

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: P228600

Luminaire Tested: **ISS-AF-XXX-LED-E1-SLR-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-XXX-LED-E1-SLR-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCUELED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 541.1 lumens
Efficiency: N/A
Efficacy: 41.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 13
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

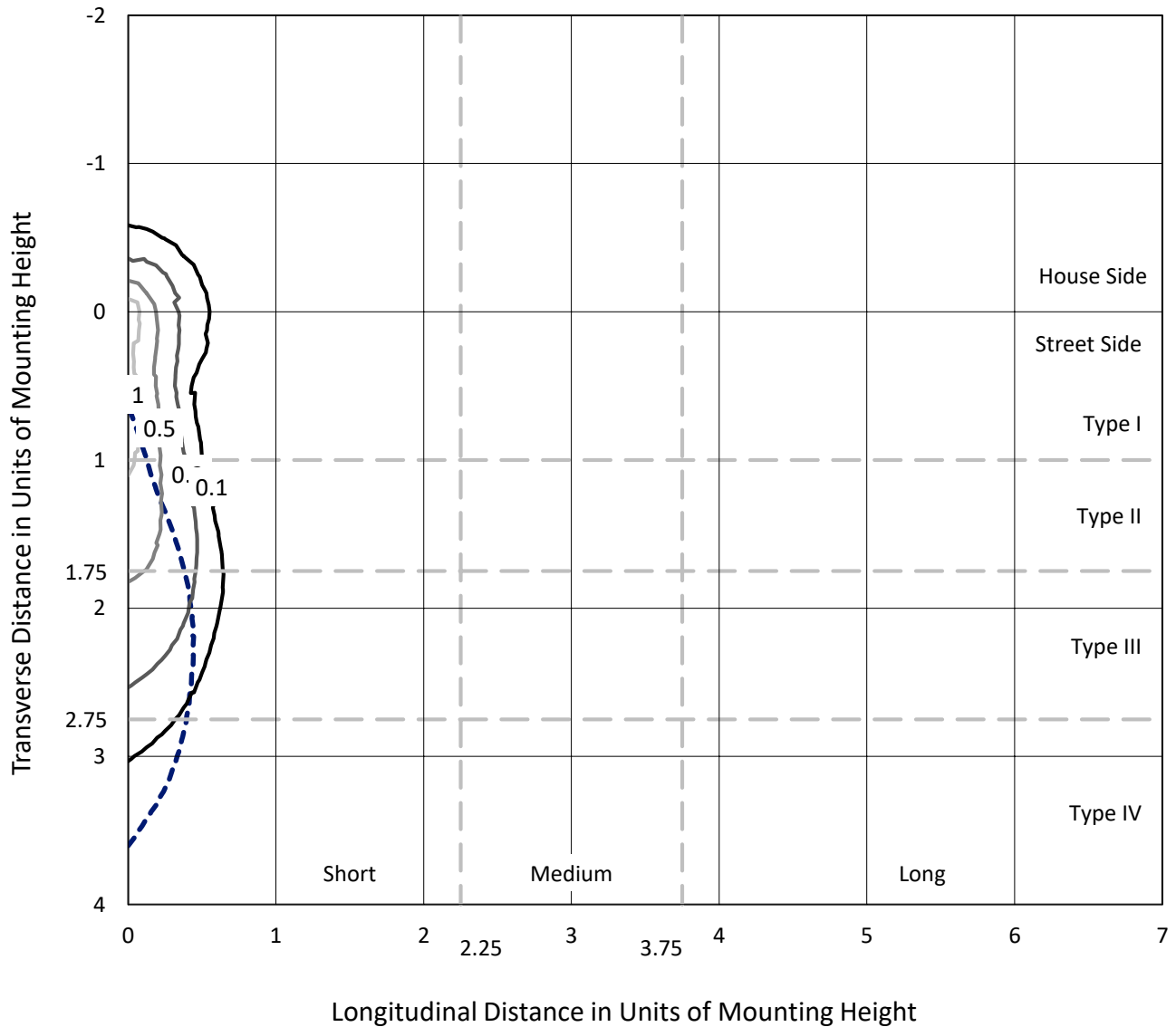


REPORT NUMBER: P228600

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-XXB

Iso-Footcandle Lines of Horizontal Illumination

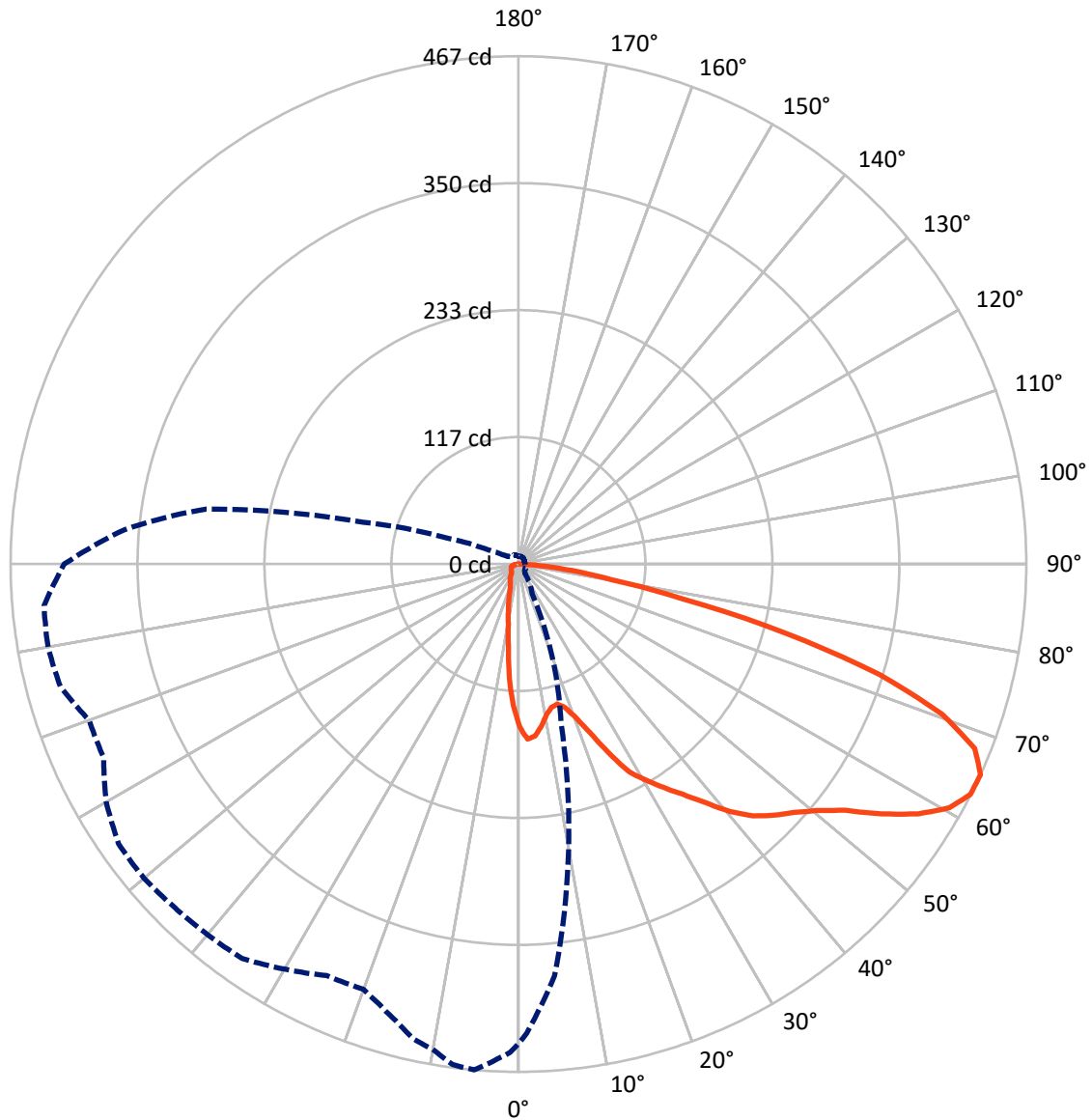
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228600
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-XXB

Luminous Intensity Polar Plot



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

REPORT NUMBER: P228600

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-XXB

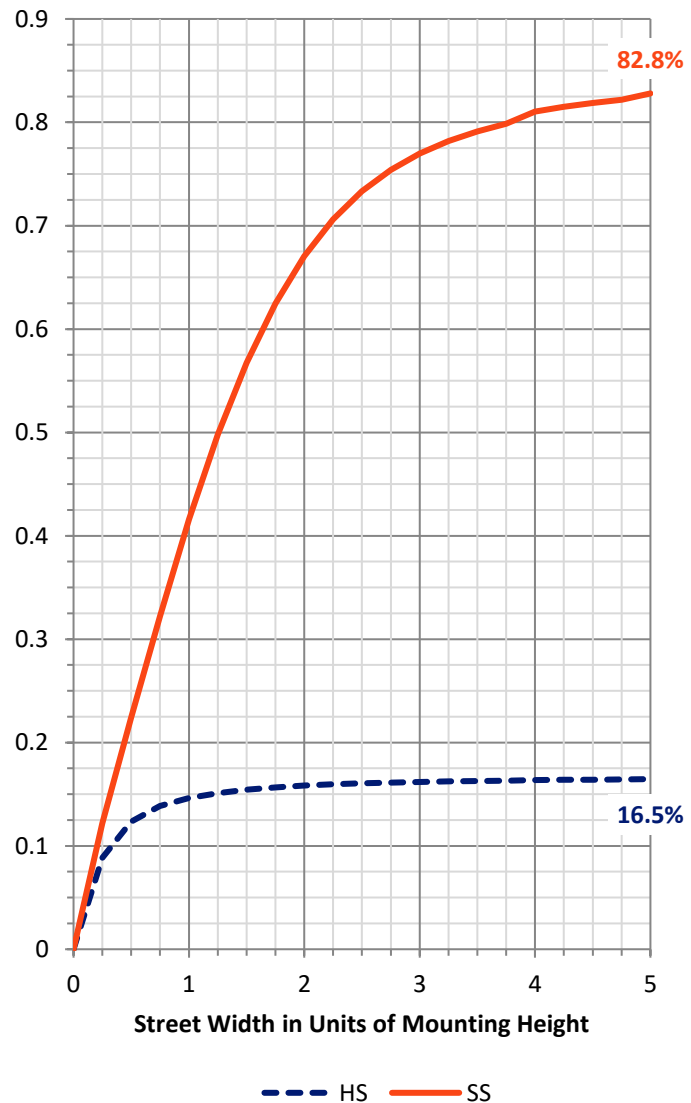
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	90.0	0.0	90.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	451.2	0.0	451.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	541.1	0.0	541.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	2.1
10°-20°	23.7	4.4
20°-30°	34.4	6.4
30°-40°	50.9	9.4
40°-50°	74.2	13.7
50°-60°	111.3	20.6
60°-70°	138.7	25.6
70°-80°	81.2	15.0
80°-90°	15.2	2.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	541.1	100.0
0°-180°	541.1	100.0



REPORT NUMBER: P228600

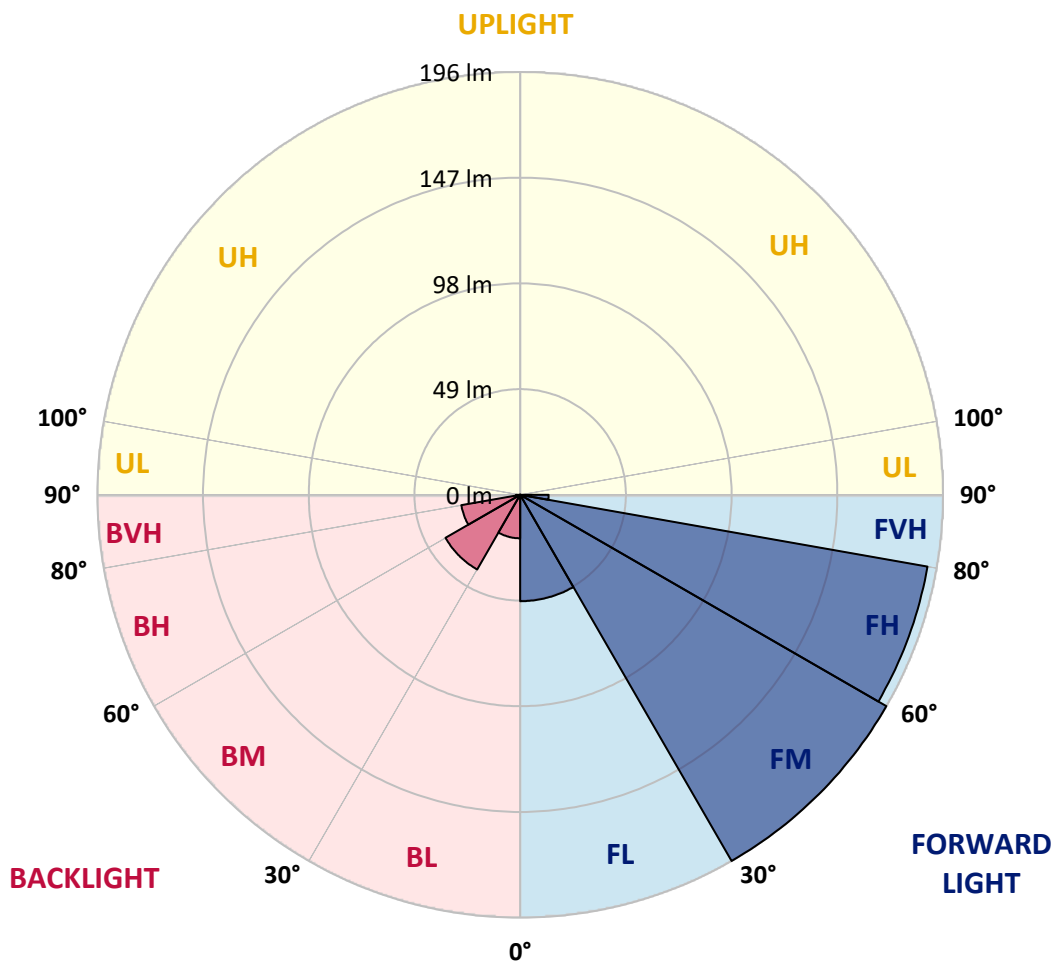
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	49.4	9.1			
FM	(30°-60°)	196.4	36.3			
FH	(60°-80°)	192.1	35.5			G0/660
FVH	(80°-90°)	13.2	2.4			G1/100
BL	(0°-30°)	20.2	3.7	B0/110		
BM	(30°-60°)	40.0	7.4	B0/220		
BH	(60°-80°)	27.8	5.1	B0/110		G0/110
BVH	(80°-90°)	2.0	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P228600

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-XXB

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
0°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8
2.5°	159.0	157.6	155.1	150.0	144.6	139.4	138.6	136.7	136.9	135.8	135.4
5°	153.9	152.1	146.8	136.1	126.8	117.4	116.7	112.9	113.3	111.0	109.7
7.5°	142.5	140.1	134.1	119.4	106.5	94.0	92.8	88.3	87.7	85.3	83.4
10°	131.3	129.0	121.4	104.5	89.8	80.5	79.1	76.9	75.2	74.2	72.2
12.5°	124.3	123.0	114.0	94.5	83.0	75.4	73.4	71.3	69.7	67.7	65.8
15°	122.8	120.2	111.0	91.2	77.7	68.5	66.2	63.8	61.9	59.9	57.2
17.5°	126.8	124.3	114.0	89.8	72.0	60.9	57.8	54.6	52.7	50.3	47.4
20°	136.5	132.4	119.8	87.7	65.8	51.9	48.2	44.4	42.2	38.2	36.0
22.5°	151.9	146.8	129.6	87.7	59.9	42.5	38.4	34.9	32.5	28.9	26.6
25°	174.0	169.5	145.7	90.0	54.8	34.5	30.4	27.0	24.7	22.1	20.6
27.5°	194.6	187.5	162.9	93.4	50.7	28.9	24.9	22.1	20.4	19.0	18.2
30°	209.9	204.2	177.8	95.7	44.8	24.2	21.7	19.9	19.0	18.4	18.0
32.5°	224.1	217.5	188.5	97.3	41.1	20.6	18.2	16.9	16.1	15.2	15.0
35°	239.1	232.6	201.2	97.1	38.8	18.8	16.5	15.0	14.1	13.9	13.5
37.5°	259.8	251.1	215.7	97.1	38.0	18.2	15.4	13.9	13.3	12.9	12.7
40°	280.0	270.2	231.8	97.7	37.0	17.8	15.4	13.9	12.9	12.4	12.0
42.5°	298.9	288.0	246.4	98.7	36.6	16.5	14.5	13.7	13.3	12.4	11.8
45°	313.2	304.6	257.8	100.9	36.6	15.7	13.7	13.1	12.9	12.9	12.7
47.5°	327.1	317.5	270.8	105.0	37.2	15.0	13.1	12.2	12.2	12.2	12.4
50°	345.1	333.8	288.8	113.3	37.2	14.8	12.4	11.6	11.4	11.8	11.8
52.5°	369.6	361.4	315.2	125.3	36.8	14.5	12.2	10.9	10.7	10.9	11.4
55°	404.1	394.9	347.1	140.1	36.4	14.1	11.8	10.7	10.3	10.0	10.3
57.5°	433.8	426.0	376.4	151.9	35.4	13.1	11.4	10.5	9.8	9.6	9.4
60°	446.9	440.3	395.3	159.8	33.5	12.0	10.7	10.0	9.4	9.2	9.0
62.5°	449.1	440.7	395.5	161.5	31.3	10.9	10.0	9.4	9.0	8.8	8.6
65°	440.7	431.3	379.8	151.1	29.6	10.9	9.6	9.0	8.4	8.2	7.9
67.5°	421.9	407.2	340.2	128.1	28.0	11.2	9.4	8.4	7.9	7.7	7.5
70°	376.4	360.2	287.3	101.8	27.4	11.4	9.4	7.9	7.3	7.1	7.1
72.5°	301.7	283.1	224.1	76.7	26.4	11.6	9.2	7.5	6.9	6.4	6.4
75°	204.2	187.9	151.9	51.9	21.9	10.0	8.4	6.9	6.0	5.5	5.3
77.5°	113.8	108.4	96.7	27.4	13.9	7.5	6.4	5.5	4.9	4.7	4.5
80°	66.8	64.0	57.0	15.2	8.6	4.3	3.9	3.7	3.2	3.2	3.2
82.5°	40.9	38.2	35.4	6.9	4.1	2.1	2.1	1.7	1.7	1.5	1.5
85°	11.2	10.3	14.3	1.5	0.4	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



REPORT NUMBER: P228600

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-XXB

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8
2.5°	133.7	133.3	133.3	130.0	130.0	128.4	127.9	127.9	128.6	128.1	125.5
5°	107.5	106.3	105.4	101.6	100.5	98.5	97.7	97.5	98.1	97.1	93.6
7.5°	81.0	79.9	78.7	75.6	74.4	74.2	71.6	70.9	70.5	69.7	67.5
10°	70.7	69.2	68.1	66.0	64.4	63.4	61.3	60.3	59.3	58.1	57.4
12.5°	63.6	62.1	60.7	57.8	56.0	54.6	53.3	51.2	50.3	48.9	48.0
15°	54.8	53.1	51.5	48.4	45.8	44.6	41.9	40.7	39.9	38.2	37.2
17.5°	44.1	41.7	39.9	37.0	35.8	33.7	32.1	30.0	28.2	27.6	27.0
20°	33.2	31.1	29.4	27.0	25.7	24.0	23.1	21.7	20.8	20.4	19.9
22.5°	24.4	22.7	21.7	20.4	19.7	19.0	18.6	18.2	17.8	17.6	17.6
25°	19.2	18.6	18.2	17.8	17.6	17.4	16.9	16.7	16.5	16.3	16.3
27.5°	17.6	17.2	16.9	16.7	16.5	16.1	16.1	15.7	15.4	15.4	15.2
30°	17.8	17.8	17.8	17.4	17.2	16.7	16.5	15.9	15.4	15.0	14.8
32.5°	14.5	14.5	14.3	13.9	13.7	13.5	13.5	13.1	12.9	12.9	13.3
35°	13.3	13.1	12.9	12.4	12.2	11.8	11.6	11.4	11.2	10.9	10.9
37.5°	12.7	12.4	12.2	11.8	11.6	11.4	11.2	10.7	10.5	10.5	10.3
40°	12.0	12.0	12.0	11.6	11.4	10.9	10.7	10.5	10.3	10.0	10.0
42.5°	11.6	11.6	11.6	11.4	11.2	10.9	10.5	10.3	10.0	9.8	9.6
45°	11.8	11.6	11.6	11.4	11.2	10.7	10.5	10.0	9.8	9.6	9.4
47.5°	12.7	12.4	12.0	11.6	11.2	10.7	10.3	9.8	9.6	9.4	9.2
50°	12.0	12.9	13.1	12.4	11.4	10.7	10.3	9.8	9.4	9.2	9.0
52.5°	11.8	12.0	12.9	12.9	11.8	10.9	10.3	9.8	9.4	9.0	8.8
55°	10.7	11.4	11.6	11.8	11.6	10.7	10.0	9.4	9.2	8.8	8.4
57.5°	9.4	9.8	10.0	10.5	10.7	10.5	9.6	9.0	8.8	8.4	7.9
60°	8.8	8.8	8.8	9.0	10.0	10.9	10.0	8.8	8.2	7.9	7.5
62.5°	8.2	8.2	7.9	8.2	8.4	9.4	9.2	8.4	7.9	7.7	7.3
65°	7.9	7.7	7.5	7.5	7.5	7.5	7.5	7.5	7.3	7.3	7.1
67.5°	7.3	7.1	7.1	6.9	6.9	6.9	6.9	6.9	6.6	6.6	6.4
70°	6.9	6.6	6.4	6.4	6.4	6.2	6.2	6.2	6.0	6.0	6.0
72.5°	6.2	6.0	6.0	6.0	5.8	5.8	5.8	5.5	5.5	5.3	5.3
75°	5.3	5.3	5.1	5.1	5.1	4.9	4.9	4.9	4.9	4.7	4.7
77.5°	4.5	4.3	4.5	4.3	4.3	4.3	4.3	4.3	4.1	4.1	3.9
80°	3.0	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.0
82.5°	1.7	1.5	1.7	1.7	1.7	1.9	1.9	2.1	1.9	1.9	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4
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



REPORT NUMBER: P228600

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-XXB

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8
2.5°	126.8	126.6	124.5	124.9	124.3	123.0	123.2	123.4	123.9	123.0	122.5
5°	95.3	95.5	92.8	93.6	93.0	92.8	93.4	94.5	95.1	94.9	94.3
7.5°	67.7	67.9	65.6	65.4	64.7	64.4	65.4	66.4	67.1	66.8	67.1
10°	56.0	55.2	53.1	51.7	50.1	48.9	48.6	48.6	48.6	48.2	47.8
12.5°	46.2	45.6	43.1	41.7	40.5	38.8	38.6	38.4	37.7	37.0	36.2
15°	36.0	35.4	33.2	32.3	31.3	30.6	30.4	30.4	30.0	29.6	29.2
17.5°	26.2	25.7	24.4	23.5	23.3	23.5	23.7	24.2	24.4	24.7	24.7
20°	19.7	19.5	19.0	19.0	19.2	19.9	20.2	20.8	21.0	21.4	21.9
22.5°	17.4	17.4	17.2	17.2	17.6	18.2	18.6	18.8	19.0	19.2	19.2
25°	16.1	16.1	15.9	16.3	16.9	16.9	16.9	16.9	16.5	16.3	16.3
27.5°	15.2	15.2	15.2	15.4	15.2	15.0	15.0	15.0	14.8	14.8	14.5
30°	14.5	14.5	14.5	14.3	14.3	14.1	14.1	13.9	13.9	13.7	13.7
32.5°	13.5	13.1	13.5	13.1	13.1	12.9	13.1	13.1	12.7	12.7	12.7
35°	10.7	10.5	10.5	10.5	10.3	10.5	10.9	10.9	10.9	10.9	10.9
37.5°	10.0	10.0	9.8	9.6	9.6	9.4	9.6	9.4	9.4	9.4	9.6
40°	9.8	9.6	9.4	9.4	9.2	9.0	9.0	9.0	9.0	9.0	9.0
42.5°	9.4	9.4	9.0	8.8	8.8	8.6	8.6	8.6	8.6	8.6	8.6
45°	9.2	9.0	8.8	8.6	8.4	8.4	8.4	8.4	8.4	8.4	8.2
47.5°	9.0	8.8	8.6	8.4	8.2	7.9	7.9	7.9	7.9	7.9	7.9
50°	8.8	8.6	8.2	8.2	7.9	7.7	7.7	7.7	7.7	7.7	7.7
52.5°	8.4	8.4	7.9	7.7	7.5	7.5	7.5	7.5	7.5	7.5	7.5
55°	7.9	7.9	7.5	7.3	7.1	7.1	7.1	7.1	7.3	7.3	7.3
57.5°	7.7	7.5	7.1	7.1	6.6	6.6	6.6	6.9	6.9	7.1	7.1
60°	7.3	7.1	6.9	6.6	6.6	6.4	6.4	6.4	6.4	6.6	6.6
62.5°	7.1	6.9	6.4	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
65°	6.6	6.6	6.2	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
67.5°	6.2	6.2	5.8	5.5	5.5	5.5	5.8	5.5	5.5	5.5	5.5
70°	5.8	5.5	5.3	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	5.1	5.1	4.9	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.9
75°	4.5	4.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	3.9	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.7
80°	2.8	2.6	2.6	2.6	2.6	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	1.7	1.5	1.5	1.5	1.7	1.9	1.9	1.9	1.9	2.1	2.1
85°	0.4	0.4	0.4	0.4	0.8	1.0	1.0	1.0	1.3	1.0	1.0
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



REPORT NUMBER: P228600

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-XXB

CANDELA DISTRIBUTION (continued):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8
2.5°	122.1	124.7	124.7	123.0	123.9	123.0	122.8	124.3	125.1	127.9	129.6
5°	94.5	97.7	97.9	97.1	98.1	97.5	98.1	100.0	101.6	103.5	105.2
7.5°	67.5	70.5	71.1	70.5	72.4	72.2	72.6	74.8	76.0	77.1	77.3
10°	47.6	48.0	49.7	49.3	50.5	50.3	50.9	52.7	54.4	55.0	55.4
12.5°	35.8	35.4	36.0	35.1	35.8	35.8	36.0	37.0	39.2	40.1	42.2
15°	28.9	28.5	28.5	28.0	28.0	27.8	28.0	28.9	30.4	31.7	33.5
17.5°	24.7	24.7	24.7	24.4	24.2	24.2	24.4	24.9	25.7	26.6	27.4
20°	22.1	22.5	22.7	22.9	23.1	23.3	23.5	24.2	24.0	23.1	22.1
22.5°	19.2	19.2	19.5	19.5	19.2	19.2	19.2	19.2	19.2	19.9	20.6
25°	16.1	16.1	16.1	16.3	16.1	16.1	16.3	16.3	16.5	16.9	17.6
27.5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.8	15.0	15.7	16.1
30°	13.5	13.5	13.3	13.3	13.3	13.1	13.3	13.3	13.5	14.3	15.0
32.5°	12.4	12.2	12.2	12.2	12.0	12.0	12.0	12.4	12.7	13.1	13.7
35°	10.9	10.9	10.9	11.2	11.2	11.2	11.2	11.6	11.6	11.8	11.8
37.5°	9.8	9.8	10.0	10.3	10.3	10.5	10.5	10.7	10.9	10.7	10.5
40°	9.0	9.2	9.2	9.6	9.6	9.6	9.8	10.0	10.3	9.8	9.8
42.5°	8.6	8.6	8.6	8.8	8.8	8.8	9.0	9.2	9.4	9.4	9.4
45°	8.2	8.2	8.2	8.4	8.2	8.2	8.2	8.4	8.8	8.8	9.0
47.5°	7.9	7.9	7.9	7.7	7.7	7.7	7.7	7.9	8.2	8.6	8.8
50°	7.7	7.5	7.5	7.5	7.5	7.5	7.5	7.7	7.9	8.2	8.6
52.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.5	7.7	7.9	8.2
55°	7.3	7.3	7.1	7.1	7.3	7.3	7.3	7.5	7.7	7.9	7.9
57.5°	7.1	6.9	6.9	7.1	7.1	7.1	7.1	7.3	7.5	7.7	7.7
60°	6.6	6.6	6.6	6.6	6.9	6.9	7.1	7.3	7.3	7.5	7.5
62.5°	6.2	6.4	6.4	6.4	6.6	6.6	6.9	7.1	7.3	7.5	7.3
65°	6.0	6.2	6.2	6.2	6.4	6.4	6.4	6.9	7.1	7.1	7.3
67.5°	5.8	5.8	5.8	6.0	6.0	6.2	6.2	6.6	6.6	6.9	7.1
70°	5.3	5.3	5.3	5.5	5.5	5.8	6.0	6.2	6.2	6.4	6.6
72.5°	4.9	4.9	4.9	5.1	5.1	5.3	5.5	6.0	5.8	6.0	6.0
75°	4.3	4.3	4.5	4.5	4.7	4.9	5.1	5.1	5.1	5.1	5.1
77.5°	3.7	3.7	3.9	3.9	4.1	4.3	4.3	4.3	4.5	4.3	4.3
80°	3.0	3.0	3.2	3.2	3.2	3.2	3.5	3.2	3.5	3.2	3.5
82.5°	2.1	2.1	2.4	2.1	2.4	2.1	2.1	1.9	2.4	2.1	2.1
85°	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.6	0.8	0.8	0.6
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



REPORT NUMBER: P228600

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-XXB

CANDELA DISTRIBUTION (continued):

	175°	180°	185°	195°	205°	215°	225°	230°	235°	240°	245°
0°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8
2.5°	130.2	130.0	133.3	135.6	137.1	142.9	145.5	148.6	150.2	152.3	154.5
5°	105.4	105.0	108.8	111.8	114.4	122.8	127.7	132.2	135.8	139.2	144.1
7.5°	75.4	74.6	77.1	79.7	83.2	92.2	100.7	106.7	112.0	117.8	124.3
10°	55.8	56.4	58.9	62.8	67.3	74.2	81.0	85.3	90.0	96.4	104.1
12.5°	44.6	47.2	49.3	54.0	59.3	67.1	74.4	77.7	81.2	84.4	88.5
15°	35.8	37.2	39.0	43.5	49.9	58.9	67.5	71.3	75.4	79.3	83.0
17.5°	27.6	28.2	29.2	32.3	38.2	48.9	58.3	63.2	67.9	73.2	78.2
20°	22.1	22.1	22.3	23.7	27.8	36.2	47.8	54.0	59.9	66.8	74.0
22.5°	19.2	19.0	19.2	19.9	21.9	26.8	37.2	44.6	52.3	60.9	69.7
25°	18.2	18.0	17.8	18.2	19.2	21.7	29.2	36.8	44.8	55.0	65.8
27.5°	16.5	16.7	16.9	17.4	18.2	19.5	24.2	30.0	38.8	50.1	63.0
30°	15.4	15.7	15.9	16.3	17.8	19.2	22.1	25.7	33.2	44.4	58.7
32.5°	14.1	14.3	14.5	14.8	15.2	16.9	18.8	21.9	28.2	39.2	54.2
35°	11.6	11.6	11.8	12.4	13.3	15.0	16.9	19.2	25.3	35.8	51.5
37.5°	10.7	10.7	10.9	11.6	12.4	13.9	15.7	17.8	24.0	34.5	48.9
40°	10.0	10.3	10.3	10.9	11.8	13.5	14.5	17.2	23.3	32.5	46.2
42.5°	9.6	9.6	9.8	10.5	11.6	12.9	14.3	16.7	21.7	30.9	44.8
45°	9.2	9.4	9.4	10.0	11.4	12.4	14.5	15.9	20.6	29.6	43.5
47.5°	9.0	9.0	9.2	9.8	11.2	12.7	14.1	15.0	19.5	28.5	42.5
50°	8.6	8.8	9.0	9.6	10.9	13.9	13.5	14.3	18.6	27.6	41.7
52.5°	8.4	8.6	8.8	9.4	10.9	14.1	13.1	13.5	18.0	26.8	41.3
55°	8.2	8.2	8.4	9.2	10.9	13.1	12.2	13.1	16.7	25.5	40.3
57.5°	7.7	7.9	8.2	8.8	10.7	12.0	11.6	12.4	15.4	23.3	38.8
60°	7.7	7.7	7.9	8.6	10.7	10.7	10.9	11.8	13.9	20.8	36.2
62.5°	7.5	7.5	7.7	8.6	10.9	9.6	10.3	11.2	12.9	18.6	33.0
65°	7.3	7.3	7.5	8.2	9.4	9.2	9.8	10.5	12.4	17.2	30.2
67.5°	6.9	6.9	7.1	7.7	8.4	8.6	9.4	10.0	12.2	16.9	27.6
70°	6.4	6.4	6.4	7.1	7.5	8.2	8.8	9.6	12.2	16.7	25.7
72.5°	6.0	5.8	6.0	6.4	6.9	7.3	7.9	9.0	12.0	16.9	24.9
75°	5.1	5.1	5.1	5.5	6.0	6.4	7.1	8.4	11.4	15.9	22.3
77.5°	4.3	4.3	4.1	4.7	5.1	5.3	6.0	7.3	9.8	13.5	18.0
80°	3.2	3.0	3.0	3.7	3.9	4.3	4.7	5.5	7.7	9.8	13.3
82.5°	1.9	1.7	1.7	2.4	2.6	2.8	3.7	4.1	5.1	6.4	9.0
85°	0.6	0.6	0.6	1.0	1.3	1.5	2.1	2.4	3.2	4.1	4.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	1.0	1.3	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P228600
 CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-XXB

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	250°	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	
0°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	0°
2.5°	157.0	159.2	161.9	164.5	166.4	168.2	170.3	170.3	172.9	173.8	175.4	2.5°
5°	148.0	152.1	158.1	163.1	169.0	174.8	180.1	183.2	188.3	191.7	195.2	5°
7.5°	129.8	135.4	142.9	149.8	158.6	168.0	176.8	184.8	193.4	200.7	206.1	7.5°
10°	110.8	118.5	126.4	135.2	144.6	154.7	165.4	176.4	186.6	196.9	205.7	10°
12.5°	95.1	103.9	112.9	123.9	134.7	145.5	158.1	167.6	178.3	188.5	197.1	12.5°
15°	88.5	96.2	106.7	118.7	130.2	141.2	152.9	162.6	172.7	181.1	187.0	15°
17.5°	85.7	95.5	107.5	120.2	132.6	145.9	156.4	164.5	172.1	175.8	176.8	17.5°
20°	82.7	96.2	112.2	127.7	142.9	156.8	164.5	169.9	171.1	170.9	167.8	20°
22.5°	81.0	98.3	118.3	139.9	159.0	175.2	180.7	179.5	174.2	167.4	161.9	22.5°
25°	80.5	103.2	128.6	157.2	180.7	196.9	199.9	193.8	181.9	168.6	159.6	25°
27.5°	81.0	108.8	141.4	175.8	203.4	220.0	218.9	209.9	192.8	174.2	159.8	27.5°
30°	79.1	114.6	154.3	192.2	219.4	233.3	229.0	215.5	196.5	177.8	162.6	30°
32.5°	75.8	118.9	165.6	205.2	236.1	246.6	238.9	224.3	204.6	185.6	169.9	32.5°
35°	72.2	120.8	173.8	217.5	254.1	259.6	247.2	232.4	214.4	195.2	178.3	35°
37.5°	68.3	121.0	181.5	230.3	271.5	273.8	255.8	240.0	222.4	205.0	189.7	37.5°
40°	66.2	120.2	189.3	246.1	290.1	286.8	264.8	246.1	228.8	215.5	202.9	40°
42.5°	65.4	118.7	195.2	258.2	306.2	299.1	273.1	252.4	236.7	225.6	216.8	42.5°
45°	65.4	117.2	200.5	267.2	318.1	308.9	281.1	258.4	244.5	237.6	233.3	45°
47.5°	65.6	117.8	206.9	281.7	328.5	318.3	287.3	267.2	255.1	252.6	254.1	47.5°
50°	66.6	125.1	217.9	297.8	341.3	328.5	295.6	277.0	269.8	272.3	280.9	50°
52.5°	68.3	136.7	236.7	316.9	361.2	344.5	309.5	291.1	287.8	297.0	313.2	52.5°
55°	70.1	148.4	261.4	348.8	393.3	373.7	334.2	315.8	311.7	325.9	349.2	55°
57.5°	71.6	157.2	285.4	380.5	421.1	406.2	366.8	344.5	342.8	358.0	383.5	57.5°
60°	73.0	164.1	299.3	394.7	433.8	432.3	400.4	379.8	377.3	391.4	415.6	60°
62.5°	72.2	161.5	303.2	387.6	432.8	445.2	427.8	413.3	404.5	416.2	439.9	62.5°
65°	68.9	148.0	290.9	363.1	417.2	437.5	438.9	435.6	419.7	420.5	437.3	65°
67.5°	60.3	124.5	253.5	324.6	386.5	410.7	436.0	435.0	414.8	397.0	400.4	67.5°
70°	49.9	97.7	206.7	276.4	343.0	363.8	404.1	412.2	383.5	350.3	334.6	70°
72.5°	41.9	73.0	159.0	214.0	274.9	299.1	358.9	370.2	331.0	284.3	260.1	72.5°
75°	34.9	51.7	111.8	147.4	189.7	221.6	313.2	314.3	268.6	223.7	197.5	75°
77.5°	25.9	35.1	81.0	103.0	130.2	157.6	253.3	256.0	213.2	169.7	147.2	77.5°
80°	17.4	21.7	51.7	72.0	87.7	105.7	185.8	174.0	140.8	117.6	111.8	80°
82.5°	10.5	12.7	29.8	50.3	55.2	65.8	116.7	109.0	92.8	84.8	87.0	82.5°
85°	5.8	7.9	18.2	33.0	25.7	36.0	63.8	62.3	58.5	51.2	44.6	85°
87.5°	1.5	1.7	4.1	1.5	0.6	1.9	12.4	8.2	8.2	4.7	1.7	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°

NUMBER: P228600
 NUMBER: ISS-AF-XXX-LED-E1-SLR-XXB

REPORT NUMBER: P
 CATALOG NUMBER:

<u>DISTRIBUTION (continued):</u>											<u>CANDELA DISTRIBUTION</u>	
305°	310°	315°	325°	335°	340°	342.5°	345°	347.5°	350°	352.5°		355°
149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	0°	149.8
174.0	174.6	174.4	172.9	169.0	167.6	166.9	165.2	163.3	163.3	161.5	2.5°	161.1
195.0	196.0	194.8	191.1	181.3	176.6	173.8	170.3	167.6	165.0	162.4	5°	158.8
209.7	210.6	208.5	200.1	182.5	174.6	170.3	166.2	162.9	158.4	154.3	7.5°	150.6
212.6	214.4	212.1	200.1	179.7	169.9	165.2	160.7	155.8	151.1	145.3	10°	140.8
204.6	208.7	206.9	198.1	178.5	168.0	162.4	157.0	151.1	146.1	139.4	12.5°	135.2
192.4	192.8	193.8	193.6	176.2	165.8	160.3	154.7	149.4	144.6	138.8	15°	133.5
178.9	178.5	179.7	183.8	175.4	167.4	163.7	158.4	154.5	149.1	144.6	17.5°	138.6
166.6	166.0	167.4	171.3	172.9	170.9	169.5	166.2	163.3	159.8	156.2	20°	150.4
159.0	156.8	156.6	162.6	174.2	179.3	180.3	179.9	179.7	177.2	174.6	22.5°	168.0
154.7	152.3	153.4	160.3	179.5	189.1	194.1	195.8	198.1	198.1	198.1	25°	191.7
153.4	150.8	152.3	160.0	185.2	201.2	208.3	212.6	217.1	218.9	220.2	27.5°	216.1
154.3	151.7	152.3	161.5	187.9	204.0	212.4	218.5	225.6	230.3	233.5	30°	230.3
159.2	154.7	154.3	166.0	193.0	210.2	218.9	226.1	233.9	239.3	245.1	32.5°	244.7
165.8	159.4	158.6	173.3	199.7	218.1	226.9	233.1	241.2	248.5	256.9	35°	259.8
177.0	169.0	167.8	185.6	208.7	224.7	233.5	241.6	250.4	259.8	270.6	37.5°	277.6
192.0	184.0	184.0	201.2	220.9	233.9	243.6	252.2	261.8	274.5	287.6	40°	298.9
208.9	203.8	204.6	220.0	234.8	245.5	254.7	263.9	274.0	286.6	301.9	42.5°	316.4
231.4	228.6	232.9	243.8	249.0	256.2	264.3	272.5	283.5	296.6	313.8	45°	329.3
257.8	260.1	266.1	269.5	263.3	267.2	273.5	281.1	293.9	307.2	324.4	47.5°	341.1
290.7	297.0	302.7	301.9	281.1	279.8	285.8	291.5	304.4	319.7	337.9	50°	355.9
328.7	336.8	340.8	336.1	301.1	293.5	298.4	306.4	320.5	337.9	358.2	52.5°	375.7
367.2	377.1	375.7	370.4	322.6	312.6	315.6	325.0	342.4	362.0	387.8	55°	405.1
402.1	409.8	413.3	401.7	349.0	335.7	339.1	349.0	367.4	389.5	415.8	57.5°	433.0
429.7	438.1	438.1	426.8	377.7	362.3	368.1	377.7	393.5	415.4	440.1	60°	454.8
449.9	456.5	454.2	443.2	402.3	390.6	395.1	408.4	422.7	438.9	458.5	62.5°	466.0
448.4	449.1	446.5	442.4	417.2	415.8	424.4	434.7	446.7	452.9	463.8	65°	466.6
406.2	406.4	411.5	409.8	406.0	421.9	433.0	441.5	452.0	452.0	450.8	67.5°	452.0
333.0	336.3	345.1	342.6	362.3	394.9	407.7	420.7	429.9	429.9	419.1	70°	412.9
253.5	255.6	266.1	263.7	290.5	326.3	354.6	376.4	385.4	391.0	377.1	72.5°	346.9
184.4	184.2	188.7	185.4	219.2	259.0	288.2	315.4	330.1	334.8	309.5	75°	254.3
142.1	138.2	137.3	137.8	155.3	188.3	211.4	228.8	230.8	231.4	197.3	77.5°	154.1
114.6	114.6	113.3	108.6	95.1	110.1	121.9	135.6	140.6	147.6	118.3	80°	86.7
91.5	87.9	81.4	72.2	61.1	65.2	70.7	75.8	84.2	87.2	72.0	82.5°	49.3
45.6	44.4	38.8	32.1	26.8	35.6	39.6	40.1	40.1	37.0	30.2	85°	20.2
0.2	0.0	0.0	0.0	0.0	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	0.0	90°	0.0

'228600

ISS-AF-XXX-LED-E1-SLR-XXB

TION (continued):

359°	360°
149.8	149.8
158.6	159.0
155.1	153.9
144.4	142.5
132.8	131.3
126.2	124.3
124.9	122.8
129.4	126.8
139.4	136.5
155.5	151.9
177.6	174.0
199.3	194.6
214.7	209.9
229.7	224.1
244.7	239.1
264.8	259.8
287.0	280.0
305.6	298.9
320.1	313.2
334.0	327.1
349.8	345.1
373.7	369.6
409.8	404.1
436.4	433.8
450.1	446.9
454.4	449.1
448.9	440.7
431.3	421.9
388.8	376.4
310.1	301.7
209.1	204.2
120.2	113.8
68.9	66.8
38.8	40.9
10.0	11.2
0.0	0.0
0.0	0.0

(END OF REPORT)