

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: P228601

Luminaire Tested: **ISS-AF-XXX-LED-E1-SLR-8030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228601
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-8030-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) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 432 lumens
Efficiency: N/A
Efficacy: 33.2 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

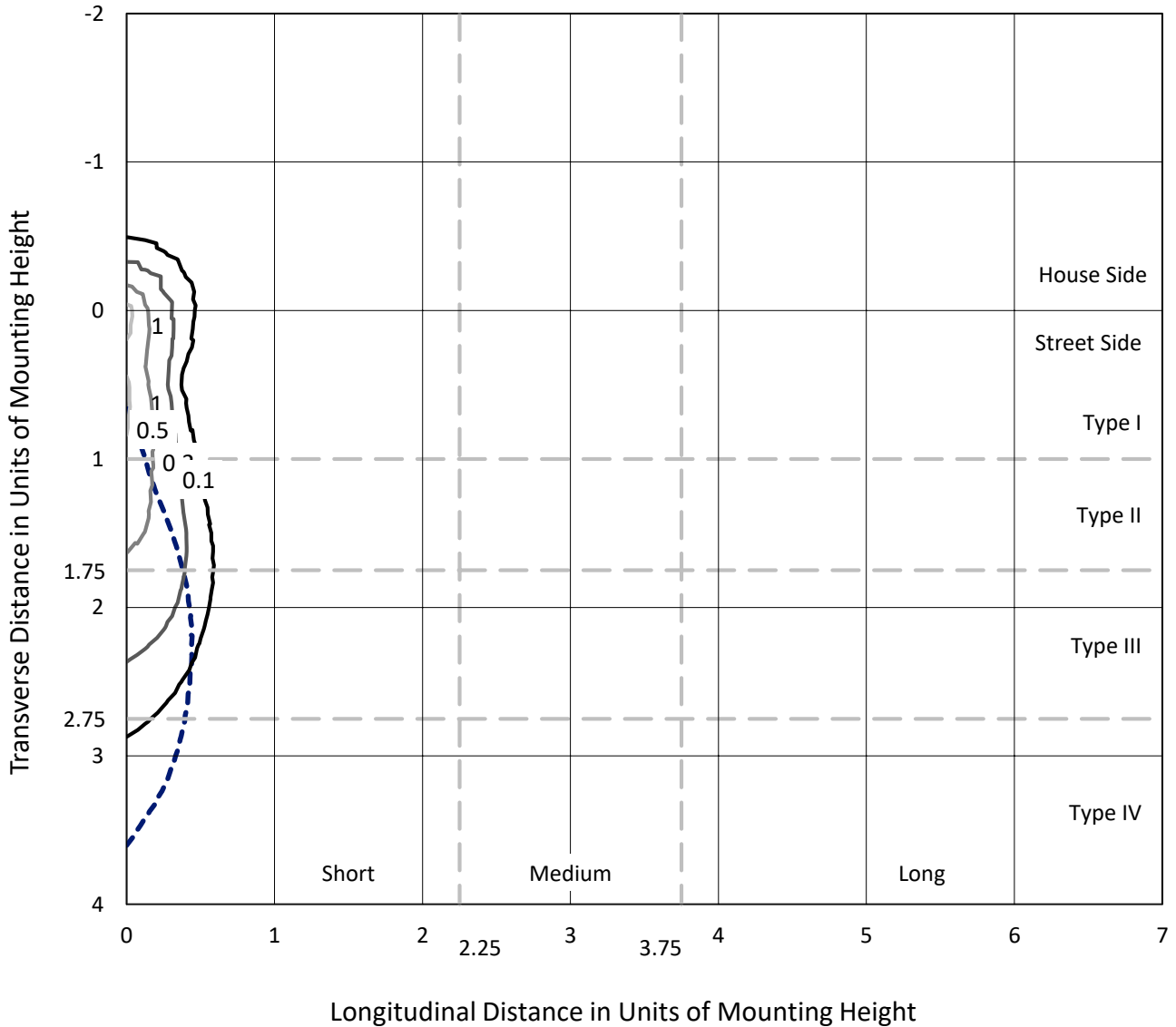


REPORT NUMBER: P228601

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-8030-XXB

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

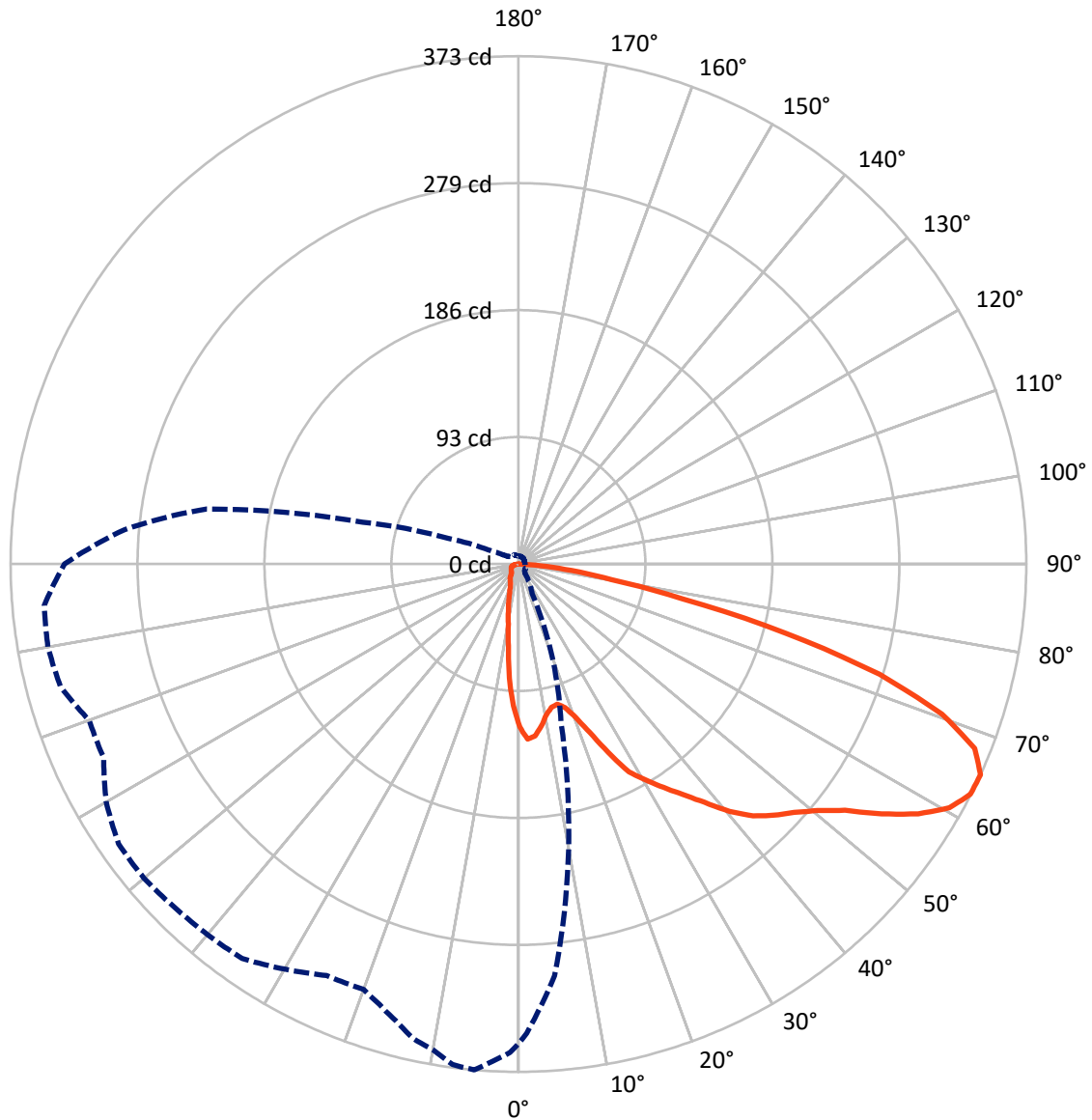


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228601

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-8030-XXB

Luminous Intensity Polar Plot



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

REPORT NUMBER: P228601

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-8030-XXB

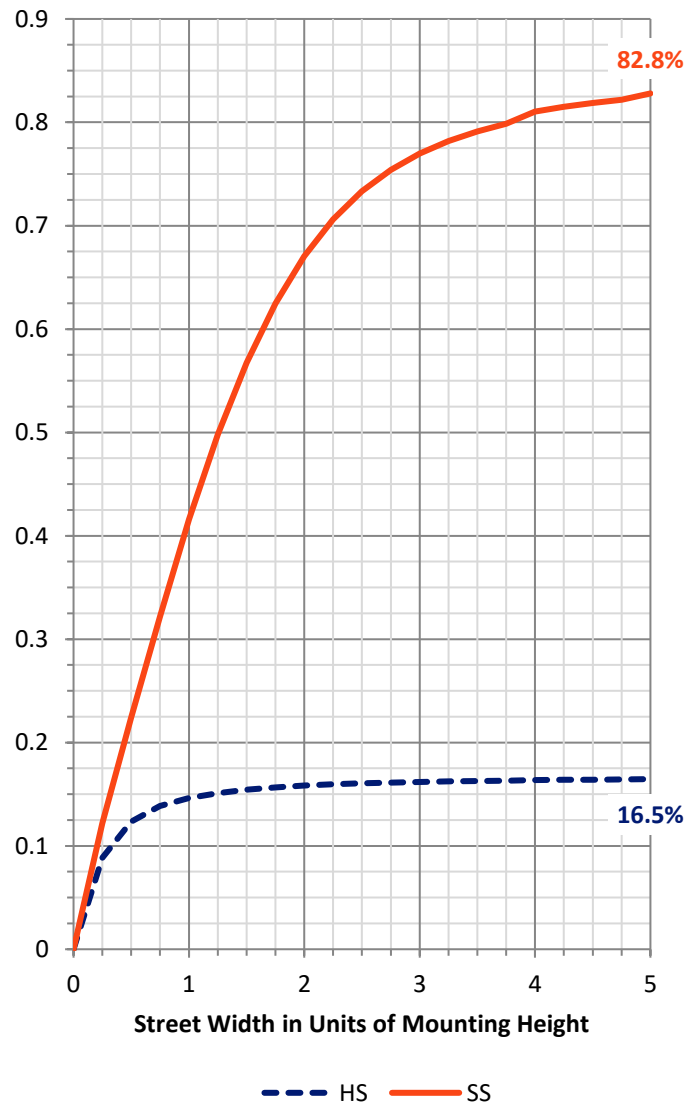
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	71.8	0.0	71.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	360.2	0.0	360.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	432.0	0.0	432.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	2.1
10°-20°	18.9	4.4
20°-30°	27.5	6.4
30°-40°	40.7	9.4
40°-50°	59.3	13.7
50°-60°	88.8	20.6
60°-70°	110.7	25.6
70°-80°	64.8	15.0
80°-90°	12.1	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°	432.0	100.0
0°-180°	432.0	100.0



REPORT NUMBER: P228601

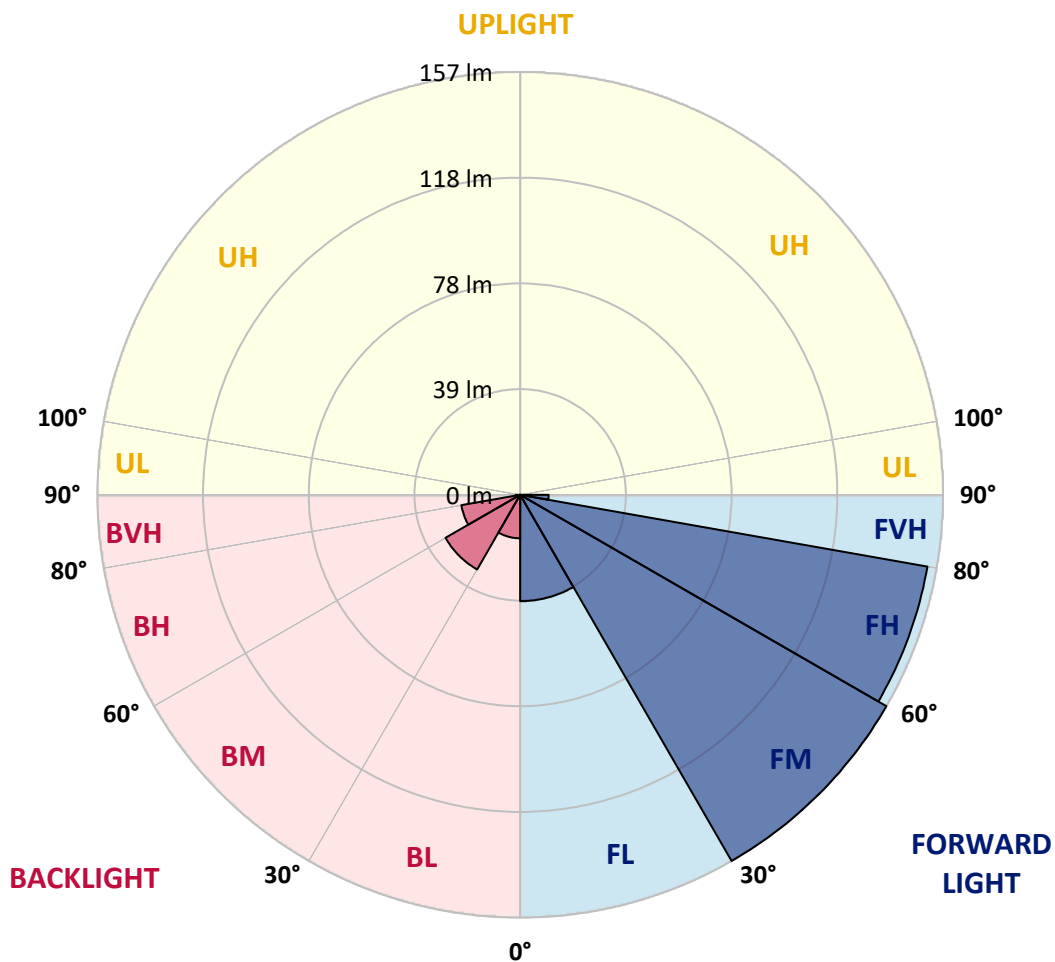
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-8030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	39.5	9.1			
FM	(30°-60°)	156.8	36.3			
FH	(60°-80°)	153.4	35.5			G0/660
FVH	(80°-90°)	10.6	2.4			G1/100
BL	(0°-30°)	16.1	3.7	B0/110		
BM	(30°-60°)	32.0	7.4	B0/220		
BH	(60°-80°)	22.2	5.1	B0/110		G0/110
BVH	(80°-90°)	1.6	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: P228601

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-8030-XXB

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
0°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	126.9	125.9	123.8	119.7	115.4	111.3	110.7	109.1	109.3	108.4	108.1
5°	122.8	121.4	117.2	108.6	101.3	93.7	93.2	90.1	90.5	88.6	87.6
7.5°	113.7	111.9	107.1	95.3	85.0	75.1	74.1	70.5	70.0	68.1	66.5
10°	104.8	103.0	97.0	83.5	71.7	64.3	63.1	61.4	60.0	59.2	57.6
12.5°	99.2	98.2	91.0	75.4	66.2	60.2	58.7	57.0	55.6	54.0	52.5
15°	98.0	95.9	88.6	72.9	62.1	54.7	52.8	51.0	49.4	47.9	45.7
17.5°	101.3	99.2	91.0	71.7	57.5	48.6	46.2	43.6	42.1	40.2	37.8
20°	108.9	105.7	95.6	70.0	52.5	41.4	38.5	35.4	33.7	30.4	28.7
22.5°	121.3	117.2	103.5	70.0	47.9	33.9	30.6	27.9	26.0	23.1	21.2
25°	138.9	135.3	116.3	71.8	43.8	27.5	24.3	21.6	19.7	17.6	16.4
27.5°	155.3	149.7	130.0	74.6	40.5	23.1	19.8	17.6	16.2	15.2	14.5
30°	167.6	163.0	142.0	76.5	35.7	19.3	17.3	15.9	15.2	14.7	14.4
32.5°	178.9	173.6	150.5	77.6	32.8	16.4	14.5	13.5	12.8	12.1	12.0
35°	190.9	185.7	160.6	77.5	31.0	15.1	13.2	12.0	11.3	11.1	10.8
37.5°	207.5	200.4	172.2	77.5	30.3	14.5	12.3	11.1	10.6	10.3	10.1
40°	223.5	215.7	185.1	78.0	29.6	14.2	12.3	11.1	10.3	9.9	9.6
42.5°	238.6	229.9	196.7	78.8	29.2	13.2	11.6	10.9	10.6	9.9	9.4
45°	250.0	243.2	205.8	80.6	29.2	12.5	10.9	10.4	10.3	10.3	10.1
47.5°	261.2	253.5	216.2	83.8	29.8	12.0	10.4	9.7	9.7	9.7	9.9
50°	275.5	266.5	230.6	90.5	29.8	11.8	9.9	9.2	9.1	9.4	9.4
52.5°	295.0	288.5	251.6	100.1	29.4	11.6	9.7	8.7	8.6	8.7	9.1
55°	322.6	315.2	277.1	111.9	29.1	11.3	9.4	8.6	8.2	8.0	8.2
57.5°	346.3	340.0	300.5	121.3	28.2	10.4	9.1	8.4	7.9	7.7	7.5
60°	356.8	351.5	315.6	127.6	26.7	9.6	8.6	8.0	7.5	7.4	7.2
62.5°	358.5	351.8	315.7	129.0	25.0	8.7	8.0	7.5	7.2	7.0	6.8
65°	351.8	344.3	303.2	120.6	23.6	8.7	7.7	7.2	6.7	6.5	6.3
67.5°	336.8	325.1	271.6	102.3	22.4	8.9	7.5	6.7	6.3	6.2	6.0
70°	300.5	287.5	229.4	81.2	21.9	9.1	7.5	6.3	5.8	5.6	5.6
72.5°	240.8	225.9	178.9	61.2	21.0	9.2	7.4	6.0	5.5	5.1	5.1
75°	163.0	150.0	121.3	41.4	17.4	8.0	6.7	5.5	4.8	4.4	4.3
77.5°	90.8	86.5	77.1	21.9	11.1	6.0	5.1	4.4	3.9	3.8	3.6
80°	53.4	51.1	45.5	12.1	6.8	3.4	3.1	2.9	2.6	2.6	2.6
82.5°	32.7	30.4	28.2	5.5	3.2	1.7	1.7	1.4	1.4	1.2	1.2
85°	8.9	8.2	11.5	1.2	0.3	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: P228601

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-8030-XXB

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	106.7	106.4	106.4	103.8	103.8	102.4	102.1	102.1	102.6	102.3	100.2
5°	85.9	84.8	84.1	81.1	80.2	78.7	78.0	77.8	78.3	77.5	74.7
7.5°	64.7	63.8	62.8	60.4	59.3	59.2	57.1	56.6	56.3	55.6	53.9
10°	56.4	55.2	54.4	52.7	51.5	50.6	48.9	48.1	47.4	46.3	45.8
12.5°	50.8	49.6	48.4	46.2	44.6	43.6	42.6	40.9	40.2	39.0	38.3
15°	43.8	42.4	41.0	38.7	36.6	35.6	33.5	32.5	31.8	30.4	29.8
17.5°	35.2	33.4	31.8	29.6	28.6	26.9	25.7	23.9	22.6	22.1	21.6
20°	26.5	24.8	23.4	21.6	20.5	19.2	18.5	17.3	16.6	16.2	15.9
22.5°	19.5	18.1	17.3	16.2	15.7	15.2	14.9	14.5	14.2	14.0	14.0
25°	15.4	14.9	14.5	14.2	14.0	13.9	13.5	13.3	13.2	13.0	13.0
27.5°	14.0	13.7	13.5	13.3	13.2	12.8	12.8	12.5	12.3	12.3	12.1
30°	14.2	14.2	14.2	13.9	13.7	13.3	13.2	12.7	12.3	12.0	11.8
32.5°	11.6	11.6	11.5	11.1	10.9	10.8	10.8	10.4	10.3	10.3	10.6
35°	10.6	10.4	10.3	9.9	9.7	9.4	9.2	9.1	8.9	8.7	8.7
37.5°	10.1	9.9	9.7	9.4	9.2	9.1	8.9	8.6	8.4	8.4	8.2
40°	9.6	9.6	9.6	9.2	9.1	8.7	8.6	8.4	8.2	8.0	8.0
42.5°	9.2	9.2	9.2	9.1	8.9	8.7	8.4	8.2	8.0	7.9	7.7
45°	9.4	9.2	9.2	9.1	8.9	8.6	8.4	8.0	7.9	7.7	7.5
47.5°	10.1	9.9	9.6	9.2	8.9	8.6	8.2	7.9	7.7	7.5	7.4
50°	9.6	10.3	10.4	9.9	9.1	8.6	8.2	7.9	7.5	7.4	7.2
52.5°	9.4	9.6	10.3	10.3	9.4	8.7	8.2	7.9	7.5	7.2	7.0
55°	8.6	9.1	9.2	9.4	9.2	8.6	8.0	7.5	7.4	7.0	6.7
57.5°	7.5	7.9	8.0	8.4	8.6	8.4	7.7	7.2	7.0	6.7	6.3
60°	7.0	7.0	7.0	7.2	8.0	8.7	8.0	7.0	6.5	6.3	6.0
62.5°	6.5	6.5	6.3	6.5	6.7	7.5	7.4	6.7	6.3	6.2	5.8
65°	6.3	6.2	6.0	6.0	6.0	6.0	6.0	6.0	5.8	5.8	5.6
67.5°	5.8	5.6	5.6	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.1
70°	5.5	5.3	5.1	5.1	5.1	5.0	5.0	5.0	4.8	4.8	4.8
72.5°	5.0	4.8	4.8	4.8	4.6	4.6	4.6	4.4	4.4	4.3	4.3
75°	4.3	4.3	4.1	4.1	4.1	3.9	3.9	3.9	3.9	3.8	3.8
77.5°	3.6	3.4	3.6	3.4	3.4	3.4	3.4	3.4	3.2	3.2	3.1
80°	2.4	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.4
82.5°	1.4	1.2	1.4	1.4	1.4	1.5	1.5	1.7	1.5	1.5	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.3	0.3	0.3
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: P228601

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-8030-XXB

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	101.3	101.1	99.4	99.7	99.2	98.2	98.3	98.5	98.9	98.2	97.8
5°	76.1	76.3	74.1	74.7	74.2	74.1	74.6	75.4	75.9	75.8	75.3
7.5°	54.0	54.2	52.3	52.2	51.7	51.5	52.2	53.0	53.5	53.4	53.5
10°	44.6	44.1	42.4	41.2	40.0	39.0	38.8	38.8	38.8	38.5	38.1
12.5°	36.9	36.4	34.4	33.4	32.3	31.0	30.8	30.6	30.1	29.6	28.9
15°	28.7	28.2	26.5	25.8	25.0	24.5	24.3	24.3	23.9	23.6	23.3
17.5°	20.9	20.5	19.5	18.8	18.6	18.8	19.0	19.3	19.5	19.7	19.7
20°	15.7	15.6	15.2	15.2	15.4	15.9	16.1	16.6	16.8	17.1	17.4
22.5°	13.9	13.9	13.7	13.7	14.0	14.5	14.9	15.1	15.2	15.4	15.4
25°	12.8	12.8	12.7	13.0	13.5	13.5	13.5	13.5	13.2	13.0	13.0
27.5°	12.1	12.1	12.1	12.3	12.1	12.0	12.0	12.0	11.8	11.8	11.6
30°	11.6	11.6	11.6	11.5	11.5	11.3	11.3	11.1	11.1	10.9	10.9
32.5°	10.8	10.4	10.8	10.4	10.4	10.3	10.4	10.4	10.1	10.1	10.1
35°	8.6	8.4	8.4	8.4	8.2	8.4	8.7	8.7	8.7	8.7	8.7
37.5°	8.0	8.0	7.9	7.7	7.7	7.5	7.7	7.5	7.5	7.5	7.7
40°	7.9	7.7	7.5	7.5	7.4	7.2	7.2	7.2	7.2	7.2	7.2
42.5°	7.5	7.5	7.2	7.0	7.0	6.8	6.8	6.8	6.8	6.8	6.8
45°	7.4	7.2	7.0	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.5
47.5°	7.2	7.0	6.8	6.7	6.5	6.3	6.3	6.3	6.3	6.3	6.3
50°	7.0	6.8	6.5	6.5	6.3	6.2	6.2	6.2	6.2	6.2	6.2
52.5°	6.7	6.7	6.3	6.2	6.0	6.0	6.0	6.0	6.0	6.0	6.0
55°	6.3	6.3	6.0	5.8	5.6	5.6	5.6	5.6	5.8	5.8	5.8
57.5°	6.2	6.0	5.6	5.6	5.3	5.3	5.3	5.5	5.5	5.6	5.6
60°	5.8	5.6	5.5	5.3	5.3	5.1	5.1	5.1	5.1	5.3	5.3
62.5°	5.6	5.5	5.1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
65°	5.3	5.3	5.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
67.5°	5.0	5.0	4.6	4.4	4.4	4.4	4.6	4.4	4.4	4.4	4.4
70°	4.6	4.4	4.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
72.5°	4.1	4.1	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.9
75°	3.6	3.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	3.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.9
80°	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	1.4	1.2	1.2	1.2	1.4	1.5	1.5	1.5	1.5	1.7	1.7
85°	0.3	0.3	0.3	0.3	0.7	0.9	0.9	0.9	1.0	0.9	0.9
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



REPORT NUMBER: P228601

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-8030-XXB

CANDELA DISTRIBUTION (continued):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	97.5	99.5	99.5	98.2	98.9	98.2	98.0	99.2	99.9	102.1	103.5
5°	75.4	78.0	78.2	77.5	78.3	77.8	78.3	79.9	81.1	82.6	84.0
7.5°	53.9	56.3	56.8	56.3	57.8	57.6	58.0	59.7	60.7	61.6	61.7
10°	38.0	38.3	39.7	39.3	40.4	40.2	40.7	42.1	43.4	44.0	44.3
12.5°	28.6	28.2	28.7	28.0	28.6	28.6	28.7	29.6	31.3	32.0	33.7
15°	23.1	22.7	22.7	22.4	22.4	22.2	22.4	23.1	24.3	25.3	26.7
17.5°	19.7	19.7	19.7	19.5	19.3	19.3	19.5	19.8	20.5	21.2	21.9
20°	17.6	18.0	18.1	18.3	18.5	18.6	18.8	19.3	19.2	18.5	17.6
22.5°	15.4	15.4	15.6	15.6	15.4	15.4	15.4	15.4	15.4	15.9	16.4
25°	12.8	12.8	12.8	13.0	12.8	12.8	13.0	13.0	13.2	13.5	14.0
27.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.8	12.0	12.5	12.8
30°	10.8	10.8	10.6	10.6	10.6	10.4	10.6	10.6	10.8	11.5	12.0
32.5°	9.9	9.7	9.7	9.7	9.6	9.6	9.6	9.9	10.1	10.4	10.9
35°	8.7	8.7	8.7	8.9	8.9	8.9	8.9	9.2	9.2	9.4	9.4
37.5°	7.9	7.9	8.0	8.2	8.2	8.4	8.4	8.6	8.7	8.6	8.4
40°	7.2	7.4	7.4	7.7	7.7	7.7	7.9	8.0	8.2	7.9	7.9
42.5°	6.8	6.8	6.8	7.0	7.0	7.0	7.2	7.4	7.5	7.5	7.5
45°	6.5	6.5	6.5	6.7	6.5	6.5	6.5	6.7	7.0	7.0	7.2
47.5°	6.3	6.3	6.3	6.2	6.2	6.2	6.2	6.3	6.5	6.8	7.0
50°	6.2	6.0	6.0	6.0	6.0	6.0	6.0	6.2	6.3	6.5	6.8
52.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.0	6.2	6.3	6.5
55°	5.8	5.8	5.6	5.6	5.8	5.8	5.8	6.0	6.2	6.3	6.3
57.5°	5.6	5.5	5.5	5.6	5.6	5.6	5.6	5.8	6.0	6.2	6.2
60°	5.3	5.3	5.3	5.3	5.5	5.5	5.6	5.8	5.8	6.0	6.0
62.5°	5.0	5.1	5.1	5.1	5.3	5.3	5.5	5.6	5.8	6.0	5.8
65°	4.8	5.0	5.0	5.0	5.1	5.1	5.1	5.5	5.6	5.6	5.8
67.5°	4.6	4.6	4.6	4.8	4.8	5.0	5.0	5.3	5.3	5.5	5.6
70°	4.3	4.3	4.3	4.4	4.4	4.6	4.8	5.0	5.0	5.1	5.3
72.5°	3.9	3.9	3.9	4.1	4.1	4.3	4.4	4.8	4.6	4.8	4.8
75°	3.4	3.4	3.6	3.6	3.8	3.9	4.1	4.1	4.1	4.1	4.1
77.5°	2.9	2.9	3.1	3.1	3.2	3.4	3.4	3.4	3.6	3.4	3.4
80°	2.4	2.4	2.6	2.6	2.6	2.6	2.7	2.6	2.7	2.6	2.7
82.5°	1.7	1.7	1.9	1.7	1.9	1.7	1.7	1.5	1.9	1.7	1.7
85°	0.7	0.9	0.9	0.9	0.9	0.7	0.7	0.5	0.7	0.7	0.5
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: P228601

CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-8030-XXB

CANDELA DISTRIBUTION (continued):

	175°	180°	185°	195°	205°	215°	225°	230°	235°	240°	245°
0°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	104.0	103.8	106.4	108.3	109.5	114.1	116.1	118.7	119.9	121.6	123.3
5°	84.1	83.8	86.9	89.3	91.3	98.0	101.9	105.5	108.4	111.2	115.1
7.5°	60.2	59.5	61.6	63.6	66.4	73.5	80.4	85.2	89.4	94.1	99.2
10°	44.5	45.0	47.0	50.1	53.7	59.2	64.7	68.1	71.8	77.0	83.1
12.5°	35.6	37.6	39.3	43.1	47.4	53.5	59.3	62.1	64.8	67.4	70.6
15°	28.6	29.8	31.1	34.7	39.9	47.0	53.9	57.0	60.2	63.3	66.2
17.5°	22.1	22.6	23.3	25.8	30.4	39.0	46.5	50.5	54.2	58.5	62.4
20°	17.6	17.6	17.8	19.0	22.2	28.9	38.1	43.1	47.9	53.4	59.0
22.5°	15.4	15.2	15.4	15.9	17.4	21.4	29.8	35.6	41.7	48.6	55.6
25°	14.5	14.4	14.2	14.5	15.4	17.3	23.3	29.4	35.7	44.0	52.5
27.5°	13.2	13.3	13.5	13.9	14.5	15.6	19.3	23.9	31.0	40.0	50.3
30°	12.3	12.5	12.7	13.0	14.2	15.4	17.6	20.5	26.5	35.4	46.9
32.5°	11.3	11.5	11.6	11.8	12.1	13.5	15.1	17.4	22.6	31.3	43.3
35°	9.2	9.2	9.4	9.9	10.6	12.0	13.5	15.4	20.2	28.6	41.0
37.5°	8.6	8.6	8.7	9.2	9.9	11.1	12.5	14.2	19.2	27.5	39.0
40°	8.0	8.2	8.2	8.7	9.4	10.8	11.6	13.7	18.6	26.0	36.9
42.5°	7.7	7.7	7.9	8.4	9.2	10.3	11.5	13.3	17.3	24.6	35.7
45°	7.4	7.5	7.5	8.0	9.1	9.9	11.6	12.7	16.4	23.6	34.7
47.5°	7.2	7.2	7.4	7.9	8.9	10.1	11.3	12.0	15.6	22.7	33.9
50°	6.8	7.0	7.2	7.7	8.7	11.1	10.8	11.5	14.9	22.1	33.4
52.5°	6.7	6.8	7.0	7.5	8.7	11.3	10.4	10.8	14.4	21.4	33.0
55°	6.5	6.5	6.7	7.4	8.7	10.4	9.7	10.4	13.3	20.4	32.2
57.5°	6.2	6.3	6.5	7.0	8.6	9.6	9.2	9.9	12.3	18.6	31.0
60°	6.2	6.2	6.3	6.8	8.6	8.6	8.7	9.4	11.1	16.6	28.9
62.5°	6.0	6.0	6.2	6.8	8.7	7.7	8.2	8.9	10.3	14.9	26.3
65°	5.8	5.8	6.0	6.5	7.5	7.4	7.9	8.4	9.9	13.7	24.1
67.5°	5.5	5.5	5.6	6.2	6.7	6.8	7.5	8.0	9.7	13.5	22.1
70°	5.1	5.1	5.1	5.6	6.0	6.5	7.0	7.7	9.7	13.3	20.5
72.5°	4.8	4.6	4.8	5.1	5.5	5.8	6.3	7.2	9.6	13.5	19.8
75°	4.1	4.1	4.1	4.4	4.8	5.1	5.6	6.7	9.1	12.7	17.8
77.5°	3.4	3.4	3.2	3.8	4.1	4.3	4.8	5.8	7.9	10.8	14.4
80°	2.6	2.4	2.4	2.9	3.1	3.4	3.8	4.4	6.2	7.9	10.6
82.5°	1.5	1.4	1.4	1.9	2.1	2.2	2.9	3.2	4.1	5.1	7.2
85°	0.5	0.5	0.5	0.9	1.0	1.2	1.7	1.9	2.6	3.2	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.9	1.0	0.9
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: P228601
 CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-8030-XXB

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	250°	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	
0°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	0°
2.5°	125.4	127.1	129.3	131.4	132.9	134.3	136.0	136.0	138.0	138.7	140.1	2.5°
5°	118.2	121.4	126.2	130.2	134.9	139.6	143.8	146.2	150.3	153.1	155.8	5°
7.5°	103.6	108.1	114.1	119.6	126.6	134.1	141.1	147.6	154.4	160.3	164.5	7.5°
10°	88.4	94.6	100.9	107.9	115.4	123.5	132.0	140.8	149.0	157.2	164.2	10°
12.5°	75.9	83.0	90.1	98.9	107.6	116.1	126.2	133.7	142.3	150.5	157.3	12.5°
15°	70.6	76.8	85.2	94.8	104.0	112.7	122.1	129.8	137.9	144.5	149.3	15°
17.5°	68.4	76.3	85.9	95.9	105.9	116.5	124.9	131.4	137.3	140.4	141.1	17.5°
20°	66.0	76.8	89.6	101.9	114.1	125.2	131.4	135.6	136.7	136.5	133.9	20°
22.5°	64.7	78.5	94.4	111.7	126.9	139.9	144.2	143.3	139.0	133.6	129.3	22.5°
25°	64.3	82.4	102.6	125.5	144.2	157.2	159.6	154.8	145.2	134.6	127.4	25°
27.5°	64.7	86.9	112.9	140.4	162.3	175.7	174.8	167.6	153.9	139.0	127.6	27.5°
30°	63.1	91.5	123.1	153.4	175.1	186.3	182.8	172.1	156.8	142.0	129.8	30°
32.5°	60.5	94.9	132.2	163.8	188.5	196.9	190.7	179.1	163.3	148.1	135.6	32.5°
35°	57.6	96.5	138.7	173.6	202.8	207.3	197.4	185.6	171.2	155.8	142.3	35°
37.5°	54.6	96.6	144.9	183.9	216.7	218.6	204.2	191.6	177.5	163.7	151.4	37.5°
40°	52.8	95.9	151.2	196.5	231.6	229.0	211.4	196.5	182.7	172.1	162.0	40°
42.5°	52.2	94.8	155.8	206.1	244.4	238.8	218.1	201.5	189.0	180.1	173.1	42.5°
45°	52.2	93.6	160.1	213.3	254.0	246.6	224.4	206.3	195.1	189.7	186.3	45°
47.5°	52.3	94.1	165.2	224.9	262.2	254.2	229.4	213.3	203.7	201.6	202.8	47.5°
50°	53.2	99.9	173.9	237.7	272.5	262.2	236.0	221.1	215.3	217.4	224.2	50°
52.5°	54.6	109.1	189.0	253.0	288.4	275.0	247.1	232.4	229.7	237.1	250.0	52.5°
55°	55.9	118.5	208.7	278.4	314.0	298.3	266.8	252.1	248.9	260.1	278.8	55°
57.5°	57.1	125.5	227.8	303.8	336.2	324.3	292.8	275.0	273.7	285.8	306.1	57.5°
60°	58.3	131.0	238.9	315.0	346.3	345.1	319.7	303.2	301.2	312.5	331.8	60°
62.5°	57.6	129.0	242.0	309.4	345.5	355.4	341.6	329.9	322.9	332.3	351.1	62.5°
65°	55.1	118.2	232.3	289.9	333.0	349.2	350.4	347.7	335.1	335.7	349.1	65°
67.5°	48.1	99.4	202.3	259.1	308.5	327.9	348.1	347.2	331.1	316.9	319.7	67.5°
70°	39.9	78.0	165.0	220.6	273.8	290.4	322.6	329.1	306.1	279.6	267.2	70°
72.5°	33.5	58.3	126.9	170.9	219.4	238.8	286.5	295.5	264.2	227.0	207.6	72.5°
75°	27.9	41.2	89.3	117.7	151.4	176.8	250.0	250.9	214.5	178.6	157.7	75°
77.5°	20.7	28.0	64.7	82.3	104.0	125.9	202.2	204.4	170.2	135.5	117.5	77.5°
80°	13.9	17.3	41.2	57.5	70.0	84.3	148.3	138.9	112.4	93.9	89.3	80°
82.5°	8.4	10.1	23.8	40.2	44.1	52.5	93.2	87.1	74.1	67.7	69.4	82.5°
85°	4.6	6.3	14.5	26.3	20.5	28.7	51.0	49.8	46.7	40.9	35.6	85°
87.5°	1.2	1.4	3.2	1.2	0.5	1.5	9.9	6.5	6.5	3.8	1.4	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: P228601
 NUMBER: ISS-AF-XXX-LED-E1-SLR-8030-XXB

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):											CANDELA DISTRIBUTION	
305°	310°	315°	325°	335°	340°	342.5°	345°	347.5°	350°	352.5°		355°
119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	0°	119.6
138.9	139.4	139.2	138.0	134.9	133.7	133.2	131.9	130.3	130.3	129.0	2.5°	128.6
155.6	156.5	155.5	152.6	144.7	140.9	138.7	136.0	133.7	131.7	129.6	5°	126.7
167.4	168.1	166.4	159.7	145.7	139.4	136.0	132.7	130.0	126.4	123.1	7.5°	120.2
169.7	171.2	169.3	159.7	143.5	135.6	131.9	128.3	124.3	120.6	116.0	10°	112.4
163.3	166.6	165.2	158.2	142.5	134.1	129.6	125.4	120.6	116.6	111.3	12.5°	107.9
153.6	153.9	154.8	154.6	140.6	132.4	127.9	123.5	119.2	115.4	110.8	15°	106.6
142.8	142.5	143.5	146.7	140.1	133.6	130.7	126.4	123.3	119.0	115.4	17.5°	110.7
133.1	132.5	133.6	136.8	138.0	136.5	135.3	132.7	130.3	127.6	124.7	20°	120.1
126.9	125.2	125.0	129.8	139.0	143.2	144.0	143.7	143.5	141.4	139.4	22.5°	134.1
123.5	121.6	122.5	127.9	143.3	151.0	155.0	156.3	158.2	158.2	158.2	25°	153.1
122.5	120.4	121.6	127.8	147.8	160.6	166.2	169.7	173.3	174.8	175.8	27.5°	172.6
123.1	121.1	121.6	129.0	150.0	162.8	169.5	174.5	180.1	183.9	186.4	30°	183.9
127.1	123.5	123.1	132.5	154.1	167.8	174.8	180.4	186.8	191.0	195.7	32.5°	195.3
132.4	127.2	126.6	138.4	159.4	174.1	181.1	186.1	192.6	198.4	205.1	35°	207.5
141.3	134.9	133.9	148.1	166.6	179.4	186.4	192.9	199.9	207.5	216.0	37.5°	221.7
153.2	146.9	146.9	160.6	176.3	186.8	194.5	201.3	209.0	219.1	229.5	40°	238.6
166.8	162.7	163.3	175.7	187.5	196.0	203.4	210.7	218.8	228.8	241.0	42.5°	252.6
184.7	182.5	185.9	194.6	198.7	204.6	211.1	217.6	226.3	236.7	250.6	45°	262.9
205.8	207.6	212.4	215.2	210.2	213.3	218.4	224.4	234.7	245.3	258.9	47.5°	272.3
232.1	237.1	241.7	241.0	224.4	223.4	228.2	232.8	243.0	255.2	269.7	50°	284.1
262.4	268.9	272.1	268.3	240.3	234.3	238.2	244.6	255.9	269.7	286.0	52.5°	300.0
293.1	301.0	300.0	295.7	257.6	249.5	251.9	259.5	273.3	289.0	309.6	55°	323.4
321.0	327.2	329.9	320.7	278.6	268.0	270.7	278.6	293.3	310.9	332.0	57.5°	345.7
343.1	349.8	349.8	340.7	301.5	289.2	293.8	301.5	314.2	331.6	351.3	60°	363.1
359.2	364.5	362.6	353.9	321.2	311.8	315.4	326.0	337.4	350.4	366.0	62.5°	372.0
358.0	358.5	356.4	353.2	333.0	332.0	338.8	347.0	356.6	361.6	370.3	65°	372.5
324.3	324.4	328.6	327.2	324.1	336.8	345.7	352.5	360.9	360.9	359.9	67.5°	360.9
265.8	268.5	275.5	273.5	289.2	315.2	325.5	335.9	343.3	343.3	334.5	70°	329.6
202.3	204.0	212.4	210.5	231.9	260.5	283.1	300.5	307.7	312.1	301.0	72.5°	276.9
147.3	147.1	150.7	147.9	175.0	206.8	230.0	251.8	263.6	267.3	247.1	75°	203.0
113.4	110.3	109.6	110.0	124.0	150.3	168.8	182.7	184.2	184.7	157.5	77.5°	123.0
91.5	91.5	90.5	86.7	75.9	87.9	97.3	108.3	112.2	117.8	94.4	80°	69.3
73.0	70.1	65.0	57.6	48.7	52.0	56.4	60.5	67.2	69.6	57.5	82.5°	39.3
36.4	35.4	31.0	25.7	21.4	28.4	31.6	32.0	32.0	29.6	24.1	85°	16.1
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

'228601

ISS-AF-XXX-LED-E1-SLR-8030-XXB

TION (continued):

359°	360°
119.6	119.6
126.6	126.9
123.8	122.8
115.3	113.7
106.0	104.8
100.7	99.2
99.7	98.0
103.3	101.3
111.3	108.9
124.2	121.3
141.8	138.9
159.1	155.3
171.4	167.6
183.3	178.9
195.3	190.9
211.4	207.5
229.2	223.5
243.9	238.6
255.5	250.0
266.6	261.2
279.3	275.5
298.3	295.0
327.2	322.6
348.4	346.3
359.3	356.8
362.8	358.5
358.3	351.8
344.3	336.8
310.4	300.5
247.5	240.8
166.9	163.0
95.9	90.8
55.1	53.4
31.0	32.7
8.0	8.9
0.0	0.0
0.0	0.0

(END OF REPORT)