

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: P228196

Luminaire Tested: **ISS-AF-350-LED-E1-SL3-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-350-LED-E1-SL3-8030-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III 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: 3237.2 lumens  
Efficiency: N/A  
Efficacy: 88.0 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: B0 - U5 - G1

Input Watts (W): 36.79  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

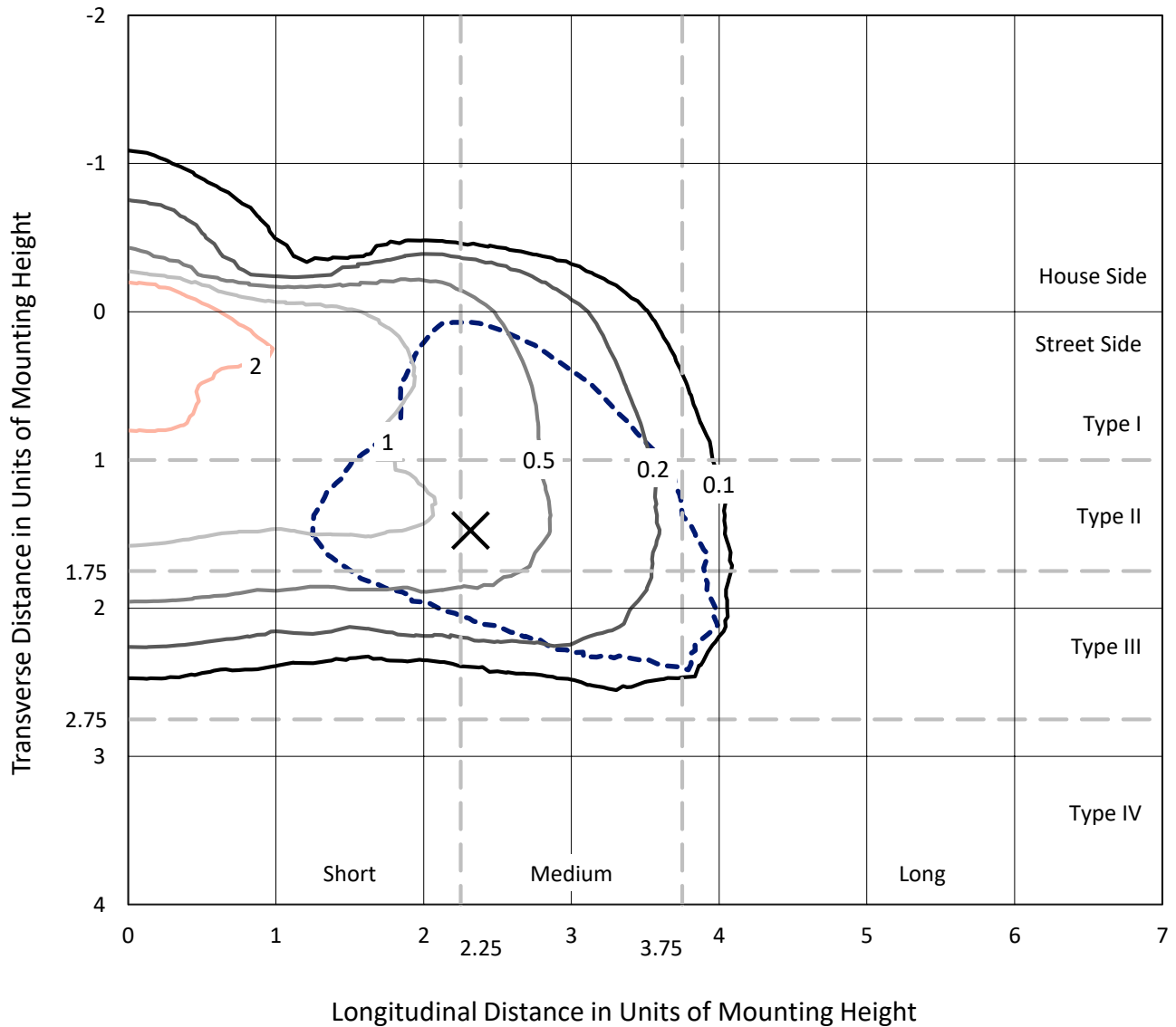


REPORT NUMBER: P228196

CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-8030-ULG

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

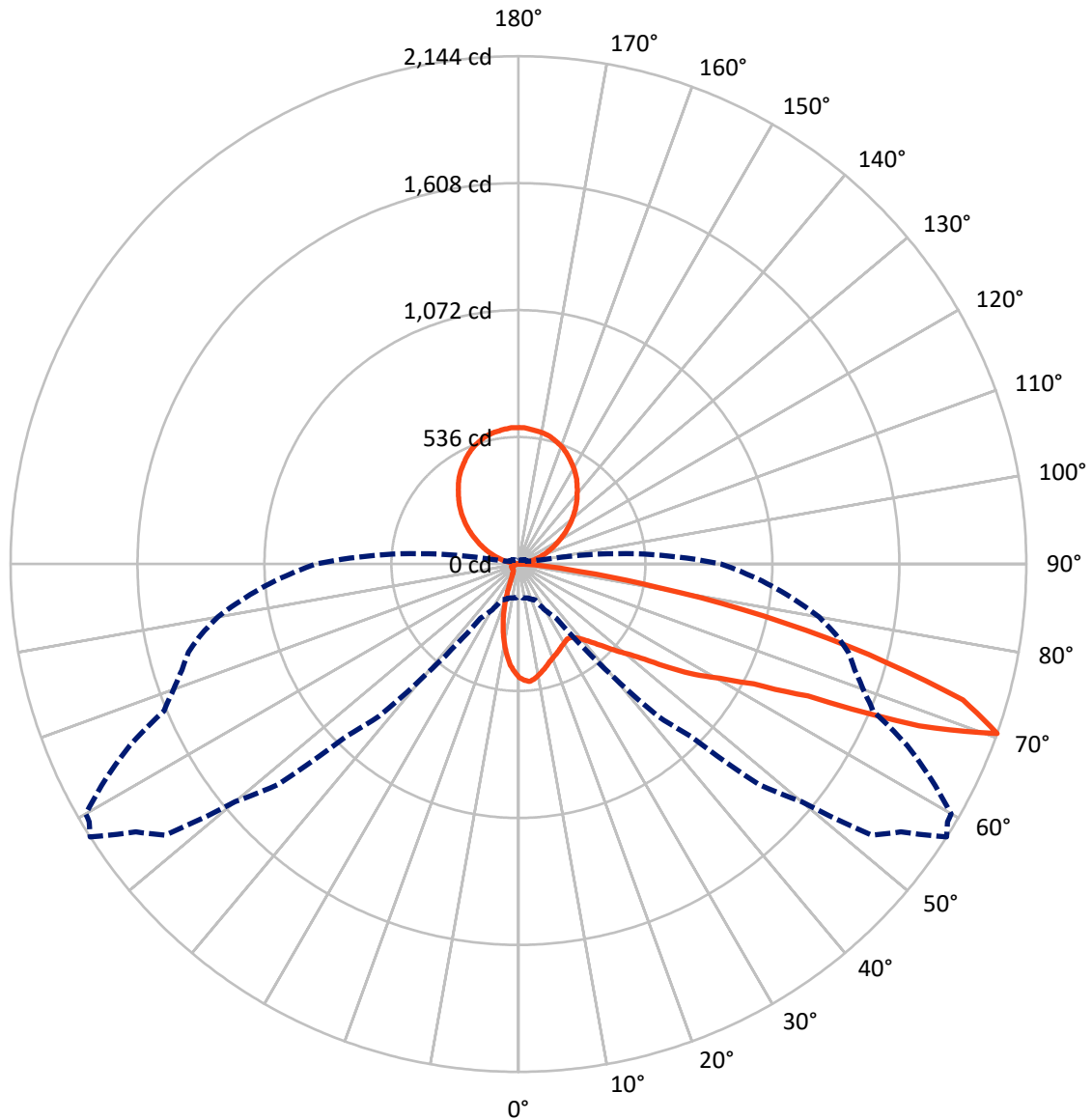


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P228196

CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-8030-ULG

### Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P228196

CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-8030-ULG

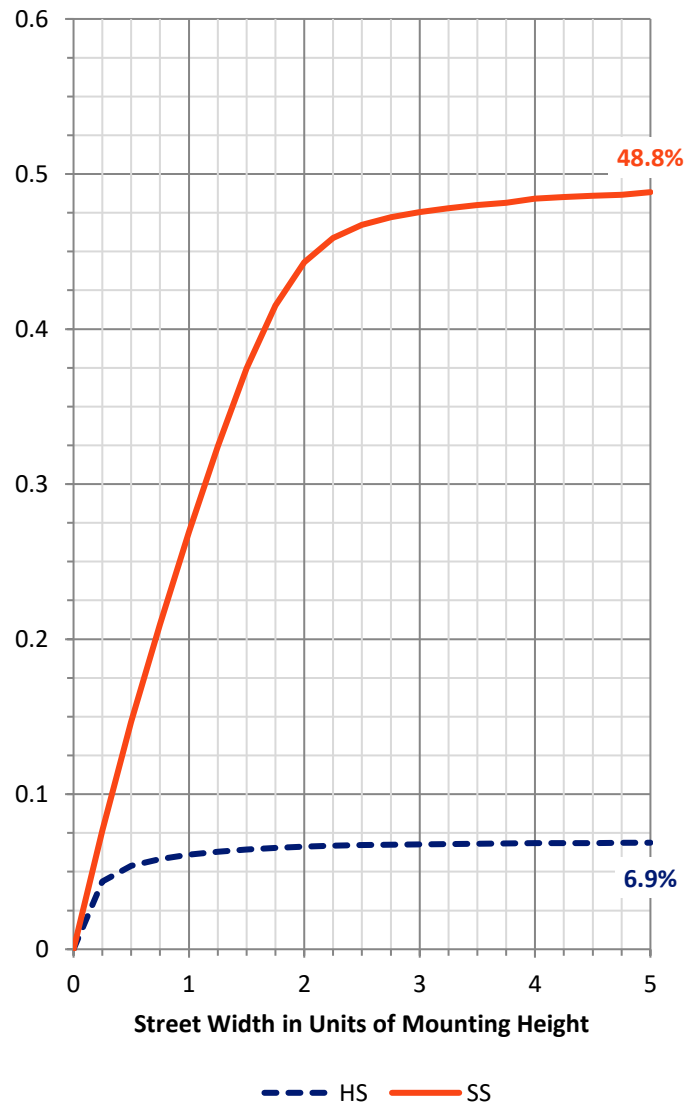
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	224.1	713.1	937.2
	% Fixture	6.9	22.0	29.0
<b>Street Side</b>	Lumens	1586.9	713.1	2300.0
	% Fixture	49.0	22.0	71.0
<b>Total</b>	Lumens	1811.0	1426.2	3237.2
	% Fixture	55.9	44.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.4	1.3
10°-20°	89.9	2.8
20°-30°	112.9	3.5
30°-40°	147.6	4.6
40°-50°	221.4	6.8
50°-60°	350.0	10.8
60°-70°	504.5	15.6
70°-80°	312.3	9.6
80°-90°	31.0	1.0
90°-100°	4.7	0.1
100°-110°	69.0	2.1
110°-120°	153.0	4.7
120°-130°	223.9	6.9
130°-140°	265.6	8.2
140°-150°	269.3	8.3
150°-160°	231.1	7.1
160°-170°	155.1	4.8
170°-180°	54.3	1.7
0°-90°	1811.0	55.9
0°-180°	3237.2	100.0



REPORT NUMBER: P228196

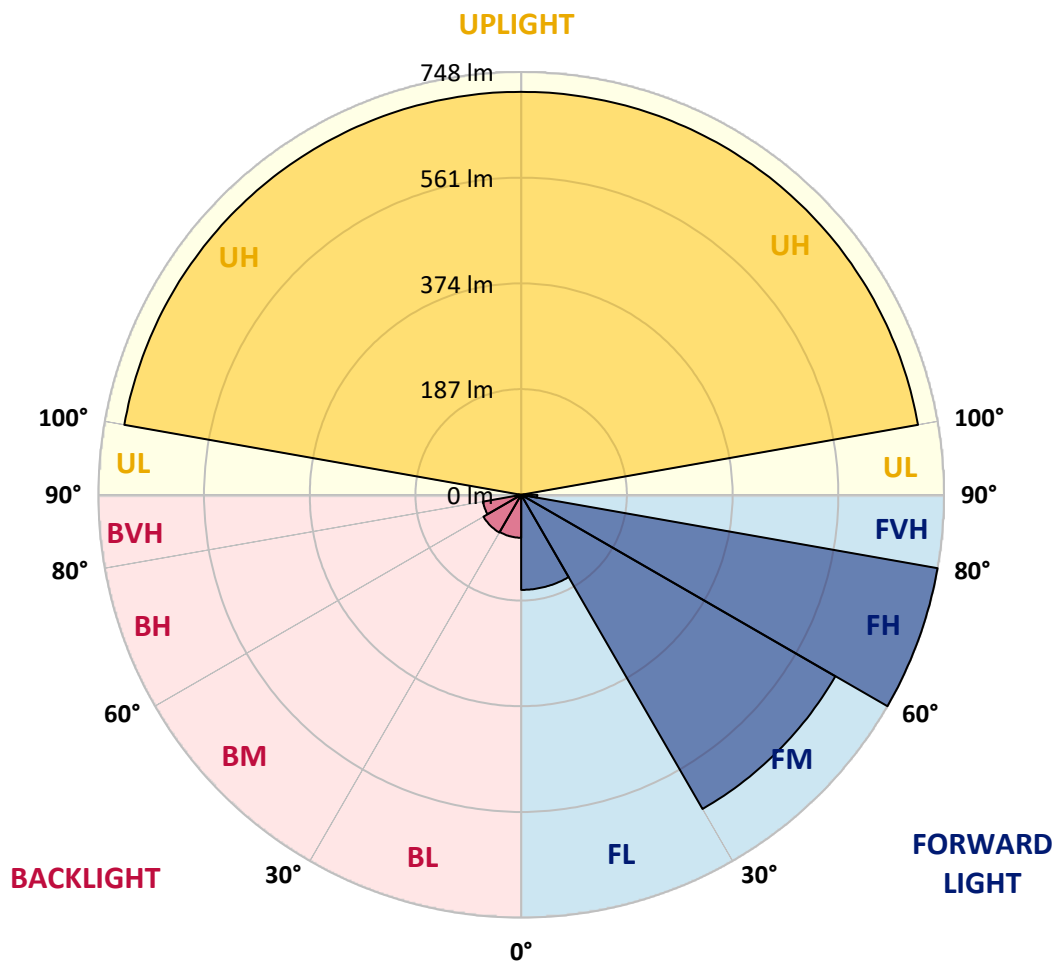
CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-8030-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.2	5.2			
FM (30°-60°)	642.0	19.8			
FH (60°-80°)	748.2	23.1			G1/1800
FVH (80°-90°)	28.5	0.9			G1/100
BL (0°-30°)	76.0	2.3	B0/110		
BM (30°-60°)	77.1	2.4	B0/220		
BH (60°-80°)	68.6	2.1	B0/110		G0/110
BVH (80°-90°)	2.5	0.1			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	22.0		U4/1000	

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

Type III Medium





REPORT NUMBER: P228196

CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-8030-ULG

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3
2.5°	503.1	502.5	501.2	498.6	497.3	498.6	497.3	495.4	492.8	494.8	493.5
5°	501.8	503.1	500.5	498.6	501.8	503.1	500.5	500.5	498.0	500.5	499.3
7.5°	476.8	477.4	478.1	477.4	485.8	485.8	484.5	485.8	486.4	487.7	488.3
10°	445.3	445.9	447.2	449.1	459.4	460.7	461.3	462.6	464.6	465.8	469.7
12.5°	413.8	415.1	417.7	424.1	435.0	436.3	438.2	440.1	443.4	445.3	452.4
15°	387.5	388.1	390.7	397.7	413.8	417.0	418.3	420.9	427.3	427.3	435.0
17.5°	363.0	364.3	366.3	374.6	390.7	395.8	399.7	401.0	409.3	411.2	420.2
20°	344.4	345.0	345.7	353.4	368.2	375.9	379.1	384.2	390.7	395.8	403.5
22.5°	334.1	334.8	333.5	336.7	349.5	359.2	363.0	368.2	370.8	379.7	384.2
25°	334.8	335.4	332.2	330.3	336.7	347.0	350.2	355.3	354.0	366.9	366.9
27.5°	341.2	342.5	339.3	333.5	334.1	342.5	344.4	346.3	342.5	355.3	352.8
30°	354.0	355.3	351.5	347.0	339.9	345.0	345.0	345.0	338.0	348.9	344.4
32.5°	367.5	368.8	367.5	364.3	355.3	356.6	354.0	352.8	343.1	352.1	345.0
35°	387.5	388.1	388.7	388.7	375.9	378.5	371.4	367.5	358.5	365.6	356.0
37.5°	411.2	411.2	415.7	417.7	403.5	403.5	395.8	390.7	382.3	384.9	375.2
40°	432.4	434.4	444.6	450.4	437.6	432.4	426.0	421.5	415.1	415.1	405.4
42.5°	456.9	460.7	472.9	483.8	476.8	469.1	462.6	458.1	454.9	454.3	444.0
45°	487.1	491.5	505.0	515.3	517.3	511.5	506.3	501.8	499.3	498.0	489.0
47.5°	521.1	525.6	537.8	550.0	559.0	557.7	551.9	547.5	549.4	548.1	542.3
50°	559.0	561.6	569.3	583.4	604.0	608.5	607.2	604.0	607.9	607.9	602.7
52.5°	589.2	591.1	596.9	613.6	647.7	658.0	666.3	672.7	679.2	683.0	679.8
55°	616.8	616.8	617.5	638.7	689.5	706.2	724.8	738.3	746.6	762.1	768.5
57.5°	661.8	658.6	658.0	680.5	739.6	756.9	783.9	803.2	814.8	846.2	845.6
60°	649.0	650.3	673.4	739.6	842.4	857.8	882.2	902.8	924.6	947.8	949.7
62.5°	559.7	562.9	597.6	696.5	907.9	988.2	1063.4	1120.6	1152.7	1173.3	1145.0
65°	392.0	399.7	446.6	567.4	836.0	960.0	1078.8	1211.2	1312.7	1470.2	1515.8
67.5°	195.3	201.1	208.8	297.5	624.6	798.7	962.5	1143.1	1278.0	1509.3	1638.5
70°	140.1	142.6	148.4	167.1	279.5	418.3	611.1	869.4	1028.1	1377.0	1559.5
72.5°	108.6	111.2	118.9	145.2	185.1	204.3	242.9	397.1	590.5	951.0	1197.7
75°	84.2	88.0	99.0	131.1	178.0	188.9	190.8	205.0	233.9	422.2	671.5
77.5°	59.1	59.8	70.7	113.1	172.8	194.0	190.8	190.8	194.7	215.3	287.2
80°	39.2	39.8	46.9	78.4	151.6	176.7	195.3	186.3	187.0	190.2	195.3
82.5°	20.6	21.8	27.6	47.5	88.7	119.5	162.6	169.6	167.1	170.3	169.0
85°	5.8	5.8	9.6	18.0	43.7	46.3	72.0	98.3	100.2	113.7	121.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.6	5.8	6.4
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
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0



REPORT NUMBER: P228196

CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-8030-ULG

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
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





REPORT NUMBER: P228196

CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-8030-ULG

**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3
2.5°	494.8	492.2	491.5	490.3	490.9	489.0	488.3	485.8	485.8	484.5	483.2
5°	498.0	495.4	498.0	493.5	494.1	492.2	489.0	489.0	486.4	484.5	480.6
7.5°	489.0	489.0	489.6	487.1	487.7	487.1	483.2	482.6	478.7	478.7	474.2
10°	472.3	472.3	474.8	472.9	473.6	472.9	471.0	470.3	469.1	469.1	462.0
12.5°	453.0	456.9	460.7	458.8	458.8	460.1	460.1	460.7	460.1	459.4	453.6
15°	436.9	442.7	446.6	445.9	446.6	449.8	451.1	451.7	453.6	453.0	447.9
17.5°	422.2	428.6	431.8	434.4	436.3	438.9	442.7	444.6	447.2	446.6	441.4
20°	408.7	414.4	420.2	423.4	424.1	429.2	433.7	439.5	440.8	442.1	435.6
22.5°	394.5	399.7	411.2	409.3	413.8	423.4	426.0	434.4	434.4	438.9	429.9
25°	382.3	383.0	401.0	397.7	401.6	418.9	420.9	435.6	431.8	438.2	427.9
27.5°	370.1	369.5	391.3	387.5	392.0	415.7	417.0	437.6	433.7	441.4	427.9
30°	361.1	359.2	384.2	376.5	383.0	412.5	413.2	439.5	436.3	446.6	432.4
32.5°	359.2	356.0	377.8	372.0	378.5	409.3	413.2	446.6	442.7	455.6	437.6
35°	367.5	362.4	381.0	375.9	381.0	410.6	416.4	457.5	453.0	467.8	449.8
37.5°	383.0	379.1	394.5	389.4	393.2	419.6	424.7	471.6	471.0	489.0	468.4
40°	409.9	406.1	418.3	411.2	414.4	438.9	441.4	491.5	493.5	515.3	494.8
42.5°	446.6	440.1	449.8	441.4	445.9	467.8	465.2	516.0	521.7	551.9	528.2
45°	493.5	485.1	490.9	481.9	485.1	503.8	496.7	548.7	554.5	591.8	570.6
47.5°	544.9	534.6	541.7	530.1	532.0	551.9	539.1	587.9	596.9	643.8	623.3
50°	606.6	593.1	595.6	584.7	586.0	605.9	591.8	636.1	647.0	699.1	681.1
52.5°	685.6	666.3	666.3	651.5	652.2	672.1	654.8	693.3	705.5	758.2	746.0
55°	789.7	774.3	771.1	755.6	750.5	754.4	729.9	756.9	770.4	819.9	810.3
57.5°	872.6	870.7	880.3	858.4	853.3	854.6	823.7	825.7	841.1	879.6	882.9
60°	973.5	976.7	978.0	960.0	958.0	940.0	908.6	903.4	922.7	949.0	959.3
62.5°	1134.1	1130.9	1114.8	1101.3	1089.1	1040.9	1023.6	995.3	1022.3	1037.1	1058.3
65°	1479.1	1445.7	1342.9	1351.9	1319.8	1215.1	1200.3	1143.1	1185.5	1186.1	1226.0
67.5°	1821.0	1886.5	1823.6	1824.8	1752.2	1562.7	1517.1	1403.3	1427.1	1399.5	1420.0
70°	1879.5	1971.3	2143.5	2112.7	2108.8	1963.0	1809.4	1619.9	1548.5	1489.4	1441.9
72.5°	1617.3	1709.2	1961.7	1891.7	1918.0	1962.3	1802.3	1660.3	1501.0	1425.8	1323.0
75°	1138.0	1270.3	1526.7	1490.1	1509.3	1582.6	1445.1	1428.4	1244.0	1193.9	1035.8
77.5°	609.8	773.6	1060.8	1015.9	1024.2	1066.0	922.7	893.1	715.2	665.7	486.4
80°	274.4	380.4	595.6	545.5	530.7	507.0	373.3	294.3	179.9	119.5	82.9
82.5°	181.8	188.9	264.1	228.7	214.0	176.7	114.4	67.5	53.3	45.0	43.1
85°	122.1	111.8	111.2	98.3	91.2	72.0	53.3	33.4	27.6	23.1	21.2
87.5°	7.1	4.5	6.4	7.1	5.1	4.5	3.2	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°	12.0	13.0	11.5	10.6	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.5	31.2	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.6	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.6	92.5	92.2	92.0	91.8	91.5	91.2	91.0
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0



REPORT NUMBER: P228196

CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-8030-ULG

**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	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	180.4	180.5	180.8	181.0	180.8	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	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.4	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.6	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.6	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.5	453.2	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.5	470.2	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.6	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.6	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.5	518.2	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.5	531.2	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.5	541.2	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.2	551.8	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.5	559.2	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.6	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.5	568.2	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.2	571.8	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.2	575.8	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



REPORT NUMBER: P228196

CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-8030-ULG

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3
2.5°	480.0	480.0	479.3	474.8	472.3	471.0	466.5	465.8	463.9	463.3	463.3
5°	479.3	476.8	473.6	467.1	460.7	454.9	453.0	448.5	445.3	441.4	441.4
7.5°	470.3	467.8	460.7	451.1	442.7	434.4	429.9	423.4	418.3	413.2	411.9
10°	460.1	456.2	446.6	433.7	422.8	408.0	402.2	393.9	388.1	380.4	372.7
12.5°	449.1	446.6	435.0	420.2	403.5	384.9	375.9	364.3	356.6	347.6	336.1
15°	444.6	439.5	424.7	406.1	385.5	363.0	350.2	338.0	326.4	316.1	300.7
17.5°	438.9	432.4	415.7	393.9	368.2	341.2	324.5	311.0	295.6	284.6	267.3
20°	432.4	422.8	404.8	378.5	349.5	317.4	296.2	282.7	262.2	251.2	230.7
22.5°	427.3	415.1	393.2	363.7	329.0	293.0	267.9	252.5	229.4	216.5	190.8
25°	426.0	411.2	384.9	351.5	311.6	269.2	239.0	223.6	194.7	179.9	149.7
27.5°	426.7	409.3	379.7	341.2	296.2	248.0	212.0	194.0	157.4	142.0	107.3
30°	427.3	409.9	374.6	332.2	282.1	226.2	183.8	162.6	118.9	105.4	74.5
32.5°	433.7	412.5	373.3	325.1	269.2	204.3	151.6	132.4	84.2	76.5	55.3
35°	441.4	420.9	375.9	323.8	259.6	182.5	118.9	99.0	60.4	58.5	45.0
37.5°	457.5	433.7	386.2	327.1	253.8	160.0	88.7	75.8	47.5	48.8	39.2
40°	481.9	455.6	402.9	336.7	253.2	137.5	65.5	59.1	41.1	42.4	36.0
42.5°	514.7	485.8	428.6	357.3	256.4	116.3	52.7	50.8	37.9	39.2	34.7
45°	557.7	528.2	464.6	383.6	265.4	99.0	46.3	46.3	36.6	37.9	34.1
47.5°	612.3	579.6	508.9	418.9	279.5	89.3	43.7	44.3	36.0	37.9	34.1
50°	674.0	638.1	565.4	464.6	301.4	86.7	44.3	44.3	36.6	37.9	34.1
52.5°	738.3	704.9	626.5	516.6	331.6	92.5	45.6	45.0	36.6	37.9	33.4
55°	803.8	773.6	694.0	577.7	373.3	113.1	48.8	46.9	36.6	37.9	34.1
57.5°	869.4	848.2	764.6	643.2	425.4	150.4	61.7	54.6	40.5	41.1	34.7
60°	943.3	927.8	844.3	729.3	499.3	208.2	90.6	68.8	48.2	45.6	37.3
62.5°	1039.0	1035.1	969.0	853.3	618.1	291.7	128.5	83.5	52.0	47.5	39.8
65°	1208.0	1218.3	1155.3	998.5	697.2	293.6	125.3	73.3	48.8	45.0	39.2
67.5°	1377.6	1347.4	1185.5	976.7	629.1	195.3	79.7	57.2	43.1	41.8	36.6
70°	1371.2	1289.0	1075.0	853.9	496.7	106.0	57.8	47.5	38.6	38.6	34.7
72.5°	1229.8	1107.8	879.0	676.0	331.6	67.5	48.8	41.8	35.3	34.7	32.1
75°	925.9	782.0	564.8	389.4	147.8	43.7	37.3	34.1	30.8	30.8	28.3
77.5°	435.6	245.5	136.2	90.6	49.5	29.6	25.7	25.7	25.1	25.7	23.1
80°	59.1	53.3	45.6	39.8	30.2	20.6	18.6	19.3	18.6	19.3	17.3
82.5°	36.0	32.1	26.3	25.1	18.6	14.1	13.5	14.1	12.9	13.5	10.3
85°	17.3	15.4	12.2	11.6	9.6	8.4	7.1	8.4	6.4	7.1	4.5
87.5°	0.0	1.3	0.6	1.3	1.3	1.3	0.0	1.3	0.0	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8



REPORT NUMBER: P228196  
 CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-8030-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	0°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	2.5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	7.5°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	10°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	12.5°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	15°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	17.5°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	20°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	22.5°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	25°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	27.5°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	30°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	32.5°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	35°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	37.5°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	40°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	42.5°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	45°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	47.5°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	50°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	52.5°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	55°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	57.5°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	60°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	62.5°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

NUMBER: P228196  
 NUMBER: ISS-AF-350-LED-E1-SL3-8030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	115°	115°
479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	112.5°	136.0
460.1	458.1	457.5	454.9	454.3	451.7	451.1	448.5	444.0	442.1	438.9	115°	158.0
435.6	432.4	429.9	428.6	423.4	420.9	417.0	411.9	402.2	397.7	390.0	117.5°	181.0
401.6	401.0	393.2	390.7	384.2	379.7	374.0	365.6	351.5	343.1	330.9	120°	204.0
364.3	361.8	352.8	347.6	339.3	332.8	325.1	312.9	291.1	273.7	255.1	122.5°	228.0
329.6	321.9	311.6	303.9	293.6	284.6	275.7	257.0	222.3	194.0	168.3	125°	254.0
293.6	282.1	271.2	258.3	247.4	233.2	223.0	198.5	152.9	118.2	102.2	127.5°	277.0
257.0	241.0	228.7	211.4	199.2	179.9	169.0	139.4	100.2	84.8	79.7	130°	301.0
218.5	197.3	183.8	162.6	150.4	125.9	117.6	96.4	77.1	71.3	70.0	132.5°	325.0
177.3	151.6	136.9	113.7	105.4	90.6	84.2	73.9	64.9	62.3	63.6	135°	348.0
134.3	106.7	97.0	80.3	77.1	69.4	66.8	61.7	57.2	57.2	59.1	137.5°	369.0
95.7	74.5	72.0	61.7	61.0	57.2	55.3	52.7	51.4	52.7	55.3	140°	390.0
70.0	56.5	56.5	50.8	50.8	48.2	47.5	46.3	46.3	48.8	51.4	142.5°	412.0
55.3	46.3	47.5	43.1	43.7	41.8	42.4	41.8	42.4	44.3	46.3	145°	433.0
46.3	39.8	41.8	37.9	39.2	37.3	38.6	38.6	39.8	40.5	41.1	147.5°	452.0
41.1	36.6	37.9	35.3	36.6	34.7	36.6	36.6	37.3	37.3	37.3	150°	469.0
37.9	34.1	36.0	33.4	35.3	33.4	35.3	35.3	34.7	34.1	34.7	152.5°	486.0
36.0	33.4	35.3	32.8	34.7	32.8	34.1	33.4	32.1	32.1	32.1	155°	503.0
35.3	32.8	34.1	32.1	33.4	31.5	32.8	32.1	30.2	29.6	30.8	157.5°	517.0
35.3	32.1	34.1	31.5	32.8	30.8	32.1	30.2	28.3	28.3	30.2	160°	530.0
35.3	32.1	34.1	31.5	32.8	30.2	30.8	28.9	26.3	27.0	29.6	162.5°	540.0
36.0	33.4	34.7	32.1	32.8	28.9	30.2	27.6	25.7	26.3	28.3	165°	550.0
36.6	33.4	34.7	30.8	31.5	28.9	28.9	27.6	25.7	25.7	27.6	167.5°	558.0
36.6	32.8	33.4	30.2	30.8	27.6	28.3	27.0	25.1	24.4	25.7	170°	564.0
37.9	34.1	34.1	29.6	30.2	27.0	27.6	26.3	24.4	23.1	23.8	172.5°	567.0
39.2	34.7	35.3	30.8	30.8	27.6	28.3	25.7	23.1	21.8	22.5	175°	570.0
39.2	34.7	35.3	31.5	31.5	28.3	28.3	25.7	21.8	20.6	20.6	177.5°	574.0
37.3	34.1	34.7	31.5	31.5	28.3	28.3	25.1	21.2	19.3	18.6	180°	576.0
36.0	32.8	33.4	30.2	30.8	27.6	28.3	27.0	25.1	24.4	25.7		
32.8	30.2	30.2	27.6	27.0	23.8	23.8	21.8	18.6	16.1	14.8		
28.3	25.7	25.1	22.5	22.5	20.6	19.9	18.0	15.4	13.5	12.9		
23.1	19.9	19.9	16.7	16.7	14.8	15.4	13.5	11.6	10.9	10.3		
16.7	13.5	13.5	10.9	10.9	9.0	9.6	9.0	8.4	8.4	7.7		
10.3	7.1	7.7	5.8	7.1	5.1	5.8	5.1	5.1	4.5	4.5		
5.1	2.6	3.9	1.9	3.2	0.6	1.9	1.3	1.3	1.3	1.3		
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	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		
114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0		

'228196  
 ISS-AF-350-LED-E1-SL3-8030-ULG

REPORT NUMBER: P228196  
 CATALOG NUMBER: ISS-AF-350

**TION (continued):**

**CANDELA DISTRIBUTION (con**

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	0°	479.3	479.3
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	435.6	437.6
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	387.5	388.1
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	329.0	327.7
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	251.2	248.0
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	161.9	157.4
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	97.7	96.4
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	78.4	78.4
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	70.0	70.0
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	64.9	64.9
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	61.0	61.7
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	57.8	57.8
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	54.0	54.0
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	47.5	47.5
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	42.4	41.8
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	37.9	38.6
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	34.7	35.3
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	33.4	33.4
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	32.1	32.1
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	32.1	32.1
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	31.5	32.1
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	30.8	30.8
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	28.9	29.6
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	27.0	27.6
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	25.1	25.1
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	22.5	22.5
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	20.6	20.6
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	18.0	18.0
										70°	16.1	16.1
										72.5°	14.1	14.1
										75°	12.2	12.2
										77.5°	10.3	9.6
										80°	7.7	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
										110°	102.0	101.0



REPORT NUMBER: P228196

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

**CANDELA DISTRIBUTION (continued):**

	175°	180°
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  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

