

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: P228068

Luminaire Tested: **ISS-AF-350-LED-E1-SL2-7050-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228068  
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: ISS-AF-350-LED-E1-SL2-7050-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3683.2 lumens  
Efficiency: N/A  
Efficacy: 100.1 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

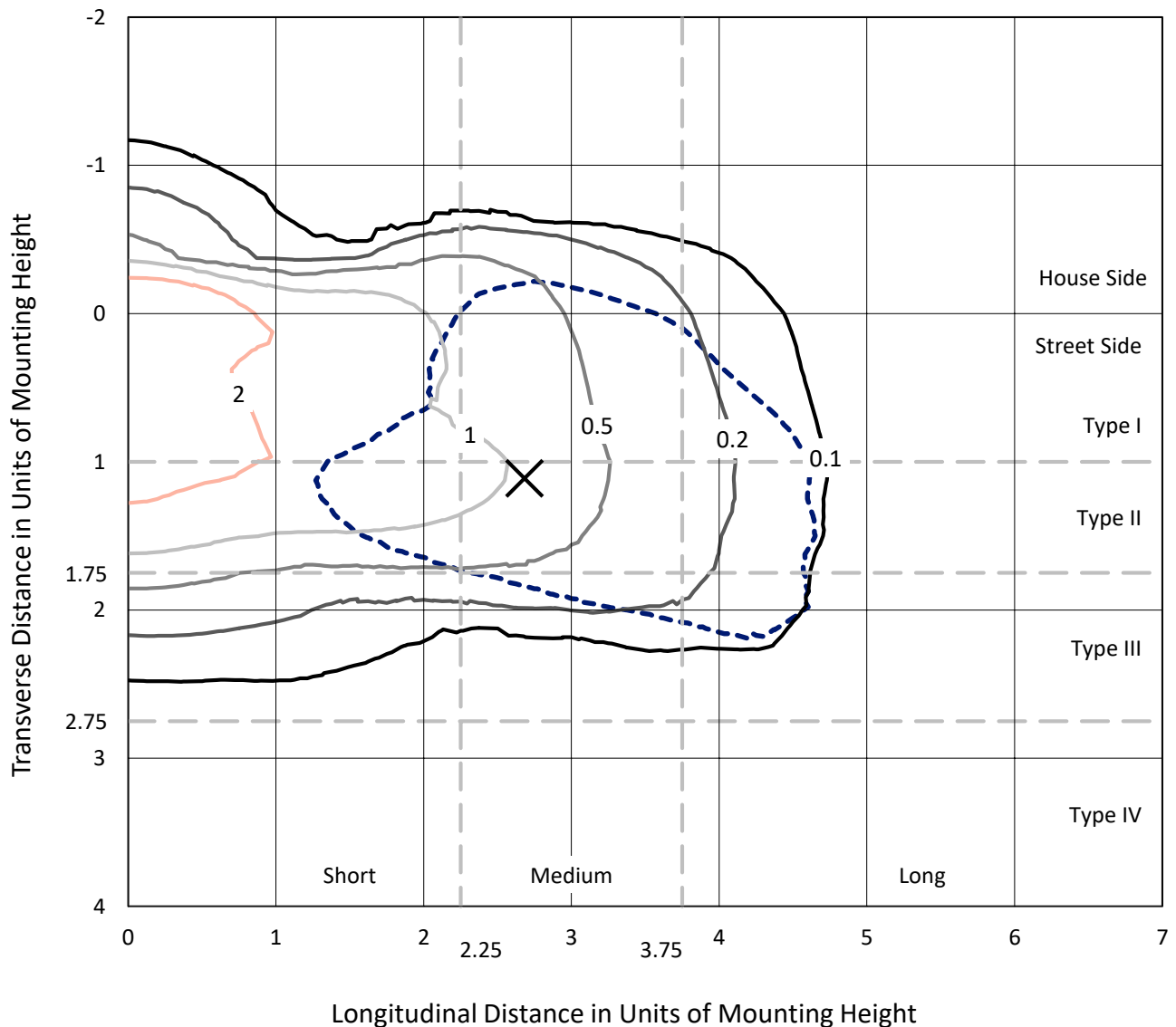


REPORT NUMBER: P228068

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7050-ULG

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

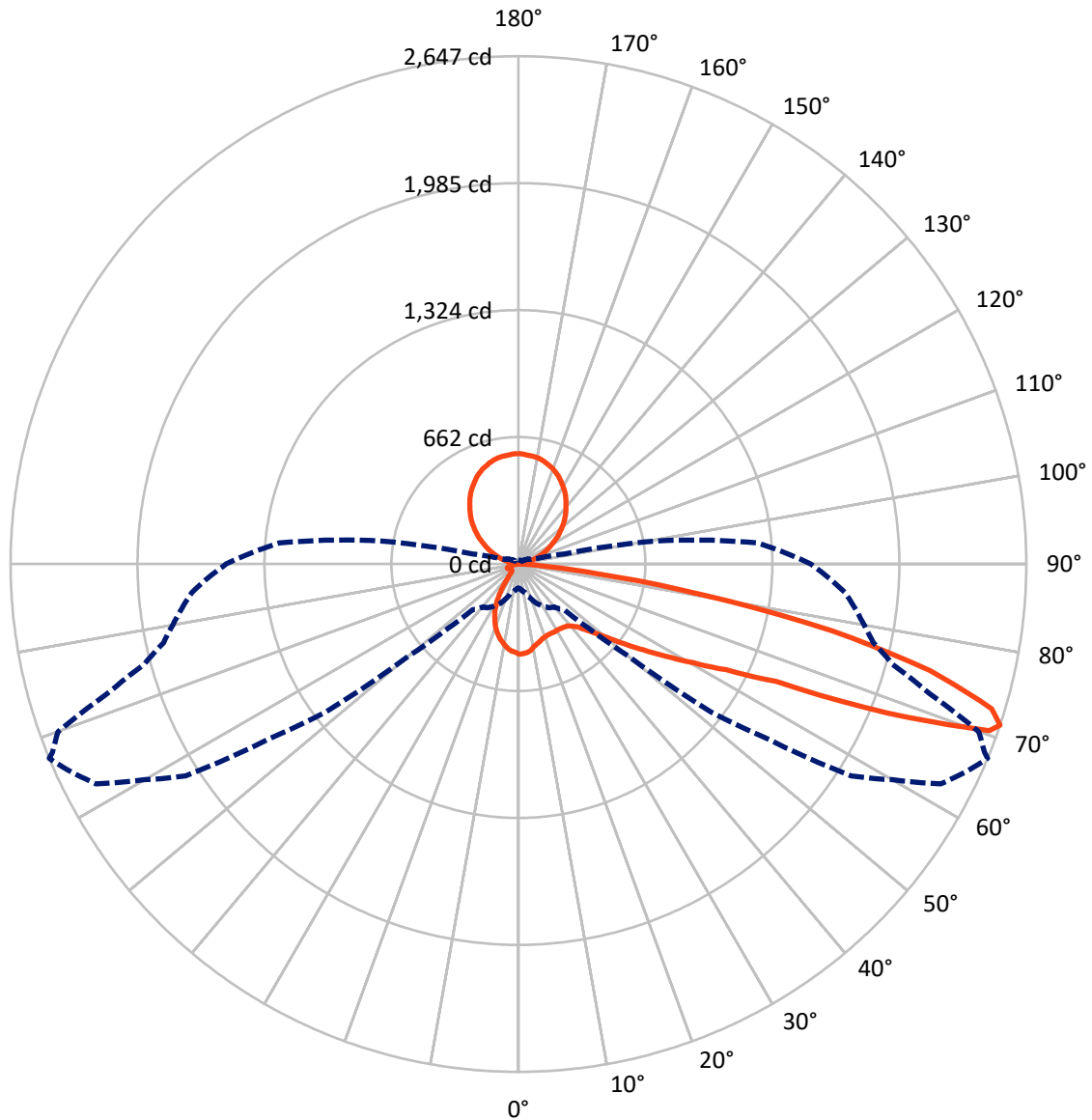


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P228068

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7050-ULG

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P228068

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7050-ULG

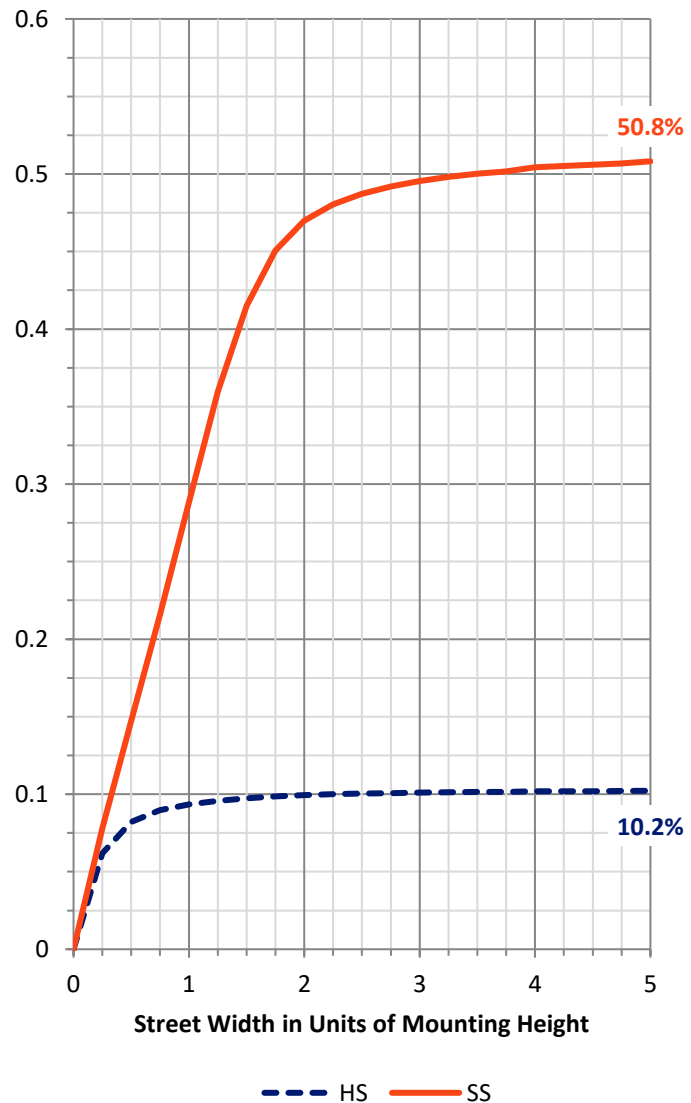
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	380.3	713.1	1093.4
	% Fixture	10.3	19.4	29.7
<b>Street Side</b>	Lumens	1876.7	713.1	2589.8
	% Fixture	51.0	19.4	70.3
<b>Total</b>	Lumens	2257.0	1426.2	3683.2
	% Fixture	61.3	38.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.0	1.1
10°-20°	98.2	2.7
20°-30°	133.5	3.6
30°-40°	182.5	5.0
40°-50°	275.0	7.5
50°-60°	435.8	11.8
60°-70°	576.9	15.7
70°-80°	459.6	12.5
80°-90°	54.5	1.5
90°-100°	4.7	0.1
100°-110°	69.0	1.9
110°-120°	153.0	4.2
120°-130°	223.9	6.1
130°-140°	265.6	7.2
140°-150°	269.3	7.3
150°-160°	231.1	6.3
160°-170°	155.1	4.2
170°-180°	54.3	1.5
0°-90°	2257.0	61.3
0°-180°	3683.2	100.0



REPORT NUMBER: P228068

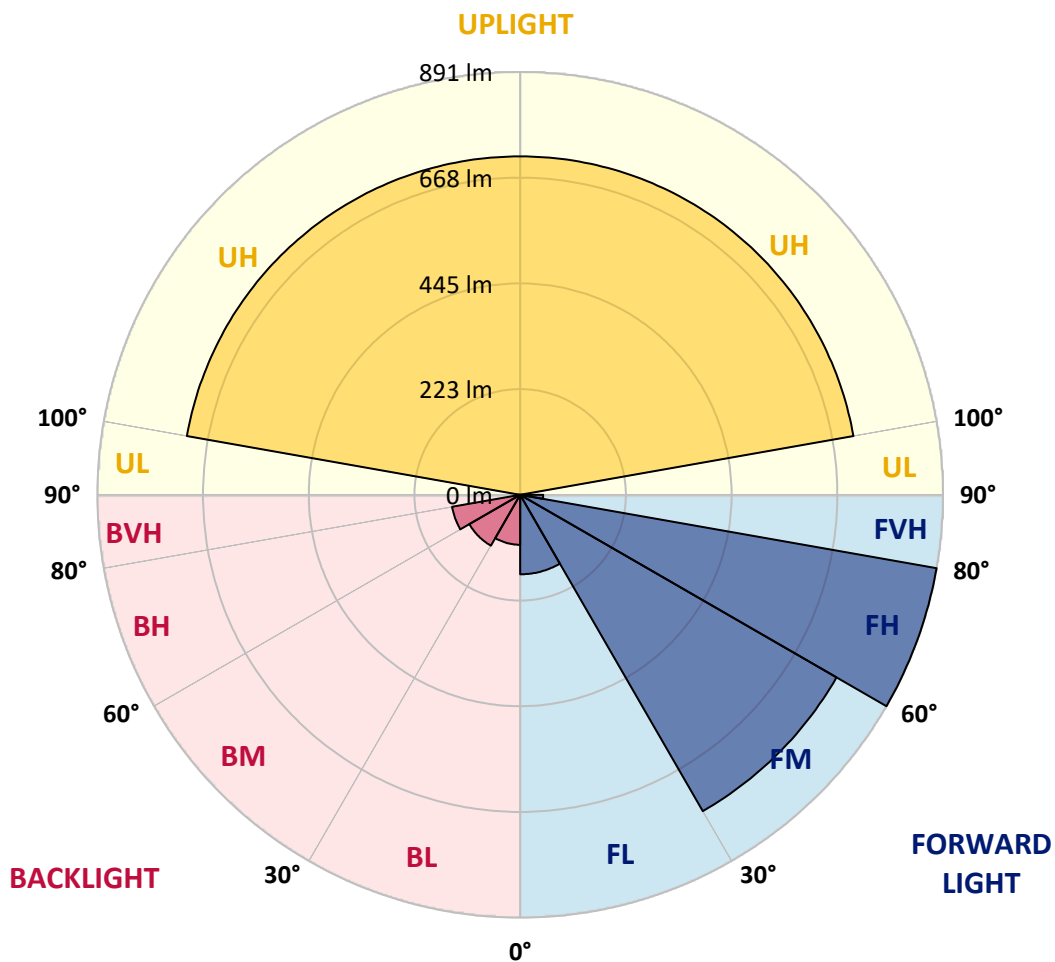
CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7050-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.5	4.5			
FM	(30°-60°)	769.7	20.9			
FH	(60°-80°)	890.9	24.2			G1/1800
FVH	(80°-90°)	48.6	1.3			G1/100
BL	(0°-30°)	105.3	2.9	B0/110		
BM	(30°-60°)	123.6	3.4	B0/220		
BH	(60°-80°)	145.6	4.0	B1/500		G1/500
BVH	(80°-90°)	5.9	0.2			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	19.4		U4/1000	

**BUG Rating: B1-U5-G1**

Type III Medium





REPORT NUMBER: P228068

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7050-ULG

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3
2.5°	461.7	460.1	460.1	462.5	466.4	463.2	465.6	465.6	466.4	468.8	469.5
5°	427.8	424.6	427.8	430.9	439.6	438.0	440.4	442.8	447.5	448.3	454.6
7.5°	397.1	395.5	397.9	404.2	415.2	412.0	415.2	418.3	423.9	426.2	432.5
10°	373.4	371.1	374.2	378.9	390.0	389.2	390.8	394.7	401.0	402.6	410.5
12.5°	356.1	356.1	357.7	364.0	373.4	372.6	377.4	379.7	385.2	386.8	395.5
15°	347.4	345.1	348.2	353.7	363.2	363.2	366.3	368.7	376.6	377.4	385.2
17.5°	339.6	340.3	341.1	347.4	356.1	354.5	358.5	360.0	368.7	367.1	376.6
20°	339.6	341.1	340.3	344.3	350.6	347.4	352.2	352.9	362.4	360.0	370.3
22.5°	349.0	350.6	348.2	347.4	349.8	347.4	349.8	351.4	358.5	356.9	366.3
25°	365.6	368.7	365.6	360.0	357.7	351.4	352.9	355.3	360.8	356.9	365.6
27.5°	391.5	393.9	388.4	382.9	371.9	364.8	362.4	361.6	367.9	361.6	368.7
30°	421.5	424.6	419.9	409.7	393.9	382.1	377.4	375.0	378.9	369.5	376.6
32.5°	453.8	456.9	453.8	445.9	424.6	407.3	401.0	395.5	398.6	386.0	389.2
35°	486.9	490.0	493.2	488.5	460.9	441.2	430.9	426.2	425.4	409.7	410.5
37.5°	516.0	519.2	529.4	534.1	508.9	482.1	472.7	462.5	463.2	441.2	441.2
40°	551.5	555.4	568.8	579.8	563.3	531.0	520.0	508.9	508.9	479.8	480.6
42.5°	599.5	604.3	612.9	627.9	622.4	589.3	577.5	562.5	564.1	529.4	528.6
45°	667.3	670.4	670.4	679.9	680.7	649.2	641.3	626.3	629.5	585.4	587.7
47.5°	755.5	751.6	735.8	741.3	747.6	714.6	707.5	698.0	702.0	654.7	659.4
50°	837.5	834.3	802.0	803.6	826.4	792.6	790.2	778.4	783.9	736.6	743.7
52.5°	868.2	862.7	830.4	847.7	911.5	892.6	896.5	891.0	894.2	843.8	842.2
55°	833.5	833.5	813.8	845.3	975.3	985.6	1017.9	1030.5	1043.9	993.4	982.4
57.5°	737.4	743.7	746.9	802.8	965.1	1009.2	1070.7	1124.2	1192.8	1189.6	1206.2
60°	578.3	589.3	607.4	698.8	921.0	993.4	1073.0	1153.4	1247.9	1308.6	1398.4
62.5°	405.7	415.2	430.2	493.2	792.6	917.0	1032.1	1155.7	1276.3	1371.6	1489.8
65°	275.7	285.2	316.7	351.4	478.2	659.4	835.1	1039.9	1223.5	1400.8	1559.9
67.5°	198.5	204.0	228.5	286.8	318.3	351.4	416.8	657.8	883.9	1240.8	1473.2
70°	148.9	154.4	176.5	241.1	279.7	288.3	304.1	346.6	404.2	697.2	1002.1
71°	124.5	132.4	159.1	226.9	278.1	285.2	292.3	317.5	336.4	493.2	743.7
72.5°	87.4	93.0	118.2	209.6	267.1	283.6	300.2	299.4	297.8	336.4	449.8
75°	55.9	55.9	55.9	118.2	285.2	275.0	281.3	315.1	297.8	282.8	296.2
77.5°	44.1	43.3	41.0	59.1	223.0	278.9	295.4	304.1	320.6	295.4	282.0
80°	33.1	32.3	32.3	37.0	103.2	180.4	249.7	277.3	289.1	314.3	286.8
82.5°	17.3	17.3	18.9	22.1	38.6	63.0	129.2	212.7	237.9	239.5	241.9
85°	5.5	4.7	6.3	10.2	16.5	20.5	36.2	85.9	127.6	154.4	163.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.2	5.5	7.1
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



REPORT NUMBER: P228068

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7050-ULG

**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





REPORT NUMBER: P228068

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7050-ULG

**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3
2.5°	467.2	470.3	468.0	471.1	467.2	471.9	468.0	470.3	471.1	468.0	471.9
5°	450.6	460.1	456.9	464.0	460.9	467.2	464.0	470.3	470.3	468.0	473.5
7.5°	430.2	439.6	440.4	447.5	447.5	455.4	455.4	461.7	464.8	464.8	472.7
10°	409.7	418.3	419.9	427.8	429.4	438.8	438.8	447.5	453.8	456.2	465.6
12.5°	393.9	404.9	404.9	413.6	412.0	426.2	427.8	435.7	442.0	447.5	460.1
15°	384.5	394.7	394.7	403.4	401.8	416.0	418.3	426.2	435.7	438.8	456.2
17.5°	375.0	385.2	382.9	394.7	393.9	409.7	408.1	419.9	427.8	432.5	452.2
20°	367.1	378.9	377.4	389.2	386.0	403.4	403.4	415.2	423.1	427.0	449.8
22.5°	363.2	375.8	372.6	384.5	382.1	399.4	399.4	411.2	419.9	426.2	449.1
25°	363.2	374.2	371.1	384.5	380.5	399.4	398.6	410.5	419.1	424.6	449.8
27.5°	364.8	375.8	373.4	386.0	382.9	399.4	401.0	411.2	419.9	426.2	451.4
30°	370.3	380.5	375.0	386.8	384.5	400.2	399.4	410.5	419.1	427.0	451.4
32.5°	382.1	387.6	380.5	390.8	386.0	401.8	401.8	409.7	419.9	429.4	451.4
35°	398.6	402.6	391.5	398.6	390.0	405.7	404.9	413.6	421.5	429.4	453.0
37.5°	422.3	427.0	409.7	416.0	401.8	414.4	411.2	421.5	429.4	434.1	460.9
40°	457.7	459.3	436.5	441.2	421.5	432.5	424.6	438.8	442.8	445.9	472.7
42.5°	501.1	502.6	473.5	476.6	451.4	460.9	447.5	462.5	468.0	467.2	496.3
45°	554.6	555.4	522.3	524.7	495.5	503.4	486.9	499.5	503.4	501.1	531.0
47.5°	612.9	619.2	582.2	585.4	554.6	558.6	538.1	552.3	552.3	549.9	580.6
50°	690.1	699.6	656.3	661.0	625.5	628.7	605.1	620.0	618.4	612.1	646.8
52.5°	786.3	794.9	749.2	755.5	717.7	719.3	690.1	707.5	702.7	692.5	732.7
55°	903.6	904.4	861.9	867.4	829.6	827.2	791.0	812.2	805.2	791.0	828.0
57.5°	1091.9	1069.1	999.0	997.4	956.4	953.3	906.8	932.8	921.0	891.0	939.9
60°	1395.2	1402.3	1223.5	1195.9	1119.5	1105.3	1043.9	1073.8	1059.6	1010.8	1058.8
62.5°	1566.2	1678.9	1667.8	1568.6	1371.6	1318.0	1214.0	1249.5	1212.5	1140.8	1185.7
65°	1693.0	1845.9	1934.1	2029.4	1941.2	1722.2	1476.4	1526.0	1435.4	1299.1	1342.5
67.5°	1740.3	1924.7	2110.6	2246.1	2338.3	2354.8	2070.4	2083.8	1860.8	1588.3	1593.8
70°	1492.9	1764.7	2128.7	2300.5	2483.2	2573.0	2603.0	2588.8	2444.6	2058.6	1911.3
71°	1265.2	1594.6	2056.2	2247.7	2481.7	2568.3	2647.1	2620.3	2553.3	2245.3	2019.2
72.5°	857.2	1270.8	1844.3	2087.0	2398.9	2462.0	2580.1	2532.9	2518.7	2384.8	2120.0
75°	403.4	633.4	1199.9	1567.0	2030.2	2090.9	2214.6	2156.3	2119.3	2164.9	2016.8
77.5°	297.0	345.9	658.6	973.8	1476.4	1562.3	1668.6	1596.9	1549.7	1595.3	1492.1
80°	270.2	271.8	341.1	513.7	880.8	932.0	972.2	913.9	842.2	839.0	743.7
82.5°	249.0	235.6	221.4	271.8	451.4	429.4	397.1	367.9	286.0	229.3	165.4
85°	158.4	173.3	157.6	148.9	179.6	148.1	117.4	112.7	79.6	53.6	49.6
87.5°	11.0	12.6	15.0	17.3	21.3	17.3	11.0	13.4	7.9	0.0	3.9
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



REPORT NUMBER: P228068

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7050-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: P228068

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7050-ULG

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3
2.5°	466.4	470.3	471.9	471.1	469.5	468.0	462.5	466.4	460.9	464.8	460.1
5°	468.8	474.3	475.1	473.5	471.9	468.8	459.3	464.8	458.5	461.7	454.6
7.5°	468.0	476.6	477.4	475.8	472.7	467.2	457.7	461.7	451.4	453.8	444.3
10°	464.0	476.6	477.4	473.5	468.8	460.1	449.1	450.6	440.4	440.4	427.8
12.5°	460.1	475.1	479.0	473.5	465.6	453.8	441.2	439.6	427.8	427.0	412.8
15°	460.1	476.6	482.1	475.1	463.2	446.7	431.7	428.6	415.2	411.2	395.5
17.5°	459.3	476.6	484.5	475.1	460.9	439.6	420.7	417.5	400.2	393.9	375.8
20°	458.5	478.2	486.1	473.5	453.8	430.9	409.7	403.4	384.5	374.2	352.9
22.5°	457.7	481.4	487.7	471.9	449.1	419.9	397.9	386.8	364.8	351.4	326.2
25°	461.7	485.3	488.5	470.3	442.0	408.1	384.5	369.5	345.1	327.7	297.8
27.5°	463.2	489.2	490.0	467.2	433.3	395.5	370.3	349.8	322.2	300.9	267.1
30°	468.0	490.0	487.7	460.9	423.1	379.7	353.7	328.5	297.8	270.2	230.0
32.5°	469.5	492.4	486.1	453.8	412.8	364.0	334.8	305.7	268.6	236.3	187.5
35°	472.7	494.0	484.5	449.8	401.8	347.4	315.1	282.0	239.5	198.5	142.6
37.5°	477.4	501.1	488.5	448.3	396.3	333.3	293.1	257.6	204.8	156.8	94.5
40°	489.2	515.2	495.5	450.6	392.3	321.4	271.8	232.4	165.4	115.8	65.4
42.5°	512.9	539.7	513.7	462.5	394.7	311.2	249.7	205.6	125.3	82.7	54.4
45°	548.3	571.2	543.6	482.1	404.2	305.7	229.3	178.0	89.8	66.2	49.6
47.5°	600.3	622.4	587.7	513.7	420.7	303.3	208.0	148.9	69.3	59.9	48.1
50°	668.9	694.9	651.5	563.3	451.4	305.7	185.1	121.3	60.7	58.3	47.3
52.5°	753.2	778.4	735.0	636.6	501.8	319.1	160.7	105.6	57.5	57.5	46.5
55°	848.5	883.9	841.4	738.2	579.8	348.2	145.7	100.1	57.5	58.3	45.7
57.5°	961.1	991.1	953.3	835.9	673.6	396.3	147.3	105.6	57.5	58.3	44.9
60°	1071.4	1108.5	1065.1	960.4	780.7	468.8	179.6	133.9	59.9	60.7	44.9
62.5°	1186.5	1214.8	1179.4	1069.1	902.1	558.6	244.2	193.8	69.3	71.7	48.1
65°	1312.5	1359.0	1322.0	1231.4	1073.8	702.0	367.1	290.7	102.4	83.5	52.8
67.5°	1530.7	1549.7	1531.5	1448.8	1274.7	820.1	437.2	295.4	102.4	81.1	59.1
70°	1826.2	1783.6	1702.5	1548.1	1296.0	735.8	313.6	180.4	87.4	77.2	62.2
71°	1894.7	1829.3	1709.6	1523.7	1251.9	664.1	243.4	142.6	81.9	75.6	62.2
72.5°	1936.5	1838.8	1657.6	1452.0	1165.2	523.1	160.7	111.9	74.8	71.7	59.9
75°	1882.1	1701.7	1463.8	1256.6	954.1	271.8	100.8	85.1	63.8	62.2	52.0
77.5°	1494.5	1336.2	1080.1	913.1	613.7	120.5	72.5	64.6	50.4	48.8	40.2
80°	697.2	559.4	327.7	281.3	193.0	70.9	49.6	44.1	36.2	34.7	28.4
82.5°	126.8	95.3	74.1	71.7	64.6	41.8	29.1	26.8	22.8	22.1	18.1
85°	43.3	41.8	31.5	31.5	32.3	22.1	16.5	15.8	11.8	11.8	7.9
87.5°	0.8	3.9	3.9	5.5	4.7	3.9	1.6	2.4	0.8	2.4	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



REPORT NUMBER: P228068  
 CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7050-ULG

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°

NUMBER: P228068  
 NUMBER: ISS-AF-350-LED-E1-SL2-7050-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	110°	114.0
464.0	457.7	463.2	457.7	460.9	454.6	458.5	456.2	456.2	453.8	452.2	112.5°	136.0
456.9	449.1	453.0	446.7	449.8	440.4	442.8	438.8	430.9	426.2	419.9	115°	158.0
446.7	434.9	438.0	428.6	430.9	418.3	420.7	413.6	398.6	389.2	379.7	117.5°	181.0
428.6	417.5	418.3	406.5	405.7	393.1	390.8	381.3	359.2	343.5	330.9	120°	204.0
410.5	397.9	396.3	382.1	379.7	364.8	361.6	346.6	314.3	283.6	263.9	122.5°	228.0
391.5	375.8	371.1	356.1	347.4	334.8	326.2	304.1	257.6	217.4	191.4	125°	254.0
370.3	349.8	342.7	325.4	312.8	293.9	281.3	251.3	191.4	148.1	130.0	127.5°	277.0
342.7	320.6	308.0	286.0	269.4	246.6	230.8	192.2	127.6	105.6	103.2	130°	301.0
312.0	286.0	270.2	242.7	222.2	197.7	172.5	130.0	90.6	85.9	89.0	132.5°	325.0
279.7	247.4	226.9	193.0	165.4	137.1	113.4	86.7	74.1	73.3	78.0	135°	348.0
241.1	204.0	174.9	134.7	109.5	87.4	77.2	68.5	63.0	63.8	68.5	137.5°	369.0
198.5	150.5	119.7	84.3	73.3	63.8	62.2	59.1	56.7	58.3	61.5	140°	390.0
148.1	96.1	77.2	60.7	59.9	54.4	55.9	54.4	53.6	54.4	56.7	142.5°	412.0
100.1	63.8	60.7	52.0	53.6	49.6	52.0	51.2	50.4	50.4	52.0	145°	433.0
69.3	52.8	54.4	48.1	50.4	47.3	49.6	48.8	48.1	47.3	48.1	147.5°	452.0
57.5	48.1	50.4	45.7	48.1	44.9	47.3	46.5	45.7	44.1	44.1	150°	469.0
52.8	45.7	48.1	43.3	46.5	42.5	45.7	44.1	42.5	41.0	41.8	152.5°	486.0
51.2	44.1	46.5	41.8	44.9	41.0	43.3	42.5	39.4	38.6	39.4	155°	503.0
49.6	43.3	45.7	41.0	43.3	39.4	41.8	40.2	37.0	36.2	37.0	157.5°	517.0
48.8	41.8	44.1	39.4	41.8	38.6	40.2	38.6	35.5	34.7	34.7	160°	530.0
48.1	41.0	43.3	37.8	40.2	35.5	37.8	36.2	33.1	32.3	32.3	162.5°	540.0
48.1	40.2	41.8	36.2	38.6	33.9	35.5	33.9	32.3	30.7	30.7	165°	550.0
47.3	38.6	41.0	34.7	36.2	32.3	33.9	32.3	29.9	29.1	29.1	167.5°	558.0
47.3	37.8	40.2	33.9	35.5	30.7	32.3	30.7	28.4	27.6	27.6	170°	564.0
49.6	39.4	41.0	34.7	35.5	30.7	31.5	29.1	26.8	26.8	26.0	172.5°	567.0
54.4	44.1	44.1	36.2	36.2	30.7	31.5	28.4	25.2	25.2	25.2	175°	570.0
59.1	48.8	48.1	38.6	37.8	30.7	30.7	26.8	23.6	23.6	23.6	177.5°	574.0
62.2	51.2	49.6	39.4	37.8	29.9	29.1	25.2	22.1	22.1	22.1	180°	576.0
61.5	51.2	48.8	38.6	36.2	28.4	28.4	24.4	21.3	21.3	20.5		
58.3	48.1	45.7	36.2	34.7	26.8	26.8	22.8	19.7	19.7	18.9		
49.6	41.0	38.6	30.7	29.1	23.6	22.8	18.9	17.3	16.5	16.5		
38.6	32.3	29.9	24.4	23.6	18.9	18.1	15.8	14.2	14.2	13.4		
27.6	22.8	21.3	16.5	15.0	12.6	13.4	11.8	11.0	11.0	10.2		
16.5	11.8	11.8	9.5	10.2	7.9	8.7	8.7	7.9	6.3	6.3		
8.7	5.5	7.1	3.9	5.5	2.4	3.9	3.2	3.2	2.4	2.4		
1.6	0.0	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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		

'228068  
 ISS-AF-350-LED-E1-SL2-7050-ULG

REPORT NUMBER: P228068  
 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°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	470.3	470.3
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	447.5	448.3
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	416.8	418.3
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	372.6	375.0
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	319.9	321.4
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	252.1	252.1
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	176.5	178.0
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	123.7	124.5
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	104.0	104.8
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	93.0	93.8
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	82.7	83.5
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	71.7	72.5
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	64.6	65.4
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	58.3	59.1
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	52.8	52.8
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	48.8	48.8
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	44.9	44.9
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	42.5	42.5
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	40.2	40.2
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	37.8	37.8
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	35.5	36.2
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	33.1	33.1
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	30.7	30.7
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	28.4	29.1
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	26.8	26.8
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	25.2	25.2
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	24.4	24.4
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	22.8	22.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	21.3	21.3
										71°	20.5	20.5
										72.5°	18.9	18.9
										75°	16.5	15.8
										77.5°	13.4	13.4
										80°	10.2	9.5
										82.5°	6.3	5.5
										85°	2.4	1.6
										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



REPORT NUMBER: P228068

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

**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  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

