	269.4	278.1	130°	301.0
223.8	228.1	230.3	232.5	234.7	236.8	239.0	245.5	243.3	234.7	223.8	132.5°	325.0
195.5	195.5	197.7	197.7	195.5	195.5	195.5	195.5	195.5	202.1	208.6	135°	348.0
163.0	163.0	163.0	165.1	163.0	163.0	165.1	165.1	167.3	171.6	178.2	137.5°	369.0
147.7	147.7	147.7	147.7	147.7	147.7	147.7	149.9	152.1	158.6	163.0	140°	390.0
136.9	136.9	134.7	134.7	134.7	132.5	134.7	134.7	136.9	145.6	152.1	142.5°	412.0
126.0	123.8	123.8	123.8	121.7	121.7	121.7	126.0	128.2	132.5	139.1	145°	433.0
110.8	110.8	110.8	113.0	113.0	113.0	113.0	117.3	117.3	119.5	119.5	147.5°	452.0
99.9	99.9	102.1	104.3	104.3	106.5	106.5	108.6	110.8	108.6	106.5	150°	469.0
91.3	93.4	93.4	97.8	97.8	97.8	99.9	102.1	104.3	99.9	99.9	152.5°	486.0
86.9	86.9	86.9	89.1	89.1	89.1	91.3	93.4	95.6	95.6	95.6	155°	503.0
82.6	82.6	82.6	84.7	82.6	82.6	82.6	84.7	89.1	89.1	91.3	157.5°	517.0
80.4	80.4	80.4	78.2	78.2	78.2	78.2	80.4	82.6	86.9	89.1	160°	530.0
78.2	76.0	76.0	76.0	76.0	76.0	76.0	78.2	80.4	82.6	86.9	162.5°	540.0
73.9	73.9	73.9	73.9	73.9	73.9	73.9	76.0	78.2	80.4	82.6	165°	550.0
73.9	73.9	71.7	71.7	73.9	73.9	73.9	76.0	78.2	80.4	80.4	167.5°	558.0
71.7	69.5	69.5	71.7	71.7	71.7	71.7	73.9	76.0	78.2	78.2	170°	564.0
67.4	67.4	67.4	67.4	69.5	69.5	71.7	73.9	73.9	76.0	76.0	172.5°	567.0
63.0	65.2	65.2	65.2	67.4	67.4	69.5	71.7	73.9	76.0	73.9	175°	570.0
60.8	63.0	63.0	63.0	65.2	65.2	65.2	69.5	71.7	71.7	73.9	177.5°	574.0
58.7	58.7	58.7	60.8	60.8	63.0	63.0	67.4	67.4	69.5	71.7	180°	576.0
54.3	54.3	54.3	56.5	56.5	58.7	60.8	63.0	63.0	65.2	67.4		
50.0	50.0	50.0	52.1	52.1	54.3	56.5	60.8	58.7	60.8	60.8		
43.5	43.5	45.6	45.6	47.8	50.0	52.1	52.1	52.1	52.1	52.1		
36.9	36.9	39.1	39.1	41.3	43.5	43.5	43.5	45.6	43.5	43.5		
30.4	30.4	32.6	32.6	32.6	32.6	34.8	32.6	34.8	32.6	34.8		
21.7	21.7	23.9	21.7	23.9	21.7	21.7	19.6	23.9	21.7	21.7		
8.7	10.9	10.9	10.9	10.9	8.7	8.7	6.5	8.7	8.7	6.5		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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		

'228658
 ISC-AF-1200-LED-E1-SLR-7050-ULG

REPORT NUMBER: P228658
 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°	1518.7	1518.7
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	1321.0	1318.9
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	1069.0	1064.6
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	764.8	756.1
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	564.9	571.4
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	451.9	478.0
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	362.8	378.1
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	280.3	286.8
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	223.8	223.8
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	195.5	193.4
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	184.7	182.5
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	167.3	169.5
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	156.4	158.6
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	143.4	145.6
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	117.3	117.3
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	108.6	108.6
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	102.1	104.3
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	97.8	97.8
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	93.4	95.6
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	91.3	91.3
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	86.9	89.1
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	84.7	86.9
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	82.6	82.6
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	78.2	80.4
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	78.2	78.2
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	76.0	76.0
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	73.9	73.9
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	69.5	69.5
										70°	65.2	65.2
										72.5°	60.8	58.7
										75°	52.1	52.1
										77.5°	43.5	43.5
										80°	32.6	30.4
										82.5°	19.6	17.4
										85°	6.5	6.5
										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°
1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	112.5°	124.0	124.0	124.0
1351.4	1375.3	1390.6	1449.2	1475.3	1507.9	1523.1	1544.8	1566.5	115°	147.0	146.0	147.0
1103.8	1134.2	1160.2	1245.0	1295.0	1340.6	1377.5	1412.3	1462.3	117.5°	170.0	169.0	170.0
782.2	808.3	843.0	934.3	1021.2	1082.0	1136.3	1195.0	1260.2	120°	195.0	193.0	195.0
597.5	636.6	682.2	751.8	821.3	864.8	912.6	977.7	1056.0	122.5°	220.0	219.0	220.0
499.7	547.5	601.8	680.1	753.9	788.7	823.5	856.1	897.3	125°	246.0	244.0	246.0
395.4	441.1	506.2	597.5	684.4	723.5	764.8	803.9	840.9	127.5°	269.0	267.0	269.0
295.5	328.1	386.7	495.4	591.0	641.0	688.8	743.1	793.1	130°	292.0	290.0	292.0
226.0	241.2	282.5	367.2	484.5	547.5	608.4	677.9	749.6	132.5°	314.0	313.0	314.0
195.5	202.1	221.6	271.6	378.1	451.9	530.1	617.1	706.1	135°	337.0	336.0	337.0
180.3	184.7	195.5	219.4	295.5	373.7	454.1	558.4	667.0	137.5°	360.0	359.0	360.0
171.6	176.0	184.7	197.7	245.5	304.2	393.3	508.4	638.8	140°	383.0	382.0	383.0
160.8	165.1	180.3	195.5	223.8	260.7	336.8	449.8	595.3	142.5°	406.0	404.0	406.0
147.7	149.9	154.3	171.6	191.2	221.6	286.8	397.6	549.7	145°	426.0	425.0	426.0
119.5	126.0	134.7	152.1	171.6	195.5	256.4	362.8	521.5	147.5°	444.0	444.0	444.0
110.8	117.3	126.0	141.2	158.6	180.3	243.3	349.8	495.4	150°	462.0	461.0	462.0
104.3	110.8	119.5	136.9	147.7	173.8	236.8	330.3	469.3	152.5°	480.0	479.0	480.0
99.9	106.5	117.3	130.4	145.6	169.5	219.4	312.9	454.1	155°	500.0	499.0	500.0
95.6	102.1	115.2	126.0	147.7	160.8	208.6	299.8	441.1	157.5°	515.0	513.0	515.0
93.4	99.9	113.0	128.2	143.4	152.1	197.7	289.0	430.2	160°	527.0	525.0	527.0
91.3	97.8	110.8	141.2	136.9	145.6	189.0	280.3	423.7	162.5°	536.0	535.0	536.0
89.1	95.6	110.8	143.4	132.5	136.9	182.5	271.6	419.3	165°	547.0	546.0	547.0
84.7	93.4	110.8	132.5	123.8	132.5	169.5	258.6	408.5	167.5°	556.0	555.0	556.0
82.6	89.1	108.6	121.7	117.3	126.0	156.4	236.8	393.3	170°	563.0	562.0	563.0
80.4	86.9	108.6	108.6	110.8	119.5	141.2	210.8	367.2	172.5°	566.0	565.0	566.0
78.2	86.9	110.8	97.8	104.3	113.0	130.4	189.0	334.6	175°	569.0	567.0	569.0
76.0	82.6	95.6	93.4	99.9	106.5	126.0	173.8	306.4	177.5°	573.0	572.0	573.0
71.7	78.2	84.7	86.9	95.6	102.1	123.8	171.6	280.3	180°	576.0	576.0	576.0
65.2	71.7	76.0	82.6	89.1	97.8	123.8	169.5	260.7				
60.8	65.2	69.5	73.9	80.4	91.3	121.7	171.6	252.0				
52.1	56.5	60.8	65.2	71.7	84.7	115.2	160.8	226.0				
41.3	47.8	52.1	54.3	60.8	73.9	99.9	136.9	182.5				
30.4	36.9	39.1	43.5	47.8	56.5	78.2	99.9	134.7				
17.4	23.9	26.1	28.2	36.9	41.3	52.1	65.2	91.3				
6.5	10.9	13.0	15.2	21.7	23.9	32.6	41.3	47.8				
0.0	0.0	0.0	0.0	4.3	6.5	10.9	13.0	10.9				
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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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°	1518.7	1518.7	1518.7	1518.7
149.0	151.0	154.0	156.0	157.0	158.0	158.0	158.0	2.5°	1592.6	1614.3	1642.6	1668.7
172.0	174.0	177.0	179.0	179.5	180.0	180.5	181.0	5°	1501.4	1542.6	1603.5	1653.5
196.0	198.0	201.0	202.0	203.0	204.0	204.0	204.0	7.5°	1316.7	1373.2	1449.2	1518.7
221.0	223.0	226.0	227.0	227.5	228.0	228.0	228.0	10°	1123.3	1201.5	1281.9	1371.0
247.0	248.0	251.0	252.0	252.5	253.0	253.5	254.0	12.5°	964.7	1053.8	1145.0	1255.8
270.0	272.0	274.0	276.0	277.0	278.0	277.5	277.0	15°	897.3	975.6	1082.0	1203.7
293.0	294.0	298.0	299.0	300.0	301.0	301.0	301.0	17.5°	869.1	969.0	1090.7	1218.9
317.0	318.0	321.0	322.0	323.5	325.0	325.0	325.0	20°	838.7	975.6	1138.5	1295.0
339.0	341.0	345.0	345.0	346.5	348.0	348.0	348.0	22.5°	821.3	997.3	1199.4	1418.8
363.0	364.0	367.0	367.0	368.0	369.0	369.0	369.0	25°	817.0	1047.3	1303.6	1594.8
385.0	386.0	388.0	389.0	389.5	390.0	390.0	390.0	27.5°	821.3	1103.8	1434.0	1783.8
408.0	407.0	410.0	410.0	411.0	412.0	412.0	412.0	30°	801.7	1162.4	1564.4	1948.9
428.0	428.0	431.0	432.0	433.0	434.0	433.5	433.0	32.5°	769.2	1205.9	1679.5	2081.5
447.0	448.0	452.0	453.0	453.5	454.0	453.0	452.0	35°	732.2	1225.4	1762.1	2205.3
464.0	465.0	469.0	470.0	470.5	471.0	470.0	469.0	37.5°	693.1	1227.6	1840.3	2335.7
483.0	482.0	485.0	486.0	486.5	487.0	486.5	486.0	40°	671.4	1218.9	1920.7	2496.5
502.0	501.0	503.0	503.0	503.5	504.0	503.5	503.0	42.5°	662.7	1203.7	1979.4	2618.2
517.0	516.0	519.0	519.0	519.0	519.0	518.0	517.0	45°	662.7	1188.5	2033.7	2709.4
529.0	529.0	532.0	532.0	532.0	532.0	531.0	530.0	47.5°	664.9	1195.0	2098.9	2857.2
539.0	538.0	541.0	541.0	541.5	542.0	541.0	540.0	50°	675.7	1268.9	2209.7	3020.1
549.0	548.0	552.0	552.0	552.5	553.0	551.5	550.0	52.5°	693.1	1386.2	2400.9	3213.5
559.0	558.0	561.0	560.0	560.0	560.0	559.0	558.0	55°	710.5	1505.7	2650.7	3537.2
566.0	565.0	567.0	566.0	565.5	565.0	564.5	564.0	57.5°	725.7	1594.8	2894.1	3858.8
569.0	567.0	569.0	568.0	568.5	569.0	568.0	567.0	60°	740.9	1664.3	3035.3	4002.2
570.0	569.0	572.0	572.0	572.5	573.0	571.5	570.0	62.5°	732.2	1638.2	3074.4	3930.5
575.0	574.0	578.0	577.0	577.0	577.0	575.5	574.0	65°	699.6	1501.4	2950.6	3682.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	610.5	1262.4	2570.4	3291.7
								70°	506.2	990.8	2096.7	2802.8
								72.5°	425.9	740.9	1612.2	2170.6
								75°	354.2	523.6	1134.2	1494.8
								77.5°	262.9	356.3	821.3	1045.1
								80°	176.0	219.4	523.6	730.0
								82.5°	106.5	128.2	302.0	510.6
								85°	58.7	80.4	184.7	334.6
								87.5°	15.2	17.4	41.3	15.2
								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°
1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	112.5°	135.5	135.0	136.0	137.0	135.0
1688.2	1705.6	1727.3	1727.3	1753.4	1762.1	1779.5	115°	158.0	158.0	159.0	160.0	159.0
1714.3	1773.0	1827.3	1857.7	1909.8	1944.6	1979.4	117.5°	180.5	180.0	181.0	182.0	180.0
1607.8	1703.4	1792.5	1875.1	1962.0	2035.9	2090.2	120°	204.0	204.0	205.0	206.0	204.0
1466.6	1568.7	1677.4	1788.2	1892.5	1996.7	2085.8	122.5°	228.5	229.0	231.0	233.0	232.0
1366.7	1475.3	1603.5	1699.1	1807.7	1912.0	1998.9	125°	254.0	254.0	255.5	257.0	256.0
1321.0	1431.8	1551.3	1649.1	1751.2	1836.0	1896.8	127.5°	277.5	278.0	279.5	281.0	278.0
1344.9	1479.6	1586.1	1668.7	1744.7	1783.8	1792.5	130°	301.5	302.0	303.5	305.0	303.0
1449.2	1590.4	1668.7	1723.0	1736.0	1733.8	1701.3	132.5°	325.5	326.0	327.5	329.0	327.0
1612.2	1777.3	1831.6	1820.8	1766.4	1696.9	1642.6	135°	348.5	349.0	350.0	351.0	350.0
1831.6	1996.7	2027.2	1966.3	1844.7	1709.9	1618.7	137.5°	369.5	370.0	372.0	374.0	372.0
2061.9	2231.4	2220.5	2129.3	1955.5	1766.4	1620.9	140°	391.0	392.0	394.0	396.0	394.0
2224.9	2366.1	2322.7	2185.8	1992.4	1803.4	1649.1	142.5°	412.5	413.0	414.5	416.0	415.0
2394.4	2500.8	2422.6	2274.9	2075.0	1881.6	1723.0	145°	433.5	434.0	435.5	437.0	435.0
2576.9	2633.4	2507.3	2357.4	2174.9	1979.4	1807.7	147.5°	452.5	453.0	454.5	456.0	453.0
2752.9	2776.8	2594.3	2433.5	2255.3	2079.3	1922.9	150°	469.0	469.0	471.0	473.0	470.0
2941.9	2909.3	2685.5	2496.5	2320.5	2185.8	2057.6	152.5°	486.0	486.0	487.5	489.0	486.0
3104.8	3033.1	2770.2	2559.5	2400.9	2287.9	2198.8	155°	503.5	504.0	505.5	507.0	505.0
3226.5	3133.1	2850.6	2620.3	2479.1	2409.6	2366.1	157.5°	517.5	518.0	520.5	523.0	520.0
3330.8	3228.7	2913.6	2709.4	2587.7	2561.7	2576.9	160°	530.0	530.0	531.5	533.0	531.0
3461.2	3330.8	2998.4	2809.4	2735.5	2761.6	2848.5	162.5°	539.0	538.0	539.0	540.0	537.0
3663.2	3493.8	3139.6	2952.8	2918.0	3011.4	3176.5	165°	549.0	548.0	549.0	550.0	548.0
3989.2	3789.3	3389.5	3202.6	3161.3	3304.7	3541.6	167.5°	558.5	559.0	561.0	563.0	561.0
4271.6	4119.5	3719.7	3493.8	3476.4	3630.7	3889.2	170°	565.0	566.0	568.5	571.0	569.0
4399.8	4384.6	4060.9	3852.3	3826.2	3969.6	4215.1	172.5°	567.5	568.0	569.5	571.0	568.0
4388.9	4515.0	4339.0	4191.2	4102.1	4221.6	4460.6	175°	569.0	568.0	569.5	571.0	568.0
4230.3	4436.7	4451.9	4417.2	4256.4	4265.1	4434.6	177.5°	574.0	574.0	575.5	577.0	574.0
3919.6	4165.1	4421.5	4410.7	4206.4	4026.1	4060.9	180°	576.0	576.0	576.0	576.0	576.0
3478.6	3689.3	4097.8	4180.4	3889.2	3552.4	3393.8						
2787.6	3033.1	3639.3	3754.5	3356.9	2883.2	2637.7						
1922.9	2246.6	3176.5	3187.4	2724.6	2268.3	2003.3						
1321.0	1599.1	2568.2	2596.4	2161.9	1720.8	1492.7						
888.7	1071.2	1883.8	1764.3	1427.5	1192.8	1134.2						
560.6	667.0	1184.1	1105.9	940.8	860.4	882.1						
260.7	365.0	647.5	632.3	593.2	519.3	451.9						
6.5	19.6	126.0	82.6	82.6	47.8	17.4						
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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
160.0	159.0	158.0	158.0	158.0	158.0	2.5°	1764.3	1770.8	1768.6	1753.4	1714.3	1699.1
182.0	181.0	180.0	180.5	181.0	180.5	5°	1977.2	1988.1	1975.0	1938.1	1838.1	1790.3
206.0	205.0	204.0	204.0	204.0	204.0	7.5°	2127.1	2135.8	2114.1	2029.3	1851.2	1770.8
233.0	231.0	229.0	228.5	228.0	228.0	10°	2155.4	2174.9	2151.0	2029.3	1822.9	1723.0
257.0	255.5	254.0	254.0	254.0	253.5	12.5°	2075.0	2116.3	2098.9	2009.8	1809.9	1703.4
281.0	279.5	278.0	277.5	277.0	277.5	15°	1951.1	1955.5	1966.3	1964.2	1786.0	1681.7
305.0	303.5	302.0	301.5	301.0	301.0	17.5°	1814.2	1809.9	1822.9	1864.2	1779.5	1696.9
329.0	327.5	326.0	325.5	325.0	325.0	20°	1690.4	1683.9	1696.9	1738.2	1753.4	1733.8
351.0	350.0	349.0	348.5	348.0	348.0	22.5°	1612.2	1590.4	1588.3	1649.1	1766.4	1818.6
374.0	372.0	370.0	369.5	369.0	369.0	25°	1568.7	1544.8	1555.7	1625.2	1820.8	1918.5
396.0	394.0	392.0	391.0	390.0	390.0	27.5°	1555.7	1529.6	1544.8	1623.0	1877.2	2040.2
416.0	414.5	413.0	412.5	412.0	412.0	30°	1564.4	1538.3	1544.8	1638.2	1905.5	2068.5
437.0	435.5	434.0	433.5	433.0	433.5	32.5°	1614.3	1568.7	1564.4	1683.9	1957.6	2131.5
456.0	454.5	453.0	452.5	452.0	453.0	35°	1681.7	1616.5	1607.8	1757.7	2025.0	2211.9
473.0	471.0	469.0	469.0	469.0	470.0	37.5°	1794.7	1714.3	1701.3	1881.6	2116.3	2279.2
489.0	487.5	486.0	486.0	486.0	486.5	40°	1946.8	1866.4	1866.4	2040.2	2240.1	2372.6
507.0	505.5	504.0	503.5	503.0	503.5	42.5°	2118.4	2066.3	2075.0	2231.4	2381.3	2490.0
523.0	520.5	518.0	517.5	517.0	518.0	45°	2346.6	2318.3	2361.8	2472.6	2524.7	2598.6
533.0	531.5	530.0	530.0	530.0	531.0	47.5°	2613.8	2637.7	2698.5	2733.3	2670.3	2709.4
540.0	539.0	538.0	539.0	540.0	541.0	50°	2948.4	3011.4	3070.1	3061.4	2850.6	2837.6
550.0	549.0	548.0	549.0	550.0	551.5	52.5°	3333.0	3415.6	3456.8	3409.0	3052.7	2976.7
563.0	561.0	559.0	558.5	558.0	559.0	55°	3724.1	3824.0	3811.0	3756.7	3272.1	3170.0
571.0	568.5	566.0	565.0	564.0	564.5	57.5°	4078.2	4156.5	4191.2	4073.9	3539.4	3404.7
571.0	569.5	568.0	567.5	567.0	568.0	60°	4358.5	4443.3	4443.3	4328.1	3830.5	3674.1
571.0	569.5	568.0	569.0	570.0	571.5	62.5°	4562.8	4630.1	4606.2	4495.4	4080.4	3960.9
577.0	575.5	574.0	574.0	574.0	575.5	65°	4547.5	4554.1	4528.0	4486.7	4230.3	4217.3
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	4119.5	4121.7	4173.8	4156.5	4117.3	4278.1
						70°	3376.4	3411.2	3500.3	3474.2	3674.1	4004.4
						72.5°	2570.4	2592.1	2698.5	2674.6	2946.2	3309.1
						75°	1870.7	1868.6	1914.2	1879.4	2222.7	2626.8
						77.5°	1440.5	1401.4	1392.7	1397.1	1575.2	1909.8
						80°	1162.4	1162.4	1149.4	1101.6	964.7	1116.8
						82.5°	927.8	890.8	825.6	732.2	619.2	660.5
						85°	462.8	449.8	393.3	325.9	271.6	360.7
						87.5°	2.2	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°
1518.7	1518.7	1518.7	1518.7	1518.7	112.5°	136.0	135.0	134.0	132.0	129.0	127.5	126.8
1692.6	1675.2	1655.6	1655.6	1638.2	115°	158.0	157.0	156.0	154.0	151.0	150.0	149.5
1762.1	1727.3	1699.1	1673.0	1646.9	117.5°	180.0	179.5	179.0	177.0	174.0	173.0	172.5
1727.3	1686.0	1651.3	1605.7	1564.4	120°	204.0	203.0	202.0	201.0	198.0	197.0	196.5
1675.2	1629.6	1579.6	1531.8	1473.1	122.5°	228.0	227.5	227.0	226.0	223.0	222.0	221.5
1646.9	1592.6	1531.8	1481.8	1414.5	125°	253.0	252.5	252.0	251.0	248.0	247.5	247.2
1625.2	1568.7	1514.4	1466.6	1407.9	127.5°	278.0	277.0	276.0	274.0	272.0	271.0	270.5
1660.0	1605.7	1566.5	1512.2	1466.6	130°	301.0	300.0	299.0	298.0	294.0	293.5	293.2
1718.6	1686.0	1655.6	1620.9	1583.9	132.5°	325.0	323.5	322.0	321.0	318.0	317.5	317.2
1829.4	1825.1	1822.9	1796.9	1770.8	135°	348.0	346.5	345.0	345.0	341.0	340.0	339.5
1968.5	1985.9	2009.8	2009.8	2009.8	137.5°	369.0	368.0	367.0	367.0	364.0	363.5	363.2
2111.9	2155.4	2201.0	2220.5	2233.6	140°	390.0	389.5	389.0	388.0	386.0	385.5	385.2
2153.2	2216.2	2287.9	2335.7	2368.3	142.5°	412.0	411.0	410.0	410.0	407.0	407.5	407.8
2220.5	2292.2	2372.6	2427.0	2485.6	145°	434.0	433.0	432.0	431.0	428.0	428.0	428.0
2300.9	2363.9	2446.5	2520.4	2605.1	147.5°	454.0	453.5	453.0	452.0	448.0	447.5	447.2
2368.3	2450.9	2539.9	2635.5	2744.2	150°	471.0	470.5	470.0	469.0	465.0	464.5	464.2
2470.4	2557.3	2655.1	2783.3	2915.8	152.5°	487.0	486.5	486.0	485.0	482.0	482.5	482.8
2583.4	2676.8	2778.9	2907.1	3061.4	155°	504.0	503.5	503.0	503.0	501.0	501.5	501.8
2681.2	2763.7	2874.5	3007.1	3183.1	157.5°	519.0	519.0	519.0	519.0	516.0	516.5	516.8
2774.6	2850.6	2981.0	3115.7	3289.5	160°	532.0	532.0	532.0	532.0	529.0	529.0	529.0
2898.4	2957.1	3087.5	3241.7	3426.4	162.5°	542.0	541.5	541.0	541.0	538.0	538.5	538.8
3026.6	3107.0	3250.4	3426.4	3632.8	165°	553.0	552.5	552.0	552.0	548.0	548.5	548.8
3200.4	3296.0	3472.0	3671.9	3932.7	167.5°	560.0	560.0	560.0	561.0	558.0	558.5	558.8
3439.5	3539.4	3726.3	3950.0	4217.3	170°	565.0	565.5	566.0	567.0	565.0	565.5	565.8
3732.8	3830.5	3991.3	4212.9	4462.8	172.5°	569.0	568.5	568.0	569.0	567.0	568.0	568.5
4006.5	4141.2	4286.8	4451.9	4649.7	175°	573.0	572.5	572.0	572.0	569.0	569.5	569.8
4304.2	4408.5	4530.2	4593.2	4704.0	177.5°	577.0	577.0	577.0	578.0	574.0	574.5	574.8
4391.1	4478.0	4584.5	4584.5	4571.4	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
4134.7	4267.3	4360.7	4360.7	4249.9								
3595.9	3817.5	3908.8	3965.3	3824.0								
2922.3	3198.3	3348.2	3396.0	3139.6								
2144.5	2320.5	2340.0	2346.6	2001.1								
1236.3	1375.3	1425.3	1497.0	1199.4								
717.0	769.2	853.9	884.3	730.0								
402.0	406.3	406.3	375.9	306.4								
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								
2.2	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-7050-ULG

CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°		355°	359°	360°
126.0	125.5	125.0	124.5	0°	1518.7	1518.7	1518.7
149.0	148.5	148.0	147.5	2.5°	1633.9	1607.8	1612.2
172.0	171.5	171.0	170.5	5°	1610.0	1573.1	1560.0
196.0	195.8	195.5	195.2	7.5°	1527.4	1464.4	1444.9
221.0	220.8	220.5	220.2	10°	1427.5	1347.1	1331.9
247.0	246.8	246.5	246.2	12.5°	1371.0	1279.7	1260.2
270.0	269.8	269.5	269.2	15°	1353.6	1266.7	1245.0
293.0	292.8	292.5	292.2	17.5°	1405.8	1312.3	1286.3
317.0	316.2	315.5	314.8	20°	1525.3	1414.5	1384.0
339.0	338.5	338.0	337.5	22.5°	1703.4	1577.4	1540.5
363.0	362.2	361.5	360.8	25°	1944.6	1801.2	1764.3
385.0	384.5	384.0	383.5	27.5°	2192.3	2020.6	1972.8
408.0	407.5	407.0	406.5	30°	2335.7	2177.1	2129.3
428.0	427.5	427.0	426.5	32.5°	2481.3	2329.2	2272.7
447.0	446.2	445.5	444.8	35°	2635.5	2481.3	2424.8
464.0	463.5	463.0	462.5	37.5°	2815.9	2685.5	2635.5
483.0	482.2	481.5	480.8	40°	3031.0	2911.5	2839.8
502.0	501.5	501.0	500.5	42.5°	3209.1	3098.3	3031.0
517.0	516.5	516.0	515.5	45°	3339.5	3246.1	3176.5
529.0	528.5	528.0	527.5	47.5°	3459.0	3387.3	3317.8
539.0	538.2	537.5	536.8	50°	3608.9	3548.1	3500.3
549.0	548.5	548.0	547.5	52.5°	3811.0	3789.3	3748.0
559.0	558.2	557.5	556.8	55°	4108.7	4156.5	4097.8
566.0	565.2	564.5	563.8	57.5°	4391.1	4425.9	4399.8
569.0	568.2	567.5	566.8	60°	4612.7	4564.9	4532.3
570.0	569.8	569.5	569.2	62.5°	4725.7	4608.4	4554.1
575.0	574.5	574.0	573.5	65°	4732.2	4551.9	4469.3
576.0	576.0	576.0	576.0	67.5°	4584.5	4373.7	4278.1
				70°	4186.9	3943.5	3817.5
				72.5°	3517.7	3144.0	3059.2
				75°	2579.0	2120.6	2070.6
				77.5°	1562.2	1218.9	1153.7
				80°	880.0	699.6	677.9
				82.5°	499.7	393.3	415.0
				85°	204.2	102.1	113.0
				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)