

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: P228131

Luminaire Tested: **ISC-AF-350-LED-E1-SL2-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)-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-SL2-8030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, 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: 3268.2 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - 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

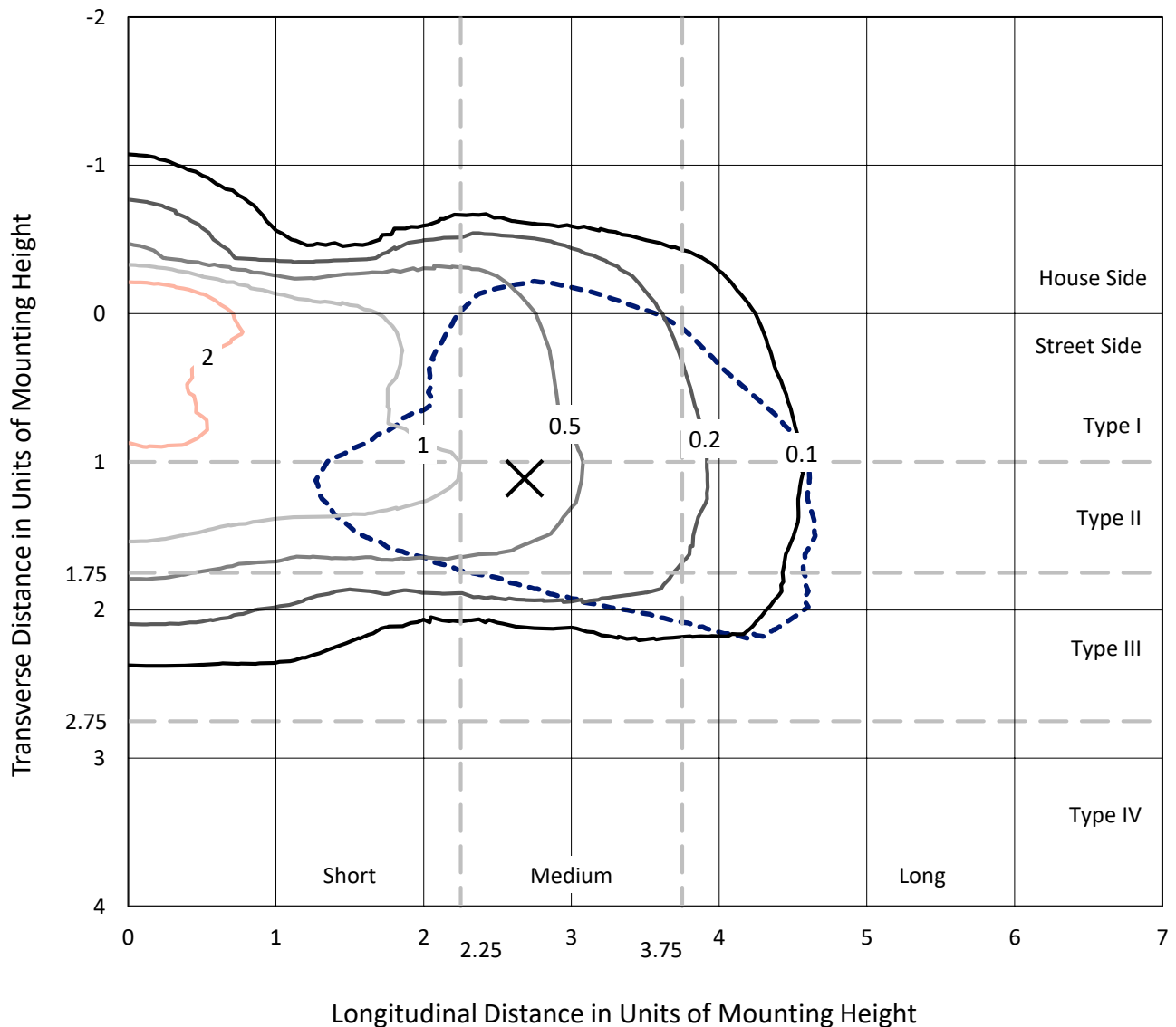


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Iso-Footcandle Lines of Horizontal Illumination

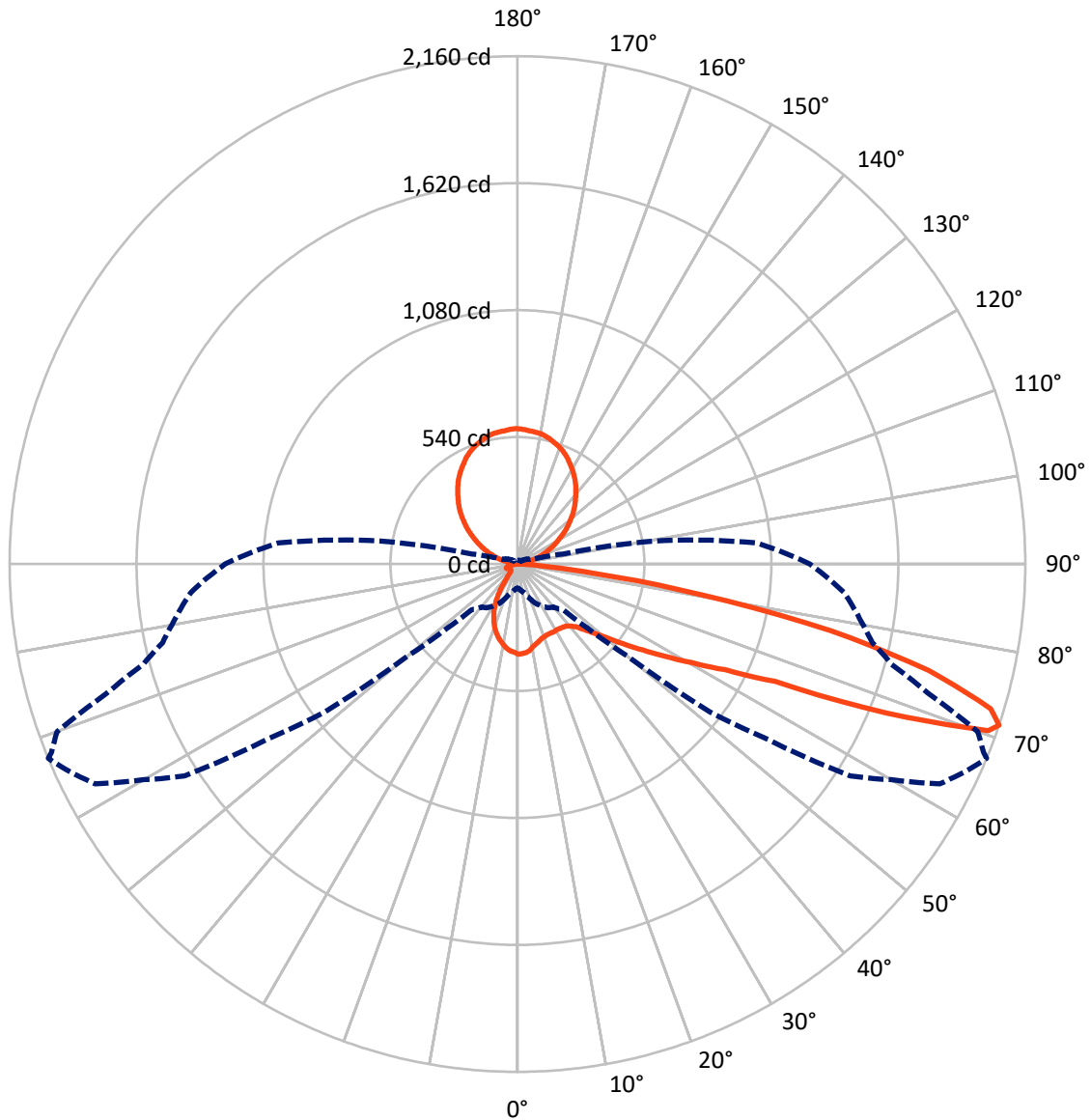
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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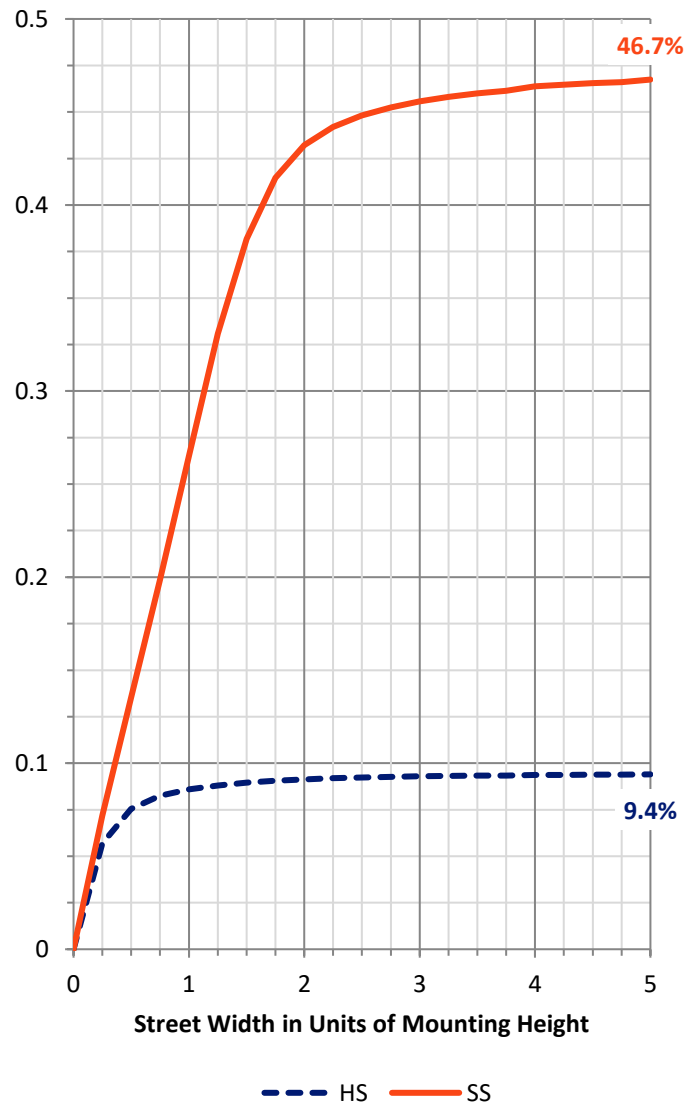
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	310.4	713.1	1023.5
	% Fixture	9.5	21.8	31.3
Street Side	Lumens	1531.6	713.1	2244.7
	% Fixture	46.9	21.8	68.7
Total	Lumens	1842.0	1426.2	3268.2
	% Fixture	56.4	43.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	1.0
10°-20°	80.1	2.5
20°-30°	109.0	3.3
30°-40°	148.9	4.6
40°-50°	224.4	6.9
50°-60°	355.7	10.9
60°-70°	470.8	14.4
70°-80°	375.1	11.5
80°-90°	44.5	1.4
90°-100°	4.7	0.1
100°-110°	69.0	2.1
110°-120°	153.0	4.7
120°-130°	223.9	6.8
130°-140°	265.6	8.1
140°-150°	269.3	8.2
150°-160°	231.1	7.1
160°-170°	155.1	4.7
170°-180°	54.3	1.7
0°-90°	1842.0	56.4
0°-180°	3268.2	100.0



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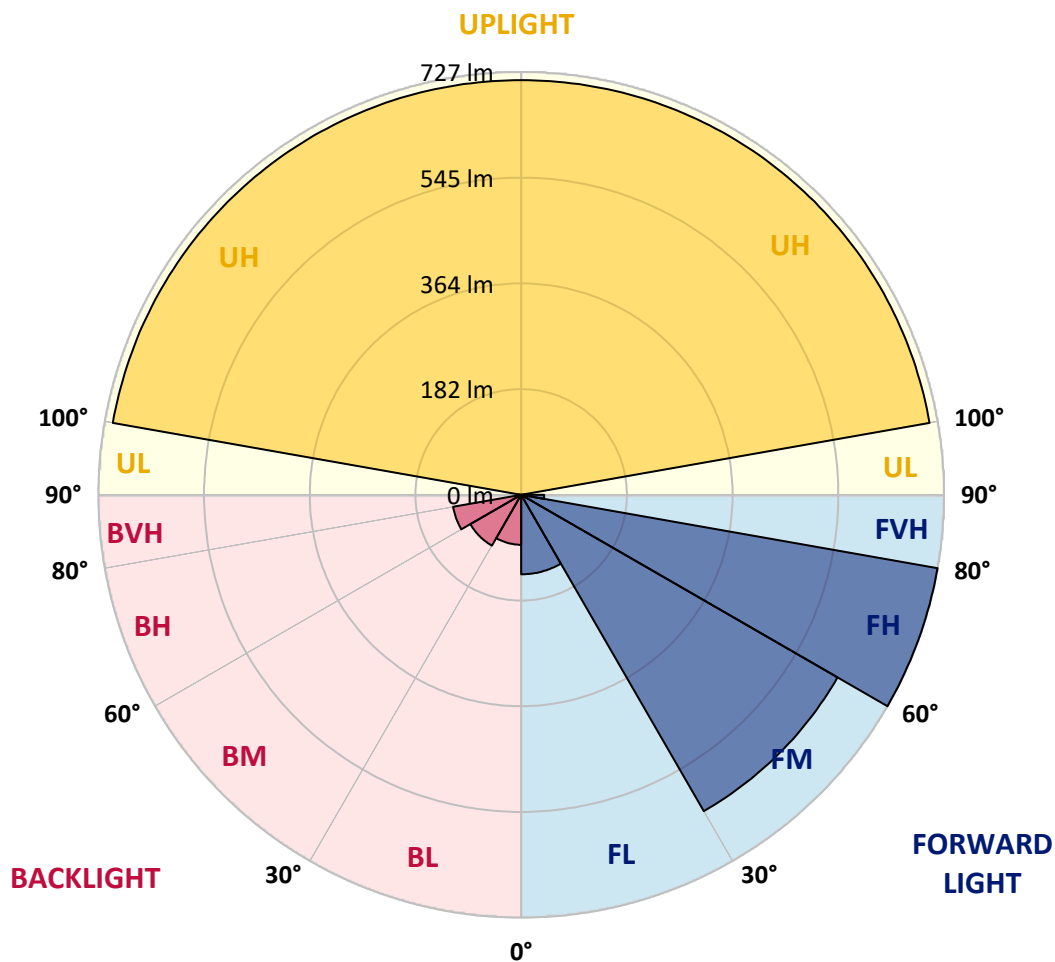
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	136.7	4.2			
FM	(30°-60°)	628.2	19.2			
FH	(60°-80°)	727.1	22.2			G1/1800
FVH	(80°-90°)	39.7	1.2			G1/100
BL	(0°-30°)	85.9	2.6	B0/110		
BM	(30°-60°)	100.9	3.1	B0/220		
BH	(60°-80°)	118.8	3.6	B1/500		G1/500
BVH	(80°-90°)	4.8	0.1			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	21.8		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9
2.5°	376.8	375.5	375.5	377.4	380.6	378.1	380.0	380.0	380.6	382.6	383.2
5°	349.1	346.6	349.1	351.7	358.8	357.5	359.4	361.3	365.2	365.8	371.0
7.5°	324.1	322.8	324.7	329.8	338.8	336.3	338.8	341.4	345.9	347.8	353.0
10°	304.8	302.8	305.4	309.3	318.3	317.6	318.9	322.1	327.3	328.6	335.0
12.5°	290.6	290.6	291.9	297.1	304.8	304.1	308.0	309.9	314.4	315.7	322.8
15°	283.5	281.6	284.2	288.7	296.4	296.4	299.0	300.9	307.3	308.0	314.4
17.5°	277.1	277.8	278.4	283.5	290.6	289.3	292.6	293.8	300.9	299.6	307.3
20°	277.1	278.4	277.8	281.0	286.1	283.5	287.4	288.0	295.8	293.8	302.2
22.5°	284.8	286.1	284.2	283.5	285.5	283.5	285.5	286.8	292.6	291.3	299.0
25°	298.3	300.9	298.3	293.8	291.9	286.8	288.0	290.0	294.5	291.3	298.3
27.5°	319.6	321.5	317.0	312.5	303.5	297.7	295.8	295.1	300.3	295.1	300.9
30°	344.0	346.6	342.7	334.3	321.5	311.8	308.0	306.1	309.3	301.6	307.3
32.5°	370.3	372.9	370.3	363.9	346.6	332.4	327.3	322.8	325.3	315.1	317.6
35°	397.4	399.9	402.5	398.6	376.1	360.1	351.7	347.8	347.2	334.3	335.0
37.5°	421.1	423.7	432.1	435.9	415.4	393.5	385.8	377.4	378.1	360.1	360.1
40°	450.1	453.3	464.2	473.2	459.7	433.4	424.4	415.4	415.4	391.6	392.2
42.5°	489.3	493.2	500.2	512.4	507.9	480.9	471.3	459.1	460.4	432.1	431.4
45°	544.6	547.2	547.2	554.9	555.5	529.8	523.4	511.2	513.7	477.7	479.7
47.5°	616.6	613.4	600.5	605.0	610.2	583.2	577.4	569.7	572.9	534.3	538.2
50°	683.5	680.9	654.5	655.8	674.5	646.8	644.9	635.3	639.8	601.2	607.0
52.5°	708.5	704.0	677.7	691.8	743.9	728.5	731.7	727.2	729.8	688.6	687.3
55°	680.3	680.3	664.2	689.9	796.0	804.4	830.7	841.0	851.9	810.8	801.8
57.5°	601.8	607.0	609.5	655.2	787.6	823.6	873.8	917.5	973.5	970.9	984.4
60°	471.9	480.9	495.7	570.3	751.6	810.8	875.7	941.3	1018.5	1068.0	1141.3
62.5°	331.1	338.8	351.1	402.5	646.8	748.4	842.3	943.2	1041.6	1119.4	1215.9
65°	225.0	232.8	258.5	286.8	390.3	538.2	681.5	848.7	998.5	1143.2	1273.1
67.5°	162.0	166.5	186.5	234.0	259.8	286.8	340.1	536.9	721.4	1012.7	1202.3
70°	121.5	126.0	144.0	196.7	228.3	235.3	248.2	282.9	329.8	569.0	817.9
71°	101.6	108.0	129.9	185.2	227.0	232.8	238.5	259.1	274.5	402.5	607.0
72.5°	71.4	75.9	96.4	171.0	218.0	231.5	245.0	244.3	243.0	274.5	367.1
75°	45.7	45.7	45.7	96.4	232.8	224.4	229.5	257.2	243.0	230.8	241.8
77.5°	36.0	35.4	33.4	48.2	182.0	227.6	241.1	248.2	261.7	241.1	230.2
80°	27.0	26.4	26.4	30.2	84.2	147.2	203.8	226.3	236.0	256.5	234.0
82.5°	14.1	14.1	15.4	18.0	31.5	51.4	105.4	173.6	194.2	195.5	197.4
85°	4.5	3.9	5.1	8.4	13.5	16.7	29.6	70.1	104.2	126.0	133.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.6	4.5	5.8
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	3.0	4.0	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	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):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9
2.5°	381.3	383.9	381.9	384.5	381.3	385.1	381.9	383.9	384.5	381.9	385.1
5°	367.8	375.5	372.9	378.7	376.1	381.3	378.7	383.9	383.9	381.9	386.4
7.5°	351.1	358.8	359.4	365.2	365.2	371.6	371.6	376.8	379.4	379.4	385.8
10°	334.3	341.4	342.7	349.1	350.4	358.1	358.1	365.2	370.3	372.3	380.0
12.5°	321.5	330.5	330.5	337.6	336.3	347.8	349.1	355.6	360.7	365.2	375.5
15°	313.8	322.1	322.1	329.2	327.9	339.5	341.4	347.8	355.6	358.1	372.3
17.5°	306.1	314.4	312.5	322.1	321.5	334.3	333.1	342.7	349.1	353.0	369.1
20°	299.6	309.3	308.0	317.6	315.1	329.2	329.2	338.8	345.3	348.5	367.1
22.5°	296.4	306.7	304.1	313.8	311.8	326.0	326.0	335.6	342.7	347.8	366.5
25°	296.4	305.4	302.8	313.8	310.6	326.0	325.3	335.0	342.1	346.6	367.1
27.5°	297.7	306.7	304.8	315.1	312.5	326.0	327.3	335.6	342.7	347.8	368.4
30°	302.2	310.6	306.1	315.7	313.8	326.6	326.0	335.0	342.1	348.5	368.4
32.5°	311.8	316.3	310.6	318.9	315.1	327.9	327.9	334.3	342.7	350.4	368.4
35°	325.3	328.6	319.6	325.3	318.3	331.1	330.5	337.6	344.0	350.4	369.7
37.5°	344.6	348.5	334.3	339.5	327.9	338.2	335.6	344.0	350.4	354.3	376.1
40°	373.6	374.8	356.2	360.1	344.0	353.0	346.6	358.1	361.3	363.9	385.8
42.5°	408.9	410.2	386.4	389.0	368.4	376.1	365.2	377.4	381.9	381.3	405.1
45°	452.6	453.3	426.3	428.2	404.4	410.9	397.4	407.6	410.9	408.9	433.4
47.5°	500.2	505.4	475.2	477.7	452.6	455.9	439.1	450.7	450.7	448.8	473.9
50°	563.2	571.0	535.6	539.4	510.5	513.1	493.8	506.0	504.7	499.6	527.9
52.5°	641.7	648.8	611.5	616.6	585.7	587.0	563.2	577.4	573.5	565.2	598.0
55°	737.5	738.1	703.4	707.9	677.0	675.1	645.5	662.9	657.1	645.5	675.8
57.5°	891.2	872.5	815.3	814.0	780.6	778.0	740.1	761.3	751.6	727.2	767.1
60°	1138.7	1144.5	998.5	976.0	913.7	902.1	851.9	876.4	864.8	824.9	864.1
62.5°	1278.2	1370.2	1361.2	1280.1	1119.4	1075.7	990.8	1019.7	989.5	931.0	967.7
65°	1381.7	1506.5	1578.5	1656.3	1584.3	1405.5	1204.9	1245.4	1171.5	1060.3	1095.6
67.5°	1420.3	1570.8	1722.5	1833.1	1908.3	1921.8	1689.7	1700.6	1518.7	1296.2	1300.7
70°	1218.4	1440.2	1737.3	1877.5	2026.6	2099.9	2124.4	2112.8	1995.1	1680.1	1559.8
71°	1032.6	1301.4	1678.1	1834.4	2025.3	2096.1	2160.4	2138.5	2083.9	1832.5	1647.9
72.5°	699.5	1037.1	1505.2	1703.2	1957.8	2009.3	2105.7	2067.1	2055.6	1946.3	1730.2
75°	329.2	516.9	979.2	1278.9	1656.9	1706.4	1807.4	1759.8	1729.6	1766.9	1646.0
77.5°	242.4	282.3	537.5	794.7	1204.9	1275.0	1361.8	1303.3	1264.7	1302.0	1217.8
80°	220.5	221.8	278.4	419.2	718.8	760.6	793.4	745.8	687.3	684.8	607.0
82.5°	203.2	192.2	180.7	221.8	368.4	350.4	324.1	300.3	233.4	187.1	135.0
85°	129.2	141.5	128.6	121.5	146.6	120.9	95.8	91.9	64.9	43.7	40.5
87.5°	9.0	10.3	12.2	14.1	17.4	14.1	9.0	10.9	6.4	0.0	3.2
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°	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.4	6.0	5.5	5.0
100°	31.5	32.0	31.5	31.0	30.5	30.0	29.2	29.1	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.4	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.4	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.7	91.5	91.2	91.0



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CATALOG NUMBER: ISC-AF-350-LED-E1-SL2-8030-ULG

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.7	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.7	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.7	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.3	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.3	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.3	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.3	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.3	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.3	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.5	390.6	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.3	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.3	433.5	433.8	434.0
147.5°	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.3	452.5	452.8	453.0
150°	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.3	503.5	503.8	504.0
157.5°	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.3	517.5	517.8	518.0
160°	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.4	539.0	538.5	538.0
165°	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.4	549.0	548.5	548.0
167.5°	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.3	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.5	564.2	564.0	564.5	564.6	565.0	565.5	566.0
172.5°	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.3	567.5	567.8	568.0
175°	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.4	569.0	568.5	568.0
177.5°	577.0	577.0	576.2	575.5	574.8	574.0	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: P228131

CATALOG NUMBER: ISC-AF-350-LED-E1-SL2-8030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9
2.5°	380.6	383.9	385.1	384.5	383.2	381.9	377.4	380.6	376.1	379.4	375.5
5°	382.6	387.1	387.7	386.4	385.1	382.6	374.8	379.4	374.2	376.8	371.0
7.5°	381.9	389.0	389.6	388.4	385.8	381.3	373.6	376.8	368.4	370.3	362.6
10°	378.7	389.0	389.6	386.4	382.6	375.5	366.5	367.8	359.4	359.4	349.1
12.5°	375.5	387.7	390.9	386.4	380.0	370.3	360.1	358.8	349.1	348.5	336.9
15°	375.5	389.0	393.5	387.7	378.1	364.6	352.3	349.8	338.8	335.6	322.8
17.5°	374.8	389.0	395.4	387.7	376.1	358.8	343.3	340.8	326.6	321.5	306.7
20°	374.2	390.3	396.7	386.4	370.3	351.7	334.3	329.2	313.8	305.4	288.0
22.5°	373.6	392.9	398.0	385.1	366.5	342.7	324.7	315.7	297.7	286.8	266.2
25°	376.8	396.1	398.6	383.9	360.7	333.1	313.8	301.6	281.6	267.5	243.0
27.5°	378.1	399.3	399.9	381.3	353.6	322.8	302.2	285.5	263.0	245.6	218.0
30°	381.9	399.9	398.0	376.1	345.3	309.9	288.7	268.1	243.0	220.5	187.7
32.5°	383.2	401.9	396.7	370.3	336.9	297.1	273.3	249.5	219.3	192.9	153.0
35°	385.8	403.1	395.4	367.1	327.9	283.5	257.2	230.2	195.5	162.0	116.4
37.5°	389.6	408.9	398.6	365.8	323.4	272.0	239.2	210.3	167.2	128.0	77.2
40°	399.3	420.5	404.4	367.8	320.2	262.3	221.8	189.7	135.0	94.5	53.4
42.5°	418.6	440.4	419.2	377.4	322.1	254.0	203.8	167.8	102.2	67.5	44.4
45°	447.5	466.2	443.6	393.5	329.8	249.5	187.1	145.3	73.3	54.0	40.5
47.5°	489.9	507.9	479.7	419.2	343.3	247.5	169.7	121.5	56.6	48.9	39.2
50°	545.9	567.1	531.7	459.7	368.4	249.5	151.1	99.0	49.5	47.6	38.6
52.5°	614.7	635.3	599.9	519.5	409.6	260.4	131.2	86.2	46.9	46.9	37.9
55°	692.5	721.4	686.7	602.5	473.2	284.2	118.9	81.7	46.9	47.6	37.3
57.5°	784.4	808.9	778.0	682.2	549.7	323.4	120.2	86.2	46.9	47.6	36.6
60°	874.4	904.7	869.3	783.8	637.2	382.6	146.6	109.3	48.9	49.5	36.6
62.5°	968.3	991.5	962.5	872.5	736.2	455.9	199.3	158.2	56.6	58.5	39.2
65°	1071.2	1109.1	1078.9	1005.0	876.4	572.9	299.6	237.3	83.6	68.2	43.1
67.5°	1249.3	1264.7	1249.9	1182.4	1040.3	669.3	356.8	241.1	83.6	66.2	48.2
70°	1490.4	1455.7	1389.5	1263.4	1057.7	600.5	255.9	147.2	71.4	63.0	50.8
71°	1546.3	1493.0	1395.2	1243.5	1021.7	542.0	198.7	116.4	66.9	61.7	50.8
72.5°	1580.4	1500.7	1352.8	1185.0	950.9	426.9	131.2	91.3	61.1	58.5	48.9
75°	1536.0	1388.8	1194.6	1025.5	778.6	221.8	82.3	69.4	52.1	50.8	42.4
77.5°	1219.7	1090.5	881.5	745.2	500.9	98.4	59.2	52.7	41.1	39.9	32.8
80°	569.0	456.5	267.5	229.5	157.5	57.9	40.5	36.0	29.6	28.3	23.1
82.5°	103.5	77.8	60.4	58.5	52.7	34.1	23.8	21.9	18.6	18.0	14.8
85°	35.4	34.1	25.7	25.7	26.4	18.0	13.5	12.9	9.6	9.6	6.4
87.5°	0.6	3.2	3.2	4.5	3.9	3.2	1.3	1.9	0.6	1.9	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



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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°	
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8	0°
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	2.5°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	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	7.5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	10°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	12.5°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	15°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	17.5°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	20°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	22.5°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	25°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	27.5°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	30°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	32.5°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	35°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	37.5°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	40°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	42.5°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	45°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	47.5°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	50°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	52.5°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	55°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	57.5°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	60°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	62.5°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	65°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°



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 NUMBER: ISC-AF-350-LED-E1-SL2-8030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	383.9	110°	114.0
378.7	373.6	378.1	373.6	376.1	371.0	374.2	372.3	372.3	370.3	369.1	112.5°	136.0
372.9	366.5	369.7	364.6	367.1	359.4	361.3	358.1	351.7	347.8	342.7	115°	158.0
364.6	354.9	357.5	349.8	351.7	341.4	343.3	337.6	325.3	317.6	309.9	117.5°	181.0
349.8	340.8	341.4	331.8	331.1	320.8	318.9	311.2	293.2	280.3	270.0	120°	204.0
335.0	324.7	323.4	311.8	309.9	297.7	295.1	282.9	256.5	231.5	215.4	122.5°	228.0
319.6	306.7	302.8	290.6	283.5	273.3	266.2	248.2	210.3	177.5	156.2	125°	254.0
302.2	285.5	279.7	265.5	255.3	239.8	229.5	205.1	156.2	120.9	106.1	127.5°	277.0
279.7	261.7	251.4	233.4	219.9	201.2	188.4	156.9	104.2	86.2	84.2	130°	301.0
254.6	233.4	220.5	198.0	181.3	161.4	140.8	106.1	73.9	70.1	72.7	132.5°	325.0
228.3	201.9	185.2	157.5	135.0	111.9	92.6	70.7	60.4	59.8	63.7	135°	348.0
196.7	166.5	142.7	109.9	89.4	71.4	63.0	55.9	51.4	52.1	55.9	137.5°	369.0
162.0	122.8	97.7	68.8	59.8	52.1	50.8	48.2	46.3	47.6	50.2	140°	390.0
120.9	78.4	63.0	49.5	48.9	44.4	45.7	44.4	43.7	44.4	46.3	142.5°	412.0
81.7	52.1	49.5	42.4	43.7	40.5	42.4	41.8	41.1	41.1	42.4	145°	433.0
56.6	43.1	44.4	39.2	41.1	38.6	40.5	39.9	39.2	38.6	39.2	147.5°	452.0
46.9	39.2	41.1	37.3	39.2	36.6	38.6	37.9	37.3	36.0	36.0	150°	469.0
43.1	37.3	39.2	35.4	37.9	34.7	37.3	36.0	34.7	34.7	33.4	152.5°	486.0
41.8	36.0	37.9	34.1	36.6	33.4	35.4	34.7	32.1	31.5	32.1	155°	503.0
40.5	35.4	37.3	33.4	35.4	32.1	34.1	32.8	30.2	29.6	30.2	157.5°	517.0
39.9	34.1	36.0	32.1	34.1	31.5	32.8	31.5	28.9	28.3	28.3	160°	530.0
39.2	33.4	35.4	30.9	32.8	28.9	30.9	29.6	27.0	26.4	26.4	162.5°	540.0
39.2	32.8	34.1	29.6	31.5	27.6	28.9	27.6	26.4	25.1	25.1	165°	550.0
38.6	31.5	33.4	28.3	29.6	26.4	27.6	26.4	24.4	23.8	23.8	167.5°	558.0
38.6	30.9	32.8	27.6	28.9	25.1	26.4	25.1	23.1	22.5	22.5	170°	564.0
40.5	32.1	33.4	28.3	28.9	25.1	25.7	23.8	21.9	21.9	21.2	172.5°	567.0
44.4	36.0	36.0	29.6	29.6	25.1	25.7	23.1	20.6	20.6	20.6	175°	570.0
48.2	39.9	39.2	31.5	30.9	25.1	25.1	21.9	19.3	19.3	19.3	177.5°	574.0
50.8	41.8	40.5	32.1	30.9	24.4	23.8	20.6	18.0	18.0	18.0	180°	576.0
50.2	41.8	39.9	31.5	29.6	23.1	23.1	19.9	17.4	17.4	16.7		
47.6	39.2	37.3	29.6	28.3	21.9	21.9	18.6	16.1	16.1	15.4		
40.5	33.4	31.5	25.1	23.8	19.3	18.6	15.4	14.1	13.5	13.5		
31.5	26.4	24.4	19.9	19.3	15.4	14.8	12.9	11.6	11.6	10.9		
22.5	18.6	17.4	13.5	12.2	10.3	10.9	9.6	9.0	9.0	8.4		
13.5	9.6	9.6	7.7	8.4	6.4	7.1	7.1	6.4	5.1	5.1		
7.1	4.5	5.8	3.2	4.5	1.9	3.2	2.6	2.6	1.9	1.9		
1.3	0.0	0.6	0.0	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	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		

'228131
 ISC-AF-350-LED-E1-SL2-8030-ULG

REPORT NUMBER: P228131
 CATALOG NUMBER: ISC-AF-35

TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	383.9	383.9
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	365.2	365.8
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	340.1	341.4
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	304.1	306.1
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	261.0	262.3
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	205.7	205.7
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	144.0	145.3
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	100.9	101.6
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	84.9	85.5
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	75.9	76.5
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	67.5	68.2
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	58.5	59.2
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	52.7	53.4
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	47.6	48.2
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	43.1	43.1
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	39.9	39.9
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	36.6	36.6
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	34.7	34.7
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	32.8	32.8
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	30.9	30.9
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	28.9	29.6
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	27.0	27.0
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	25.1	25.1
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	23.1	23.8
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	21.9	21.9
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	20.6	20.6
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	19.9	19.9
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	18.6	18.6
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	17.4	17.4
										71°	16.7	16.7
										72.5°	15.4	15.4
										75°	13.5	12.9
										77.5°	10.9	10.9
										80°	8.4	7.7
										82.5°	5.1	4.5
										85°	1.9	1.3
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	102.0	101.0
112.5°	124.0	124.0
115°	147.0	146.0
117.5°	170.0	169.0
120°	195.0	193.0
122.5°	220.0	219.0
125°	246.0	244.0
127.5°	269.0	267.0
130°	292.0	290.0
132.5°	314.0	313.0
135°	337.0	336.0
137.5°	360.0	359.0
140°	383.0	382.0
142.5°	406.0	404.0
145°	426.0	425.0
147.5°	444.0	444.0
150°	462.0	461.0
152.5°	480.0	479.0
155°	500.0	499.0
157.5°	515.0	513.0
160°	527.0	525.0
162.5°	536.0	535.0
165°	547.0	546.0
167.5°	556.0	555.0
170°	563.0	562.0
172.5°	566.0	565.0
175°	569.0	567.0
177.5°	573.0	572.0
180°	576.0	576.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

