

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: P228391

Luminaire Tested: **ISC-AF-350-LED-E1-SL4-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)-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-SL4-8030-ULG  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCUED OPTICS-TYPE IV 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: 3147.2 lumens  
Efficiency: N/A  
Efficacy: 85.5 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

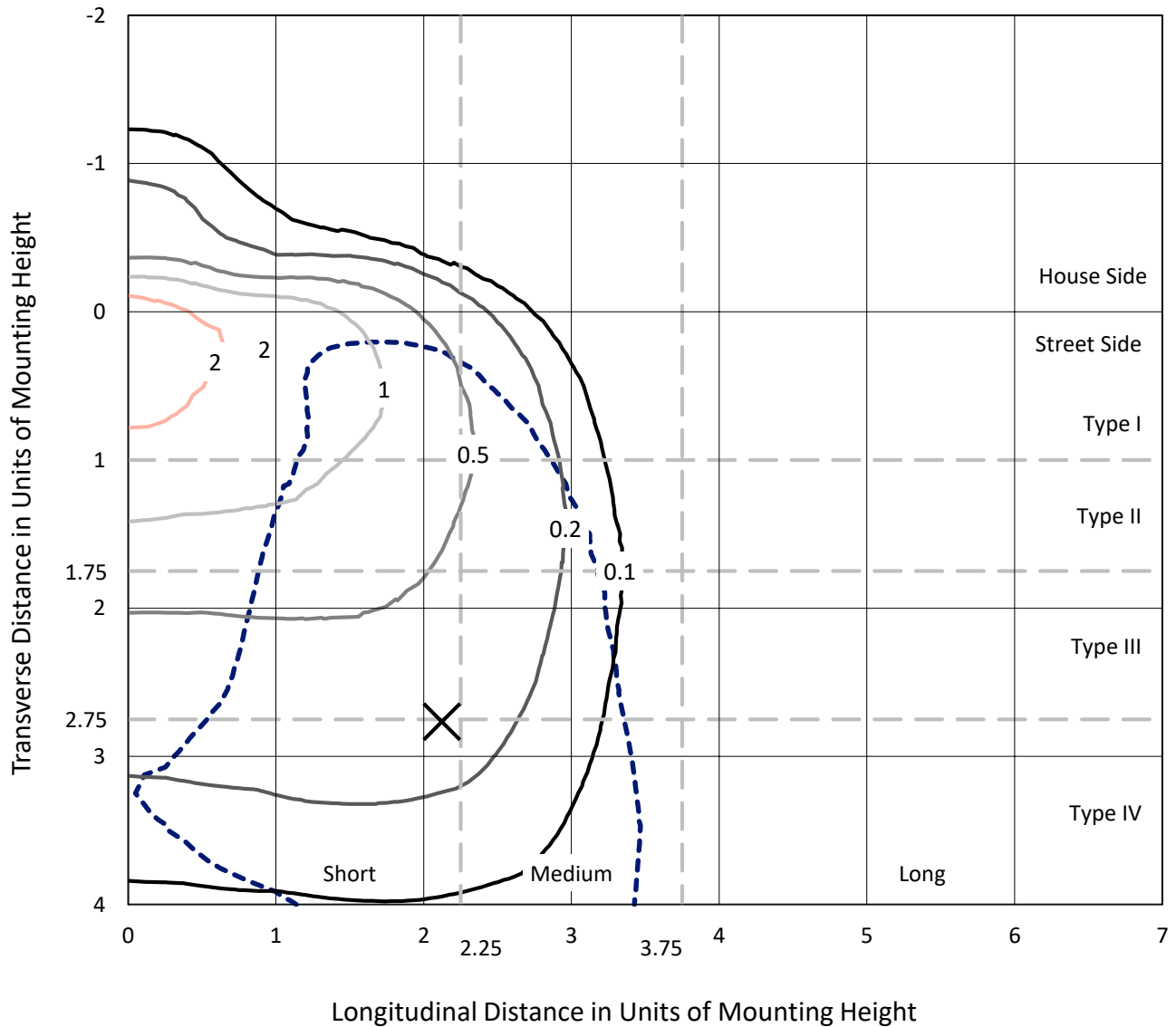
Input Watts (W): 36.79  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

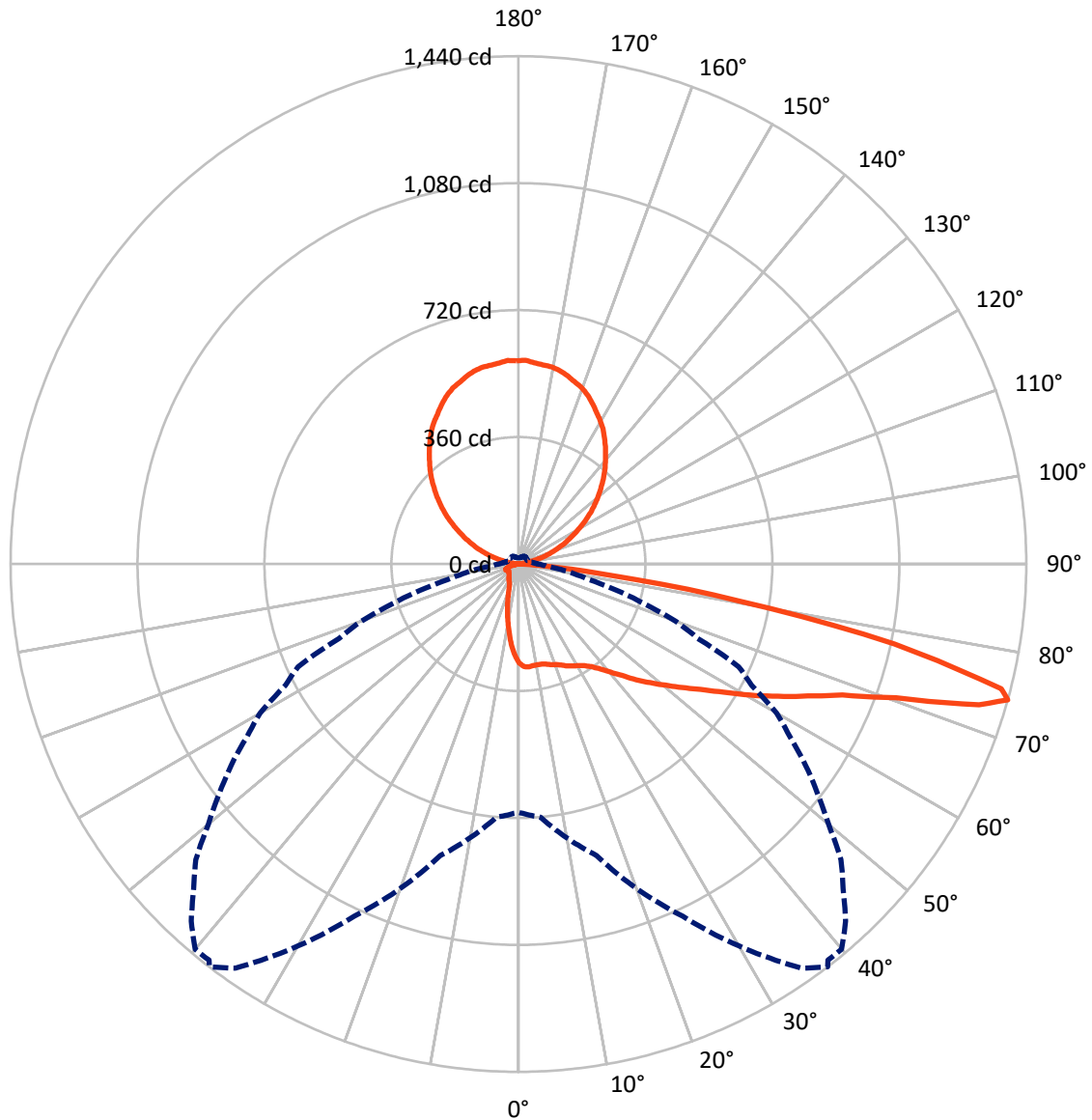


Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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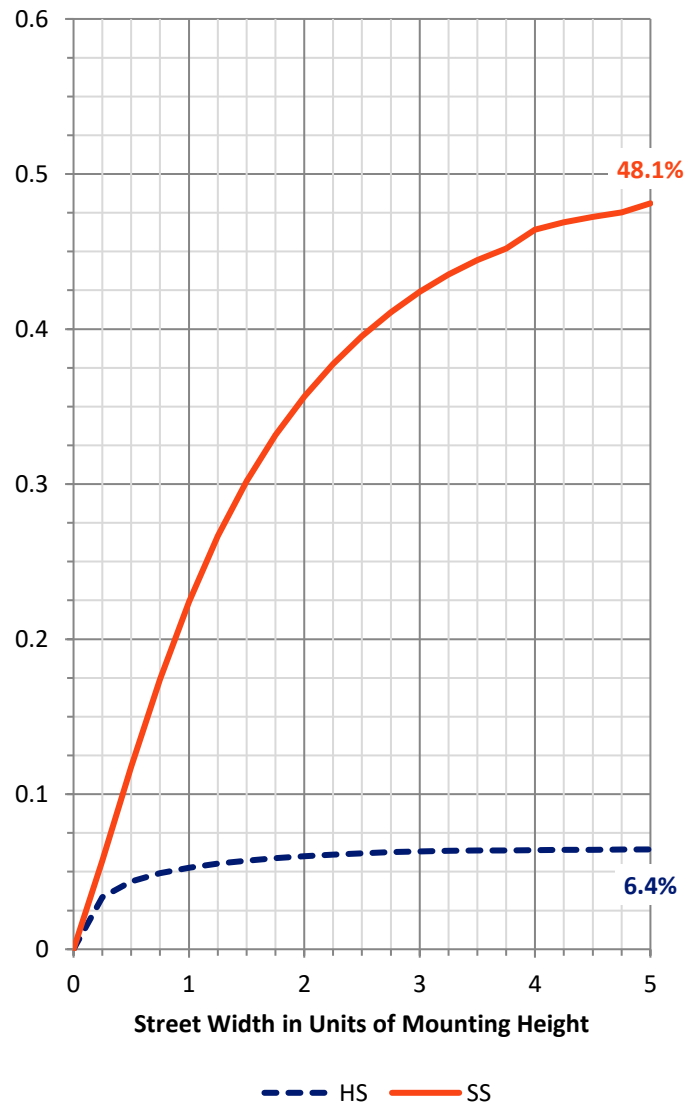
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	204.1	713.1	917.2
	% Fixture	6.5	22.7	29.1
<b>Street Side</b>	Lumens	1516.9	713.1	2230.0
	% Fixture	48.2	22.7	70.9
<b>Total</b>	Lumens	1721.0	1426.2	3147.2
	% Fixture	54.7	45.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.5	0.8
10°-20°	62.3	2.0
20°-30°	96.5	3.1
30°-40°	143.2	4.5
40°-50°	220.2	7.0
50°-60°	325.5	10.3
60°-70°	433.9	13.8
70°-80°	374.6	11.9
80°-90°	40.3	1.3
90°-100°	4.7	0.2
100°-110°	69.0	2.2
110°-120°	153.0	4.9
120°-130°	223.9	7.1
130°-140°	265.6	8.4
140°-150°	269.3	8.6
150°-160°	231.1	7.3
160°-170°	155.1	4.9
170°-180°	54.3	1.7
0°-90°	1721.0	54.7
0°-180°	3147.2	100.0



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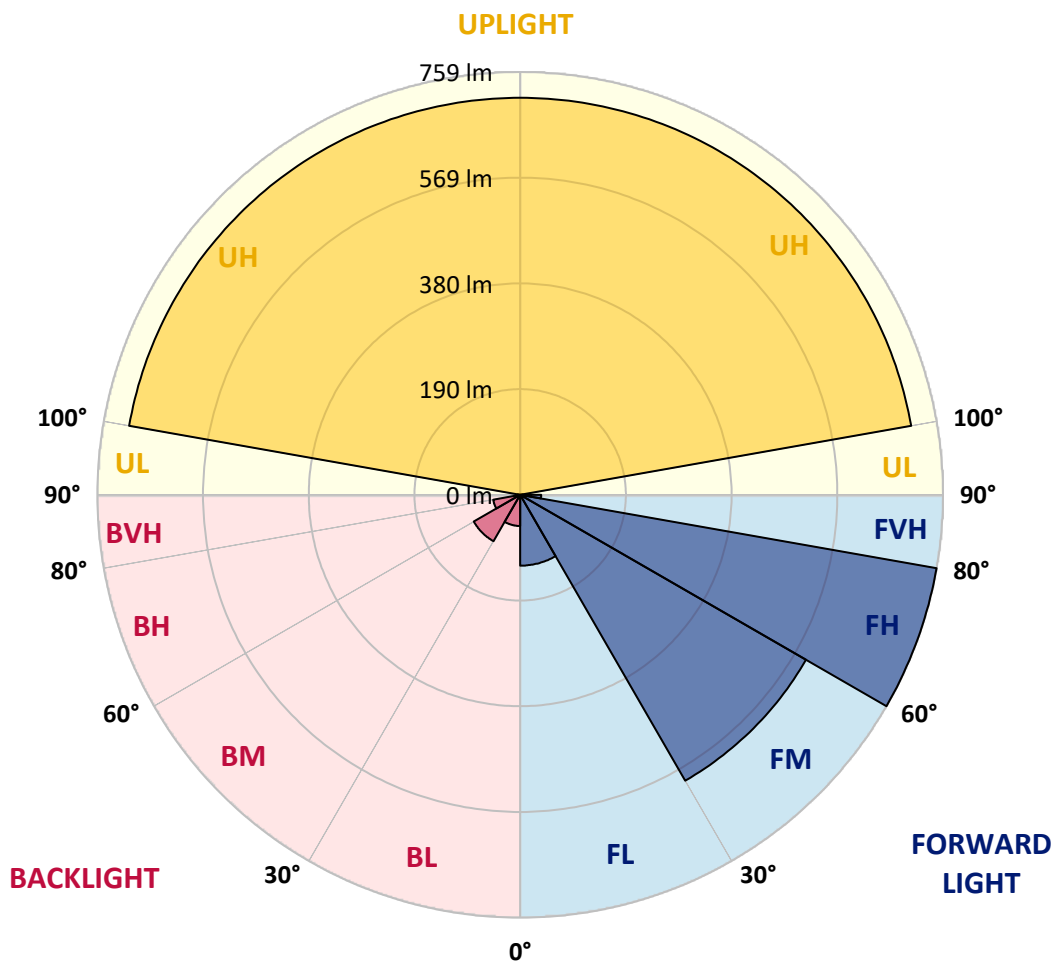
CATALOG NUMBER: ISC-AF-350-LED-E1-SL4-8030-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	127.2	4.0			
FM (30°-60°)	592.8	18.8			
FH (60°-80°)	759.3	24.1			G1/1800
FVH (80°-90°)	37.6	1.2			G1/100
BL (0°-30°)	56.0	1.8	B0/110		
BM (30°-60°)	96.2	3.1	B0/220		
BH (60°-80°)	49.2	1.6	B0/110		G0/110
BVH (80°-90°)	2.6	0.1			G0/10
UL (90°-100°)	4.7	0.2		U1/10	
UH (100°-180°)	713.1	22.7		U4/1000	

**BUG Rating: B0-U5-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
0°	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8
2.5°	296.9	296.3	295.0	294.3	293.1	291.1	293.1	290.5	289.2	290.5	287.9
5°	302.0	301.4	300.1	297.5	296.3	293.1	295.0	291.8	291.1	292.4	289.2
7.5°	302.7	301.4	299.5	296.3	295.0	291.1	292.4	288.6	287.3	288.6	286.6
10°	300.8	300.1	298.2	293.1	291.8	290.5	289.8	287.3	286.6	286.0	285.3
12.5°	297.5	297.5	296.3	294.3	293.7	291.1	291.8	289.2	289.8	288.6	287.3
15°	296.3	295.6	296.9	298.2	298.2	294.3	296.9	295.0	293.7	294.3	292.4
17.5°	295.0	295.6	300.1	302.7	304.0	300.1	304.0	300.1	297.5	300.8	297.5
20°	294.3	296.3	304.0	309.8	310.4	304.0	310.4	304.0	304.0	307.8	302.0
22.5°	297.5	300.8	311.7	318.1	319.4	311.0	318.8	310.4	310.4	313.6	307.8
25°	307.8	311.0	323.3	330.3	329.0	320.0	327.1	318.8	318.1	322.0	314.3
27.5°	321.3	325.8	337.4	343.8	339.3	327.1	337.4	325.2	325.2	331.0	320.7
30°	340.6	343.8	354.1	354.7	349.0	334.2	345.7	332.3	330.3	340.6	327.8
32.5°	361.8	364.4	372.1	367.6	359.2	343.8	357.3	341.2	340.6	351.5	336.8
35°	384.3	386.9	389.4	381.7	374.0	357.3	372.1	356.0	355.4	367.6	353.5
37.5°	407.4	407.4	407.4	398.4	393.3	377.2	390.7	377.9	376.6	389.4	376.0
40°	426.1	427.4	425.4	417.1	414.5	402.9	414.5	402.9	404.9	416.4	405.5
42.5°	441.5	442.8	443.4	436.4	438.9	432.5	441.5	433.1	433.8	446.6	440.2
45°	456.9	456.3	461.4	459.5	467.2	467.9	473.0	469.8	471.1	480.7	478.8
47.5°	473.0	469.8	475.6	483.9	498.1	502.6	505.8	507.1	512.2	516.7	521.2
50°	488.4	485.2	489.1	507.7	530.2	539.8	540.5	546.9	552.7	559.1	568.1
52.5°	504.5	501.9	505.8	532.1	568.1	581.6	579.7	590.6	599.0	606.0	620.8
55°	521.2	518.6	522.5	561.7	608.6	627.2	625.3	640.7	656.8	659.4	676.1
57.5°	537.3	534.0	545.0	596.4	656.8	685.1	676.1	699.9	715.3	714.0	737.1
60°	554.6	552.0	569.4	638.8	717.2	753.8	740.3	771.8	782.8	778.3	800.1
62.5°	571.3	570.7	599.6	688.3	790.5	825.8	813.6	841.2	848.9	843.2	854.1
65°	586.7	590.6	632.4	737.8	861.2	901.6	884.9	912.6	921.6	917.1	935.7
67.5°	612.4	616.9	672.9	800.7	948.6	990.3	976.2	1005.1	1018.6	1017.3	1037.9
70°	650.4	658.7	732.6	890.1	1081.6	1134.9	1127.2	1162.6	1195.3	1192.8	1213.3
72.5°	716.6	730.1	831.0	1028.9	1300.1	1365.0	1356.0	1375.9	1370.1	1323.2	1285.3
74°	703.7	720.4	855.4	1101.5	1398.4	1439.5	1424.8	1425.4	1372.7	1301.4	1240.3
75°	656.8	674.1	820.0	1092.5	1391.3	1413.8	1392.6	1366.3	1302.7	1230.0	1154.9
77.5°	450.5	473.0	602.8	882.4	1120.1	1089.3	1084.2	1034.0	949.8	868.2	771.8
80°	230.7	246.8	311.7	461.4	664.5	633.7	643.9	603.5	533.4	474.3	376.0
82.5°	55.3	59.1	91.9	178.7	287.9	263.5	267.3	236.5	196.0	160.0	124.0
85°	28.9	32.8	45.0	49.5	75.8	78.4	76.5	73.9	60.4	50.8	44.3
87.5°	0.0	0.0	0.0	1.3	0.6	0.0	0.6	0.0	0.0	0.6	1.3
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	5.5	6.5	7.8	9.0	10.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	24.4	26.0	28.0	30.0	30.5
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	46.5	47.5	48.8	50.0	50.2
105°	54.0	54.0	56.0	61.0	66.0	67.0	67.2	68.0	69.0	70.0	70.2
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	88.9	89.5	90.2	91.0	91.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
110°	101.0	102.0	103.0	106.0	110.0	110.5	110.6	111.0	111.5	112.0	112.5
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	132.6	133.0	133.5	134.0	134.5
115°	146.0	147.0	149.0	151.0	154.0	154.5	154.6	155.0	155.5	156.0	156.5
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	177.6	178.0	178.5	179.0	179.2
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.3	201.5	201.8	202.0	202.5
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.3	226.5	226.8	227.0	227.2
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.3	251.5	251.8	252.0	252.2
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	274.6	275.0	275.5	276.0	276.5
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.3	298.5	298.8	299.0	299.5
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.3	321.5	321.8	322.0	322.8
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.0	345.8
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.0	367.5
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.3	388.5	388.8	389.0	389.2
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.0	410.5
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.3	431.5	431.8	432.0	432.5
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.3	452.5	452.8	453.0	453.2
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.3	469.5	469.8	470.0	470.2
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.3	485.5	485.8	486.0	486.2
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.0	503.2
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	541.0	541.2
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.0	552.2
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.7	560.5	560.2	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.7	566.5	566.2	566.0	565.8
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.7	568.5	568.2	568.0	568.2
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.0	572.2
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.7	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°	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8
2.5°	289.8	288.6	289.8	286.0	287.9	284.7	286.0	282.8	284.1	281.5	282.1
5°	291.1	287.9	289.8	286.6	287.3	284.7	284.1	282.8	282.1	280.2	278.9
7.5°	287.9	285.3	284.7	283.4	281.5	282.1	279.6	278.9	277.0	277.0	273.1
10°	284.7	285.3	281.5	282.8	279.6	280.2	275.7	277.0	273.8	276.3	270.6
12.5°	287.3	287.9	284.7	286.6	280.8	282.1	278.3	280.2	275.7	278.9	271.8
15°	293.1	292.4	291.1	291.1	285.3	287.9	283.4	284.7	280.2	284.1	276.3
17.5°	298.2	297.5	295.6	295.0	291.1	291.8	287.3	289.8	284.7	287.9	280.2
20°	304.0	300.8	300.1	299.5	295.0	295.0	291.8	293.1	287.9	291.8	282.8
22.5°	308.5	305.9	305.3	302.7	299.5	300.8	296.3	296.9	291.8	295.6	287.9
25°	315.5	312.3	312.3	308.5	306.5	305.9	303.3	305.3	300.1	302.7	295.6
27.5°	325.2	318.1	320.7	316.8	315.5	314.9	313.6	314.9	311.0	313.0	305.9
30°	334.2	325.2	329.0	323.9	326.5	323.9	325.8	323.9	323.9	323.9	320.7
32.5°	346.4	335.5	343.2	335.5	340.6	336.8	343.2	339.3	341.9	341.2	340.0
35°	363.7	350.9	361.8	351.5	360.5	355.4	364.4	362.5	367.6	365.0	367.6
37.5°	386.9	373.4	386.2	376.6	387.5	379.8	392.7	391.4	402.3	398.4	402.3
40°	415.8	406.2	415.8	408.7	420.3	417.1	430.6	431.2	443.4	441.5	446.0
42.5°	447.9	440.9	450.5	446.6	458.2	460.8	476.2	480.1	491.6	494.8	495.5
45°	482.6	481.3	489.1	492.9	504.5	512.2	525.7	535.3	548.2	555.3	554.0
47.5°	523.1	528.3	533.4	543.0	553.3	569.4	582.9	595.1	609.9	614.4	616.3
50°	568.7	577.7	582.2	595.7	606.0	625.9	644.6	660.0	676.1	674.1	675.4
52.5°	616.9	628.5	634.9	651.0	664.5	687.6	703.7	718.5	738.4	733.3	731.3
55°	670.3	687.6	692.8	710.8	722.3	746.1	760.3	786.0	794.3	789.2	778.3
57.5°	726.8	747.4	753.2	777.6	783.4	809.1	821.3	838.7	845.7	837.4	823.2
60°	791.1	809.7	814.2	836.1	843.8	867.6	876.6	892.0	897.1	876.6	856.7
62.5°	855.4	874.7	877.2	896.5	904.2	924.8	935.1	944.1	941.5	911.3	886.2
65°	928.6	947.3	953.7	973.0	977.5	992.9	1001.3	991.0	985.2	939.6	911.3
67.5°	1045.0	1064.9	1067.4	1071.9	1071.3	1063.6	1059.7	1024.4	998.7	914.5	874.0
70°	1197.9	1183.1	1154.2	1120.8	1096.4	1052.7	1027.0	954.3	900.4	805.9	737.8
72.5°	1225.5	1177.3	1106.0	1048.8	989.7	920.9	865.7	755.8	679.9	581.0	509.0
74°	1147.1	1068.7	993.5	913.2	845.1	744.8	688.9	550.1	474.9	374.7	287.3
75°	1052.7	960.8	875.9	773.8	710.1	590.0	537.3	387.5	312.3	222.4	149.7
77.5°	671.6	561.7	480.7	362.5	313.0	215.9	158.1	98.3	72.6	63.6	55.3
80°	301.4	214.6	170.3	117.6	98.3	75.2	63.6	51.4	46.9	41.1	39.2
82.5°	96.4	77.1	73.3	65.6	65.6	52.7	45.0	35.3	32.1	27.6	25.1
85°	41.8	39.2	40.5	37.3	37.9	28.9	23.1	17.4	17.4	12.2	10.9
87.5°	1.3	0.0	0.6	0.0	1.3	0.0	0.6	0.0	0.6	0.0	0.6
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



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CATALOG NUMBER: ISC-AF-350-LED-E1-SL4-8030-ULG

**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
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



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CATALOG NUMBER: ISC-AF-350-LED-E1-SL4-8030-ULG

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8
2.5°	279.6	280.8	280.2	277.6	277.0	275.1	270.6	271.2	268.6	270.6	267.3
5°	277.0	276.3	273.8	270.6	267.3	263.5	260.3	259.0	256.4	255.1	253.2
7.5°	273.1	270.6	266.1	260.9	256.4	251.3	248.7	244.2	242.9	238.4	237.8
10°	271.8	267.3	262.2	255.8	248.1	240.4	239.7	232.0	231.4	224.3	222.4
12.5°	274.4	268.6	262.2	254.5	245.5	234.6	234.6	223.0	222.4	212.7	209.5
15°	279.6	272.5	264.1	255.1	243.6	230.1	229.4	215.9	214.6	203.1	199.2
17.5°	284.1	274.4	266.7	254.5	241.0	225.6	222.4	208.9	206.3	192.8	187.7
20°	287.3	276.3	267.3	253.2	236.5	218.5	214.0	199.9	194.1	180.6	173.5
22.5°	291.1	280.8	268.6	252.6	233.9	212.7	203.1	190.2	181.9	167.7	158.1
25°	296.9	287.9	273.1	254.5	232.0	206.9	194.1	180.6	169.0	154.9	140.7
27.5°	305.9	296.9	279.6	257.1	231.4	201.2	187.0	170.3	156.2	140.7	124.7
30°	318.8	309.1	290.5	264.1	232.0	196.7	179.3	161.3	144.6	126.6	109.9
32.5°	335.5	327.8	304.6	271.8	234.6	192.8	172.2	151.7	131.1	113.7	99.0
35°	358.6	353.5	324.5	286.6	241.0	190.9	165.2	142.7	119.5	102.2	86.1
37.5°	392.7	385.6	353.5	307.8	251.3	189.6	160.0	131.7	109.9	91.3	77.8
40°	435.7	426.1	387.5	333.5	267.3	190.2	155.5	123.4	101.5	81.6	70.7
42.5°	487.1	473.0	429.3	365.0	283.4	191.5	153.0	115.7	95.1	73.9	65.6
45°	545.0	528.9	478.8	404.2	306.5	194.7	151.0	109.3	89.3	68.1	62.3
47.5°	601.5	585.5	529.5	443.4	330.3	200.5	152.3	105.4	85.5	64.9	58.5
50°	656.8	640.1	574.5	478.8	350.9	208.2	157.5	106.0	84.8	63.6	56.6
52.5°	705.6	685.1	613.1	506.4	365.7	213.4	161.9	108.0	85.5	63.0	55.9
55°	754.5	728.1	643.9	528.3	374.7	214.0	161.9	108.6	86.1	63.0	55.3
57.5°	791.1	760.9	667.7	541.1	377.9	210.8	158.1	105.4	82.3	62.3	54.0
60°	814.2	782.1	684.4	549.5	373.4	197.3	137.5	93.2	72.6	57.8	50.1
62.5°	833.5	800.7	689.6	535.3	335.5	156.8	107.3	75.8	60.4	51.4	46.3
65°	838.0	798.8	653.6	473.0	262.2	108.6	77.8	59.8	49.5	45.6	41.8
67.5°	769.9	723.0	549.5	370.2	178.7	74.5	57.8	48.8	42.4	40.5	39.2
70°	625.9	574.5	402.3	242.3	99.6	52.1	44.3	40.5	36.6	36.6	34.7
72.5°	403.6	350.2	206.3	103.5	50.8	39.8	36.0	34.7	31.5	32.1	30.2
74°	206.3	160.7	84.2	54.6	41.8	35.3	32.1	31.5	28.3	28.9	27.0
75°	104.8	82.9	59.1	45.6	38.6	33.4	29.6	29.6	25.7	26.3	24.4
77.5°	48.8	46.9	40.5	36.0	32.8	28.3	24.4	23.8	19.9	21.2	18.6
80°	34.1	34.1	31.5	30.2	27.0	23.1	18.6	18.6	14.8	15.4	13.5
82.5°	19.3	18.0	18.0	20.6	21.2	17.4	13.5	12.9	10.9	10.9	9.0
85°	8.4	9.6	11.6	14.1	15.4	13.5	9.6	9.0	5.8	5.8	3.2
87.5°	0.0	0.6	0.6	1.3	2.6	2.6	0.0	1.3	0.0	0.6	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°
												72.5°
												74°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°



NUMBER: P228391  
 NUMBER: ISC-AF-350-LED-E1-SL4-8030-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°
280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	280.8	110°	114.0
268.6	265.4	267.3	264.1	265.4	262.2	263.5	261.6	259.6	257.1	256.4	112.5°	136.0
251.3	248.7	248.1	244.9	245.5	242.9	240.4	237.1	233.3	228.1	226.2	115°	158.0
232.0	231.4	226.9	224.9	222.4	219.8	215.3	210.1	202.4	195.4	190.9	117.5°	181.0
215.3	213.4	206.9	203.7	199.9	196.7	190.2	183.2	172.2	161.3	155.5	120°	204.0
201.2	198.6	190.2	186.4	180.6	176.7	169.0	160.0	144.6	129.2	122.1	122.5°	228.0
189.6	185.7	176.1	170.3	162.6	158.7	150.4	137.5	118.9	102.8	93.2	125°	254.0
176.1	170.9	160.7	153.6	145.9	138.8	130.5	117.0	95.8	81.0	71.3	127.5°	277.0
161.3	154.9	144.0	134.3	126.0	119.5	111.2	97.7	76.5	64.9	59.8	130°	301.0
145.9	135.6	126.0	117.6	108.0	101.5	93.2	81.0	64.9	58.5	56.6	132.5°	325.0
129.8	118.2	108.6	100.3	91.3	85.5	78.4	68.8	59.1	57.2	57.2	135°	348.0
113.7	102.2	93.2	84.8	77.1	73.3	66.8	60.4	55.9	56.6	57.2	137.5°	369.0
99.0	87.4	79.0	72.6	65.6	63.0	57.8	54.0	53.3	55.3	55.9	140°	390.0
86.1	75.8	68.1	63.0	57.2	55.9	51.4	49.5	51.4	54.0	53.3	142.5°	412.0
75.2	66.8	59.1	55.9	50.8	50.1	46.9	45.6	48.2	51.4	51.4	145°	433.0
66.8	59.1	53.3	50.8	46.9	46.3	43.7	42.4	44.3	48.8	50.1	147.5°	452.0
59.8	55.3	49.5	46.9	44.3	43.1	41.8	40.5	41.1	46.9	47.6	150°	469.0
55.3	52.1	46.9	45.6	42.4	41.8	39.8	38.6	39.2	43.7	45.6	152.5°	486.0
52.1	49.5	45.0	44.3	41.1	40.5	38.6	37.3	37.9	41.8	43.7	155°	503.0
49.5	46.9	43.1	41.8	39.8	39.2	37.9	36.6	36.6	40.5	42.4	157.5°	517.0
48.2	45.6	41.8	40.5	38.6	37.9	36.6	35.3	36.0	39.2	40.5	160°	530.0
47.6	44.3	41.1	39.2	37.9	36.6	35.3	34.1	34.7	37.9	39.2	162.5°	540.0
47.6	43.7	41.1	39.2	37.3	35.3	34.7	32.8	34.1	36.6	38.6	165°	550.0
47.6	43.7	41.1	39.2	37.9	36.0	34.7	33.4	34.1	36.6	38.6	167.5°	558.0
46.3	43.1	41.8	39.8	39.2	37.3	36.6	35.3	35.3	38.6	41.8	170°	564.0
44.3	42.4	41.8	40.5	40.5	39.2	39.2	37.9	37.9	41.8	45.0	172.5°	567.0
41.8	40.5	41.1	40.5	40.5	40.5	39.8	39.8	39.8	43.1	46.9	175°	570.0
39.2	38.6	39.2	39.2	39.8	39.2	39.8	39.2	39.2	42.4	46.3	177.5°	574.0
35.3	35.3	36.0	35.3	36.0	36.0	36.6	36.6	36.6	38.6	42.4	180°	576.0
30.8	30.2	30.8	30.2	31.5	30.2	31.5	32.1	31.5	32.1	34.1		
27.6	27.0	27.6	27.0	28.3	27.0	27.6	27.6	27.0	21.9	18.6		
25.1	24.4	25.1	24.4	25.7	24.4	25.7	25.1	23.8	16.1	15.4		
19.9	18.0	19.9	18.0	19.3	17.4	18.6	16.1	12.2	11.6	11.6		
14.8	12.9	14.1	12.2	11.6	9.0	9.6	9.0	8.4	9.0	9.0		
9.0	6.4	7.7	5.8	7.1	5.1	6.4	5.8	5.1	5.1	5.1		
4.5	3.2	4.5	2.6	3.9	2.6	3.2	3.2	1.9	1.9	1.9		
0.6	0.0	1.3	0.0	1.3	0.0	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	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		

'228391  
 ISC-AF-350-LED-E1-SL4-8030-ULG

REPORT NUMBER: P228391  
 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°	280.8	280.8
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	254.5	255.1
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	223.0	224.9
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	188.3	189.6
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	151.7	153.0
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	117.0	118.2
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	88.0	86.8
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	67.5	66.2
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	57.2	57.2
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	55.9	55.3
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	56.6	55.9
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	56.6	55.9
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	55.3	54.6
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	53.3	52.7
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	51.4	51.4
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	50.1	50.8
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	48.2	48.8
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	46.3	46.9
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	44.3	45.0
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	42.4	42.4
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	39.8	39.8
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	39.2	39.2
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	39.2	39.2
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	40.5	40.5
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	44.3	45.0
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	52.1	52.7
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	59.8	61.1
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	60.4	62.3
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	58.5	60.4
										72.5°	40.5	40.5
										74°	18.0	17.4
										75°	15.4	14.8
										77.5°	11.6	11.6
										80°	8.4	7.7
										82.5°	4.5	4.5
										85°	1.3	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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Scaled Data Report

