

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: P228588

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)-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-SLR-7050-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, 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: 3416.2 lumens
Efficiency: N/A
Efficacy: 92.9 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

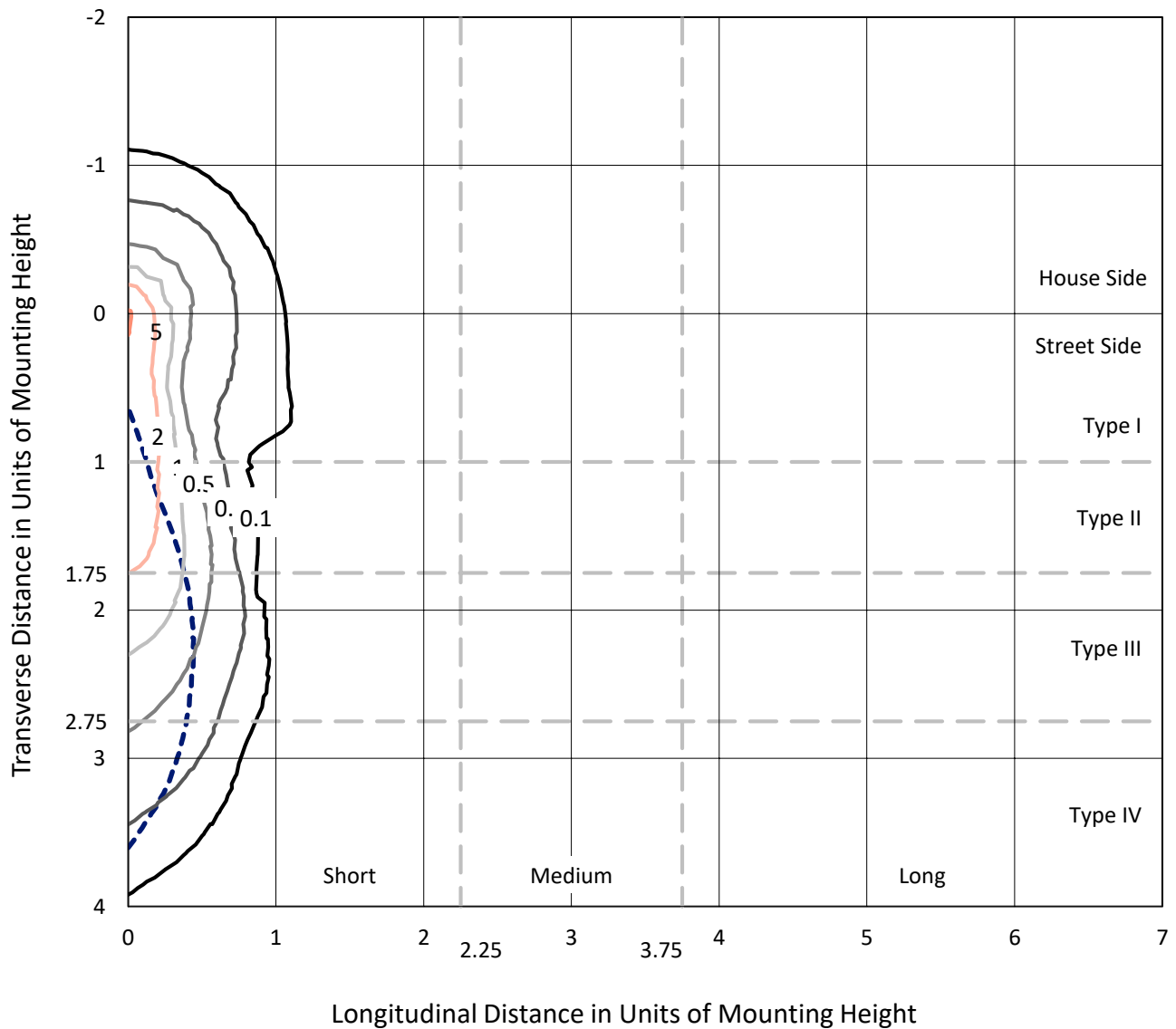


REPORT NUMBER: P228588

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

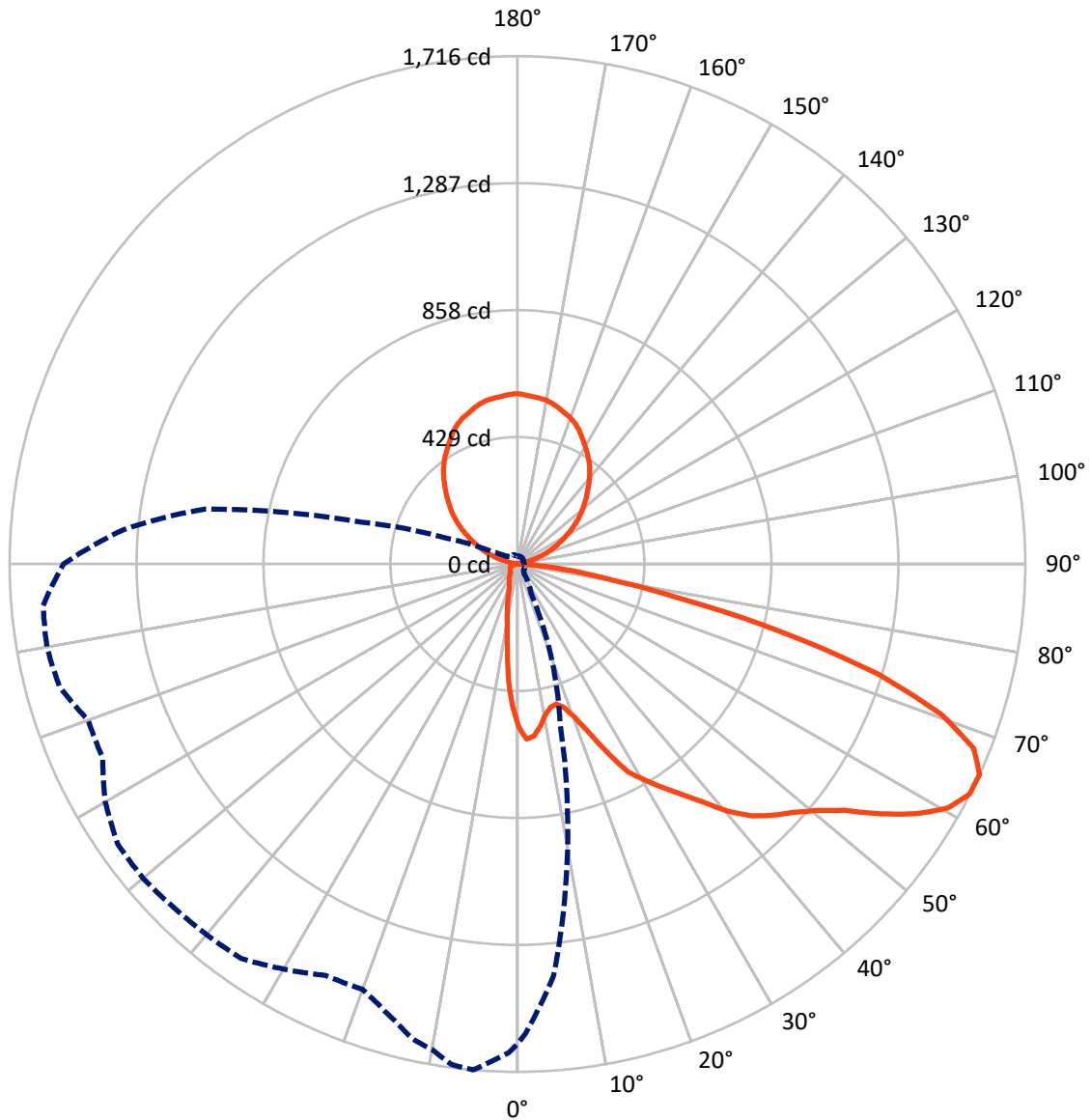


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228588

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

Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P228588

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

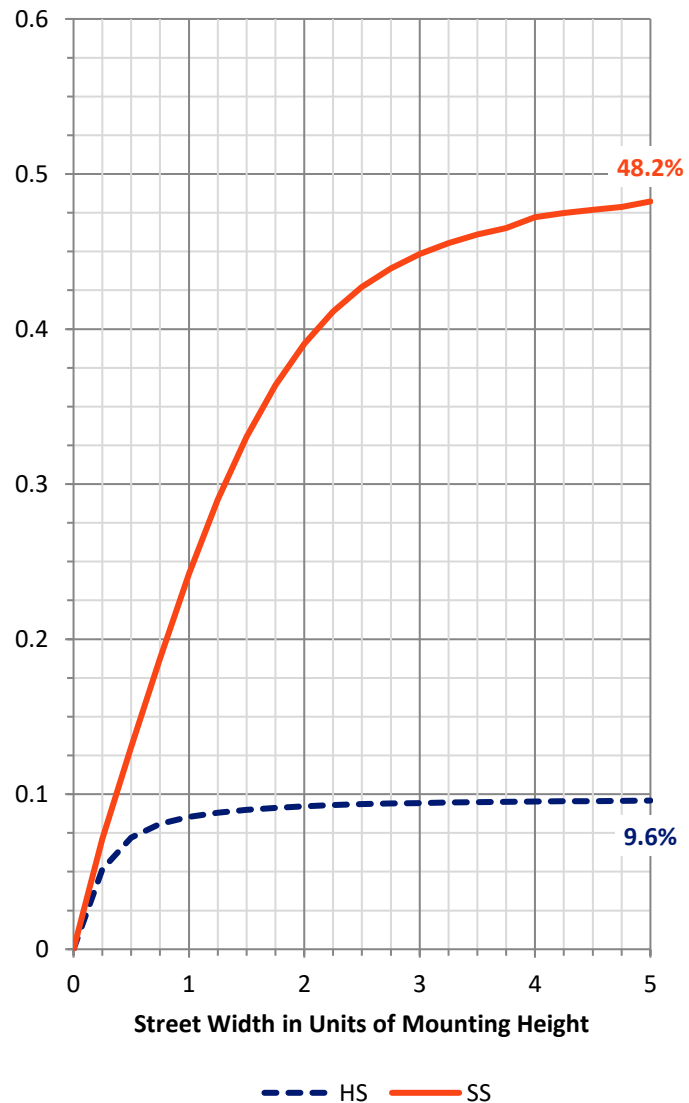
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	330.9	713.1	1044.0
	% Fixture	9.7	20.9	30.6
Street Side	Lumens	1659.1	713.1	2372.2
	% Fixture	48.6	20.9	69.4
Total	Lumens	1990.0	1426.2	3416.2
	% Fixture	58.3	41.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	1.2
10°-20°	87.1	2.6
20°-30°	126.7	3.7
30°-40°	187.3	5.5
40°-50°	273.0	8.0
50°-60°	409.2	12.0
60°-70°	509.9	14.9
70°-80°	298.7	8.7
80°-90°	55.9	1.6
90°-100°	4.7	0.1
100°-110°	69.0	2.0
110°-120°	153.0	4.5
120°-130°	223.9	6.6
130°-140°	265.6	7.8
140°-150°	269.3	7.9
150°-160°	231.1	6.8
160°-170°	155.1	4.5
170°-180°	54.3	1.6
0°-90°	1990.0	58.3
0°-180°	3416.2	100.0



REPORT NUMBER: P228588

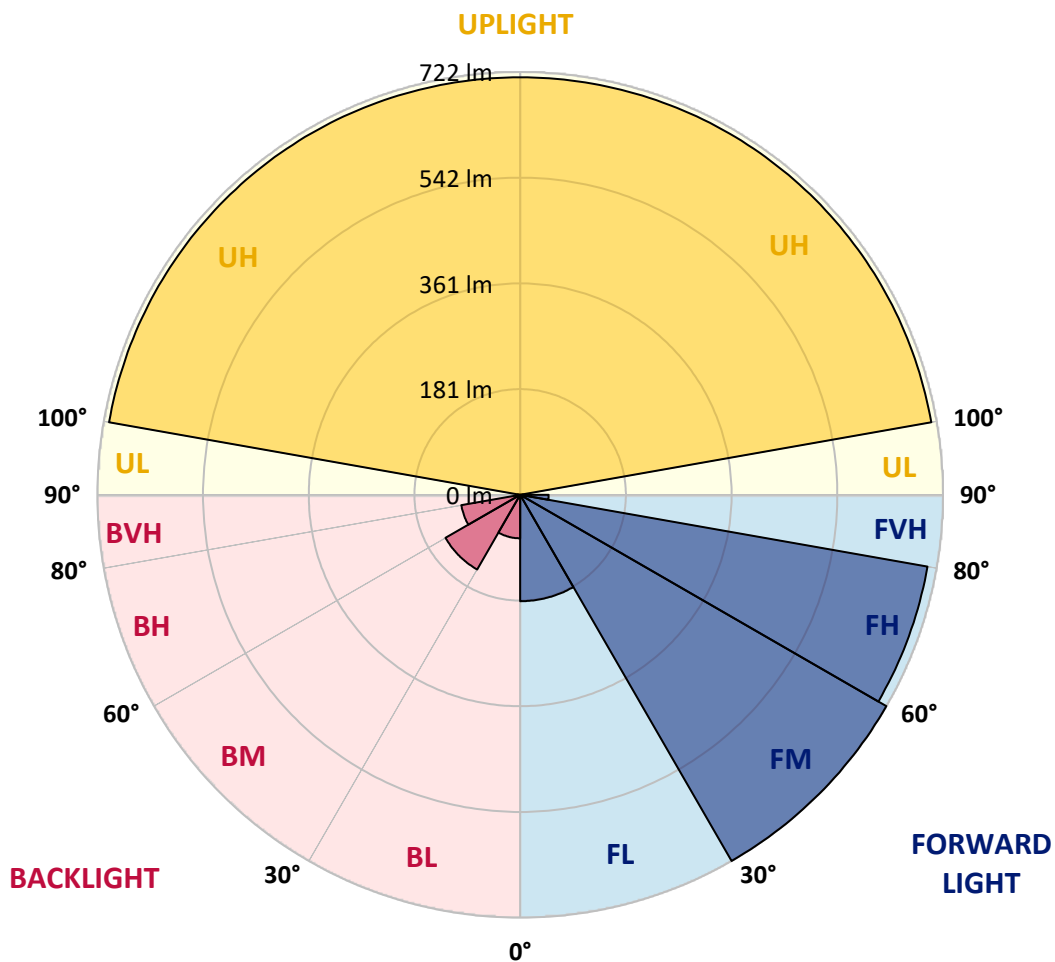
CATALOG NUMBER: ISS-AF-350-LED-E1-SLR-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.8	5.3			
FM	(30°-60°)	722.2	21.1			
FH	(60°-80°)	706.4	20.7			G1/1800
FVH	(80°-90°)	48.7	1.4			G1/100
BL	(0°-30°)	74.3	2.2	B0/110		
BM	(30°-60°)	147.3	4.3	B0/220		
BH	(60°-80°)	102.1	3.0	B0/110		G0/110
BVH	(80°-90°)	7.2	0.2			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	20.9		U4/1000	

BUG Rating: B0-U5-G1

Type IV Short





REPORT NUMBER: P228588

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
0°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7
2.5°	584.6	579.9	570.4	551.5	531.8	512.9	509.7	502.7	503.4	499.5	497.9
5°	565.7	559.4	539.7	500.3	466.4	431.7	429.4	415.2	416.8	408.1	403.4
7.5°	523.9	515.3	493.2	438.8	391.6	345.9	341.1	324.6	322.2	313.6	306.5
10°	483.0	474.3	446.7	384.5	330.1	296.2	290.7	282.8	276.5	272.6	265.5
12.5°	457.0	452.2	419.1	347.4	304.9	277.3	270.2	262.4	256.1	249.0	241.9
15°	451.4	442.0	408.1	335.6	286.0	252.1	243.4	234.8	227.7	220.6	210.4
17.5°	466.4	457.0	419.1	330.1	264.7	223.8	212.7	200.9	193.8	185.1	174.1
20°	501.9	486.9	440.4	322.2	241.9	190.7	177.3	163.1	155.2	140.2	132.4
22.5°	558.6	539.7	476.7	322.2	220.6	156.0	141.0	128.4	119.8	106.4	97.7
25°	639.7	623.2	535.7	330.9	201.7	126.8	111.9	99.3	90.6	81.1	75.6
27.5°	715.4	689.4	598.8	343.5	186.7	106.4	91.4	81.1	74.8	70.1	67.0
30°	772.1	750.8	653.9	352.2	164.7	89.0	79.6	73.3	70.1	67.8	66.2
32.5°	824.1	799.7	693.3	357.7	151.3	75.6	67.0	62.2	59.1	55.9	55.1
35°	879.2	855.6	739.8	356.9	142.6	69.3	60.7	55.1	52.0	51.2	49.6
37.5°	955.7	923.4	793.4	356.9	139.5	67.0	56.7	51.2	48.8	47.3	46.5
40°	1029.7	993.5	852.5	359.3	136.3	65.4	56.7	51.2	47.3	45.7	44.1
42.5°	1099.1	1058.9	906.0	363.2	134.7	60.7	53.6	50.4	48.8	45.7	43.3
45°	1151.8	1120.3	947.8	371.1	134.7	57.5	50.4	48.1	47.3	47.3	46.5
47.5°	1203.1	1167.6	995.9	386.0	137.1	55.1	48.1	44.9	44.9	44.9	45.7
50°	1269.2	1227.5	1062.0	416.8	137.1	54.4	45.7	42.5	41.8	43.3	43.3
52.5°	1359.1	1329.1	1158.9	460.9	135.5	53.6	44.9	40.2	39.4	40.2	41.8
55°	1485.9	1452.0	1276.3	515.3	133.9	52.0	43.3	39.4	37.8	37.0	37.8
57.5°	1595.4	1566.3	1384.3	558.6	130.0	48.1	41.8	38.6	36.2	35.5	34.7
60°	1643.5	1619.0	1453.6	587.7	122.9	44.1	39.4	37.0	34.7	33.9	33.1
62.5°	1651.3	1620.6	1454.4	594.0	115.0	40.2	37.0	34.7	33.1	32.3	31.5
65°	1620.6	1586.0	1396.9	555.4	108.7	40.2	35.5	33.1	30.7	29.9	29.2
67.5°	1551.3	1497.7	1251.1	471.1	103.2	41.0	34.7	30.7	29.2	28.4	27.6
70°	1384.3	1324.4	1056.5	374.2	100.8	41.8	34.7	29.2	26.8	26.0	26.0
72.5°	1109.3	1040.8	824.1	282.1	96.9	42.5	33.9	27.6	25.2	23.6	23.6
75°	750.8	691.0	558.6	190.7	80.4	37.0	30.7	25.2	22.1	20.5	19.7
77.5°	418.4	398.7	355.3	100.8	51.2	27.6	23.6	20.5	18.1	17.3	16.5
80°	245.8	235.6	209.6	55.9	31.5	15.8	14.2	13.4	11.8	11.8	11.8
82.5°	150.5	140.2	130.0	25.2	15.0	7.9	7.9	6.3	6.3	5.5	5.5
85°	41.0	37.8	52.8	5.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	2.0	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	10.0
100°	8.0	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5
102.5°	28.0	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2
105°	54.0	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2
107.5°	78.0	77.8	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5
110°	101.0	101.2	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5



REPORT NUMBER: P228588

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

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
112.5°	124.0	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5
115°	146.0	146.2	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5
117.5°	169.0	169.2	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2
120°	193.0	193.4	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5
122.5°	219.0	219.2	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2
125°	244.0	244.4	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2
127.5°	267.0	267.4	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5
130°	290.0	290.4	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5
132.5°	313.0	313.2	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8
135°	336.0	336.2	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8
137.5°	359.0	359.2	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5
140°	382.0	382.2	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2
142.5°	404.0	404.4	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5
145°	425.0	425.2	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5
147.5°	444.0	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2
150°	461.0	461.2	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2
152.5°	479.0	479.2	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2
155°	499.0	499.2	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2
157.5°	513.0	513.4	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	525.4	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	535.2	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2
165°	546.0	546.2	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2
167.5°	555.0	555.2	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0
170°	562.0	562.2	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8
172.5°	565.0	565.2	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2
175°	567.0	567.4	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2
177.5°	572.0	572.2	573.0	575.0	574.0	578.0	577.8	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



REPORT NUMBER: P228588

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

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7
2.5°	491.6	490.0	490.0	478.2	478.2	471.9	470.4	470.4	472.7	471.1	461.7
5°	395.5	390.8	387.6	373.4	369.5	362.4	359.3	358.5	360.8	356.9	344.3
7.5°	297.8	293.9	289.1	278.1	273.4	272.6	263.1	260.8	259.2	256.1	248.2
10°	260.0	254.5	250.5	242.7	237.1	233.2	225.3	221.4	218.2	213.5	211.1
12.5°	234.0	228.5	223.0	212.7	205.6	200.9	196.2	188.3	185.1	179.6	176.5
15°	201.7	195.4	189.1	178.1	168.6	163.9	154.4	149.7	146.5	140.2	137.1
17.5°	162.3	153.6	146.5	136.3	131.6	123.7	118.2	110.3	104.0	101.6	99.3
20°	122.1	114.2	107.9	99.3	94.5	88.2	85.1	79.6	76.4	74.8	73.3
22.5°	89.8	83.5	79.6	74.8	72.5	70.1	68.5	67.0	65.4	64.6	64.6
25°	70.9	68.5	67.0	65.4	64.6	63.8	62.2	61.5	60.7	59.9	59.9
27.5°	64.6	63.0	62.2	61.5	60.7	59.1	59.1	57.5	56.7	56.7	55.9
30°	65.4	65.4	65.4	63.8	63.0	61.5	60.7	58.3	56.7	55.1	54.4
32.5°	53.6	53.6	52.8	51.2	50.4	49.6	49.6	48.1	47.3	47.3	48.8
35°	48.8	48.1	47.3	45.7	44.9	43.3	42.5	41.8	41.0	40.2	40.2
37.5°	46.5	45.7	44.9	43.3	42.5	41.8	41.0	39.4	38.6	38.6	37.8
40°	44.1	44.1	44.1	42.5	41.8	40.2	39.4	38.6	37.8	37.0	37.0
42.5°	42.5	42.5	42.5	41.8	41.0	40.2	38.6	37.8	37.0	36.2	35.5
45°	43.3	42.5	42.5	41.8	41.0	39.4	38.6	37.0	36.2	35.5	34.7
47.5°	46.5	45.7	44.1	42.5	41.0	39.4	37.8	36.2	35.5	34.7	33.9
50°	44.1	47.3	48.1	45.7	41.8	39.4	37.8	36.2	34.7	33.9	33.1
52.5°	43.3	44.1	47.3	47.3	43.3	40.2	37.8	36.2	34.7	33.1	32.3
55°	39.4	41.8	42.5	43.3	42.5	39.4	37.0	34.7	33.9	32.3	30.7
57.5°	34.7	36.2	37.0	38.6	39.4	38.6	35.5	33.1	32.3	30.7	29.2
60°	32.3	32.3	32.3	33.1	37.0	40.2	37.0	32.3	29.9	29.2	27.6
62.5°	29.9	29.9	29.2	29.9	30.7	34.7	33.9	30.7	29.2	28.4	26.8
65°	29.2	28.4	27.6	27.6	27.6	27.6	27.6	27.6	26.8	26.8	26.0
67.5°	26.8	26.0	26.0	25.2	25.2	25.2	25.2	25.2	24.4	24.4	23.6
70°	25.2	24.4	23.6	23.6	23.6	22.8	22.8	22.8	22.1	22.1	22.1
72.5°	22.8	22.1	22.1	22.1	21.3	21.3	21.3	20.5	20.5	19.7	19.7
75°	19.7	19.7	18.9	18.9	18.9	18.1	18.1	18.1	18.1	17.3	17.3
77.5°	16.5	15.8	16.5	15.8	15.8	15.8	15.8	15.8	15.0	15.0	14.2
80°	11.0	11.0	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.0
82.5°	6.3	5.5	6.3	6.3	6.3	7.1	7.1	7.9	7.1	7.1	6.3
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	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
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0



REPORT NUMBER: P228588

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

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
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



REPORT NUMBER: P228588

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

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7
2.5°	466.4	465.6	457.7	459.3	457.0	452.2	453.0	453.8	455.4	452.2	450.7
5°	350.6	351.4	341.1	344.3	341.9	341.1	343.5	347.4	349.8	349.0	346.7
7.5°	249.0	249.8	241.1	240.3	237.9	237.1	240.3	244.2	246.6	245.8	246.6
10°	205.6	203.3	195.4	189.9	184.4	179.6	178.8	178.8	178.8	177.3	175.7
12.5°	170.2	167.8	158.4	153.6	148.9	142.6	141.8	141.0	138.7	136.3	133.1
15°	132.4	130.0	122.1	119.0	115.0	112.7	111.9	111.9	110.3	108.7	107.1
17.5°	96.1	94.5	89.8	86.7	85.9	86.7	87.5	89.0	89.8	90.6	90.6
20°	72.5	71.7	70.1	70.1	70.9	73.3	74.1	76.4	77.2	78.8	80.4
22.5°	63.8	63.8	63.0	63.0	64.6	67.0	68.5	69.3	70.1	70.9	70.9
25°	59.1	59.1	58.3	59.9	62.2	62.2	62.2	62.2	60.7	59.9	59.9
27.5°	55.9	55.9	55.9	56.7	55.9	55.1	55.1	55.1	54.4	54.4	53.6
30°	53.6	53.6	53.6	52.8	52.8	52.0	52.0	51.2	51.2	50.4	50.4
32.5°	49.6	48.1	49.6	48.1	48.1	47.3	48.1	48.1	46.5	46.5	46.5
35°	39.4	38.6	38.6	38.6	37.8	38.6	40.2	40.2	40.2	40.2	40.2
37.5°	37.0	37.0	36.2	35.5	35.5	34.7	35.5	34.7	34.7	34.7	35.5
40°	36.2	35.5	34.7	34.7	33.9	33.1	33.1	33.1	33.1	33.1	33.1
42.5°	34.7	34.7	33.1	32.3	32.3	31.5	31.5	31.5	31.5	31.5	31.5
45°	33.9	33.1	32.3	31.5	30.7	30.7	30.7	30.7	30.7	30.7	29.9
47.5°	33.1	32.3	31.5	30.7	29.9	29.2	29.2	29.2	29.2	29.2	29.2
50°	32.3	31.5	29.9	29.9	29.2	28.4	28.4	28.4	28.4	28.4	28.4
52.5°	30.7	30.7	29.2	28.4	27.6	27.6	27.6	27.6	27.6	27.6	27.6
55°	29.2	29.2	27.6	26.8	26.0	26.0	26.0	26.0	26.8	26.8	26.8
57.5°	28.4	27.6	26.0	26.0	24.4	24.4	24.4	25.2	25.2	26.0	26.0
60°	26.8	26.0	25.2	24.4	24.4	23.6	23.6	23.6	23.6	24.4	24.4
62.5°	26.0	25.2	23.6	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
65°	24.4	24.4	22.8	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
67.5°	22.8	22.8	21.3	20.5	20.5	20.5	21.3	20.5	20.5	20.5	20.5
70°	21.3	20.5	19.7	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
72.5°	18.9	18.9	18.1	17.3	17.3	17.3	17.3	17.3	17.3	17.3	18.1
75°	16.5	15.8	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
77.5°	14.2	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.4
80°	10.2	9.5	9.5	9.5	9.5	10.2	10.2	10.2	10.2	10.2	10.2
82.5°	6.3	5.5	5.5	5.5	6.3	7.1	7.1	7.1	7.1	7.9	7.9
85°	1.6	1.6	1.6	1.6	3.2	3.9	3.9	3.9	4.7	3.9	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P228588
 CATALOG NUMBER: ISS-AF-350-LED-E1-SLR-7050-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: P228588
 NUMBER: ISS-AF-350-LED-E1-SLR-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°	115°	115°
550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	112.5°	136.0
449.1	458.5	458.5	452.2	455.4	452.2	451.4	457.0	460.1	470.4	476.7	115°	158.0
347.4	359.3	360.1	356.9	360.8	358.5	360.8	367.9	373.4	380.5	386.8	117.5°	181.0
248.2	259.2	261.6	259.2	266.3	265.5	267.1	275.0	279.7	283.6	284.4	120°	204.0
174.9	176.5	182.8	181.2	185.9	185.1	187.5	193.8	200.1	202.5	204.1	122.5°	228.0
131.6	130.0	132.4	129.2	131.6	131.6	132.4	136.3	144.2	147.3	155.2	125°	254.0
106.4	104.8	104.8	103.2	103.2	102.4	103.2	106.4	111.9	116.6	122.9	127.5°	277.0
90.6	90.6	90.6	89.8	89.0	89.0	89.8	91.4	94.5	97.7	100.8	130°	301.0
81.1	82.7	83.5	84.3	85.1	85.9	86.7	89.0	88.2	85.1	81.1	132.5°	325.0
70.9	70.9	71.7	71.7	70.9	70.9	70.9	70.9	70.9	73.3	75.6	135°	348.0
59.1	59.1	59.1	59.9	59.1	59.1	59.9	59.9	60.7	62.2	64.6	137.5°	369.0
53.6	53.6	53.6	53.6	53.6	53.6	53.6	54.4	55.1	57.5	59.1	140°	390.0
49.6	49.6	48.8	48.8	48.8	48.1	48.8	48.8	49.6	52.8	55.1	142.5°	412.0
45.7	44.9	44.9	44.9	44.1	44.1	44.1	45.7	46.5	48.1	50.4	145°	433.0
40.2	40.2	40.2	41.0	41.0	41.0	41.0	42.5	42.5	43.3	43.3	147.5°	452.0
36.2	36.2	37.0	37.8	37.8	38.6	38.6	39.4	40.2	39.4	38.6	150°	469.0
33.1	33.9	33.9	35.5	35.5	35.5	36.2	37.0	37.8	36.2	36.2	152.5°	486.0
31.5	31.5	31.5	32.3	32.3	32.3	33.1	33.9	34.7	34.7	34.7	155°	503.0
29.9	29.9	29.9	30.7	29.9	29.9	29.9	30.7	32.3	32.3	33.1	157.5°	517.0
29.2	29.2	29.2	28.4	28.4	28.4	28.4	29.2	29.9	31.5	32.3	160°	530.0
28.4	27.6	27.6	27.6	27.6	27.6	27.6	28.4	29.2	29.9	31.5	162.5°	540.0
26.8	26.8	26.8	26.8	26.8	26.8	26.8	27.6	28.4	29.2	29.9	165°	550.0
26.8	26.8	26.0	26.0	26.8	26.8	26.8	27.6	28.4	29.2	29.2	167.5°	558.0
26.0	25.2	25.2	26.0	26.0	26.0	26.0	26.8	27.6	28.4	28.4	170°	564.0
24.4	24.4	24.4	24.4	25.2	25.2	26.0	26.8	26.8	27.6	27.6	172.5°	567.0
22.8	23.6	23.6	23.6	24.4	24.4	25.2	26.0	26.8	27.6	26.8	175°	570.0
22.1	22.8	22.8	22.8	23.6	23.6	23.6	25.2	26.0	26.0	26.8	177.5°	574.0
21.3	21.3	21.3	22.1	22.1	22.8	22.8	24.4	24.4	25.2	26.0	180°	576.0
19.7	19.7	19.7	20.5	20.5	21.3	22.1	22.8	22.8	23.6	24.4		
18.1	18.1	18.1	18.9	18.9	19.7	20.5	22.1	21.3	22.1	22.1		
15.8	15.8	16.5	16.5	17.3	18.1	18.9	18.9	18.9	18.9	18.9		
13.4	13.4	14.2	14.2	15.0	15.8	15.8	15.8	16.5	15.8	15.8		
11.0	11.0	11.8	11.8	11.8	11.8	12.6	11.8	12.6	11.8	12.6		
7.9	7.9	8.7	7.9	8.7	7.9	7.9	7.1	8.7	7.9	7.9		
3.2	3.9	3.9	3.9	3.9	3.2	3.2	2.4	3.2	3.2	2.4		
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	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		

'228588
 ISS-AF-350-LED-E1-SLR-7050-ULG

REPORT NUMBER: P228588
 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°	550.7	550.7
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	479.0	478.2
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	387.6	386.0
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	277.3	274.2
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	204.8	207.2
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	163.9	173.3
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	131.6	137.1
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	101.6	104.0
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	81.1	81.1
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	70.9	70.1
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	67.0	66.2
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	60.7	61.5
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	56.7	57.5
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	52.0	52.8
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	42.5	42.5
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	39.4	39.4
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	37.0	37.8
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	35.5	35.5
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	33.9	34.7
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	33.1	33.1
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	31.5	32.3
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	30.7	31.5
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	29.9	29.9
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	28.4	29.2
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	28.4	28.4
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	27.6	27.6
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	26.8	26.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	25.2	25.2
										70°	23.6	23.6
										72.5°	22.1	21.3
										75°	18.9	18.9
										77.5°	15.8	15.8
										80°	11.8	11.0
										82.5°	7.1	6.3
										85°	2.4	2.4
										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
										110°	102.0	101.0

REPORT NUMBER: P228588

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

0-LED-E1-SLR-7050-ULG

tinued):

CANDELA DISTRIBUTION (continued):

185°	195°	205°	215°	225°	230°	235°	240°	245°		175°	180°	185°
550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	112.5°	124.0	124.0	124.0
490.0	498.7	504.2	525.5	535.0	546.8	552.3	560.2	568.0	115°	147.0	146.0	147.0
400.2	411.3	420.7	451.4	469.6	486.1	499.5	512.1	530.2	117.5°	170.0	169.0	170.0
283.6	293.1	305.7	338.8	370.3	392.4	412.0	433.3	457.0	120°	195.0	193.0	195.0
216.7	230.8	247.4	272.6	297.8	313.6	330.9	354.5	382.9	122.5°	220.0	219.0	220.0
181.2	198.5	218.2	246.6	273.4	286.0	298.6	310.4	325.4	125°	246.0	244.0	246.0
143.4	159.9	183.6	216.7	248.2	262.4	277.3	291.5	304.9	127.5°	269.0	267.0	269.0
107.1	119.0	140.2	179.6	214.3	232.4	249.8	269.4	287.6	130°	292.0	290.0	292.0
81.9	87.5	102.4	133.1	175.7	198.5	220.6	245.8	271.8	132.5°	314.0	313.0	314.0
70.9	73.3	80.4	98.5	137.1	163.9	192.2	223.8	256.1	135°	337.0	336.0	337.0
65.4	67.0	70.9	79.6	107.1	135.5	164.7	202.5	241.9	137.5°	360.0	359.0	360.0
62.2	63.8	67.0	71.7	89.0	110.3	142.6	184.4	231.6	140°	383.0	382.0	383.0
58.3	59.9	65.4	70.9	81.1	94.5	122.1	163.1	215.9	142.5°	406.0	404.0	406.0
53.6	54.4	55.9	62.2	69.3	80.4	104.0	144.2	199.3	145°	426.0	425.0	426.0
43.3	45.7	48.8	55.1	62.2	70.9	93.0	131.6	189.1	147.5°	444.0	444.0	444.0
40.2	42.5	45.7	51.2	57.5	65.4	88.2	126.8	179.6	150°	462.0	461.0	462.0
37.8	40.2	43.3	49.6	53.6	63.0	85.9	119.8	170.2	152.5°	480.0	479.0	480.0
36.2	38.6	42.5	47.3	52.8	61.5	79.6	113.5	164.7	155°	500.0	499.0	500.0
34.7	37.0	41.8	45.7	53.6	58.3	75.6	108.7	159.9	157.5°	515.0	513.0	515.0
33.9	36.2	41.0	46.5	52.0	55.1	71.7	104.8	156.0	160°	527.0	525.0	527.0
33.1	35.5	40.2	51.2	49.6	52.8	68.5	101.6	153.6	162.5°	536.0	535.0	536.0
32.3	34.7	40.2	52.0	48.1	49.6	66.2	98.5	152.1	165°	547.0	546.0	547.0
30.7	33.9	40.2	48.1	44.9	48.1	61.5	93.8	148.1	167.5°	556.0	555.0	556.0
29.9	32.3	39.4	44.1	42.5	45.7	56.7	85.9	142.6	170°	563.0	562.0	563.0
29.2	31.5	39.4	39.4	40.2	43.3	51.2	76.4	133.1	172.5°	566.0	565.0	566.0
28.4	31.5	40.2	35.5	37.8	41.0	47.3	68.5	121.3	175°	569.0	567.0	569.0
27.6	29.9	34.7	33.9	36.2	38.6	45.7	63.0	111.1	177.5°	573.0	572.0	573.0
26.0	28.4	30.7	31.5	34.7	37.0	44.9	62.2	101.6	180°	576.0	576.0	576.0
23.6	26.0	27.6	29.9	32.3	35.5	44.9	61.5	94.5				
22.1	23.6	25.2	26.8	29.2	33.1	44.1	62.2	91.4				
18.9	20.5	22.1	23.6	26.0	30.7	41.8	58.3	81.9				
15.0	17.3	18.9	19.7	22.1	26.8	36.2	49.6	66.2				
11.0	13.4	14.2	15.8	17.3	20.5	28.4	36.2	48.8				
6.3	8.7	9.5	10.2	13.4	15.0	18.9	23.6	33.1				
2.4	3.9	4.7	5.5	7.9	8.7	11.8	15.0	17.3				
0.0	0.0	0.0	0.0	1.6	2.4	3.9	4.7	3.9				
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				
2.0	2.0	3.0	4.0	9.0	11.0	13.0	10.0	7.0				
8.0	10.0	14.0	22.0	30.0	31.0	32.0	31.0	30.0				
28.0	32.0	38.0	45.0	50.0	50.5	51.0	50.5	50.0				
54.0	56.0	61.0	66.0	70.0	70.5	71.0	71.0	71.0				
77.0	80.0	84.0	88.0	91.0	92.0	93.0	92.5	92.0				
102.0	103.0	106.0	110.0	112.0	113.0	114.0	114.0	114.0				



REPORT NUMBER: P228588

CATALOG NUMBER: ISS-AF-350-LED-E1-SLR-7050-L

SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

195°	205°	215°	225°	230°	235°	240°	245°		250°	255°	260°	265°
126.0	129.0	132.0	134.0	135.0	136.0	136.0	136.0	0°	550.7	550.7	550.7	550.7
149.0	151.0	154.0	156.0	157.0	158.0	158.0	158.0	2.5°	577.5	585.4	595.6	605.1
172.0	174.0	177.0	179.0	179.5	180.0	180.5	181.0	5°	544.4	559.4	581.4	599.6
196.0	198.0	201.0	202.0	203.0	204.0	204.0	204.0	7.5°	477.4	497.9	525.5	550.7
221.0	223.0	226.0	227.0	227.5	228.0	228.0	228.0	10°	407.3	435.7	464.8	497.1
247.0	248.0	251.0	252.0	252.5	253.0	253.5	254.0	12.5°	349.8	382.1	415.2	455.4
270.0	272.0	274.0	276.0	277.0	278.0	277.5	277.0	15°	325.4	353.7	392.4	436.5
293.0	294.0	298.0	299.0	300.0	301.0	301.0	301.0	17.5°	315.1	351.4	395.5	442.0
317.0	318.0	321.0	322.0	323.5	325.0	325.0	325.0	20°	304.1	353.7	412.8	469.6
339.0	341.0	345.0	345.0	346.5	348.0	348.0	348.0	22.5°	297.8	361.6	434.9	514.5
363.0	364.0	367.0	367.0	368.0	369.0	369.0	369.0	25°	296.2	379.7	472.7	578.3
385.0	386.0	388.0	389.0	389.5	390.0	390.0	390.0	27.5°	297.8	400.2	520.0	646.8
408.0	407.0	410.0	410.0	411.0	412.0	412.0	412.0	30°	290.7	421.5	567.3	706.7
428.0	428.0	431.0	432.0	433.0	434.0	433.5	433.0	32.5°	278.9	437.3	609.0	754.8
447.0	448.0	452.0	453.0	453.5	454.0	453.0	452.0	35°	265.5	444.4	639.0	799.7
464.0	465.0	469.0	470.0	470.5	471.0	470.0	469.0	37.5°	251.3	445.1	667.3	846.9
483.0	482.0	485.0	486.0	486.5	487.0	486.5	486.0	40°	243.4	442.0	696.5	905.2
502.0	501.0	503.0	503.0	503.5	504.0	503.5	503.0	42.5°	240.3	436.5	717.7	949.4
517.0	516.0	519.0	519.0	519.0	519.0	518.0	517.0	45°	240.3	431.0	737.4	982.5
529.0	529.0	532.0	532.0	532.0	532.0	531.0	530.0	47.5°	241.1	433.3	761.1	1036.0
539.0	538.0	541.0	541.0	541.5	542.0	541.0	540.0	50°	245.0	460.1	801.2	1095.1
549.0	548.0	552.0	552.0	552.5	553.0	551.5	550.0	52.5°	251.3	502.7	870.6	1165.2
559.0	558.0	561.0	560.0	560.0	560.0	559.0	558.0	55°	257.6	546.0	961.2	1282.6
566.0	565.0	567.0	566.0	565.5	565.0	564.5	564.0	57.5°	263.1	578.3	1049.4	1399.2
569.0	567.0	569.0	568.0	568.5	569.0	568.0	567.0	60°	268.7	603.5	1100.6	1451.2
570.0	569.0	572.0	572.0	572.5	573.0	571.5	570.0	62.5°	265.5	594.0	1114.8	1425.2
575.0	574.0	578.0	577.0	577.0	577.0	575.5	574.0	65°	253.7	544.4	1069.9	1335.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	221.4	457.7	932.0	1193.6
								70°	183.6	359.3	760.3	1016.3
								72.5°	154.4	268.7	584.6	787.1
								75°	128.4	189.9	411.3	542.0
								77.5°	95.3	129.2	297.8	379.0
								80°	63.8	79.6	189.9	264.7
								82.5°	38.6	46.5	109.5	185.1
								85°	21.3	29.2	67.0	121.3
								87.5°	5.5	6.3	15.0	5.5
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	1.0	1.0	1.0	1.0
								97.5°	6.0	5.0	4.5	4.0
								100°	28.5	27.0	26.5	26.0
								102.5°	49.0	48.0	48.5	49.0
								105°	70.0	69.0	70.0	71.0
								107.5°	91.5	91.0	91.5	92.0
								110°	113.5	113.0	113.5	114.0



REPORT NUMBER: P228588

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

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CANDELA DISTRIBUTION (continued):

270°	275°	280°	285°	290°	295°	300°		250°	255°	260°	265°	270°
550.7	550.7	550.7	550.7	550.7	550.7	550.7	112.5°	135.5	135.0	136.0	137.0	135.0
612.2	618.5	626.3	626.3	635.8	639.0	645.3	115°	158.0	158.0	159.0	160.0	159.0
621.6	642.9	662.6	673.6	692.5	705.1	717.7	117.5°	180.5	180.0	181.0	182.0	180.0
583.0	617.7	650.0	679.9	711.4	738.2	757.9	120°	204.0	204.0	205.0	206.0	204.0
531.8	568.8	608.2	648.4	686.2	724.0	756.3	122.5°	228.5	229.0	231.0	233.0	232.0
495.6	535.0	581.4	616.1	655.5	693.3	724.8	125°	254.0	254.0	255.5	257.0	256.0
479.0	519.2	562.5	598.0	635.0	665.7	687.8	127.5°	277.5	278.0	279.5	281.0	278.0
487.7	536.5	575.1	605.1	632.6	646.8	650.0	130°	301.5	302.0	303.5	305.0	303.0
525.5	576.7	605.1	624.8	629.5	628.7	616.9	132.5°	325.5	326.0	327.5	329.0	327.0
584.6	644.5	664.2	660.2	640.5	615.3	595.6	135°	348.5	349.0	350.0	351.0	350.0
664.2	724.0	735.1	713.0	668.9	620.0	587.0	137.5°	369.5	370.0	372.0	374.0	372.0
747.7	809.1	805.2	772.1	709.1	640.5	587.7	140°	391.0	392.0	394.0	396.0	394.0
806.8	858.0	842.2	792.6	722.5	653.9	598.0	142.5°	412.5	413.0	414.5	416.0	415.0
868.2	906.8	878.5	824.9	752.4	682.3	624.8	145°	433.5	434.0	435.5	437.0	435.0
934.4	954.9	909.2	854.8	788.6	717.7	655.5	147.5°	452.5	453.0	454.5	456.0	453.0
998.2	1006.9	940.7	882.4	817.8	754.0	697.3	150°	469.0	469.0	471.0	473.0	470.0
1066.8	1054.9	973.8	905.2	841.4	792.6	746.1	152.5°	486.0	486.0	487.5	489.0	486.0
1125.8	1099.8	1004.5	928.1	870.6	829.6	797.3	155°	503.5	504.0	505.5	507.0	505.0
1170.0	1136.1	1033.7	950.2	898.9	873.7	858.0	157.5°	517.5	518.0	520.5	523.0	520.0
1207.8	1170.8	1056.5	982.5	938.3	928.9	934.4	160°	530.0	530.0	531.5	533.0	531.0
1255.1	1207.8	1087.2	1018.7	991.9	1001.4	1032.9	162.5°	539.0	538.0	539.0	540.0	537.0
1328.3	1266.9	1138.5	1070.7	1058.1	1092.0	1151.8	165°	549.0	548.0	549.0	550.0	548.0
1446.5	1374.0	1229.1	1161.3	1146.3	1198.3	1284.2	167.5°	558.5	559.0	561.0	563.0	561.0
1548.9	1493.8	1348.8	1266.9	1260.6	1316.5	1410.3	170°	565.0	566.0	568.5	571.0	569.0
1595.4	1589.9	1472.5	1396.9	1387.4	1439.4	1528.4	172.5°	567.5	568.0	569.5	571.0	568.0
1591.5	1637.2	1573.3	1519.8	1487.5	1530.8	1617.5	175°	569.0	568.0	569.5	571.0	568.0
1534.0	1608.8	1614.3	1601.7	1543.4	1546.6	1608.0	177.5°	574.0	574.0	575.5	577.0	574.0
1421.3	1510.3	1603.3	1599.3	1525.3	1459.9	1472.5	180°	576.0	576.0	576.0	576.0	576.0
1261.4	1337.8	1485.9	1515.8	1410.3	1288.1	1230.6						
1010.8	1099.8	1319.7	1361.4	1217.2	1045.5	956.5						
697.3	814.6	1151.8	1155.8	988.0	822.5	726.4						
479.0	579.9	931.2	941.5	783.9	624.0	541.3						
322.2	388.4	683.1	639.7	517.6	432.5	411.3						
203.3	241.9	429.4	401.0	341.1	312.0	319.9						
94.5	132.4	234.8	229.3	215.1	188.3	163.9						
2.4	7.1	45.7	29.9	29.9	17.3	6.3						
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						
4.0	4.0	4.5	5.0	6.0	7.0	10.0						
25.0	26.0	26.5	27.0	28.5	30.0	31.0						
48.0	49.0	48.5	48.0	49.0	50.0	50.5						
69.0	71.0	70.0	69.0	70.0	71.0	71.0						
91.0	92.0	91.5	91.0	91.5	92.0	92.5						
113.0	114.0	113.5	113.0	113.5	114.0	114.0						



REPORT NUMBER: P228588

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

CANDELA DISTRIBUTION (continued):

275°	280°	285°	290°	295°	300°		305°	310°	315°	325°	335°	340°
137.0	136.0	135.0	135.5	136.0	136.0	0°	550.7	550.7	550.7	550.7	550.7	550.7
160.0	159.0	158.0	158.0	158.0	158.0	2.5°	639.7	642.1	641.3	635.8	621.6	616.1
182.0	181.0	180.0	180.5	181.0	180.5	5°	716.9	720.9	716.2	702.8	666.5	649.2
206.0	205.0	204.0	204.0	204.0	204.0	7.5°	771.3	774.5	766.6	735.9	671.3	642.1
233.0	231.0	229.0	228.5	228.0	228.0	10°	781.6	788.6	780.0	735.9	661.0	624.8
257.0	255.5	254.0	254.0	254.0	253.5	12.5°	752.4	767.4	761.1	728.8	656.3	617.7
281.0	279.5	278.0	277.5	277.0	277.5	15°	707.5	709.1	713.0	712.2	647.6	609.8
305.0	303.5	302.0	301.5	301.0	301.0	17.5°	657.9	656.3	661.0	676.0	645.3	615.3
329.0	327.5	326.0	325.5	325.0	325.0	20°	613.0	610.6	615.3	630.3	635.8	628.7
351.0	350.0	349.0	348.5	348.0	348.0	22.5°	584.6	576.7	575.9	598.0	640.5	659.4
374.0	372.0	370.0	369.5	369.0	369.0	25°	568.8	560.2	564.1	589.3	660.2	695.7
396.0	394.0	392.0	391.0	390.0	390.0	27.5°	564.1	554.7	560.2	588.5	680.7	739.8
416.0	414.5	413.0	412.5	412.0	412.0	30°	567.3	557.8	560.2	594.0	691.0	750.0
437.0	435.5	434.0	433.5	433.0	433.5	32.5°	585.4	568.8	567.3	610.6	709.9	772.9
456.0	454.5	453.0	452.5	452.0	453.0	35°	609.8	586.2	583.0	637.4	734.3	802.0
473.0	471.0	469.0	469.0	469.0	470.0	37.5°	650.8	621.6	616.9	682.3	767.4	826.5
489.0	487.5	486.0	486.0	486.0	486.5	40°	705.9	676.8	676.8	739.8	812.3	860.3
507.0	505.5	504.0	503.5	503.0	503.5	42.5°	768.2	749.3	752.4	809.1	863.5	902.9
523.0	520.5	518.0	517.5	517.0	518.0	45°	850.9	840.6	856.4	896.6	915.5	942.3
533.0	531.5	530.0	530.0	530.0	531.0	47.5°	947.8	956.5	978.5	991.1	968.3	982.5
540.0	539.0	538.0	539.0	540.0	541.0	50°	1069.1	1092.0	1113.2	1110.1	1033.7	1028.9
550.0	549.0	548.0	549.0	550.0	551.5	52.5°	1208.6	1238.5	1253.5	1236.1	1106.9	1079.4
563.0	561.0	559.0	558.5	558.0	559.0	55°	1350.4	1386.6	1381.9	1362.2	1186.5	1149.5
571.0	568.5	566.0	565.0	564.0	564.5	57.5°	1478.8	1507.2	1519.8	1477.2	1283.4	1234.6
571.0	569.5	568.0	567.5	567.0	568.0	60°	1580.4	1611.2	1611.2	1569.4	1389.0	1332.3
571.0	569.5	568.0	569.0	570.0	571.5	62.5°	1654.5	1678.9	1670.3	1630.1	1479.6	1436.3
577.0	575.5	574.0	574.0	574.0	575.5	65°	1649.0	1651.3	1641.9	1626.9	1534.0	1529.2
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	1493.8	1494.6	1513.5	1507.2	1493.0	1551.3
						70°	1224.3	1236.9	1269.2	1259.8	1332.3	1452.0
						72.5°	932.0	939.9	978.5	969.9	1068.3	1199.9
						75°	678.3	677.6	694.1	681.5	806.0	952.5
						77.5°	522.3	508.2	505.0	506.6	571.2	692.5
						80°	421.5	421.5	416.8	399.4	349.8	405.0
						82.5°	336.4	323.0	299.4	265.5	224.5	239.5
						85°	167.8	163.1	142.6	118.2	98.5	130.8
						87.5°	0.8	0.0	0.0	0.0	0.0	0.0
						90°	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
						95°	1.0	1.0	1.0	1.0	1.0	1.0
						97.5°	13.0	11.0	9.0	4.0	3.0	2.5
						100°	32.0	31.0	30.0	22.0	14.0	12.0
						102.5°	51.0	50.5	50.0	45.0	38.0	35.0
						105°	71.0	70.5	70.0	66.0	61.0	58.5
						107.5°	93.0	92.0	91.0	88.0	84.0	82.0
						110°	114.0	113.0	112.0	110.0	106.0	104.5



REPORT NUMBER: P228588

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

CANDELA DISTRIBUTION (continued):

342.5°	345°	347.5°	350°	352.5°		305°	310°	315°	325°	335°	340°	342.5°
550.7	550.7	550.7	550.7	550.7	112.5°	136.0	135.0	134.0	132.0	129.0	127.5	126.8
613.7	607.4	600.3	600.3	594.0	115°	158.0	157.0	156.0	154.0	151.0	150.0	149.5
639.0	626.3	616.1	606.6	597.2	117.5°	180.0	179.5	179.0	177.0	174.0	173.0	172.5
626.3	611.4	598.8	582.2	567.3	120°	204.0	203.0	202.0	201.0	198.0	197.0	196.5
607.4	590.9	572.8	555.4	534.2	122.5°	228.0	227.5	227.0	226.0	223.0	222.0	221.5
597.2	577.5	555.4	537.3	512.9	125°	253.0	252.5	252.0	251.0	248.0	247.5	247.2
589.3	568.8	549.1	531.8	510.5	127.5°	278.0	277.0	276.0	274.0	272.0	271.0	270.5
601.9	582.2	568.0	548.3	531.8	130°	301.0	300.0	299.0	298.0	294.0	293.5	293.2
623.2	611.4	600.3	587.7	574.3	132.5°	325.0	323.5	322.0	321.0	318.0	317.5	317.2
663.4	661.8	661.0	651.6	642.1	135°	348.0	346.5	345.0	345.0	341.0	340.0	339.5
713.8	720.1	728.8	728.8	728.8	137.5°	369.0	368.0	367.0	367.0	364.0	363.5	363.2
765.8	781.6	798.1	805.2	809.9	140°	390.0	389.5	389.0	388.0	386.0	385.5	385.2
780.8	803.6	829.6	846.9	858.8	142.5°	412.0	411.0	410.0	410.0	407.0	407.5	407.8
805.2	831.2	860.3	880.0	901.3	145°	434.0	433.0	432.0	431.0	428.0	428.0	428.0
834.3	857.2	887.1	913.9	944.6	147.5°	454.0	453.5	453.0	452.0	448.0	447.5	447.2
858.8	888.7	921.0	955.7	995.1	150°	471.0	470.5	470.0	469.0	465.0	464.5	464.2
895.8	927.3	962.8	1009.2	1057.3	152.5°	487.0	486.5	486.0	485.0	482.0	482.5	482.8
936.8	970.6	1007.7	1054.2	1110.1	155°	504.0	503.5	503.0	503.0	501.0	501.5	501.8
972.2	1002.2	1042.3	1090.4	1154.2	157.5°	519.0	519.0	519.0	519.0	516.0	516.5	516.8
1006.1	1033.7	1080.9	1129.8	1192.8	160°	532.0	532.0	532.0	532.0	529.0	529.0	529.0
1051.0	1072.3	1119.5	1175.5	1242.4	162.5°	542.0	541.5	541.0	541.0	538.0	538.5	538.8
1097.5	1126.6	1178.6	1242.4	1317.3	165°	553.0	552.5	552.0	552.0	548.0	548.5	548.8
1160.5	1195.2	1259.0	1331.5	1426.0	167.5°	560.0	560.0	560.0	561.0	558.0	558.5	558.8
1247.2	1283.4	1351.2	1432.3	1529.2	170°	565.0	565.5	566.0	567.0	565.0	565.5	565.8
1353.5	1389.0	1447.3	1527.7	1618.3	172.5°	569.0	568.5	568.0	569.0	567.0	568.0	568.5
1452.8	1501.7	1554.4	1614.3	1686.0	175°	573.0	572.5	572.0	572.0	569.0	569.5	569.8
1560.7	1598.6	1642.7	1665.5	1705.7	177.5°	577.0	577.0	577.0	578.0	574.0	574.5	574.8
1592.3	1623.8	1662.4	1662.4	1657.6	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
1499.3	1547.4	1581.2	1581.2	1541.0								
1303.9	1384.3	1417.4	1437.8	1386.6								
1059.7	1159.7	1214.1	1231.4	1138.5								
777.6	841.4	848.5	850.9	725.6								
448.3	498.7	516.8	542.8	434.9								
260.0	278.9	309.6	320.7	264.7								
145.8	147.3	147.3	136.3	111.1								
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								
2.2	2.0	2.0	2.0	2.0								
11.0	10.0	9.5	9.0	8.5								
33.5	32.0	31.0	30.0	29.0								
57.2	56.0	55.5	55.0	54.5								
81.0	80.0	79.2	78.5	77.8								
103.8	103.0	102.8	102.5	102.2								

REPORT NUMBER: P228588
 CATALOG NUMBER: ISS-AF-350-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°		355°	359°	360°
126.0	125.5	125.0	124.5	0°	550.7	550.7	550.7
149.0	148.5	148.0	147.5	2.5°	592.5	583.0	584.6
172.0	171.5	171.0	170.5	5°	583.8	570.4	565.7
196.0	195.8	195.5	195.2	7.5°	553.9	531.0	523.9
221.0	220.8	220.5	220.2	10°	517.6	488.5	483.0
247.0	246.8	246.5	246.2	12.5°	497.1	464.0	457.0
270.0	269.8	269.5	269.2	15°	490.8	459.3	451.4
293.0	292.8	292.5	292.2	17.5°	509.7	475.9	466.4
317.0	316.2	315.5	314.8	20°	553.1	512.9	501.9
339.0	338.5	338.0	337.5	22.5°	617.7	572.0	558.6
363.0	362.2	361.5	360.8	25°	705.1	653.1	639.7
385.0	384.5	384.0	383.5	27.5°	794.9	732.7	715.4
408.0	407.5	407.0	406.5	30°	846.9	789.4	772.1
428.0	427.5	427.0	426.5	32.5°	899.7	844.6	824.1
447.0	446.2	445.5	444.8	35°	955.7	899.7	879.2
464.0	463.5	463.0	462.5	37.5°	1021.1	973.8	955.7
483.0	482.2	481.5	480.8	40°	1099.1	1055.7	1029.7
502.0	501.5	501.0	500.5	42.5°	1163.7	1123.5	1099.1
517.0	516.5	516.0	515.5	45°	1210.9	1177.1	1151.8
529.0	528.5	528.0	527.5	47.5°	1254.3	1228.3	1203.1
539.0	538.2	537.5	536.8	50°	1308.6	1286.6	1269.2
549.0	548.5	548.0	547.5	52.5°	1381.9	1374.0	1359.1
559.0	558.2	557.5	556.8	55°	1489.8	1507.2	1485.9
566.0	565.2	564.5	563.8	57.5°	1592.3	1604.9	1595.4
569.0	568.2	567.5	566.8	60°	1672.6	1655.3	1643.5
570.0	569.8	569.5	569.2	62.5°	1713.6	1671.0	1651.3
575.0	574.5	574.0	573.5	65°	1716.0	1650.6	1620.6
576.0	576.0	576.0	576.0	67.5°	1662.4	1586.0	1551.3
				70°	1518.2	1430.0	1384.3
				72.5°	1275.5	1140.0	1109.3
				75°	935.2	768.9	750.8
				77.5°	566.5	442.0	418.4
				80°	319.1	253.7	245.8
				82.5°	181.2	142.6	150.5
				85°	74.1	37.0	41.0
				87.5°	0.0	0.0	0.0
				90°	0.0	0.0	0.0
				92.5°	0.0	0.0	0.0
				95°	1.0	1.0	1.0
				97.5°	2.0	2.0	2.0
				100°	8.0	8.0	8.0
				102.5°	28.0	28.0	28.0
				105°	54.0	54.0	54.0
				107.5°	77.0	77.8	78.0
				110°	102.0	101.2	101.0

REPORT NUMBER: P228588

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

CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	124.0	124.0	124.0
115°	147.0	146.2	146.0
117.5°	170.0	169.2	169.0
120°	195.0	193.4	193.0
122.5°	220.0	219.2	219.0
125°	246.0	244.4	244.0
127.5°	269.0	267.4	267.0
130°	292.0	290.4	290.0
132.5°	314.0	313.2	313.0
135°	337.0	336.2	336.0
137.5°	360.0	359.2	359.0
140°	383.0	382.2	382.0
142.5°	406.0	404.4	404.0
145°	426.0	425.2	425.0
147.5°	444.0	444.0	444.0
150°	462.0	461.2	461.0
152.5°	480.0	479.2	479.0
155°	500.0	499.2	499.0
157.5°	515.0	513.4	513.0
160°	527.0	525.4	525.0
162.5°	536.0	535.2	535.0
165°	547.0	546.2	546.0
167.5°	556.0	555.2	555.0
170°	563.0	562.2	562.0
172.5°	566.0	565.2	565.0
175°	569.0	567.4	567.0
177.5°	573.0	572.2	572.0
180°	576.0	576.0	576.0

(END OF REPORT)