

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: P228069

Luminaire Tested: **ISS-AF-350-LED-E1-SL2-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228069  
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-SL2-7030-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) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3424.2 lumens  
Efficiency: N/A  
Efficacy: 93.1 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

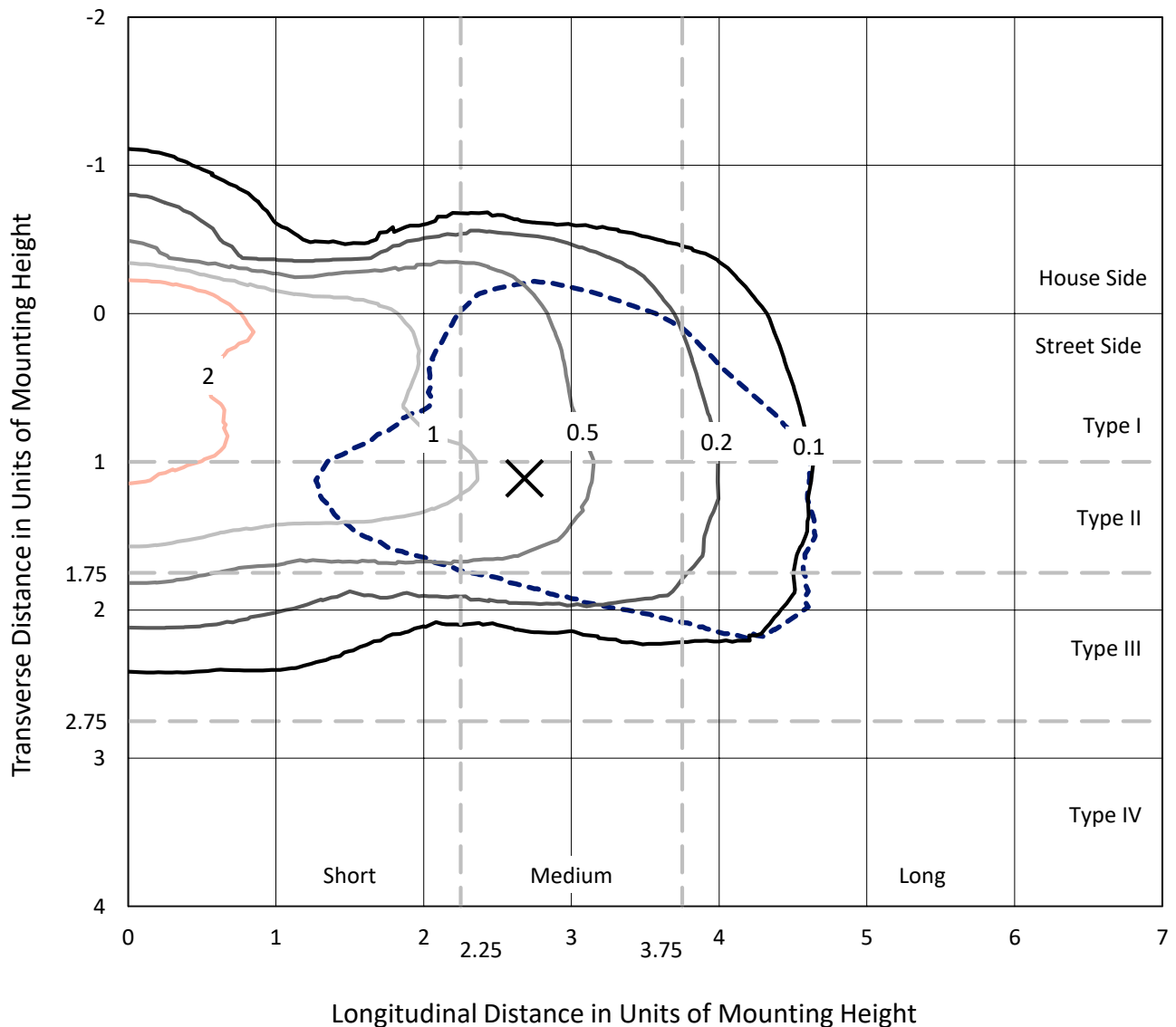


REPORT NUMBER: P228069

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7030-ULG

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

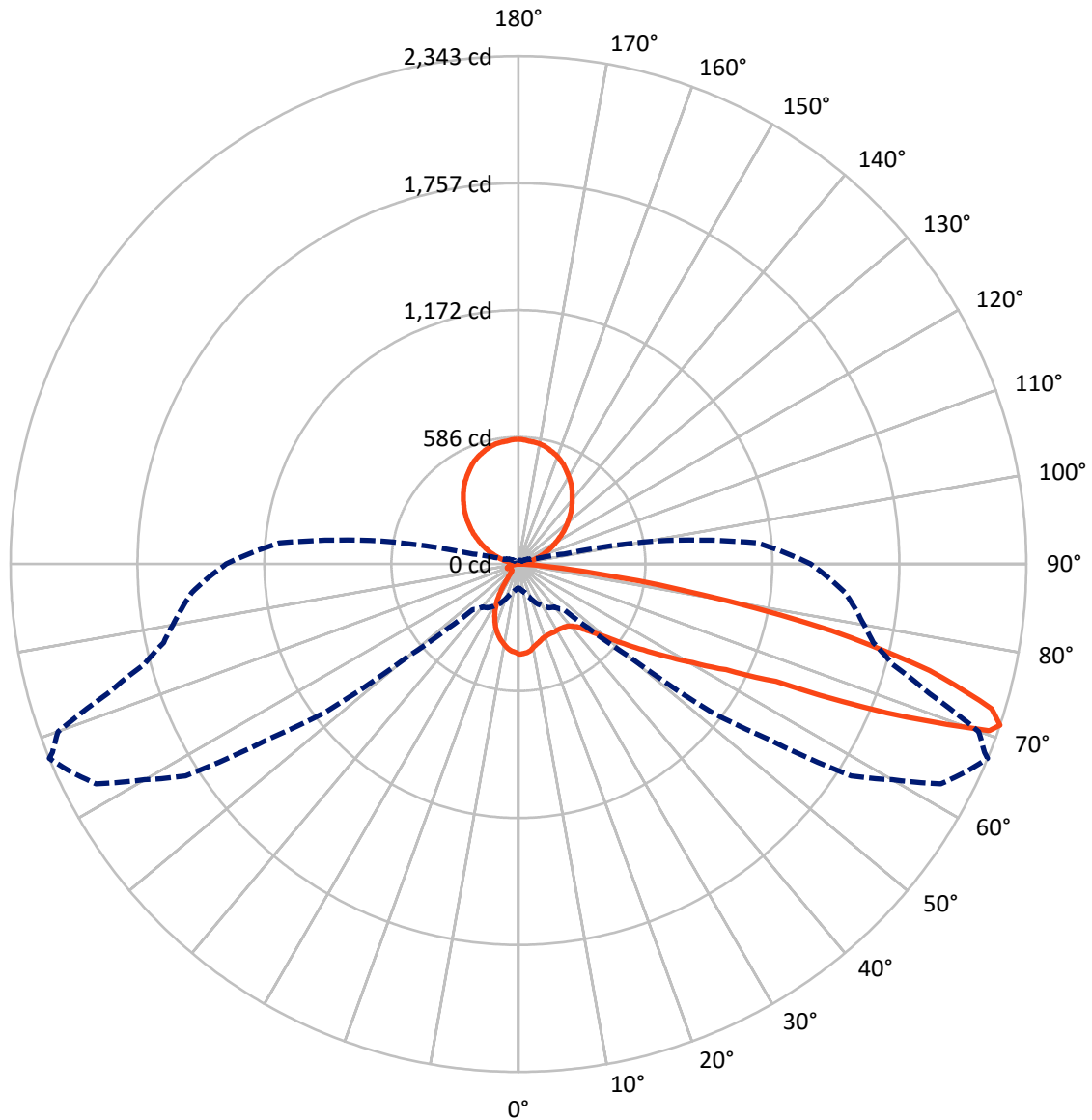


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P228069

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7030-ULG

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P228069

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7030-ULG

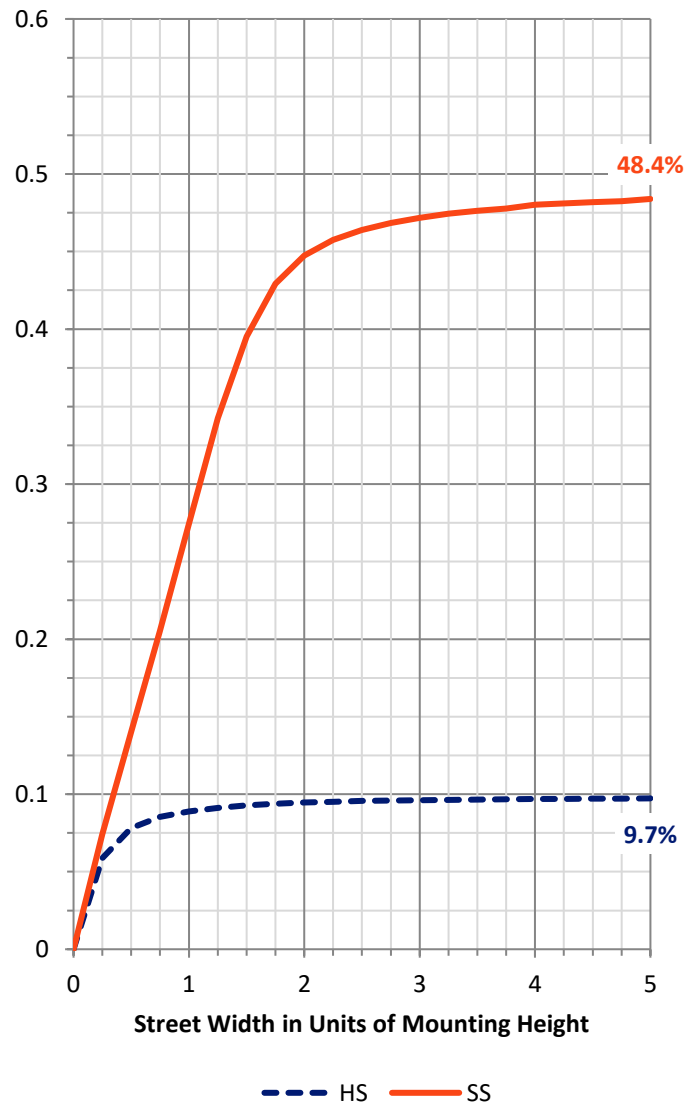
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	336.7	713.1	1049.8
	% Fixture	9.8	20.8	30.7
<b>Street Side</b>	Lumens	1661.3	713.1	2374.4
	% Fixture	48.5	20.8	69.3
<b>Total</b>	Lumens	1998.0	1426.2	3424.2
	% Fixture	58.3	41.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.3	1.1
10°-20°	86.9	2.5
20°-30°	118.2	3.5
30°-40°	161.5	4.7
40°-50°	243.4	7.1
50°-60°	385.8	11.3
60°-70°	510.7	14.9
70°-80°	406.9	11.9
80°-90°	48.2	1.4
90°-100°	4.7	0.1
100°-110°	69.0	2.0
110°-120°	153.0	4.5
120°-130°	223.9	6.5
130°-140°	265.6	7.8
140°-150°	269.3	7.9
150°-160°	231.1	6.7
160°-170°	155.1	4.5
170°-180°	54.3	1.6
0°-90°	1998.0	58.3
0°-180°	3424.2	100.0



REPORT NUMBER: P228069

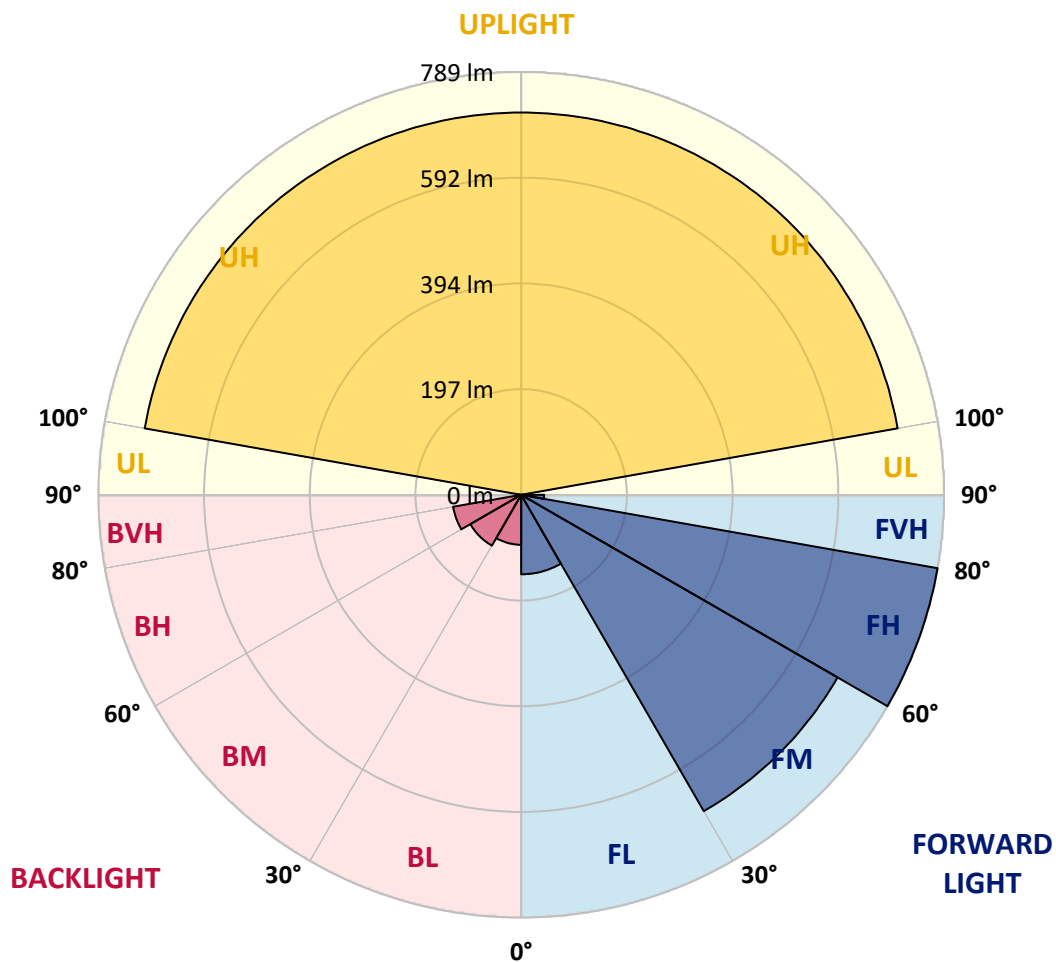
CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7030-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	148.2	4.3			
FM (30°-60°)	681.4	19.9			
FH (60°-80°)	788.7	23.0			G1/1800
FVH (80°-90°)	43.0	1.3			G1/100
BL (0°-30°)	93.2	2.7	B0/110		
BM (30°-60°)	109.4	3.2	B0/220		
BH (60°-80°)	128.9	3.8	B1/500		G1/500
BVH (80°-90°)	5.2	0.2			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	20.8		U4/1000	

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

Type III Medium





REPORT NUMBER: P228069

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7030-ULG

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4
2.5°	408.7	407.3	407.3	409.4	412.9	410.1	412.2	412.2	412.9	415.0	415.7
5°	378.7	375.9	378.7	381.5	389.2	387.8	389.9	392.0	396.1	396.8	402.4
7.5°	351.5	350.1	352.2	357.8	367.5	364.8	367.5	370.3	375.2	377.3	382.9
10°	330.6	328.5	331.3	335.5	345.2	344.5	345.9	349.4	355.0	356.4	363.4
12.5°	315.2	315.2	316.6	322.2	330.6	329.9	334.1	336.2	341.0	342.4	350.1
15°	307.6	305.5	308.3	313.1	321.5	321.5	324.3	326.4	333.4	334.1	341.0
17.5°	300.6	301.3	302.0	307.6	315.2	313.8	317.3	318.7	326.4	325.0	333.4
20°	300.6	302.0	301.3	304.8	310.4	307.6	311.7	312.4	320.8	318.7	327.8
22.5°	309.0	310.4	308.3	307.6	309.7	307.6	309.7	311.0	317.3	315.9	324.3
25°	323.6	326.4	323.6	318.7	316.6	311.0	312.4	314.5	319.4	315.9	323.6
27.5°	346.6	348.7	343.8	338.9	329.2	322.9	320.8	320.1	325.7	320.1	326.4
30°	373.1	375.9	371.7	362.7	348.7	338.2	334.1	332.0	335.5	327.1	333.4
32.5°	401.7	404.5	401.7	394.7	375.9	360.6	355.0	350.1	352.9	341.7	344.5
35°	431.0	433.8	436.6	432.4	408.0	390.6	381.5	377.3	376.6	362.7	363.4
37.5°	456.8	459.6	468.7	472.9	450.5	426.8	418.5	409.4	410.1	390.6	390.6
40°	488.2	491.7	503.5	513.3	498.7	470.1	460.3	450.5	450.5	424.7	425.4
42.5°	530.7	534.9	542.6	555.8	551.0	521.7	511.2	498.0	499.4	468.7	468.0
45°	590.7	593.5	593.5	601.9	602.6	574.7	567.7	554.4	557.2	518.2	520.3
47.5°	668.8	665.3	651.4	656.3	661.9	632.6	626.3	617.9	621.4	579.6	583.7
50°	741.4	738.6	710.0	711.4	731.6	701.6	699.5	689.1	693.9	652.1	658.4
52.5°	768.6	763.7	735.1	750.4	806.9	790.2	793.7	788.8	791.6	746.9	745.5
55°	737.9	737.9	720.4	748.3	863.4	872.5	901.1	912.2	924.1	879.4	869.7
57.5°	652.8	658.4	661.2	710.7	854.3	893.4	947.8	995.2	1055.9	1053.1	1067.8
60°	511.9	521.7	537.7	618.6	815.3	879.4	949.9	1021.0	1104.7	1158.4	1237.9
62.5°	359.2	367.5	380.8	436.6	701.6	811.8	913.6	1023.1	1129.8	1214.2	1318.8
65°	244.1	252.5	280.4	311.0	423.3	583.7	739.3	920.6	1083.1	1240.0	1380.9
67.5°	175.7	180.6	202.3	253.9	281.8	311.0	368.9	582.3	782.5	1098.4	1304.2
70°	131.8	136.7	156.2	213.4	247.6	255.3	269.2	306.9	357.8	617.2	887.1
71°	110.2	117.2	140.9	200.9	246.2	252.5	258.7	281.1	297.8	436.6	658.4
72.5°	77.4	82.3	104.6	185.5	236.4	251.1	265.7	265.0	263.6	297.8	398.2
75°	49.5	49.5	49.5	104.6	252.5	243.4	249.0	279.0	263.6	250.4	262.2
77.5°	39.1	38.4	36.3	52.3	197.4	246.9	261.5	269.2	283.9	261.5	249.7
80°	29.3	28.6	28.6	32.8	91.4	159.7	221.1	245.5	256.0	278.3	253.9
82.5°	15.3	15.3	16.7	19.5	34.2	55.8	114.4	188.3	210.6	212.0	214.1
85°	4.9	4.2	5.6	9.1	14.6	18.1	32.1	76.0	113.0	136.7	144.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.8	4.9	6.3
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	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: P228069

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7030-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: P228069

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4
2.5°	413.6	416.4	414.3	417.1	413.6	417.8	414.3	416.4	417.1	414.3	417.8
5°	398.9	407.3	404.5	410.8	408.0	413.6	410.8	416.4	416.4	414.3	419.1
7.5°	380.8	389.2	389.9	396.1	396.1	403.1	403.1	408.7	411.5	411.5	418.5
10°	362.7	370.3	371.7	378.7	380.1	388.5	388.5	396.1	401.7	403.8	412.2
12.5°	348.7	358.5	358.5	366.1	364.8	377.3	378.7	385.7	391.3	396.1	407.3
15°	340.3	349.4	349.4	357.1	355.7	368.2	370.3	377.3	385.7	388.5	403.8
17.5°	332.0	341.0	338.9	349.4	348.7	362.7	361.3	371.7	378.7	382.9	400.3
20°	325.0	335.5	334.1	344.5	341.7	357.1	357.1	367.5	374.5	378.0	398.2
22.5°	321.5	332.7	329.9	340.3	338.2	353.6	353.6	364.1	371.7	377.3	397.5
25°	321.5	331.3	328.5	340.3	336.9	353.6	352.9	363.4	371.0	375.9	398.2
27.5°	322.9	332.7	330.6	341.7	338.9	353.6	355.0	364.1	371.7	377.3	399.6
30°	327.8	336.9	332.0	342.4	340.3	354.3	353.6	363.4	371.0	378.0	399.6
32.5°	338.2	343.1	336.9	345.9	341.7	355.7	355.7	362.7	371.7	380.1	399.6
35°	352.9	356.4	346.6	352.9	345.2	359.2	358.5	366.1	373.1	380.1	401.0
37.5°	373.8	378.0	362.7	368.2	355.7	366.8	364.1	373.1	380.1	384.3	408.0
40°	405.2	406.6	386.4	390.6	373.1	382.9	375.9	388.5	392.0	394.7	418.5
42.5°	443.6	445.0	419.1	421.9	399.6	408.0	396.1	409.4	414.3	413.6	439.4
45°	491.0	491.7	462.4	464.5	438.7	445.7	431.0	442.2	445.7	443.6	470.1
47.5°	542.6	548.2	515.4	518.2	491.0	494.5	476.3	488.9	488.9	486.8	514.0
50°	610.9	619.3	581.0	585.1	553.8	556.5	535.6	548.9	547.5	541.9	572.6
52.5°	696.0	703.7	663.2	668.8	635.3	636.7	610.9	626.3	622.1	613.0	648.6
55°	799.9	800.6	763.0	767.9	734.4	732.3	700.2	719.0	712.8	700.2	733.0
57.5°	966.6	946.4	884.3	882.9	846.7	843.9	802.7	825.7	815.3	788.8	832.0
60°	1235.1	1241.4	1083.1	1058.7	991.0	978.5	924.1	950.6	938.0	894.8	937.3
62.5°	1386.5	1486.2	1476.4	1388.6	1214.2	1166.8	1074.7	1106.1	1073.3	1009.9	1049.6
65°	1498.8	1634.1	1712.2	1796.6	1718.4	1524.6	1307.0	1350.9	1270.7	1150.0	1188.4
67.5°	1540.6	1703.8	1868.4	1988.3	2069.9	2084.6	1832.8	1844.7	1647.3	1406.0	1410.9
70°	1321.6	1562.2	1884.4	2036.5	2198.3	2277.8	2304.3	2291.7	2164.1	1822.4	1691.9
71°	1120.1	1411.6	1820.3	1989.7	2196.9	2273.6	2343.3	2319.6	2260.3	1987.6	1787.5
72.5°	758.8	1124.9	1632.7	1847.5	2123.6	2179.4	2284.1	2242.2	2229.7	2111.1	1876.8
75°	357.1	560.7	1062.2	1387.2	1797.3	1851.0	1960.4	1908.8	1876.1	1916.5	1785.4
77.5°	262.9	306.2	583.0	862.0	1307.0	1383.0	1477.1	1413.7	1371.8	1412.3	1320.9
80°	239.2	240.6	302.0	454.7	779.7	825.0	860.6	809.0	745.5	742.8	658.4
82.5°	220.4	208.5	196.0	240.6	399.6	380.1	351.5	325.7	253.2	202.9	146.5
85°	140.2	153.4	139.5	131.8	159.0	131.1	103.9	99.7	70.4	47.4	43.9
87.5°	9.8	11.2	13.3	15.3	18.8	15.3	9.8	11.9	7.0	0.0	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	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: P228069

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7030-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: P228069

CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4
2.5°	412.9	416.4	417.8	417.1	415.7	414.3	409.4	412.9	408.0	411.5	407.3
5°	415.0	419.8	420.5	419.1	417.8	415.0	406.6	411.5	405.9	408.7	402.4
7.5°	414.3	421.9	422.6	421.2	418.5	413.6	405.2	408.7	399.6	401.7	393.3
10°	410.8	421.9	422.6	419.1	415.0	407.3	397.5	398.9	389.9	389.9	378.7
12.5°	407.3	420.5	424.0	419.1	412.2	401.7	390.6	389.2	378.7	378.0	365.4
15°	407.3	421.9	426.8	420.5	410.1	395.4	382.2	379.4	367.5	364.1	350.1
17.5°	406.6	421.9	428.9	420.5	408.0	389.2	372.4	369.6	354.3	348.7	332.7
20°	405.9	423.3	430.3	419.1	401.7	381.5	362.7	357.1	340.3	331.3	312.4
22.5°	405.2	426.1	431.7	417.8	397.5	371.7	352.2	342.4	322.9	311.0	288.7
25°	408.7	429.6	432.4	416.4	391.3	361.3	340.3	327.1	305.5	290.1	263.6
27.5°	410.1	433.1	433.8	413.6	383.6	350.1	327.8	309.7	285.2	266.4	236.4
30°	414.3	433.8	431.7	408.0	374.5	336.2	313.1	290.8	263.6	239.2	203.6
32.5°	415.7	435.9	430.3	401.7	365.4	322.2	296.4	270.6	237.8	209.2	166.0
35°	418.5	437.3	428.9	398.2	355.7	307.6	279.0	249.7	212.0	175.7	126.2
37.5°	422.6	443.6	432.4	396.8	350.8	295.0	259.4	228.1	181.3	138.8	83.7
40°	433.1	456.1	438.7	398.9	347.3	284.5	240.6	205.7	146.5	102.5	57.9
42.5°	454.0	477.7	454.7	409.4	349.4	275.5	221.1	182.0	110.9	73.2	48.1
45°	485.4	505.6	481.2	426.8	357.8	270.6	202.9	157.6	79.5	58.6	43.9
47.5°	531.4	551.0	520.3	454.7	372.4	268.5	184.1	131.8	61.4	53.0	42.5
50°	592.1	615.1	576.8	498.7	399.6	270.6	163.9	107.4	53.7	51.6	41.8
52.5°	666.7	689.1	650.7	563.5	444.3	282.5	142.3	93.5	50.9	50.9	41.1
55°	751.1	782.5	744.8	653.5	513.3	308.3	129.0	88.6	50.9	51.6	40.5
57.5°	850.9	877.4	843.9	740.0	596.3	350.8	130.4	93.5	50.9	51.6	39.8
60°	948.5	981.3	942.9	850.2	691.1	415.0	159.0	118.6	53.0	53.7	39.8
62.5°	1050.3	1075.4	1044.0	946.4	798.5	494.5	216.2	171.6	61.4	63.5	42.5
65°	1161.9	1203.1	1170.3	1090.1	950.6	621.4	325.0	257.3	90.7	73.9	46.7
67.5°	1355.1	1371.8	1355.8	1282.6	1128.4	726.0	387.1	261.5	90.7	71.8	52.3
70°	1616.6	1579.0	1507.1	1370.4	1147.3	651.4	277.6	159.7	77.4	68.3	55.1
71°	1677.3	1619.4	1513.4	1348.8	1108.2	587.9	215.5	126.2	72.5	67.0	55.1
72.5°	1714.3	1627.8	1467.4	1285.3	1031.5	463.1	142.3	99.0	66.3	63.5	53.0
75°	1666.1	1506.4	1295.8	1112.4	844.6	240.6	89.3	75.3	56.5	55.1	46.0
77.5°	1323.0	1182.8	956.2	808.3	543.3	106.7	64.2	57.2	44.6	43.2	35.6
80°	617.2	495.2	290.1	249.0	170.9	62.8	43.9	39.1	32.1	30.7	25.1
82.5°	112.3	84.4	65.6	63.5	57.2	37.0	25.8	23.7	20.2	19.5	16.0
85°	38.4	37.0	27.9	27.9	28.6	19.5	14.6	13.9	10.5	10.5	7.0
87.5°	0.7	3.5	3.5	4.9	4.2	3.5	1.4	2.1	0.7	2.1	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: P228069  
 CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-7030-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: P228069  
 NUMBER: ISS-AF-350-LED-E1-SL2-7030-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°
416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	110°	114.0
410.8	405.2	410.1	405.2	408.0	402.4	405.9	403.8	403.8	401.7	400.3	112.5°	136.0
404.5	397.5	401.0	395.4	398.2	389.9	392.0	388.5	381.5	377.3	371.7	115°	158.0
395.4	385.0	387.8	379.4	381.5	370.3	372.4	366.1	352.9	344.5	336.2	117.5°	181.0
379.4	369.6	370.3	359.9	359.2	348.0	345.9	337.6	318.0	304.1	292.9	120°	204.0
363.4	352.2	350.8	338.2	336.2	322.9	320.1	306.9	278.3	251.1	233.6	122.5°	228.0
346.6	332.7	328.5	315.2	307.6	296.4	288.7	269.2	228.1	192.5	169.5	125°	254.0
327.8	309.7	303.4	288.0	276.9	260.1	249.0	222.5	169.5	131.1	115.1	127.5°	277.0
303.4	283.9	272.7	253.2	238.5	218.3	204.3	170.2	113.0	93.5	91.4	130°	301.0
276.2	253.2	239.2	214.8	196.7	175.1	152.7	115.1	80.2	76.0	78.8	132.5°	325.0
247.6	219.0	200.9	170.9	146.5	121.4	100.4	76.7	65.6	64.9	69.0	135°	348.0
213.4	180.6	154.8	119.3	96.9	77.4	68.3	60.7	55.8	56.5	60.7	137.5°	369.0
175.7	133.2	106.0	74.6	64.9	56.5	55.1	52.3	50.2	51.6	54.4	140°	390.0
131.1	85.1	68.3	53.7	53.0	48.1	49.5	48.1	47.4	48.1	50.2	142.5°	412.0
88.6	56.5	53.7	46.0	47.4	43.9	46.0	45.3	44.6	44.6	46.0	145°	433.0
61.4	46.7	48.1	42.5	44.6	41.8	43.9	43.2	42.5	41.8	42.5	147.5°	452.0
50.9	42.5	44.6	40.5	42.5	39.8	41.8	41.1	40.5	39.1	39.1	150°	469.0
46.7	40.5	42.5	38.4	41.1	37.7	40.5	39.1	37.7	36.3	37.0	152.5°	486.0
45.3	39.1	41.1	37.0	39.8	36.3	38.4	37.7	34.9	34.2	34.9	155°	503.0
43.9	38.4	40.5	36.3	38.4	34.9	37.0	35.6	32.8	32.1	32.8	157.5°	517.0
43.2	37.0	39.1	34.9	37.0	34.2	35.6	34.2	31.4	30.7	30.7	160°	530.0
42.5	36.3	38.4	33.5	35.6	31.4	33.5	32.1	29.3	28.6	28.6	162.5°	540.0
42.5	35.6	37.0	32.1	34.2	30.0	31.4	30.0	28.6	27.2	27.2	165°	550.0
41.8	34.2	36.3	30.7	32.1	28.6	30.0	28.6	26.5	25.8	25.8	167.5°	558.0
41.8	33.5	35.6	30.0	31.4	27.2	28.6	27.2	25.1	24.4	24.4	170°	564.0
43.9	34.9	36.3	30.7	31.4	27.2	27.9	25.8	23.7	23.7	23.0	172.5°	567.0
48.1	39.1	39.1	32.1	32.1	27.2	27.9	25.1	22.3	22.3	22.3	175°	570.0
52.3	43.2	42.5	34.2	33.5	27.2	27.2	23.7	20.9	20.9	20.9	177.5°	574.0
55.1	45.3	43.9	34.9	33.5	26.5	25.8	22.3	19.5	19.5	19.5	180°	576.0
54.4	45.3	43.2	34.2	32.1	25.1	25.1	21.6	18.8	18.8	18.1		
51.6	42.5	40.5	32.1	30.7	23.7	23.7	20.2	17.4	17.4	16.7		
43.9	36.3	34.2	27.2	25.8	20.9	20.2	16.7	15.3	14.6	14.6		
34.2	28.6	26.5	21.6	20.9	16.7	16.0	13.9	12.6	12.6	11.9		
24.4	20.2	18.8	14.6	13.3	11.2	11.9	10.5	9.8	9.8	9.1		
14.6	10.5	10.5	8.4	9.1	7.0	7.7	7.7	7.0	5.6	5.6		
7.7	4.9	6.3	3.5	4.9	2.1	3.5	2.8	2.8	2.1	2.1		
1.4	0.0	0.7	0.0	0.7	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		

'228069  
 ISS-AF-350-LED-E1-SL2-7030-ULG

REPORT NUMBER: P228069  
 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°	416.4	416.4
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	396.1	396.8
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	368.9	370.3
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	329.9	332.0
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	283.2	284.5
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	223.2	223.2
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	156.2	157.6
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	109.5	110.2
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	92.1	92.8
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	82.3	83.0
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	73.2	73.9
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	63.5	64.2
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	57.2	57.9
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	51.6	52.3
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	46.7	46.7
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	43.2	43.2
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	39.8	39.8
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	37.7	37.7
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	35.6	35.6
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	33.5	33.5
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	31.4	32.1
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	29.3	29.3
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	27.2	27.2
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	25.1	25.8
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	23.7	23.7
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	22.3	22.3
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	21.6	21.6
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	20.2	20.2
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	18.8	18.8
										71°	18.1	18.1
										72.5°	16.7	16.7
										75°	14.6	13.9
										77.5°	11.9	11.9
										80°	9.1	8.4
										82.5°	5.6	4.9
										85°	2.1	1.4
										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: P228069

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

