

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: P228470

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228470  
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-SLL-XXB  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCUELED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT  
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

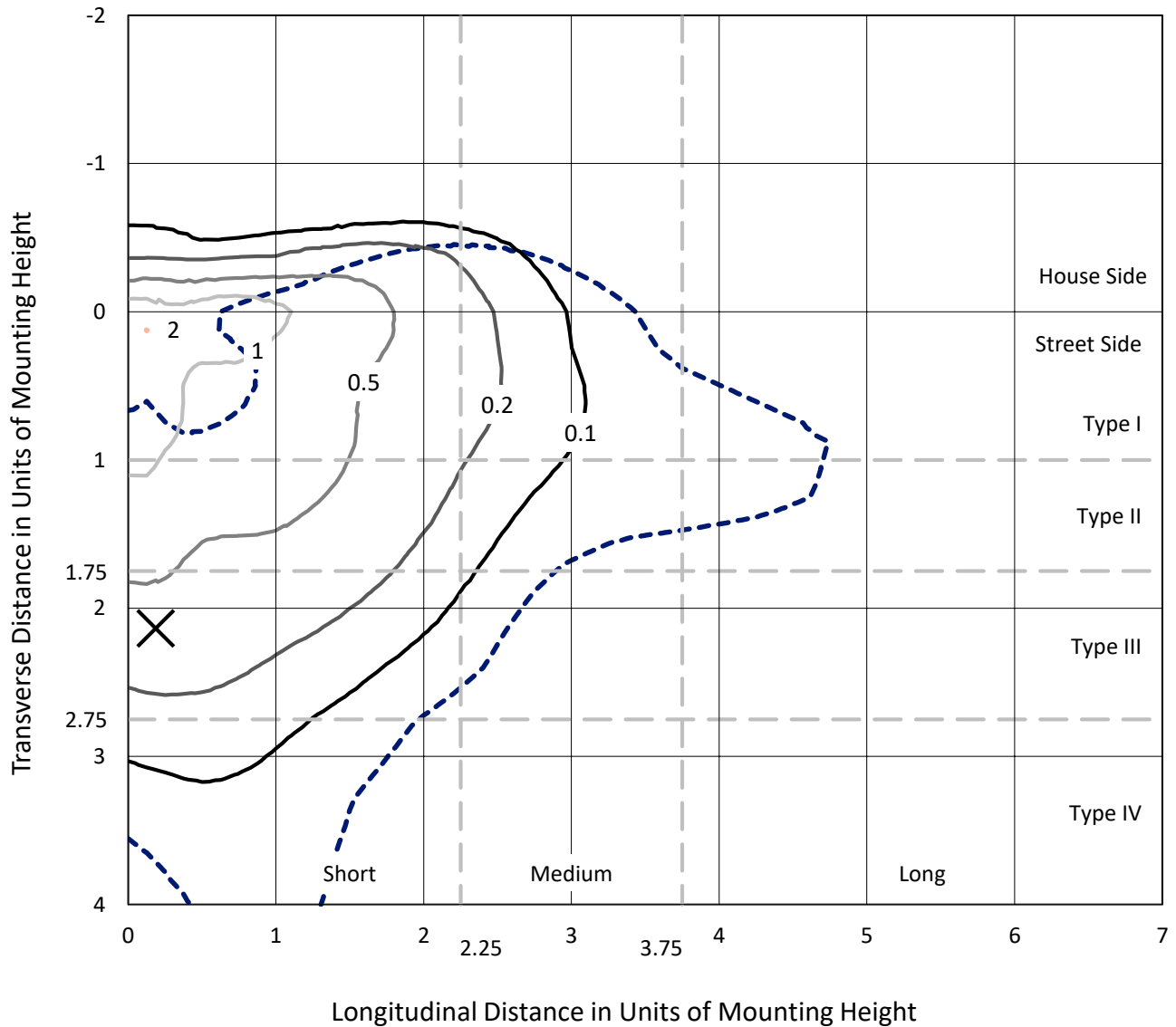
Input Watts (W): 13  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P228470  
 CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLL-XXB

### Iso-Footcandle Lines of Horizontal Illumination

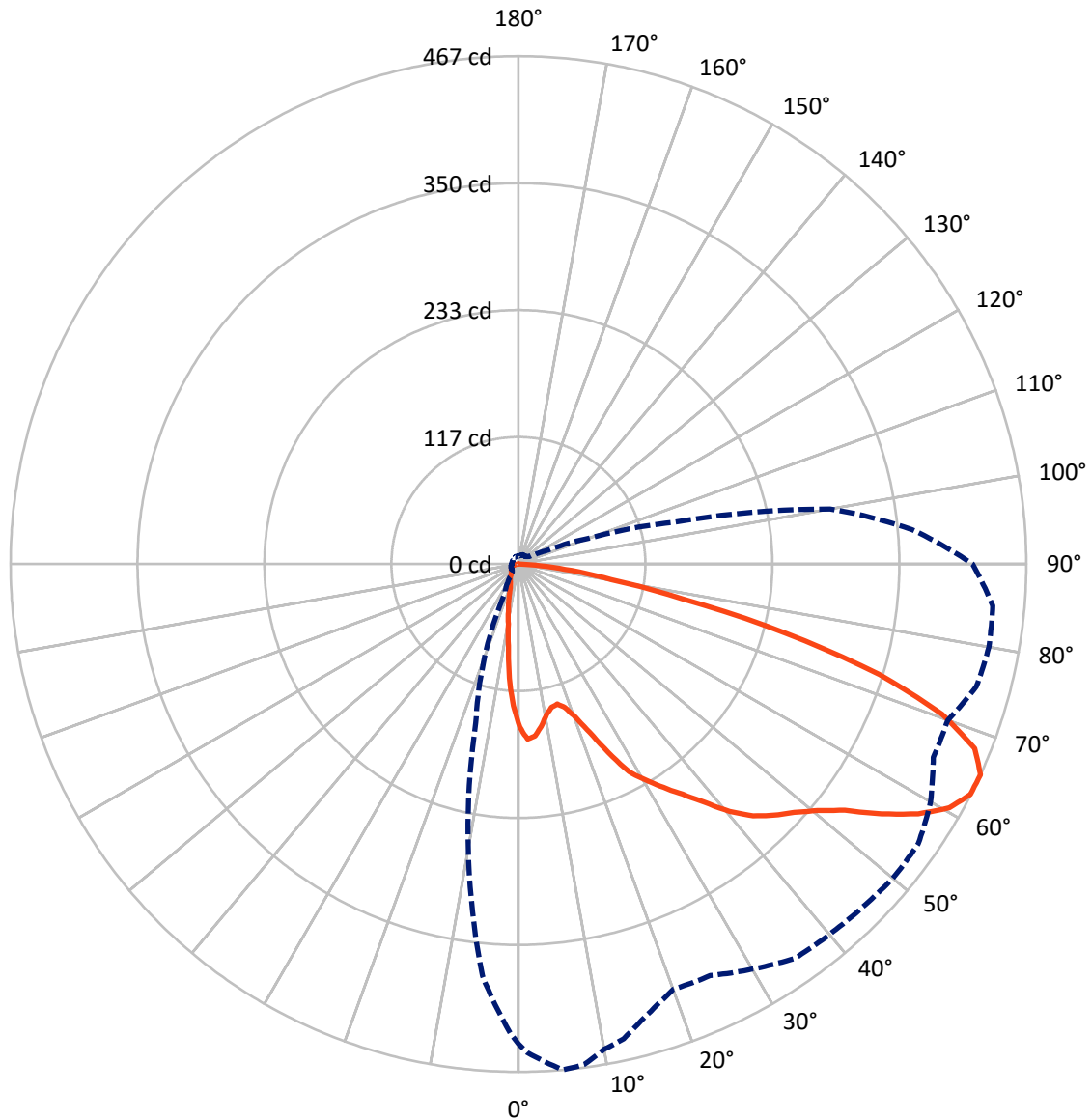
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228470  
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLL-XXB

### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P228470

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

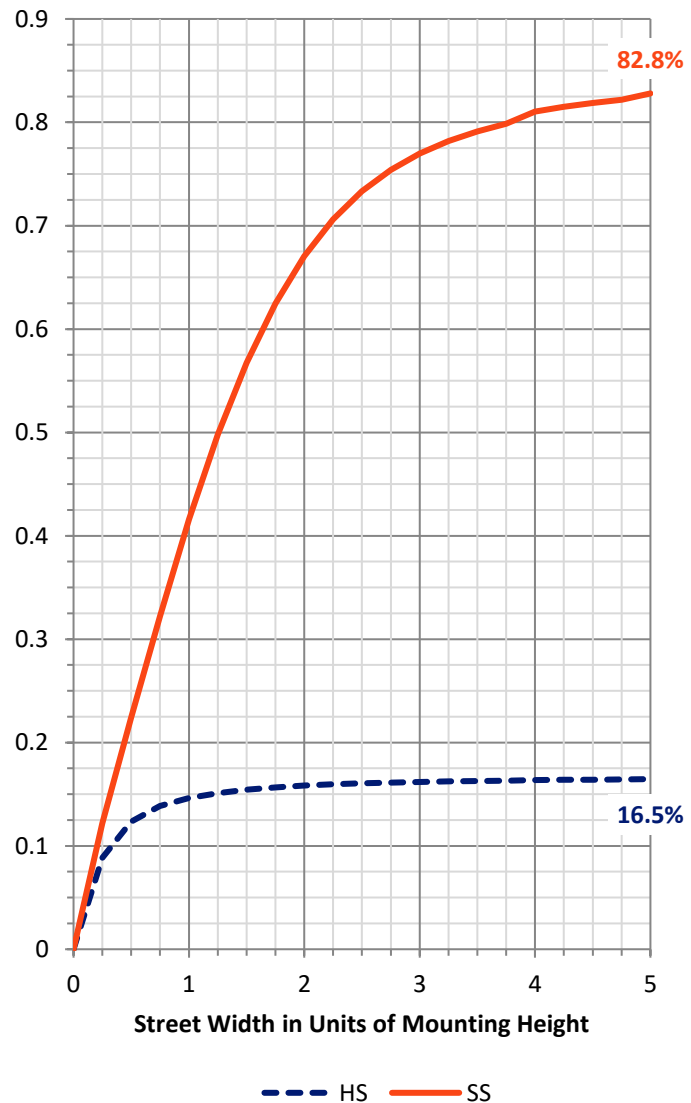
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	90.0	0.0	90.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	451.2	0.0	451.2
	% Fixture	83.4	0.0	83.4
<b>Total</b>	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: P228470

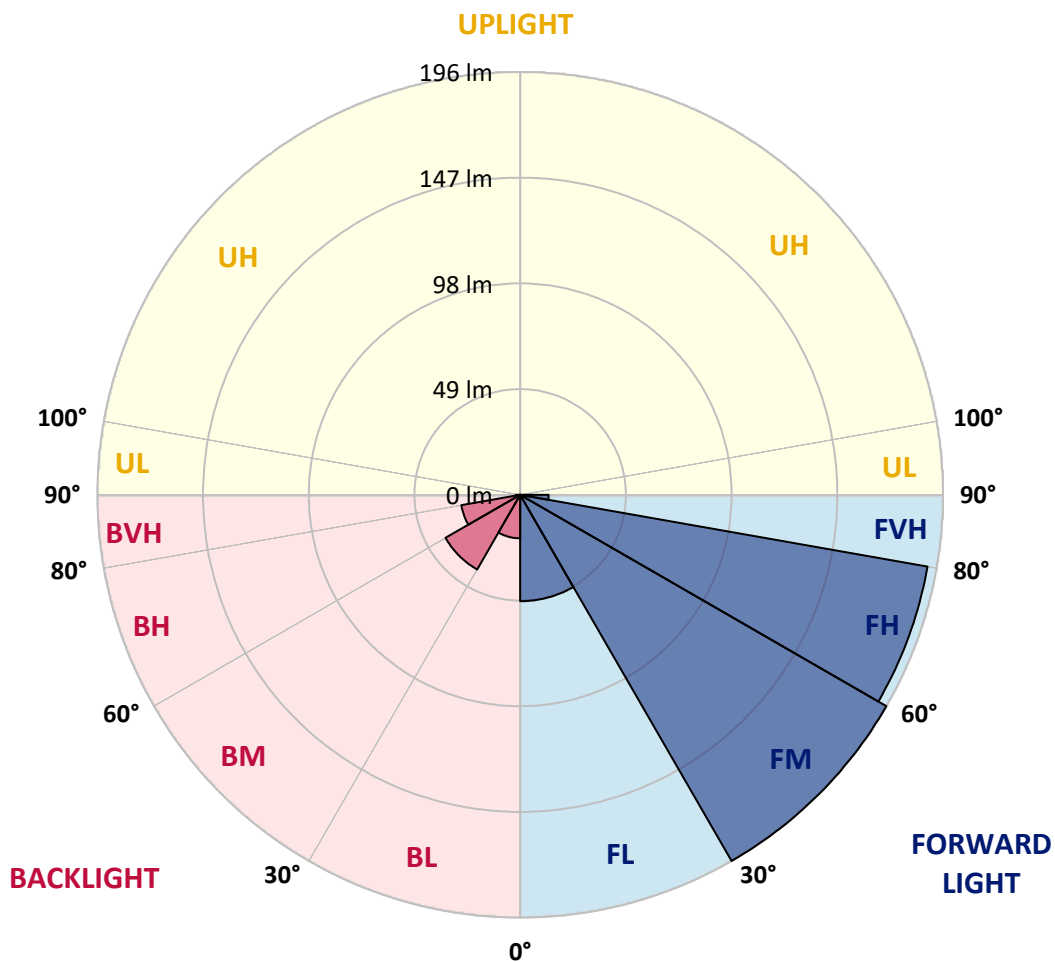
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLL-XXB

**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: P228470

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

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
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	158.6	161.1	161.5	163.3	163.3	165.2	166.9	167.6	169.0	172.9
5°	153.9	155.1	158.8	162.4	165.0	167.6	170.3	173.8	176.6	181.3	191.1
7.5°	142.5	144.4	150.6	154.3	158.4	162.9	166.2	170.3	174.6	182.5	200.1
10°	131.3	132.8	140.8	145.3	151.1	155.8	160.7	165.2	169.9	179.7	200.1
12.5°	124.3	126.2	135.2	139.4	146.1	151.1	157.0	162.4	168.0	178.5	198.1
15°	122.8	124.9	133.5	138.8	144.6	149.4	154.7	160.3	165.8	176.2	193.6
17.5°	126.8	129.4	138.6	144.6	149.1	154.5	158.4	163.7	167.4	175.4	183.8
20°	136.5	139.4	150.4	156.2	159.8	163.3	166.2	169.5	170.9	172.9	171.3
22.5°	151.9	155.5	168.0	174.6	177.2	179.7	179.9	180.3	179.3	174.2	162.6
25°	174.0	177.6	191.7	198.1	198.1	198.1	195.8	194.1	189.1	179.5	160.3
27.5°	194.6	199.3	216.1	220.2	218.9	217.1	212.6	208.3	201.2	185.2	160.0
30°	209.9	214.7	230.3	233.5	230.3	225.6	218.5	212.4	204.0	187.9	161.5
32.5°	224.1	229.7	244.7	245.1	239.3	233.9	226.1	218.9	210.2	193.0	166.0
35°	239.1	244.7	259.8	256.9	248.5	241.2	233.1	226.9	218.1	199.7	173.3
37.5°	259.8	264.8	277.6	270.6	259.8	250.4	241.6	233.5	224.7	208.7	185.6
40°	280.0	287.0	298.9	287.6	274.5	261.8	252.2	243.6	233.9	220.9	201.2
42.5°	298.9	305.6	316.4	301.9	286.6	274.0	263.9	254.7	245.5	234.8	220.0
45°	313.2	320.1	329.3	313.8	296.6	283.5	272.5	264.3	256.2	249.0	243.8
47.5°	327.1	334.0	341.1	324.4	307.2	293.9	281.1	273.5	267.2	263.3	269.5
50°	345.1	349.8	355.9	337.9	319.7	304.4	291.5	285.8	279.8	281.1	301.9
52.5°	369.6	373.7	375.7	358.2	337.9	320.5	306.4	298.4	293.5	301.1	336.1
55°	404.1	409.8	405.1	387.8	362.0	342.4	325.0	315.6	312.6	322.6	370.4
57.5°	433.8	436.4	433.0	415.8	389.5	367.4	349.0	339.1	335.7	349.0	401.7
60°	446.9	450.1	454.8	440.1	415.4	393.5	377.7	368.1	362.3	377.7	426.8
62.5°	449.1	454.4	466.0	458.5	438.9	422.7	408.4	395.1	390.6	402.3	443.2
65°	440.7	448.9	466.6	463.8	452.9	446.7	434.7	424.4	415.8	417.2	442.4
67.5°	421.9	431.3	452.0	450.8	452.0	452.0	441.5	433.0	421.9	406.0	409.8
70°	376.4	388.8	412.9	419.1	429.9	429.9	420.7	407.7	394.9	362.3	342.6
72.5°	301.7	310.1	346.9	377.1	391.0	385.4	376.4	354.6	326.3	290.5	263.7
75°	204.2	209.1	254.3	309.5	334.8	330.1	315.4	288.2	259.0	219.2	185.4
77.5°	113.8	120.2	154.1	197.3	231.4	230.8	228.8	211.4	188.3	155.3	137.8
80°	66.8	68.9	86.7	118.3	147.6	140.6	135.6	121.9	110.1	95.1	108.6
82.5°	40.9	38.8	49.3	72.0	87.2	84.2	75.8	70.7	65.2	61.1	72.2
85°	11.2	10.0	20.2	30.2	37.0	40.1	40.1	39.6	35.6	26.8	32.1
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: P228470

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

**CANDELA DISTRIBUTION (continued):**

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
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°	174.4	174.6	174.0	175.4	173.8	172.9	170.3	170.3	168.2	166.4	164.5
5°	194.8	196.0	195.0	195.2	191.7	188.3	183.2	180.1	174.8	169.0	163.1
7.5°	208.5	210.6	209.7	206.1	200.7	193.4	184.8	176.8	168.0	158.6	149.8
10°	212.1	214.4	212.6	205.7	196.9	186.6	176.4	165.4	154.7	144.6	135.2
12.5°	206.9	208.7	204.6	197.1	188.5	178.3	167.6	158.1	145.5	134.7	123.9
15°	193.8	192.8	192.4	187.0	181.1	172.7	162.6	152.9	141.2	130.2	118.7
17.5°	179.7	178.5	178.9	176.8	175.8	172.1	164.5	156.4	145.9	132.6	120.2
20°	167.4	166.0	166.6	167.8	170.9	171.1	169.9	164.5	156.8	142.9	127.7
22.5°	156.6	156.8	159.0	161.9	167.4	174.2	179.5	180.7	175.2	159.0	139.9
25°	153.4	152.3	154.7	159.6	168.6	181.9	193.8	199.9	196.9	180.7	157.2
27.5°	152.3	150.8	153.4	159.8	174.2	192.8	209.9	218.9	220.0	203.4	175.8
30°	152.3	151.7	154.3	162.6	177.8	196.5	215.5	229.0	233.3	219.4	192.2
32.5°	154.3	154.7	159.2	169.9	185.6	204.6	224.3	238.9	246.6	236.1	205.2
35°	158.6	159.4	165.8	178.3	195.2	214.4	232.4	247.2	259.6	254.1	217.5
37.5°	167.8	169.0	177.0	189.7	205.0	222.4	240.0	255.8	273.8	271.5	230.3
40°	184.0	184.0	192.0	202.9	215.5	228.8	246.1	264.8	286.8	290.1	246.1
42.5°	204.6	203.8	208.9	216.8	225.6	236.7	252.4	273.1	299.1	306.2	258.2
45°	232.9	228.6	231.4	233.3	237.6	244.5	258.4	281.1	308.9	318.1	267.2
47.5°	266.1	260.1	257.8	254.1	252.6	255.1	267.2	287.3	318.3	328.5	281.7
50°	302.7	297.0	290.7	280.9	272.3	269.8	277.0	295.6	328.5	341.3	297.8
52.5°	340.8	336.8	328.7	313.2	297.0	287.8	291.1	309.5	344.5	361.2	316.9
55°	375.7	377.1	367.2	349.2	325.9	311.7	315.8	334.2	373.7	393.3	348.8
57.5°	413.3	409.8	402.1	383.5	358.0	342.8	344.5	366.8	406.2	421.1	380.5
60°	438.1	438.1	429.7	415.6	391.4	377.3	379.8	400.4	432.3	433.8	394.7
62.5°	454.2	456.5	449.9	439.9	416.2	404.5	413.3	427.8	445.2	432.8	387.6
65°	446.5	449.1	448.4	437.3	420.5	419.7	435.6	438.9	437.5	417.2	363.1
67.5°	411.5	406.4	406.2	400.4	397.0	414.8	435.0	436.0	410.7	386.5	324.6
70°	345.1	336.3	333.0	334.6	350.3	383.5	412.2	404.1	363.8	343.0	276.4
72.5°	266.1	255.6	253.5	260.1	284.3	331.0	370.2	358.9	299.1	274.9	214.0
75°	188.7	184.2	184.4	197.5	223.7	268.6	314.3	313.2	221.6	189.7	147.4
77.5°	137.3	138.2	142.1	147.2	169.7	213.2	256.0	253.3	157.6	130.2	103.0
80°	113.3	114.6	114.6	111.8	117.6	140.8	174.0	185.8	105.7	87.7	72.0
82.5°	81.4	87.9	91.5	87.0	84.8	92.8	109.0	116.7	65.8	55.2	50.3
85°	38.8	44.4	45.6	44.6	51.2	58.5	62.3	63.8	36.0	25.7	33.0
87.5°	0.0	0.0	0.2	1.7	4.7	8.2	8.2	12.4	1.9	0.6	1.5
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: P228470

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

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	115°	120°	125°	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°	161.9	159.2	157.0	154.5	152.3	150.2	148.6	145.5	142.9	137.1	135.6
5°	158.1	152.1	148.0	144.1	139.2	135.8	132.2	127.7	122.8	114.4	111.8
7.5°	142.9	135.4	129.8	124.3	117.8	112.0	106.7	100.7	92.2	83.2	79.7
10°	126.4	118.5	110.8	104.1	96.4	90.0	85.3	81.0	74.2	67.3	62.8
12.5°	112.9	103.9	95.1	88.5	84.4	81.2	77.7	74.4	67.1	59.3	54.0
15°	106.7	96.2	88.5	83.0	79.3	75.4	71.3	67.5	58.9	49.9	43.5
17.5°	107.5	95.5	85.7	78.2	73.2	67.9	63.2	58.3	48.9	38.2	32.3
20°	112.2	96.2	82.7	74.0	66.8	59.9	54.0	47.8	36.2	27.8	23.7
22.5°	118.3	98.3	81.0	69.7	60.9	52.3	44.6	37.2	26.8	21.9	19.9
25°	128.6	103.2	80.5	65.8	55.0	44.8	36.8	29.2	21.7	19.2	18.2
27.5°	141.4	108.8	81.0	63.0	50.1	38.8	30.0	24.2	19.5	18.2	17.4
30°	154.3	114.6	79.1	58.7	44.4	33.2	25.7	22.1	19.2	17.8	16.3
32.5°	165.6	118.9	75.8	54.2	39.2	28.2	21.9	18.8	16.9	15.2	14.8
35°	173.8	120.8	72.2	51.5	35.8	25.3	19.2	16.9	15.0	13.3	12.4
37.5°	181.5	121.0	68.3	48.9	34.5	24.0	17.8	15.7	13.9	12.4	11.6
40°	189.3	120.2	66.2	46.2	32.5	23.3	17.2	14.5	13.5	11.8	10.9
42.5°	195.2	118.7	65.4	44.8	30.9	21.7	16.7	14.3	12.9	11.6	10.5
45°	200.5	117.2	65.4	43.5	29.6	20.6	15.9	14.5	12.4	11.4	10.0
47.5°	206.9	117.8	65.6	42.5	28.5	19.5	15.0	14.1	12.7	11.2	9.8
50°	217.9	125.1	66.6	41.7	27.6	18.6	14.3	13.5	13.9	10.9	9.6
52.5°	236.7	136.7	68.3	41.3	26.8	18.0	13.5	13.1	14.1	10.9	9.4
55°	261.4	148.4	70.1	40.3	25.5	16.7	13.1	12.2	13.1	10.9	9.2
57.5°	285.4	157.2	71.6	38.8	23.3	15.4	12.4	11.6	12.0	10.7	8.8
60°	299.3	164.1	73.0	36.2	20.8	13.9	11.8	10.9	10.7	10.7	8.6
62.5°	303.2	161.5	72.2	33.0	18.6	12.9	11.2	10.3	9.6	10.9	8.6
65°	290.9	148.0	68.9	30.2	17.2	12.4	10.5	9.8	9.2	9.4	8.2
67.5°	253.5	124.5	60.3	27.6	16.9	12.2	10.0	9.4	8.6	8.4	7.7
70°	206.7	97.7	49.9	25.7	16.7	12.2	9.6	8.8	8.2	7.5	7.1
72.5°	159.0	73.0	41.9	24.9	16.9	12.0	9.0	7.9	7.3	6.9	6.4
75°	111.8	51.7	34.9	22.3	15.9	11.4	8.4	7.1	6.4	6.0	5.5
77.5°	81.0	35.1	25.9	18.0	13.5	9.8	7.3	6.0	5.3	5.1	4.7
80°	51.7	21.7	17.4	13.3	9.8	7.7	5.5	4.7	4.3	3.9	3.7
82.5°	29.8	12.7	10.5	9.0	6.4	5.1	4.1	3.7	2.8	2.6	2.4
85°	18.2	7.9	5.8	4.7	4.1	3.2	2.4	2.1	1.5	1.3	1.0
87.5°	4.1	1.7	1.5	1.0	1.3	1.0	0.6	0.4	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: P228470

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

**CANDELA DISTRIBUTION (continued):**

	175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°
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°	133.3	130.0	130.2	129.6	127.9	125.1	124.3	122.8	123.0	123.9	123.0
5°	108.8	105.0	105.4	105.2	103.5	101.6	100.0	98.1	97.5	98.1	97.1
7.5°	77.1	74.6	75.4	77.3	77.1	76.0	74.8	72.6	72.2	72.4	70.5
10°	58.9	56.4	55.8	55.4	55.0	54.4	52.7	50.9	50.3	50.5	49.3
12.5°	49.3	47.2	44.6	42.2	40.1	39.2	37.0	36.0	35.8	35.8	35.1
15°	39.0	37.2	35.8	33.5	31.7	30.4	28.9	28.0	27.8	28.0	28.0
17.5°	29.2	28.2	27.6	27.4	26.6	25.7	24.9	24.4	24.2	24.2	24.4
20°	22.3	22.1	22.1	22.1	23.1	24.0	24.2	23.5	23.3	23.1	22.9
22.5°	19.2	19.0	19.2	20.6	19.9	19.2	19.2	19.2	19.2	19.2	19.5
25°	17.8	18.0	18.2	17.6	16.9	16.5	16.3	16.3	16.1	16.1	16.3
27.5°	16.9	16.7	16.5	16.1	15.7	15.0	14.8	14.5	14.5	14.5	14.5
30°	15.9	15.7	15.4	15.0	14.3	13.5	13.3	13.3	13.1	13.3	13.3
32.5°	14.5	14.3	14.1	13.7	13.1	12.7	12.4	12.0	12.0	12.0	12.2
35°	11.8	11.6	11.6	11.8	11.8	11.6	11.6	11.2	11.2	11.2	11.2
37.5°	10.9	10.7	10.7	10.5	10.7	10.9	10.7	10.5	10.5	10.3	10.3
40°	10.3	10.3	10.0	9.8	9.8	10.3	10.0	9.8	9.6	9.6	9.6
42.5°	9.8	9.6	9.6	9.4	9.4	9.4	9.2	9.0	8.8	8.8	8.8
45°	9.4	9.4	9.2	9.0	8.8	8.8	8.4	8.2	8.2	8.2	8.4
47.5°	9.2	9.0	9.0	8.8	8.6	8.2	7.9	7.7	7.7	7.7	7.7
50°	9.0	8.8	8.6	8.6	8.2	7.9	7.7	7.5	7.5	7.5	7.5
52.5°	8.8	8.6	8.4	8.2	7.9	7.7	7.5	7.3	7.3	7.3	7.3
55°	8.4	8.2	8.2	7.9	7.9	7.7	7.5	7.3	7.3	7.3	7.1
57.5°	8.2	7.9	7.7	7.7	7.7	7.5	7.3	7.1	7.1	7.1	7.1
60°	7.9	7.7	7.7	7.5	7.5	7.3	7.3	7.1	6.9	6.9	6.6
62.5°	7.7	7.5	7.5	7.3	7.5	7.3	7.1	6.9	6.6	6.6	6.4
65°	7.5	7.3	7.3	7.3	7.1	7.1	6.9	6.4	6.4	6.4	6.2
67.5°	7.1	6.9	6.9	7.1	6.9	6.6	6.6	6.2	6.2	6.0	6.0
70°	6.4	6.4	6.4	6.6	6.4	6.2	6.2	6.0	5.8	5.5	5.5
72.5°	6.0	5.8	6.0	6.0	6.0	5.8	6.0	5.5	5.3	5.1	5.1
75°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.9	4.7	4.5
77.5°	4.1	4.3	4.3	4.3	4.3	4.5	4.3	4.3	4.3	4.1	3.9
80°	3.0	3.0	3.2	3.5	3.2	3.5	3.2	3.5	3.2	3.2	3.2
82.5°	1.7	1.7	1.9	2.1	2.1	2.4	1.9	2.1	2.1	2.4	2.1
85°	0.6	0.6	0.6	0.6	0.8	0.8	0.6	0.8	0.8	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: P228470

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

**CANDELA DISTRIBUTION (continued):**

	240°	242.5°	245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°
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°	124.7	124.7	122.1	122.5	123.0	123.9	123.4	123.2	123.0	124.3	124.9
5°	97.9	97.7	94.5	94.3	94.9	95.1	94.5	93.4	92.8	93.0	93.6
7.5°	71.1	70.5	67.5	67.1	66.8	67.1	66.4	65.4	64.4	64.7	65.4
10°	49.7	48.0	47.6	47.8	48.2	48.6	48.6	48.6	48.9	50.1	51.7
12.5°	36.0	35.4	35.8	36.2	37.0	37.7	38.4	38.6	38.8	40.5	41.7
15°	28.5	28.5	28.9	29.2	29.6	30.0	30.4	30.4	30.6	31.3	32.3
17.5°	24.7	24.7	24.7	24.7	24.7	24.4	24.2	23.7	23.5	23.3	23.5
20°	22.7	22.5	22.1	21.9	21.4	21.0	20.8	20.2	19.9	19.2	19.0
22.5°	19.5	19.2	19.2	19.2	19.2	19.0	18.8	18.6	18.2	17.6	17.2
25°	16.1	16.1	16.1	16.3	16.3	16.5	16.9	16.9	16.9	16.9	16.3
27.5°	14.5	14.5	14.5	14.5	14.8	14.8	15.0	15.0	15.0	15.2	15.4
30°	13.3	13.5	13.5	13.7	13.7	13.9	13.9	14.1	14.1	14.3	14.3
32.5°	12.2	12.2	12.4	12.7	12.7	12.7	13.1	13.1	12.9	13.1	13.1
35°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.5	10.3	10.5
37.5°	10.0	9.8	9.8	9.6	9.4	9.4	9.4	9.6	9.4	9.6	9.6
40°	9.2	9.2	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.2	9.4
42.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.8	8.8
45°	8.2	8.2	8.2	8.2	8.4	8.4	8.4	8.4	8.4	8.4	8.6
47.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.2	8.4
50°	7.5	7.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.9	8.2
52.5°	7.3	7.3	7.3	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.7
55°	7.1	7.3	7.3	7.3	7.3	7.3	7.1	7.1	7.1	7.1	7.3
57.5°	6.9	6.9	7.1	7.1	7.1	6.9	6.9	6.6	6.6	6.6	7.1
60°	6.6	6.6	6.6	6.6	6.6	6.4	6.4	6.4	6.4	6.6	6.6
62.5°	6.4	6.4	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
65°	6.2	6.2	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
67.5°	5.8	5.8	5.8	5.5	5.5	5.5	5.5	5.8	5.5	5.5	5.5
70°	5.3	5.3	5.3	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	4.9	4.9	4.9	4.9	4.7	4.7	4.7	4.7	4.7	4.7	4.7
75°	4.5	4.3	4.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	3.9	3.7	3.7	3.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	3.2	3.0	3.0	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6
82.5°	2.4	2.1	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.7	1.5
85°	1.0	1.0	0.8	1.0	1.0	1.3	1.0	1.0	1.0	0.8	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: P228470  
 CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLL-XXB

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°	302.5°	
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°	124.5	126.6	126.8	125.5	128.1	128.6	127.9	127.9	128.4	130.0	130.0	2.5°
5°	92.8	95.5	95.3	93.6	97.1	98.1	97.5	97.7	98.5	100.5	101.6	5°
7.5°	65.6	67.9	67.7	67.5	69.7	70.5	70.9	71.6	74.2	74.4	75.6	7.5°
10°	53.1	55.2	56.0	57.4	58.1	59.3	60.3	61.3	63.4	64.4	66.0	10°
12.5°	43.1	45.6	46.2	48.0	48.9	50.3	51.2	53.3	54.6	56.0	57.8	12.5°
15°	33.2	35.4	36.0	37.2	38.2	39.9	40.7	41.9	44.6	45.8	48.4	15°
17.5°	24.4	25.7	26.2	27.0	27.6	28.2	30.0	32.1	33.7	35.8	37.0	17.5°
20°	19.0	19.5	19.7	19.9	20.4	20.8	21.7	23.1	24.0	25.7	27.0	20°
22.5°	17.2	17.4	17.4	17.6	17.6	17.8	18.2	18.6	19.0	19.7	20.4	22.5°
25°	15.9	16.1	16.1	16.3	16.3	16.5	16.7	16.9	17.4	17.6	17.8	25°
27.5°	15.2	15.2	15.2	15.2	15.4	15.4	15.7	16.1	16.1	16.5	16.7	27.5°
30°	14.5	14.5	14.5	14.8	15.0	15.4	15.9	16.5	16.7	17.2	17.4	30°
32.5°	13.5	13.1	13.5	13.3	12.9	12.9	13.1	13.5	13.5	13.7	13.9	32.5°
35°	10.5	10.5	10.7	10.9	10.9	11.2	11.4	11.6	11.8	12.2	12.4	35°
37.5°	9.8	10.0	10.0	10.3	10.5	10.5	10.7	11.2	11.4	11.6	11.8	37.5°
40°	9.4	9.6	9.8	10.0	10.0	10.3	10.5	10.7	10.9	11.4	11.6	40°
42.5°	9.0	9.4	9.4	9.6	9.8	10.0	10.3	10.5	10.9	11.2	11.4	42.5°
45°	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.5	10.7	11.2	11.4	45°
47.5°	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.3	10.7	11.2	11.6	47.5°
50°	8.2	8.6	8.8	9.0	9.2	9.4	9.8	10.3	10.7	11.4	12.4	50°
52.5°	7.9	8.4	8.4	8.8	9.0	9.4	9.8	10.3	10.9	11.8	12.9	52.5°
55°	7.5	7.9	7.9	8.4	8.8	9.2	9.4	10.0	10.7	11.6	11.8	55°
57.5°	7.1	7.5	7.7	7.9	8.4	8.8	9.0	9.6	10.5	10.7	10.5	57.5°
60°	6.9	7.1	7.3	7.5	7.9	8.2	8.8	10.0	10.9	10.0	9.0	60°
62.5°	6.4	6.9	7.1	7.3	7.7	7.9	8.4	9.2	9.4	8.4	8.2	62.5°
65°	6.2	6.6	6.6	7.1	7.3	7.3	7.5	7.5	7.5	7.5	7.5	65°
67.5°	5.8	6.2	6.2	6.4	6.6	6.6	6.9	6.9	6.9	6.9	6.9	67.5°
70°	5.3	5.5	5.8	6.0	6.0	6.0	6.2	6.2	6.2	6.4	6.4	70°
72.5°	4.9	5.1	5.1	5.3	5.3	5.5	5.5	5.8	5.8	5.8	6.0	72.5°
75°	4.1	4.3	4.5	4.7	4.7	4.9	4.9	4.9	4.9	5.1	5.1	75°
77.5°	3.5	3.5	3.9	3.9	4.1	4.1	4.3	4.3	4.3	4.3	4.3	77.5°
80°	2.6	2.6	2.8	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	80°
82.5°	1.5	1.5	1.7	1.7	1.9	1.9	2.1	1.9	1.9	1.7	1.7	82.5°
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.0	0.0	85°
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P228470  
 NUMBER: ISS-AF-XXX-LED-E1-SLL-XXB

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	335°	345°		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
133.3	133.3	133.7	135.4	135.8	136.9	136.7	138.6	139.4	144.6	150.0	2.5°	155.1
105.4	106.3	107.5	109.7	111.0	113.3	112.9	116.7	117.4	126.8	136.1	5°	146.8
78.7	79.9	81.0	83.4	85.3	87.7	88.3	92.8	94.0	106.5	119.4	7.5°	134.1
68.1	69.2	70.7	72.2	74.2	75.2	76.9	79.1	80.5	89.8	104.5	10°	121.4
60.7	62.1	63.6	65.8	67.7	69.7	71.3	73.4	75.4	83.0	94.5	12.5°	114.0
51.5	53.1	54.8	57.2	59.9	61.9	63.8	66.2	68.5	77.7	91.2	15°	111.0
39.9	41.7	44.1	47.4	50.3	52.7	54.6	57.8	60.9	72.0	89.8	17.5°	114.0
29.4	31.1	33.2	36.0	38.2	42.2	44.4	48.2	51.9	65.8	87.7	20°	119.8
21.7	22.7	24.4	26.6	28.9	32.5	34.9	38.4	42.5	59.9	87.7	22.5°	129.6
18.2	18.6	19.2	20.6	22.1	24.7	27.0	30.4	34.5	54.8	90.0	25°	145.7
16.9	17.2	17.6	18.2	19.0	20.4	22.1	24.9	28.9	50.7	93.4	27.5°	162.9
17.8	17.8	17.8	18.0	18.4	19.0	19.9	21.7	24.2	44.8	95.7	30°	177.8
14.3	14.5	14.5	15.0	15.2	16.1	16.9	18.2	20.6	41.1	97.3	32.5°	188.5
12.9	13.1	13.3	13.5	13.9	14.1	15.0	16.5	18.8	38.8	97.1	35°	201.2
12.2	12.4	12.7	12.7	12.9	13.3	13.9	15.4	18.2	38.0	97.1	37.5°	215.7
12.0	12.0	12.0	12.0	12.4	12.9	13.9	15.4	17.8	37.0	97.7	40°	231.8
11.6	11.6	11.6	11.8	12.4	13.3	13.7	14.5	16.5	36.6	98.7	42.5°	246.4
11.6	11.6	11.8	12.7	12.9	12.9	13.1	13.7	15.7	36.6	100.9	45°	257.8
12.0	12.4	12.7	12.4	12.2	12.2	12.2	13.1	15.0	37.2	105.0	47.5°	270.8
13.1	12.9	12.0	11.8	11.8	11.4	11.6	12.4	14.8	37.2	113.3	50°	288.8
12.9	12.0	11.8	11.4	10.9	10.7	10.9	12.2	14.5	36.8	125.3	52.5°	315.2
11.6	11.4	10.7	10.3	10.0	10.3	10.7	11.8	14.1	36.4	140.1	55°	347.1
10.0	9.8	9.4	9.4	9.6	9.8	10.5	11.4	13.1	35.4	151.9	57.5°	376.4
8.8	8.8	8.8	9.0	9.2	9.4	10.0	10.7	12.0	33.5	159.8	60°	395.3
7.9	8.2	8.2	8.6	8.8	9.0	9.4	10.0	10.9	31.3	161.5	62.5°	395.5
7.5	7.7	7.9	7.9	8.2	8.4	9.0	9.6	10.9	29.6	151.1	65°	379.8
7.1	7.1	7.3	7.5	7.7	7.9	8.4	9.4	11.2	28.0	128.1	67.5°	340.2
6.4	6.6	6.9	7.1	7.1	7.3	7.9	9.4	11.4	27.4	101.8	70°	287.3
6.0	6.0	6.2	6.4	6.4	6.9	7.5	9.2	11.6	26.4	76.7	72.5°	224.1
5.1	5.3	5.3	5.3	5.5	6.0	6.9	8.4	10.0	21.9	51.9	75°	151.9
4.5	4.3	4.5	4.5	4.7	4.9	5.5	6.4	7.5	13.9	27.4	77.5°	96.7
3.2	3.0	3.0	3.2	3.2	3.2	3.7	3.9	4.3	8.6	15.2	80°	57.0
1.7	1.5	1.7	1.5	1.5	1.7	1.7	2.1	2.1	4.1	6.9	82.5°	35.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.5	85°	14.3
0.0	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

'228470

ISS-AF-XXX-LED-E1-SLL-XXB

**TION (continued):**

359°	360°
149.8	149.8
157.6	159.0
152.1	153.9
140.1	142.5
129.0	131.3
123.0	124.3
120.2	122.8
124.3	126.8
132.4	136.5
146.8	151.9
169.5	174.0
187.5	194.6
204.2	209.9
217.5	224.1
232.6	239.1
251.1	259.8
270.2	280.0
288.0	298.9
304.6	313.2
317.5	327.1
333.8	345.1
361.4	369.6
394.9	404.1
426.0	433.8
440.3	446.9
440.7	449.1
431.3	440.7
407.2	421.9
360.2	376.4
283.1	301.7
187.9	204.2
108.4	113.8
64.0	66.8
38.2	40.9
10.3	11.2
0.0	0.0
0.0	0.0

(END OF REPORT)