

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: P228521

Luminaire Tested: **ISC-AF-350-LED-E1-SLL-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228521
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-350-LED-E1-SLL-8030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, 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: 3050.2 lumens
Efficiency: N/A
Efficacy: 82.9 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: B0 - U5 - G1

Input Watts (W): 36.79
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

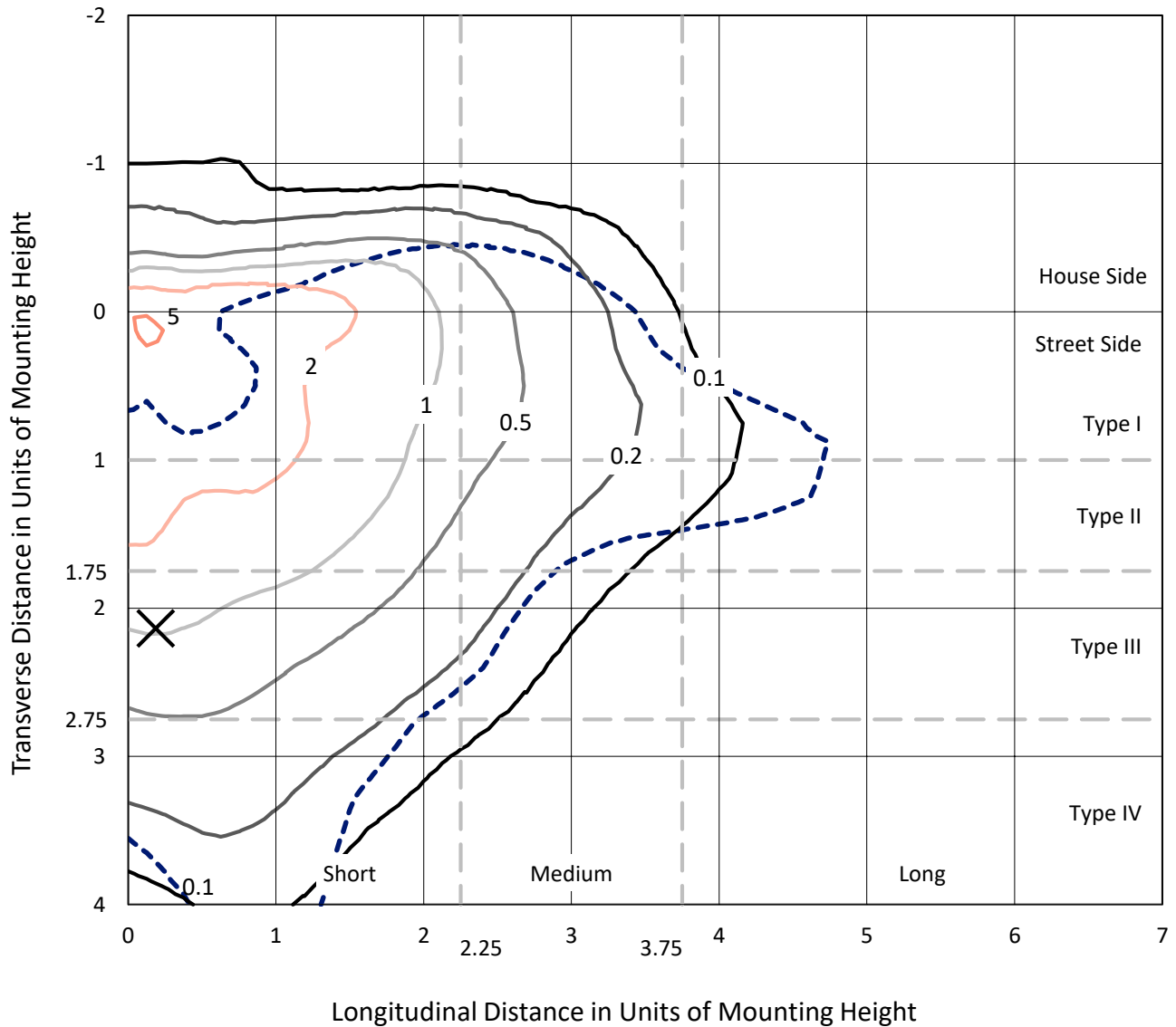


REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

Iso-Footcandle Lines of Horizontal Illumination

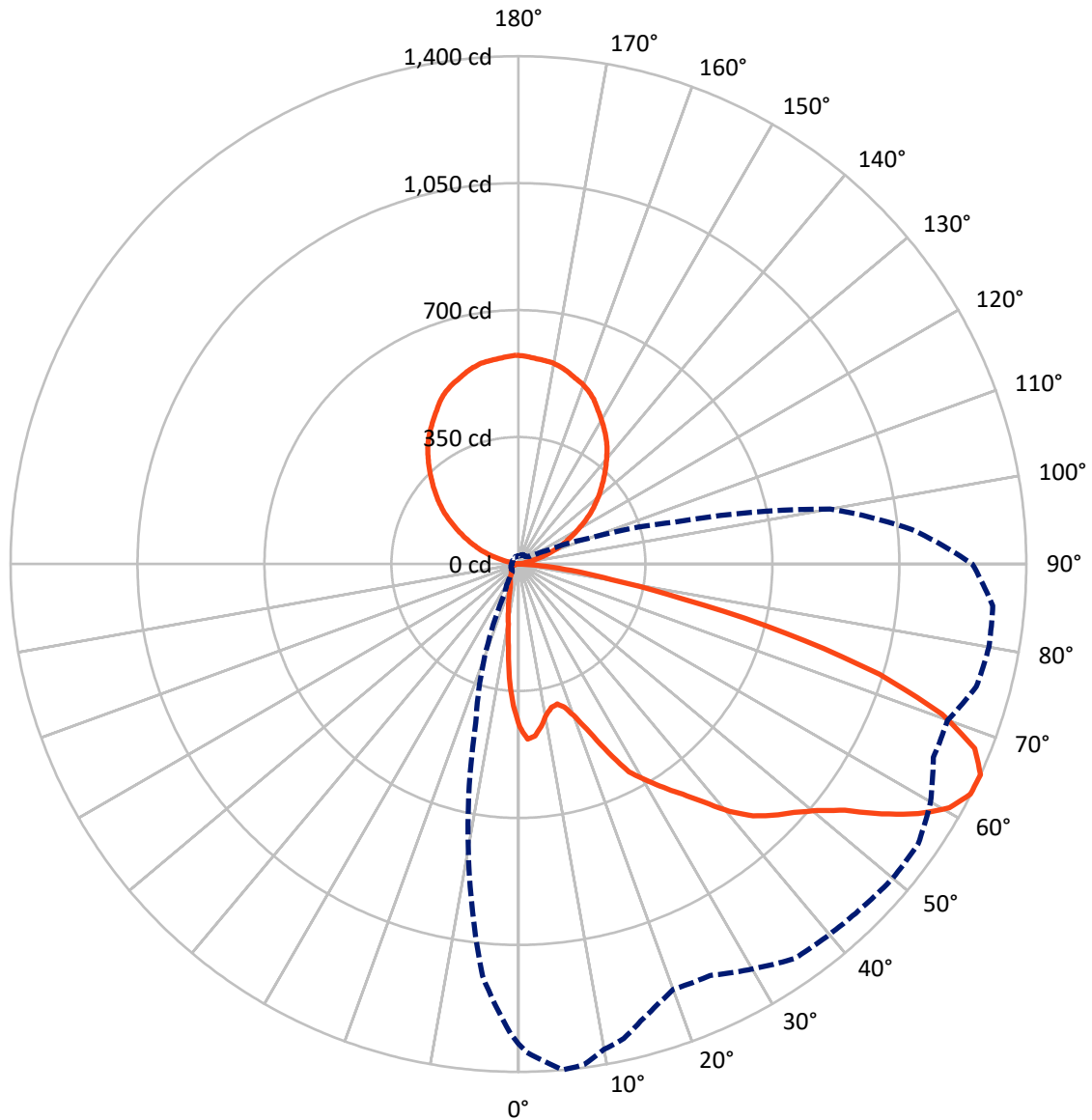
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228521
CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

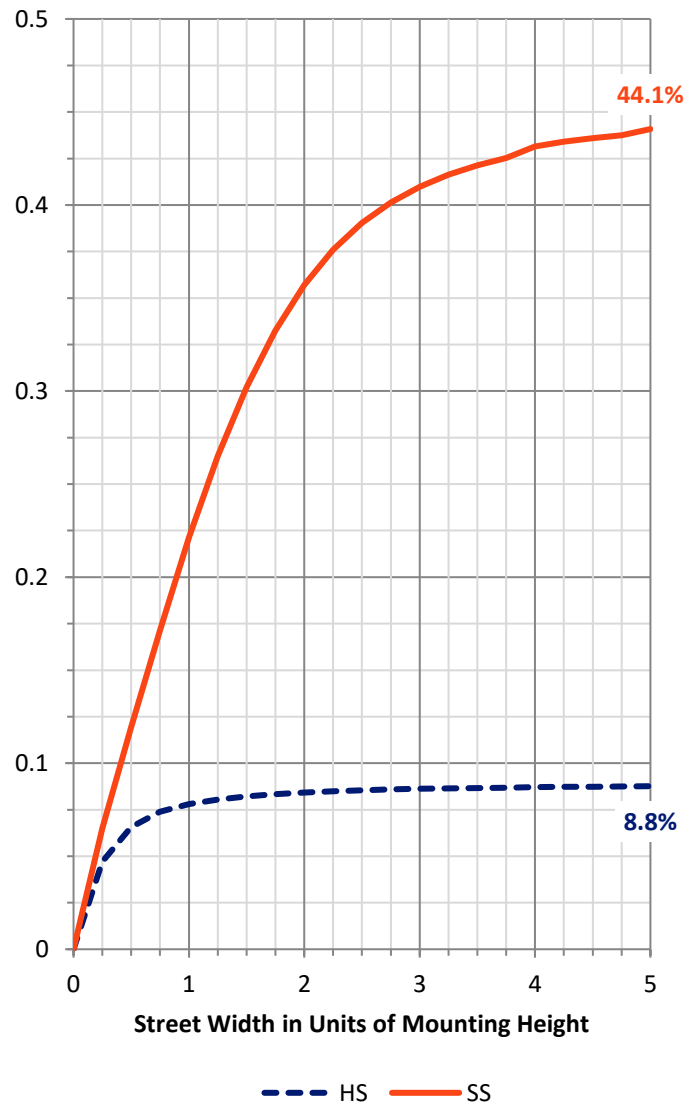
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	270.0	713.1	983.1
	% Fixture	8.9	23.4	32.2
Street Side	Lumens	1354.0	713.1	2067.0
	% Fixture	44.4	23.4	67.8
Total	Lumens	1624.0	1426.2	3050.2
	% Fixture	53.2	46.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	1.1
10°-20°	71.1	2.3
20°-30°	103.4	3.4
30°-40°	152.9	5.0
40°-50°	222.8	7.3
50°-60°	333.9	10.9
60°-70°	416.1	13.6
70°-80°	243.7	8.0
80°-90°	45.6	1.5
90°-100°	4.7	0.2
100°-110°	69.0	2.3
110°-120°	153.0	5.0
120°-130°	223.9	7.3
130°-140°	265.6	8.7
140°-150°	269.3	8.8
150°-160°	231.1	7.6
160°-170°	155.1	5.1
170°-180°	54.3	1.8
0°-90°	1624.0	53.2
0°-180°	3050.2	100.0



REPORT NUMBER: P228521

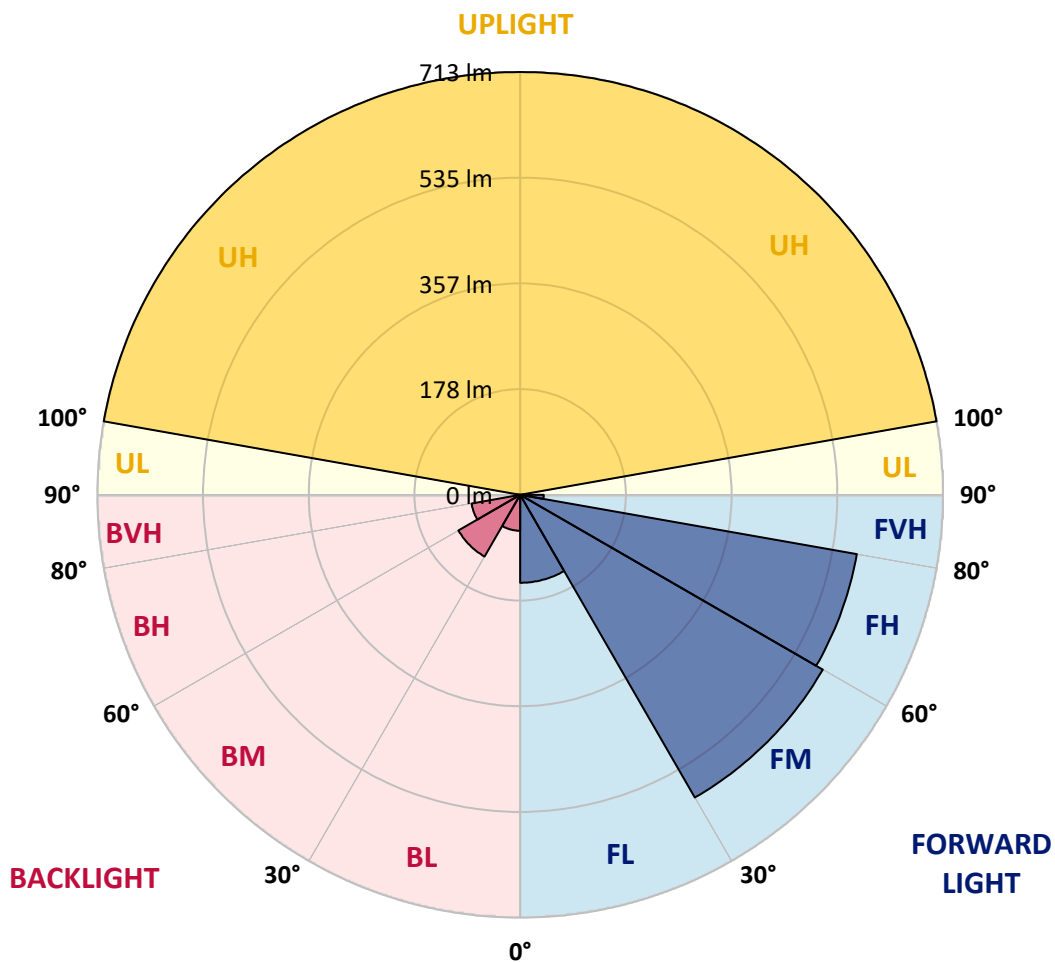
CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	148.4	4.9			
FM (30°-60°)	589.4	19.3			
FH (60°-80°)	576.5	18.9			G0/660
FVH (80°-90°)	39.7	1.3			G1/100
BL (0°-30°)	60.6	2.0	B0/110		
BM (30°-60°)	120.2	3.9	B0/220		
BH (60°-80°)	83.3	2.7	B0/110		G0/110
BVH (80°-90°)	5.9	0.2			G0/10
UL (90°-100°)	4.7	0.2		U1/10	
UH (100°-180°)	713.1	23.4		U4/1000	

BUG Rating: B0-U5-G1

Type IV Short





REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4
2.5°	477.1	475.8	483.5	484.8	489.9	489.9	495.7	500.9	502.8	507.3	518.9
5°	461.6	465.5	476.4	487.4	495.1	502.8	511.1	521.4	529.8	543.9	573.5
7.5°	427.6	433.4	452.0	462.9	475.1	488.6	498.9	511.1	524.0	547.8	600.5
10°	394.1	398.6	422.4	435.9	453.3	467.4	482.2	495.7	509.9	539.4	600.5
12.5°	372.9	378.7	405.7	418.6	438.5	453.3	471.3	487.4	504.1	535.6	594.7
15°	368.4	374.8	400.6	416.6	434.0	448.1	464.2	480.9	497.6	528.5	581.2
17.5°	380.6	388.3	416.0	434.0	447.5	463.6	475.1	491.2	502.1	526.6	551.7
20°	409.6	418.6	451.4	468.7	479.6	489.9	498.9	508.6	513.1	518.9	514.4
22.5°	455.9	466.8	504.1	524.0	531.7	539.4	540.1	541.4	538.2	522.7	488.0
25°	522.1	533.0	575.4	594.7	594.7	594.7	587.7	582.5	567.7	538.8	480.9
27.5°	583.8	597.9	648.7	661.0	657.1	651.3	637.8	625.0	603.7	555.5	480.3
30°	630.1	644.2	691.2	700.8	691.2	677.0	655.8	637.2	612.1	563.9	484.8
32.5°	672.5	689.2	734.3	735.5	718.2	702.1	678.3	657.1	630.7	579.3	498.3
35°	717.5	734.3	779.9	770.9	745.8	724.0	699.5	680.9	654.5	599.2	520.1
37.5°	779.9	794.7	833.3	812.1	779.9	751.6	725.3	700.8	674.5	626.2	556.8
40°	840.3	861.6	896.9	862.8	823.6	785.7	756.8	731.0	702.1	662.9	603.7
42.5°	896.9	916.9	949.6	905.9	860.3	822.3	792.1	764.5	736.8	704.7	660.3
45°	940.0	960.6	988.2	941.9	889.8	850.6	817.8	793.4	769.0	747.1	731.7
47.5°	981.8	1002.4	1023.6	973.4	922.0	882.1	843.6	821.1	801.8	790.2	808.8
50°	1035.8	1049.9	1067.9	1013.9	959.3	913.6	875.1	857.7	839.7	843.6	905.9
52.5°	1109.1	1121.3	1127.7	1075.0	1013.9	961.9	919.4	895.6	880.8	903.4	1008.8
55°	1212.6	1230.0	1215.8	1163.7	1086.6	1027.4	975.4	947.1	938.1	968.3	1111.7
57.5°	1302.0	1309.7	1299.4	1248.0	1168.9	1102.7	1047.4	1017.8	1007.5	1047.4	1205.5
60°	1341.2	1350.8	1365.0	1320.6	1246.7	1181.1	1133.5	1104.6	1087.2	1133.5	1280.8
62.5°	1347.6	1363.7	1398.4	1375.9	1317.4	1268.5	1225.5	1185.6	1172.1	1207.5	1330.3
65°	1322.6	1347.0	1400.4	1392.0	1359.2	1340.6	1304.6	1273.7	1248.0	1251.8	1327.7
67.5°	1266.0	1294.3	1356.6	1352.8	1356.6	1356.6	1325.1	1299.4	1266.0	1218.4	1230.0
70°	1129.7	1167.0	1239.0	1257.6	1290.4	1290.4	1262.8	1223.5	1185.0	1087.2	1028.1
72.5°	905.3	930.4	1040.9	1131.6	1173.4	1156.7	1129.7	1064.1	979.2	871.8	791.5
75°	612.7	627.5	763.2	929.1	1004.9	990.8	946.4	864.8	777.3	657.7	556.2
77.5°	341.4	360.7	462.3	592.2	694.4	692.5	686.7	634.6	565.2	466.1	413.4
80°	200.6	207.0	260.4	354.9	443.0	421.8	407.0	365.8	330.5	285.5	326.0
82.5°	122.8	116.4	147.9	216.0	261.7	252.7	227.6	212.2	195.5	183.2	216.7
85°	33.4	30.2	60.4	90.7	111.2	120.2	120.2	118.9	106.7	80.4	96.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.5	3.0	4.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	14.0	22.0
102.5°	28.0	28.0	28.0	29.0	30.0	31.0	32.0	33.5	35.0	38.0	45.0
105°	54.0	54.0	54.0	54.5	55.0	55.5	56.0	57.2	58.5	61.0	66.0
107.5°	78.0	77.8	77.0	77.8	78.5	79.2	80.0	81.0	82.0	84.0	88.0
110°	101.0	101.2	102.0	102.2	102.5	102.8	103.0	103.8	104.5	106.0	110.0



REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
112.5°	124.0	124.0	124.0	124.5	125.0	125.5	126.0	126.8	127.5	129.0	132.0
115°	146.0	146.2	147.0	147.5	148.0	148.5	149.0	149.5	150.0	151.0	154.0
117.5°	169.0	169.2	170.0	170.5	171.0	171.5	172.0	172.5	173.0	174.0	177.0
120°	193.0	193.4	195.0	195.2	195.5	195.8	196.0	196.5	197.0	198.0	201.0
122.5°	219.0	219.2	220.0	220.2	220.5	220.8	221.0	221.5	222.0	223.0	226.0
125°	244.0	244.4	246.0	246.2	246.5	246.8	247.0	247.2	247.5	248.0	251.0
127.5°	267.0	267.4	269.0	269.2	269.5	269.8	270.0	270.5	271.0	272.0	274.0
130°	290.0	290.4	292.0	292.2	292.5	292.8	293.0	293.2	293.5	294.0	298.0
132.5°	313.0	313.2	314.0	314.8	315.5	316.2	317.0	317.2	317.5	318.0	321.0
135°	336.0	336.2	337.0	337.5	338.0	338.5	339.0	339.5	340.0	341.0	345.0
137.5°	359.0	359.2	360.0	360.8	361.5	362.2	363.0	363.2	363.5	364.0	367.0
140°	382.0	382.2	383.0	383.5	384.0	384.5	385.0	385.2	385.5	386.0	388.0
142.5°	404.0	404.4	406.0	406.5	407.0	407.5	408.0	407.8	407.5	407.0	410.0
145°	425.0	425.2	426.0	426.5	427.0	427.5	428.0	428.0	428.0	428.0	431.0
147.5°	444.0	444.0	444.0	444.8	445.5	446.2	447.0	447.2	447.5	448.0	452.0
150°	461.0	461.2	462.0	462.5	463.0	463.5	464.0	464.2	464.5	465.0	469.0
152.5°	479.0	479.2	480.0	480.8	481.5	482.2	483.0	482.8	482.5	482.0	485.0
155°	499.0	499.2	500.0	500.5	501.0	501.5	502.0	501.8	501.5	501.0	503.0
157.5°	513.0	513.4	515.0	515.5	516.0	516.5	517.0	516.8	516.5	516.0	519.0
160°	525.0	525.4	527.0	527.5	528.0	528.5	529.0	529.0	529.0	529.0	532.0
162.5°	535.0	535.2	536.0	536.8	537.5	538.2	539.0	538.8	538.5	538.0	541.0
165°	546.0	546.2	547.0	547.5	548.0	548.5	549.0	548.8	548.5	548.0	552.0
167.5°	555.0	555.2	556.0	556.8	557.5	558.2	559.0	558.8	558.5	558.0	561.0
170°	562.0	562.2	563.0	563.8	564.5	565.2	566.0	565.8	565.5	565.0	567.0
172.5°	565.0	565.2	566.0	566.8	567.5	568.2	569.0	568.5	568.0	567.0	569.0
175°	567.0	567.4	569.0	569.2	569.5	569.8	570.0	569.8	569.5	569.0	572.0
177.5°	572.0	572.2	573.0	573.5	574.0	574.5	575.0	574.8	574.5	574.0	578.0
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: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4
2.5°	523.4	524.0	522.1	526.6	521.4	518.9	511.1	511.1	504.7	499.6	493.8
5°	584.4	588.3	585.1	585.7	575.4	565.2	549.7	540.7	524.7	507.3	489.3
7.5°	625.6	632.0	629.5	618.5	602.4	580.6	554.9	530.4	504.1	475.8	449.4
10°	636.5	643.6	637.8	617.2	590.9	560.0	529.2	496.4	464.2	434.0	405.7
12.5°	621.1	626.2	614.0	591.5	565.8	534.9	502.8	474.5	436.6	404.4	371.6
15°	581.9	578.7	577.4	561.3	543.3	518.2	488.0	459.1	423.7	390.9	356.2
17.5°	539.4	535.6	536.9	530.4	527.9	516.3	493.8	469.4	437.9	398.0	360.7
20°	502.1	498.3	500.2	503.4	513.1	513.7	509.9	493.8	470.6	428.9	383.2
22.5°	470.0	470.6	477.1	486.1	502.1	522.7	538.8	542.0	525.9	477.1	419.8
25°	460.4	457.1	464.2	479.0	506.0	545.9	581.9	599.9	590.9	542.0	471.9
27.5°	457.1	452.6	460.4	479.6	522.7	578.7	630.1	657.1	660.3	610.2	527.9
30°	457.1	455.2	462.9	488.0	533.7	589.6	646.8	687.3	700.2	658.4	576.7
32.5°	462.9	464.2	477.7	509.9	556.8	614.0	673.2	716.9	740.0	708.5	616.0
35°	475.8	478.4	497.6	534.9	585.7	643.6	697.6	742.0	779.3	762.5	652.6
37.5°	503.4	507.3	531.1	569.0	615.3	667.4	720.1	767.7	821.7	814.6	691.2
40°	552.3	552.3	576.1	608.9	646.8	686.7	738.8	794.7	860.9	870.6	738.8
42.5°	614.0	611.4	626.9	650.7	677.0	710.5	757.4	819.8	897.6	918.8	774.8
45°	698.9	686.0	694.4	700.2	713.0	733.6	775.4	843.6	927.1	954.8	801.8
47.5°	798.5	780.5	773.5	762.5	758.0	765.8	801.8	862.2	955.4	985.6	845.5
50°	908.5	891.1	872.5	842.9	817.2	809.5	831.3	887.3	985.6	1024.2	893.7
52.5°	1022.9	1010.7	986.3	940.0	891.1	863.5	873.8	929.1	1033.9	1084.0	950.9
55°	1127.7	1131.6	1102.0	1048.0	977.9	935.5	947.7	1003.0	1121.3	1180.5	1046.7
57.5°	1240.3	1230.0	1206.8	1150.9	1074.4	1028.7	1033.9	1100.7	1219.0	1264.0	1141.9
60°	1314.8	1314.8	1289.8	1247.3	1174.7	1132.2	1140.0	1201.7	1297.5	1302.0	1184.3
62.5°	1363.1	1370.1	1350.2	1320.0	1249.3	1213.9	1240.3	1284.0	1336.1	1298.8	1163.1
65°	1339.9	1347.6	1345.7	1312.3	1262.1	1259.5	1307.1	1317.4	1312.9	1251.8	1089.8
67.5°	1235.1	1219.7	1219.0	1201.7	1191.4	1244.8	1305.2	1308.4	1232.5	1159.9	974.1
70°	1035.8	1009.4	999.2	1004.3	1051.2	1150.9	1237.0	1212.6	1091.7	1029.4	829.4
72.5°	798.5	767.0	760.6	780.5	853.2	993.4	1111.0	1076.9	897.6	824.9	642.3
75°	566.4	552.9	553.6	592.8	671.2	806.3	943.2	940.0	664.8	569.0	442.4
77.5°	412.1	414.7	426.3	441.7	509.2	639.7	768.3	760.0	473.2	390.9	309.3
80°	340.1	344.0	344.0	335.6	353.0	422.4	522.1	557.4	317.0	263.0	216.0
82.5°	244.3	263.6	274.5	261.0	254.6	278.4	327.3	350.4	197.4	165.9	151.1
85°	116.4	133.1	136.9	133.7	153.7	175.5	187.1	191.6	108.0	77.2	99.0
87.5°	0.0	0.0	0.6	5.1	14.1	24.4	24.4	37.3	5.8	1.9	4.5
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°	9.0	11.0	13.0	10.0	7.0	6.0	5.0	4.5	4.0	4.0	4.0
100°	30.0	31.0	32.0	31.0	30.0	28.5	27.0	26.5	26.0	25.0	26.0
102.5°	50.0	50.5	51.0	50.5	50.0	49.0	48.0	48.5	49.0	48.0	49.0
105°	70.0	70.5	71.0	71.0	71.0	70.0	69.0	70.0	71.0	69.0	71.0
107.5°	91.0	92.0	93.0	92.5	92.0	91.5	91.0	91.5	92.0	91.0	92.0
110°	112.0	113.0	114.0	114.0	114.0	113.5	113.0	113.5	114.0	113.0	114.0



REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
112.5°	134.0	135.0	136.0	136.0	136.0	135.5	135.0	136.0	137.0	135.0	137.0
115°	156.0	157.0	158.0	158.0	158.0	158.0	158.0	159.0	160.0	159.0	160.0
117.5°	179.0	179.5	180.0	180.5	181.0	180.5	180.0	181.0	182.0	180.0	182.0
120°	202.0	203.0	204.0	204.0	204.0	204.0	204.0	205.0	206.0	204.0	206.0
122.5°	227.0	227.5	228.0	228.0	228.0	228.5	229.0	231.0	233.0	232.0	233.0
125°	252.0	252.5	253.0	253.5	254.0	254.0	254.0	255.5	257.0	256.0	257.0
127.5°	276.0	277.0	278.0	277.5	277.0	277.5	278.0	279.5	281.0	278.0	281.0
130°	299.0	300.0	301.0	301.0	301.0	301.5	302.0	303.5	305.0	303.0	305.0
132.5°	322.0	323.5	325.0	325.0	325.0	325.5	326.0	327.5	329.0	327.0	329.0
135°	345.0	346.5	348.0	348.0	348.0	348.5	349.0	350.0	351.0	350.0	351.0
137.5°	367.0	368.0	369.0	369.0	369.0	369.5	370.0	372.0	374.0	372.0	374.0
140°	389.0	389.5	390.0	390.0	390.0	391.0	392.0	394.0	396.0	394.0	396.0
142.5°	410.0	411.0	412.0	412.0	412.0	412.5	413.0	414.5	416.0	415.0	416.0
145°	432.0	433.0	434.0	433.5	433.0	433.5	434.0	435.5	437.0	435.0	437.0
147.5°	453.0	453.5	454.0	453.0	452.0	452.5	453.0	454.5	456.0	453.0	456.0
150°	470.0	470.5	471.0	470.0	469.0	469.0	469.0	471.0	473.0	470.0	473.0
152.5°	486.0	486.5	487.0	486.5	486.0	486.0	486.0	487.5	489.0	486.0	489.0
155°	503.0	503.5	504.0	503.5	503.0	503.5	504.0	505.5	507.0	505.0	507.0
157.5°	519.0	519.0	519.0	518.0	517.0	517.5	518.0	520.5	523.0	520.0	523.0
160°	532.0	532.0	532.0	531.0	530.0	530.0	530.0	531.5	533.0	531.0	533.0
162.5°	541.0	541.5	542.0	541.0	540.0	539.0	538.0	539.0	540.0	537.0	540.0
165°	552.0	552.5	553.0	551.5	550.0	549.0	548.0	549.0	550.0	548.0	550.0
167.5°	560.0	560.0	560.0	559.0	558.0	558.5	559.0	561.0	563.0	561.0	563.0
170°	566.0	565.5	565.0	564.5	564.0	565.0	566.0	568.5	571.0	569.0	571.0
172.5°	568.0	568.5	569.0	568.0	567.0	567.5	568.0	569.5	571.0	568.0	571.0
175°	572.0	572.5	573.0	571.5	570.0	569.0	568.0	569.5	571.0	568.0	571.0
177.5°	577.0	577.0	577.0	575.5	574.0	574.0	574.0	575.5	577.0	574.0	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



REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4
2.5°	486.1	477.7	471.3	463.6	457.1	450.7	446.2	436.6	428.9	411.5	407.0
5°	474.5	456.5	444.3	432.7	417.9	407.6	396.7	383.2	368.4	343.3	335.6
7.5°	428.9	406.3	389.6	372.9	353.6	336.3	320.2	302.2	276.5	249.5	239.2
10°	379.3	355.6	332.4	312.5	289.3	270.0	255.9	243.0	222.5	201.9	188.4
12.5°	338.8	311.8	285.5	265.5	253.3	243.7	233.4	223.1	201.2	178.1	162.0
15°	320.2	288.7	265.5	248.8	237.9	226.3	214.1	202.5	176.8	149.8	130.5
17.5°	322.8	286.8	257.2	234.7	219.9	203.8	189.7	174.9	146.6	114.4	97.1
20°	336.9	288.7	248.2	221.8	200.6	180.0	162.0	143.4	108.7	83.6	71.4
22.5°	354.9	295.1	243.0	209.0	182.6	156.9	133.7	111.9	80.4	65.6	59.8
25°	385.8	309.9	241.8	197.4	165.2	134.4	110.6	87.4	64.9	57.9	54.7
27.5°	424.3	326.6	243.0	189.0	150.5	116.4	90.0	72.7	58.5	54.7	52.1
30°	462.9	344.0	237.3	176.2	133.1	99.7	77.2	66.2	57.9	53.4	48.9
32.5°	497.0	356.8	227.6	162.7	117.7	84.9	65.6	56.6	50.8	45.6	44.4
35°	521.4	362.6	216.7	154.3	107.4	75.9	57.9	50.8	45.0	39.9	37.3
37.5°	544.6	363.3	205.1	146.6	103.5	72.0	53.4	46.9	41.8	37.3	34.7
40°	568.4	360.7	198.7	138.9	97.7	70.1	51.4	43.7	40.5	35.4	32.8
42.5°	585.7	356.2	196.1	134.4	92.6	64.9	50.2	43.1	38.6	34.7	31.5
45°	601.8	351.7	196.1	130.5	88.7	61.7	47.6	43.7	37.3	34.1	30.2
47.5°	621.1	353.6	196.7	127.3	85.5	58.5	45.0	42.4	37.9	33.4	29.6
50°	653.9	375.5	200.0	125.4	82.9	55.9	43.1	40.5	41.8	32.8	28.9
52.5°	710.5	410.2	205.1	124.1	80.4	54.0	40.5	39.2	42.4	32.8	28.3
55°	784.4	445.6	210.2	120.9	76.5	50.2	39.2	36.6	39.2	32.8	27.6
57.5°	856.4	471.9	214.7	116.4	70.1	46.3	37.3	34.7	36.0	32.1	26.4
60°	898.2	492.5	219.2	108.7	62.4	41.8	35.4	32.8	32.1	32.1	25.7
62.5°	909.8	484.8	216.7	99.0	55.9	38.6	33.4	30.9	28.9	32.8	25.7
65°	873.1	444.3	207.0	90.7	51.4	37.3	31.5	29.6	27.6	28.3	24.4
67.5°	760.6	373.6	180.7	82.9	50.8	36.6	30.2	28.3	25.7	25.1	23.1
70°	620.5	293.2	149.8	77.2	50.2	36.6	28.9	26.4	24.4	22.5	21.2
72.5°	477.1	219.2	126.0	74.6	50.8	36.0	27.0	23.8	21.9	20.6	19.3
75°	335.6	155.0	104.8	66.9	47.6	34.1	25.1	21.2	19.3	18.0	16.7
77.5°	243.0	105.4	77.8	54.0	40.5	29.6	21.9	18.0	16.1	15.4	14.1
80°	155.0	64.9	52.1	39.9	29.6	23.1	16.7	14.1	12.9	11.6	10.9
82.5°	89.4	37.9	31.5	27.0	19.3	15.4	12.2	10.9	8.4	7.7	7.1
85°	54.7	23.8	17.4	14.1	12.2	9.6	7.1	6.4	4.5	3.9	3.2
87.5°	12.2	5.1	4.5	3.2	3.9	3.2	1.9	1.3	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°	4.5	5.0	6.0	7.0	10.0	13.0	11.0	9.0	4.0	3.0	2.0
100°	26.5	27.0	28.5	30.0	31.0	32.0	31.0	30.0	22.0	14.0	10.0
102.5°	48.5	48.0	49.0	50.0	50.5	51.0	50.5	50.0	45.0	38.0	32.0
105°	70.0	69.0	70.0	71.0	71.0	71.0	70.5	70.0	66.0	61.0	56.0
107.5°	91.5	91.0	91.5	92.0	92.5	93.0	92.0	91.0	88.0	84.0	80.0
110°	113.5	113.0	113.5	114.0	114.0	114.0	113.0	112.0	110.0	106.0	103.0



REPORT NUMBER: P228521
 CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°	
112.5°	136.0	135.0	135.5	136.0	136.0	136.0	135.0	134.0	132.0	129.0	126.0	0°
115°	159.0	158.0	158.0	158.0	158.0	158.0	157.0	156.0	154.0	151.0	149.0	2.5°
117.5°	181.0	180.0	180.5	181.0	180.5	180.0	179.5	179.0	177.0	174.0	172.0	5°
120°	205.0	204.0	204.0	204.0	204.0	204.0	203.0	202.0	201.0	198.0	196.0	7.5°
122.5°	231.0	229.0	228.5	228.0	228.0	228.0	227.5	227.0	226.0	223.0	221.0	10°
125°	255.5	254.0	254.0	254.0	253.5	253.0	252.5	252.0	251.0	248.0	247.0	12.5°
127.5°	279.5	278.0	277.5	277.0	277.5	278.0	277.0	276.0	274.0	272.0	270.0	15°
130°	303.5	302.0	301.5	301.0	301.0	301.0	300.0	299.0	298.0	294.0	293.0	17.5°
132.5°	327.5	326.0	325.5	325.0	325.0	325.0	323.5	322.0	321.0	318.0	317.0	20°
135°	350.0	349.0	348.5	348.0	348.0	348.0	346.5	345.0	345.0	341.0	339.0	22.5°
137.5°	372.0	370.0	369.5	369.0	369.0	369.0	368.0	367.0	367.0	364.0	363.0	25°
140°	394.0	392.0	391.0	390.0	390.0	390.0	389.5	389.0	388.0	386.0	385.0	27.5°
142.5°	414.5	413.0	412.5	412.0	412.0	412.0	411.0	410.0	410.0	407.0	408.0	30°
145°	435.5	434.0	433.5	433.0	433.5	434.0	433.0	432.0	431.0	428.0	428.0	32.5°
147.5°	454.5	453.0	452.5	452.0	453.0	454.0	453.5	453.0	452.0	448.0	447.0	35°
150°	471.0	469.0	469.0	469.0	470.0	471.0	470.5	470.0	469.0	465.0	464.0	37.5°
152.5°	487.5	486.0	486.0	486.0	486.5	487.0	486.5	486.0	485.0	482.0	483.0	40°
155°	505.5	504.0	503.5	503.0	503.5	504.0	503.5	503.0	503.0	501.0	502.0	42.5°
157.5°	520.5	518.0	517.5	517.0	518.0	519.0	519.0	519.0	519.0	516.0	517.0	45°
160°	531.5	530.0	530.0	530.0	531.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°
162.5°	539.0	538.0	539.0	540.0	541.0	542.0	541.5	541.0	541.0	538.0	539.0	50°
165°	549.0	548.0	549.0	550.0	551.5	553.0	552.5	552.0	552.0	548.0	549.0	52.5°
167.5°	561.0	559.0	558.5	558.0	559.0	560.0	560.0	560.0	561.0	558.0	559.0	55°
170°	568.5	566.0	565.0	564.0	564.5	565.0	565.5	566.0	567.0	565.0	566.0	57.5°
172.5°	569.5	568.0	567.5	567.0	568.0	569.0	568.5	568.0	569.0	567.0	569.0	60°
175°	569.5	568.0	569.0	570.0	571.5	573.0	572.5	572.0	572.0	569.0	570.0	62.5°
177.5°	575.5	574.0	574.0	574.0	575.5	577.0	577.0	577.0	578.0	574.0	575.0	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: P228521
 NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°	175°	175°
449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	112.5°	124.0
399.9	390.3	390.9	389.0	383.8	375.5	372.9	368.4	369.1	371.6	369.1	115°	147.0
326.6	315.0	316.3	315.7	310.5	304.8	300.3	294.5	292.5	294.5	291.3	117.5°	170.0
231.5	223.7	226.3	232.1	231.5	228.2	224.4	218.0	216.7	217.3	211.5	120°	195.0
176.8	169.1	167.2	166.5	165.2	163.3	158.2	153.0	151.1	151.7	147.9	122.5°	220.0
147.9	141.4	133.7	126.7	120.2	117.7	111.2	108.0	107.4	107.4	105.4	125°	246.0
117.0	111.9	107.4	100.3	95.2	91.3	86.8	84.2	83.6	84.2	84.2	127.5°	269.0
87.4	84.9	82.9	82.3	79.7	77.2	74.6	73.3	72.7	72.7	73.3	130°	292.0
66.9	66.2	66.2	66.2	69.4	72.0	72.7	70.7	70.1	69.4	68.8	132.5°	314.0
57.9	57.2	57.9	61.7	59.8	57.9	57.9	57.9	57.9	57.9	58.5	135°	337.0
53.4	54.0	54.7	52.7	50.8	49.5	48.9	48.9	48.2	48.2	48.9	137.5°	360.0
50.8	50.2	49.5	48.2	46.9	45.0	44.4	43.7	43.7	43.7	43.7	140°	383.0
47.6	46.9	46.3	45.0	43.1	40.5	39.9	39.9	39.2	39.9	39.9	142.5°	406.0
43.7	43.1	42.4	41.1	39.2	37.9	37.3	36.0	36.0	36.0	36.6	145°	426.0
35.4	34.7	34.7	35.4	35.4	34.7	34.7	33.4	33.4	33.4	33.4	147.5°	444.0
32.8	32.1	32.1	31.5	32.1	32.8	32.1	31.5	31.5	30.9	30.9	150°	462.0
30.9	30.9	30.2	29.6	29.6	30.9	30.2	29.6	28.9	28.9	28.9	152.5°	480.0
29.6	28.9	28.9	28.3	28.3	28.3	27.6	27.0	26.4	26.4	26.4	155°	500.0
28.3	28.3	27.6	27.0	26.4	26.4	25.1	24.4	24.4	24.4	25.1	157.5°	515.0
27.6	27.0	27.0	26.4	25.7	24.4	23.8	23.1	23.1	23.1	23.1	160°	527.0
27.0	26.4	25.7	25.7	24.4	23.8	23.1	22.5	22.5	22.5	22.5	162.5°	536.0
26.4	25.7	25.1	24.4	23.8	23.1	22.5	21.9	21.9	21.9	21.9	165°	547.0
25.1	24.4	24.4	23.8	23.8	23.1	22.5	21.9	21.9	21.9	21.2	167.5°	556.0
24.4	23.8	23.1	23.1	23.1	22.5	21.9	21.2	21.2	21.2	21.2	170°	563.0
23.8	23.1	23.1	22.5	22.5	21.9	21.9	21.2	20.6	20.6	19.9	172.5°	566.0
23.1	22.5	22.5	21.9	22.5	21.9	21.2	20.6	19.9	19.9	19.3	175°	569.0
22.5	21.9	21.9	21.9	21.2	21.2	20.6	19.3	19.3	19.3	18.6	177.5°	573.0
21.2	20.6	20.6	21.2	20.6	19.9	19.9	18.6	18.6	18.0	18.0	180°	576.0
19.3	19.3	19.3	19.9	19.3	18.6	18.6	18.0	17.4	16.7	16.7		
18.0	17.4	18.0	18.0	18.0	17.4	18.0	16.7	16.1	15.4	15.4		
15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.8	14.1	13.5		
12.2	12.9	12.9	12.9	12.9	13.5	12.9	12.9	12.9	12.2	11.6		
9.0	9.0	9.6	10.3	9.6	10.3	9.6	10.3	9.6	9.6	9.6		
5.1	5.1	5.8	6.4	6.4	7.1	5.8	6.4	6.4	7.1	6.4		
1.9	1.9	1.9	1.9	2.6	2.6	1.9	2.6	2.6	3.2	3.2		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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		
2.0	2.0	2.0	2.0	3.0	4.0	9.0	11.0	12.0	13.0	11.5		
8.0	8.0	8.0	10.0	14.0	22.0	30.0	31.0	31.5	32.0	31.5		
28.0	28.0	28.0	32.0	38.0	45.0	50.0	50.5	50.8	51.0	50.8		
54.0	54.0	54.0	56.0	61.0	66.0	70.0	70.5	70.8	71.0	71.0		
77.0	78.0	77.0	80.0	84.0	88.0	91.0	92.0	92.5	93.0	92.8		
102.0	101.0	102.0	103.0	106.0	110.0	112.0	113.0	113.5	114.0	114.0		

'228521
 ISC-AF-350-LED-E1-SLL-8030-ULG

REPORT NUMBER: P228521
 CATALOG NUMBER: ISC-AF-35

TION (continued):

CANDELA DISTRIBUTION (con

180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°		240°	242.5°
124.0	124.0	126.0	129.0	132.0	134.0	135.0	135.5	136.0	136.0	0°	449.4	449.4
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	374.2	374.2
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	293.8	293.2
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	213.5	211.5
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	149.2	144.0
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	108.0	106.1
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	85.5	85.5
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	73.9	73.9
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	68.2	67.5
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	58.5	57.9
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	48.2	48.2
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	43.7	43.7
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	39.9	40.5
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	36.6	36.6
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	32.8	32.8
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	30.2	29.6
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	27.6	27.6
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	25.7	25.7
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	24.4	24.4
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	23.8	23.8
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	22.5	22.5
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	21.9	21.9
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	21.2	21.9
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	20.6	20.6
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	19.9	19.9
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	19.3	19.3
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	18.6	18.6
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	17.4	17.4
										70°	16.1	16.1
										72.5°	14.8	14.8
										75°	13.5	12.9
										77.5°	11.6	10.9
										80°	9.6	9.0
										82.5°	7.1	6.4
										85°	3.2	3.2
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	10.0	8.5
										100°	31.0	30.5
										102.5°	50.5	50.2
										105°	71.0	71.0
										107.5°	92.5	92.2
										110°	114.0	114.0

REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-S

0-LED-E1-SLL-8030-ULG

<u>tinued):</u>										<u>CANDELA DISTRIBUTION (continued):</u>		
245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	112.5°	136.0	136.0	136.0
366.5	367.8	369.1	371.6	370.3	369.7	369.1	372.9	374.8	115°	158.0	158.0	158.0
283.5	282.9	284.8	285.5	283.5	280.3	278.4	279.0	281.0	117.5°	180.5	180.8	181.0
202.5	201.2	200.6	201.2	199.3	196.1	193.5	194.2	196.1	120°	204.0	204.0	204.0
142.7	143.4	144.7	146.0	146.0	146.0	146.6	150.5	155.0	122.5°	228.0	228.0	228.0
107.4	108.7	111.2	113.2	115.1	115.7	116.4	121.5	125.4	125°	253.5	253.8	254.0
86.8	87.4	88.7	90.0	91.3	91.3	91.9	93.9	97.1	127.5°	277.5	277.2	277.0
73.9	73.9	73.9	73.3	72.7	71.4	70.7	70.1	70.7	130°	301.0	301.0	301.0
66.2	65.6	64.3	63.0	62.4	60.4	59.8	57.9	57.2	132.5°	325.0	325.0	325.0
57.9	57.9	57.9	57.2	56.6	55.9	54.7	52.7	51.4	135°	348.0	348.0	348.0
48.2	48.9	48.9	49.5	50.8	50.8	50.8	50.8	48.9	137.5°	369.0	369.0	369.0
43.7	43.7	44.4	44.4	45.0	45.0	45.0	45.6	46.3	140°	390.0	390.0	390.0
40.5	41.1	41.1	41.8	41.8	42.4	42.4	43.1	43.1	142.5°	412.0	412.0	412.0
37.3	37.9	37.9	37.9	39.2	39.2	38.6	39.2	39.2	145°	433.5	433.2	433.0
32.8	32.8	32.8	32.8	32.8	32.8	31.5	30.9	31.5	147.5°	453.0	452.5	452.0
29.6	28.9	28.3	28.3	28.3	28.9	28.3	28.9	28.9	150°	470.0	469.5	469.0
27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.6	28.3	152.5°	486.5	486.2	486.0
25.7	25.7	25.7	25.7	25.7	25.7	25.7	26.4	26.4	155°	503.5	503.2	503.0
24.4	24.4	25.1	25.1	25.1	25.1	25.1	25.1	25.7	157.5°	518.0	517.5	517.0
23.8	23.8	23.8	23.8	23.8	23.8	23.8	24.4	25.1	160°	531.0	530.5	530.0
23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.8	24.4	162.5°	541.0	540.5	540.0
21.9	22.5	22.5	22.5	22.5	22.5	22.5	22.5	23.1	165°	551.5	550.8	550.0
21.9	21.9	21.9	21.9	21.2	21.2	21.2	21.2	21.9	167.5°	559.0	558.5	558.0
21.2	21.2	21.2	20.6	20.6	19.9	19.9	19.9	21.2	170°	564.5	564.2	564.0
19.9	19.9	19.9	19.3	19.3	19.3	19.3	19.9	19.9	172.5°	568.0	567.5	567.0
18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	175°	571.5	570.8	570.0
18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	177.5°	575.5	574.8	574.0
17.4	16.7	16.7	16.7	16.7	17.4	16.7	16.7	16.7	180°	576.0	576.0	576.0
16.1	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4				
14.8	14.8	14.1	14.1	14.1	14.1	14.1	14.1	14.1				
12.9	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2				
10.9	10.9	10.3	10.3	10.3	10.3	10.3	10.3	10.3				
9.0	8.4	8.4	8.4	8.4	8.4	8.4	7.7	7.7				
6.4	6.4	6.4	5.8	5.8	5.8	5.8	5.1	4.5				
2.6	3.2	3.2	3.9	3.2	3.2	3.2	2.6	1.3				
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				
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
7.0	6.5	6.0	5.5	5.0	4.8	4.5	4.0	4.0				
30.0	29.2	28.5	27.8	27.0	26.8	26.5	26.0	25.0				
50.0	49.5	49.0	48.5	48.0	48.2	48.5	49.0	48.0				
71.0	70.5	70.0	69.5	69.0	69.5	70.0	71.0	69.0				
92.0	91.8	91.5	91.2	91.0	91.2	91.5	92.0	91.0				
114.0	113.8	113.5	113.2	113.0	113.2	113.5	114.0	113.0				



REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-L

SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		275°	280°	282.5°	285°
135.8	135.5	135.2	135.0	135.5	136.0	137.0	135.0	0°	449.4	449.4	449.4	449.4
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	373.6	380.0	380.6	376.8
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	278.4	286.8	286.1	281.0
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	196.7	203.8	203.2	202.5
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	159.5	165.9	167.8	172.3
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	129.2	136.9	138.9	144.0
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	99.7	106.1	108.0	111.9
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	73.3	77.2	78.4	81.0
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	57.2	58.5	59.2	59.8
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	51.4	52.1	52.1	52.7
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	47.6	48.2	48.2	48.9
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	45.6	45.6	45.6	45.6
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	43.7	43.7	43.7	44.4
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	40.5	39.2	40.5	39.9
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	31.5	31.5	32.1	32.8
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	29.6	30.2	30.2	30.9
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	28.3	28.9	29.6	30.2
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	27.0	28.3	28.3	28.9
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	26.4	27.0	27.6	28.3
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	25.7	26.4	27.0	27.6
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	24.4	25.7	26.4	27.0
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	23.8	25.1	25.1	26.4
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	22.5	23.8	23.8	25.1
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	21.2	22.5	23.1	23.8
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	20.6	21.2	21.9	22.5
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	19.3	20.6	21.2	21.9
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	18.6	19.9	19.9	21.2
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	17.4	18.6	18.6	19.3
								70°	16.1	16.7	17.4	18.0
								72.5°	14.8	15.4	15.4	16.1
								75°	12.2	12.9	13.5	14.1
								77.5°	10.3	10.3	11.6	11.6
								80°	7.7	7.7	8.4	9.0
								82.5°	4.5	4.5	5.1	5.1
								85°	1.3	1.3	1.3	1.3
								87.5°	0.0	0.0	0.0	0.0
								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°	4.0	4.5	4.8	5.0
								100°	26.0	26.5	26.8	27.0
								102.5°	49.0	48.5	48.2	48.0
								105°	71.0	70.0	69.5	69.0
								107.5°	92.0	91.5	91.2	91.0
								110°	114.0	113.5	113.2	113.0



REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

JLG

CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
449.4	449.4	449.4	449.4	449.4	449.4	449.4	112.5°	137.0	136.0	135.5	135.0	135.2
384.5	385.8	383.8	383.8	385.1	390.3	390.3	115°	160.0	159.0	158.5	158.0	158.0
291.3	294.5	292.5	293.2	295.8	301.5	304.8	117.5°	182.0	181.0	180.5	180.0	180.2
209.0	211.5	212.8	214.7	222.5	223.1	227.0	120°	206.0	205.0	204.5	204.0	204.0
174.2	178.1	180.7	183.9	190.3	193.5	198.0	122.5°	233.0	231.0	230.0	229.0	228.8
146.6	151.1	153.7	160.1	164.0	167.8	173.6	125°	257.0	255.5	254.8	254.0	254.0
114.4	119.6	122.2	126.0	133.7	137.6	145.3	127.5°	281.0	279.5	278.8	278.0	277.8
82.9	84.9	90.0	96.4	100.9	107.4	111.2	130°	305.0	303.5	302.8	302.0	301.8
61.1	62.4	64.9	69.4	72.0	77.2	81.0	132.5°	329.0	327.5	326.8	326.0	325.8
52.7	53.4	54.7	55.9	57.2	59.2	61.1	135°	351.0	350.0	349.5	349.0	348.8
48.9	49.5	50.2	50.8	52.1	52.7	53.4	137.5°	374.0	372.0	371.0	370.0	369.8
46.3	46.3	46.9	48.2	48.2	49.5	50.2	140°	396.0	394.0	393.0	392.0	391.5
45.0	46.3	47.6	49.5	50.2	51.4	52.1	142.5°	416.0	414.5	413.8	413.0	412.8
38.6	38.6	39.2	40.5	40.5	41.1	41.8	145°	437.0	435.5	434.8	434.0	433.8
32.8	33.4	34.1	34.7	35.4	36.6	37.3	147.5°	456.0	454.5	453.8	453.0	452.8
31.5	31.5	32.1	33.4	34.1	34.7	35.4	150°	473.0	471.0	470.0	469.0	469.0
30.2	30.9	31.5	32.1	32.8	34.1	34.7	152.5°	489.0	487.5	486.8	486.0	486.0
29.6	30.2	30.9	31.5	32.8	33.4	34.1	155°	507.0	505.5	504.8	504.0	503.8
28.9	29.6	30.2	31.5	32.1	33.4	34.1	157.5°	523.0	520.5	519.2	518.0	517.8
28.3	28.9	29.6	30.9	32.1	33.4	34.7	160°	533.0	531.5	530.8	530.0	530.0
27.6	28.3	29.6	30.9	32.1	34.1	37.3	162.5°	540.0	539.0	538.5	538.0	538.5
27.0	28.3	29.6	30.9	32.8	35.4	38.6	165°	550.0	549.0	548.5	548.0	548.5
26.4	27.6	28.3	30.2	32.1	34.7	35.4	167.5°	563.0	561.0	560.0	559.0	558.8
25.1	26.4	27.0	28.9	31.5	32.1	31.5	170°	571.0	568.5	567.2	566.0	565.5
23.8	24.4	26.4	30.2	32.8	30.2	27.0	172.5°	571.0	569.5	568.8	568.0	567.8
23.1	23.8	25.1	27.6	28.3	25.1	24.4	175°	571.0	569.5	568.8	568.0	568.5
21.9	21.9	22.5	22.5	22.5	22.5	22.5	177.5°	577.0	575.5	574.8	574.0	574.0
19.9	19.9	20.6	20.6	20.6	20.6	20.6	180°	576.0	576.0	576.0	576.0	576.0
18.0	18.0	18.6	18.6	18.6	19.3	19.3						
16.1	16.7	16.7	17.4	17.4	17.4	18.0						
14.1	14.8	14.8	14.8	14.8	15.4	15.4						
12.2	12.2	12.9	12.9	12.9	12.9	12.9						
9.6	9.6	9.6	9.6	9.6	9.6	9.6						
5.8	5.8	6.4	5.8	5.8	5.1	5.1						
1.3	1.3	1.3	0.6	0.6	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
1.0	1.0	1.0	1.0	1.0	1.0	1.0						
5.5	6.0	6.5	7.0	8.5	10.0	11.5						
27.8	28.5	29.2	30.0	30.5	31.0	31.5						
48.5	49.0	49.5	50.0	50.2	50.5	50.8						
69.5	70.0	70.5	71.0	71.0	71.0	71.0						
91.2	91.5	91.8	92.0	92.2	92.5	92.8						
113.2	113.5	113.8	114.0	114.0	114.0	114.0						



REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

290°	292.5°	295°	297.5°	300°	302.5°		305°	307.5°	310°	312.5°	315°	317.5°
135.5	135.8	136.0	136.0	136.0	136.0	0°	449.4	449.4	449.4	449.4	449.4	449.4
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	399.9	399.9	401.2	406.3	407.6	410.8
180.5	180.8	181.0	180.8	180.5	180.2	5°	316.3	318.9	322.8	329.2	333.1	340.1
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	236.0	239.8	243.0	250.1	255.9	263.0
228.5	228.2	228.0	228.0	228.0	228.0	10°	204.5	207.7	212.2	216.7	222.5	225.7
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	182.0	186.5	191.0	197.4	203.2	209.0
277.5	277.2	277.0	277.2	277.5	277.8	15°	154.3	159.5	164.6	171.7	180.0	185.8
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	119.6	125.4	132.4	142.1	151.1	158.2
325.5	325.2	325.0	325.0	325.0	325.0	20°	88.1	93.2	99.7	108.0	114.4	126.7
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	64.9	68.2	73.3	79.7	86.8	97.7
369.5	369.2	369.0	369.0	369.0	369.0	25°	54.7	55.9	57.9	61.7	66.2	73.9
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	50.8	51.4	52.7	54.7	57.2	61.1
412.5	412.2	412.0	412.0	412.0	412.0	30°	53.4	53.4	53.4	54.0	55.3	57.2
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	43.1	43.7	43.7	45.0	45.6	48.2
452.5	452.2	452.0	452.5	453.0	453.5	35°	38.6	39.2	39.9	40.5	41.8	42.4
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	36.6	37.3	37.9	37.9	38.6	39.9
486.0	486.0	486.0	486.2	486.5	486.8	40°	36.0	36.0	36.0	36.0	37.3	38.6
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	34.7	34.7	34.7	35.4	37.3	39.9
517.5	517.2	517.0	517.5	518.0	518.5	45°	34.7	34.7	35.4	37.9	38.6	38.6
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	36.0	37.3	37.9	37.3	36.6	36.6
539.0	539.5	540.0	540.5	541.0	541.5	50°	39.2	38.6	36.0	35.4	35.4	34.1
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	38.6	36.0	35.4	34.1	32.8	32.1
558.5	558.2	558.0	558.5	559.0	559.5	55°	34.7	34.1	32.1	30.9	30.2	30.9
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	30.2	29.6	28.3	28.3	28.9	29.6
567.5	567.2	567.0	567.5	568.0	568.5	60°	26.4	26.4	26.4	27.0	27.6	28.3
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	23.8	24.4	24.4	25.7	26.4	27.0
574.0	574.0	574.0	574.8	575.5	576.2	65°	22.5	23.1	23.8	23.8	24.4	25.1
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	21.2	21.2	21.9	22.5	23.1	23.8
						70°	19.3	19.9	20.6	21.2	21.2	21.9
						72.5°	18.0	18.0	18.6	19.3	19.3	20.6
						75°	15.4	16.1	16.1	16.1	16.7	18.0
						77.5°	13.5	12.9	13.5	13.5	14.1	14.8
						80°	9.6	9.0	9.0	9.6	9.6	9.6
						82.5°	5.1	4.5	5.1	4.5	4.5	5.1
						85°	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
						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	12.0	11.0	10.0	9.0	7.8
						100°	32.0	31.5	31.0	30.5	30.0	28.0
						102.5°	51.0	50.8	50.5	50.2	50.0	48.8
						105°	71.0	70.8	70.5	70.2	70.0	69.0
						107.5°	93.0	92.5	92.0	91.5	91.0	90.2
						110°	114.0	113.5	113.0	112.5	112.0	111.5



REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
449.4	449.4	449.4	449.4	449.4	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
410.2	416.0	418.6	434.0	450.1	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
338.8	350.4	352.3	380.6	408.3	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
264.9	278.4	282.3	319.5	358.1	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
230.8	237.3	241.8	269.4	313.8	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
214.1	220.5	226.3	248.8	283.5	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
191.6	198.7	205.7	233.4	273.9	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
164.0	173.6	182.6	216.0	269.4	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
133.1	144.7	155.6	197.4	263.0	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
104.8	115.1	127.3	180.0	263.0	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
81.0	91.3	103.5	164.6	270.0	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
66.2	74.6	86.8	152.4	280.3	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
59.8	64.9	72.7	134.4	287.4	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
50.8	54.7	61.7	123.4	291.9	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
45.0	49.5	56.6	116.4	291.3	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
41.8	46.3	54.7	113.8	291.3	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
41.8	46.3	53.4	111.2	293.2	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
41.1	43.7	49.5	109.9	296.4	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
39.2	41.1	46.9	109.9	302.8	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
36.6	39.2	45.0	111.9	315.0	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
34.7	37.3	44.4	111.9	340.1	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
32.8	36.6	43.7	110.6	376.1	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
32.1	35.4	42.4	109.3	420.5	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
31.5	34.1	39.2	106.1	455.9	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
30.2	32.1	36.0	100.3	479.6	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
28.3	30.2	32.8	93.9	484.8	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
27.0	28.9	32.8	88.7	453.3	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
25.1	28.3	33.4	84.2	384.5	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
23.8	28.3	34.1	82.3	305.4								
22.5	27.6	34.7	79.1	230.2								
20.6	25.1	30.2	65.6	155.6								
16.7	19.3	22.5	41.8	82.3								
10.9	11.6	12.9	25.7	45.6								
5.1	6.4	6.4	12.2	20.6								
0.0	0.0	0.0	1.3	4.5								
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								
1.0	1.0	1.0	1.0	1.0								
6.5	5.2	4.0	3.0	2.0								
26.0	24.0	22.0	14.0	10.0								
47.5	46.2	45.0	38.0	32.0								
68.0	67.0	66.0	61.0	56.0								
89.5	88.8	88.0	84.0	80.0								
111.0	110.5	110.0	106.0	103.0								

REPORT NUMBER: P228521
 CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
132.5	132.0	129.0	126.0	0°	449.4	449.4	449.4
154.5	154.0	151.0	149.0	2.5°	465.5	473.2	477.1
177.5	177.0	174.0	172.0	5°	440.4	456.5	461.6
201.2	201.0	198.0	196.0	7.5°	402.5	420.5	427.6
226.2	226.0	223.0	221.0	10°	364.6	387.1	394.1
251.2	251.0	248.0	247.0	12.5°	342.1	369.1	372.9
274.5	274.0	272.0	270.0	15°	333.1	360.7	368.4
298.2	298.0	294.0	293.0	17.5°	342.1	372.9	380.6
321.2	321.0	318.0	317.0	20°	359.4	397.3	409.6
345.0	345.0	341.0	339.0	22.5°	389.0	440.4	455.9
367.0	367.0	364.0	363.0	25°	437.2	508.6	522.1
388.2	388.0	386.0	385.0	27.5°	488.6	562.6	583.8
410.0	410.0	407.0	408.0	30°	533.7	612.7	630.1
431.2	431.0	428.0	428.0	32.5°	565.8	652.6	672.5
452.2	452.0	448.0	447.0	35°	603.7	698.2	717.5
469.2	469.0	465.0	464.0	37.5°	647.5	753.5	779.9
485.2	485.0	482.0	483.0	40°	695.7	810.8	840.3
503.0	503.0	501.0	502.0	42.5°	739.4	864.1	896.9
519.0	519.0	516.0	517.0	45°	773.5	914.3	940.0
532.0	532.0	529.0	529.0	47.5°	812.7	952.9	981.8
541.0	541.0	538.0	539.0	50°	866.7	1001.7	1035.8
552.0	552.0	548.0	549.0	52.5°	945.8	1084.7	1109.1
560.8	561.0	558.0	559.0	55°	1041.6	1185.0	1212.6
566.8	567.0	565.0	566.0	57.5°	1129.7	1278.2	1302.0
568.8	569.0	567.0	569.0	60°	1186.3	1321.3	1341.2
572.0	572.0	569.0	570.0	62.5°	1186.9	1322.6	1347.6
577.8	578.0	574.0	575.0	65°	1140.0	1294.3	1322.6
576.0	576.0	576.0	576.0	67.5°	1021.0	1222.3	1266.0
				70°	862.2	1080.8	1129.7
				72.5°	672.5	849.3	905.3
				75°	455.9	563.9	612.7
				77.5°	290.0	325.3	341.4
				80°	171.0	192.2	200.6
				82.5°	106.1	114.4	122.8
				85°	43.1	30.9	33.4
				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

REPORT NUMBER: P228521

CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-8030-ULG

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)