

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: P226845

Luminaire Tested: **IST-AF-XXX-LED-E1-SL2-8030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-XXX-LED-E1-SL2-8030-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCUED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 523.8 lumens
Efficiency: N/A
Efficacy: 40.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B0 - U1 - G0

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

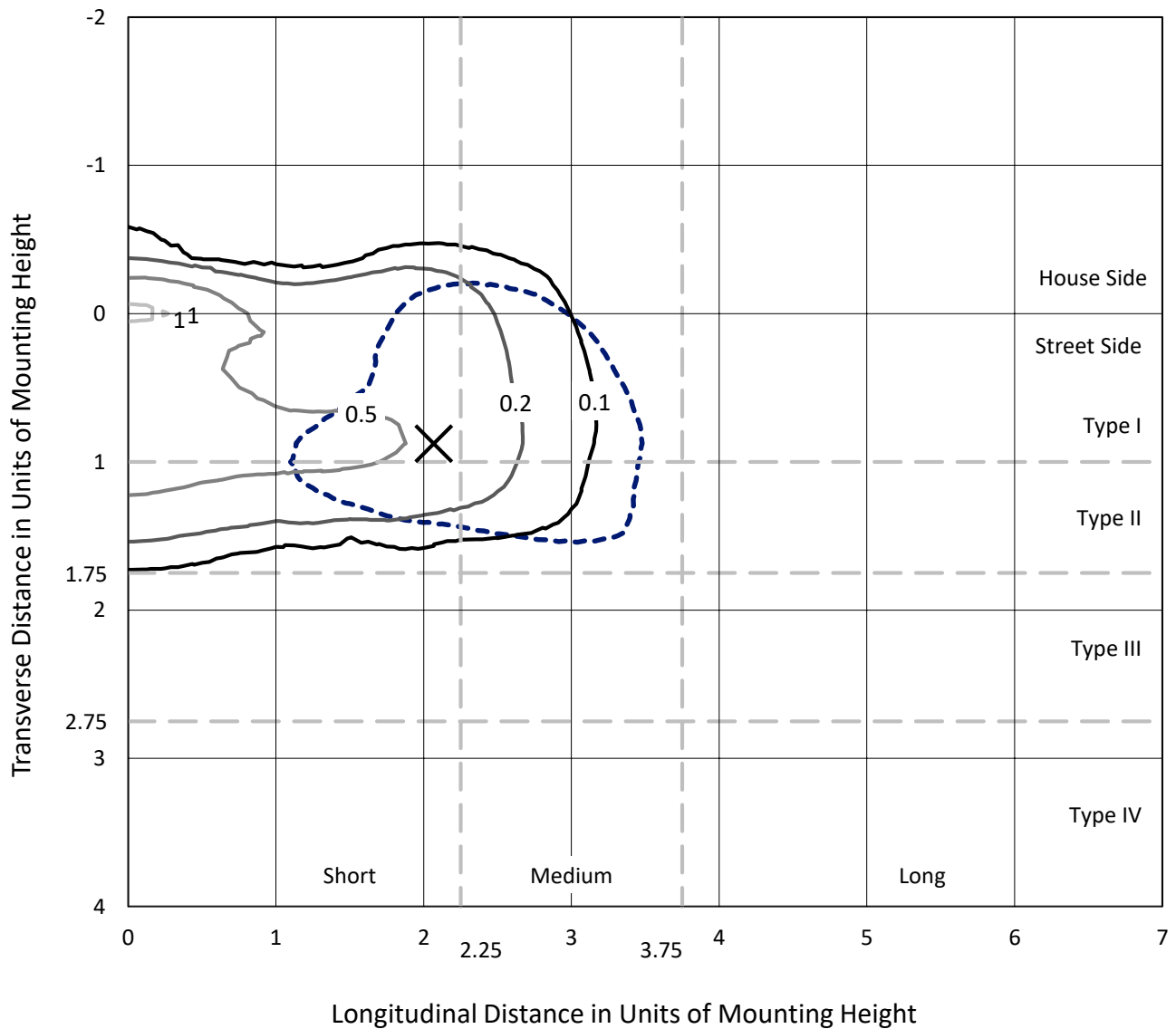


REPORT NUMBER: P226845

CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-8030-XXB

Iso-Footcandle Lines of Horizontal Illumination

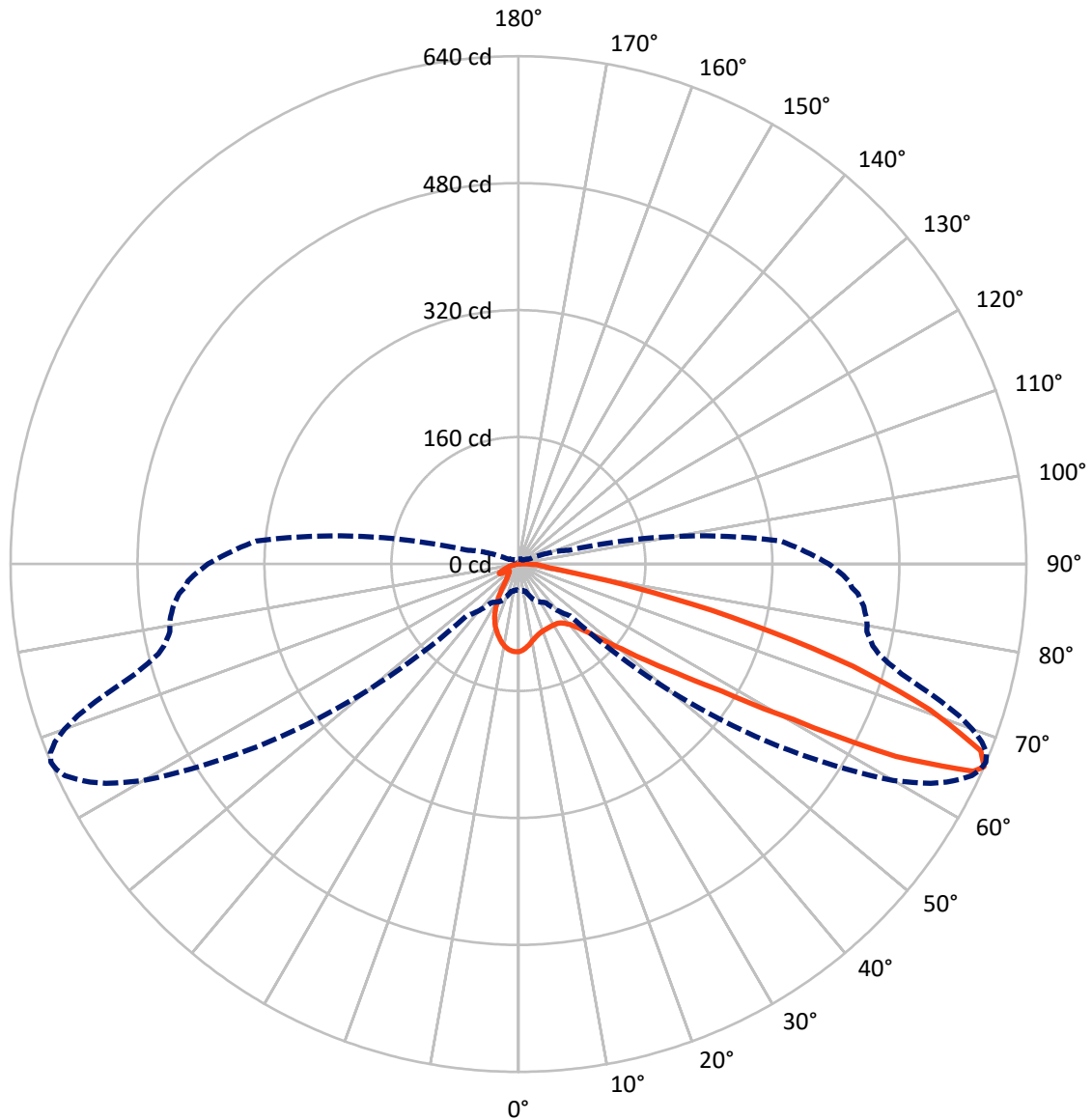
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P226845
CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-8030-XXB

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P226845

CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-8030-XXB

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	96.7	0.0	96.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	426.9	0.1	427.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	523.6	0.2	523.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	1.8
10°-20°	22.8	4.3
20°-30°	31.2	6.0
30°-40°	44.6	8.5
40°-50°	72.3	13.8
50°-60°	114.5	21.9
60°-70°	145.1	27.7
70°-80°	72.2	13.8
80°-90°	11.4	2.2
90°-100°	0.2	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°	523.6	100.0
0°-180°	523.8	100.0

Coefficient of Utilization



REPORT NUMBER: P226845

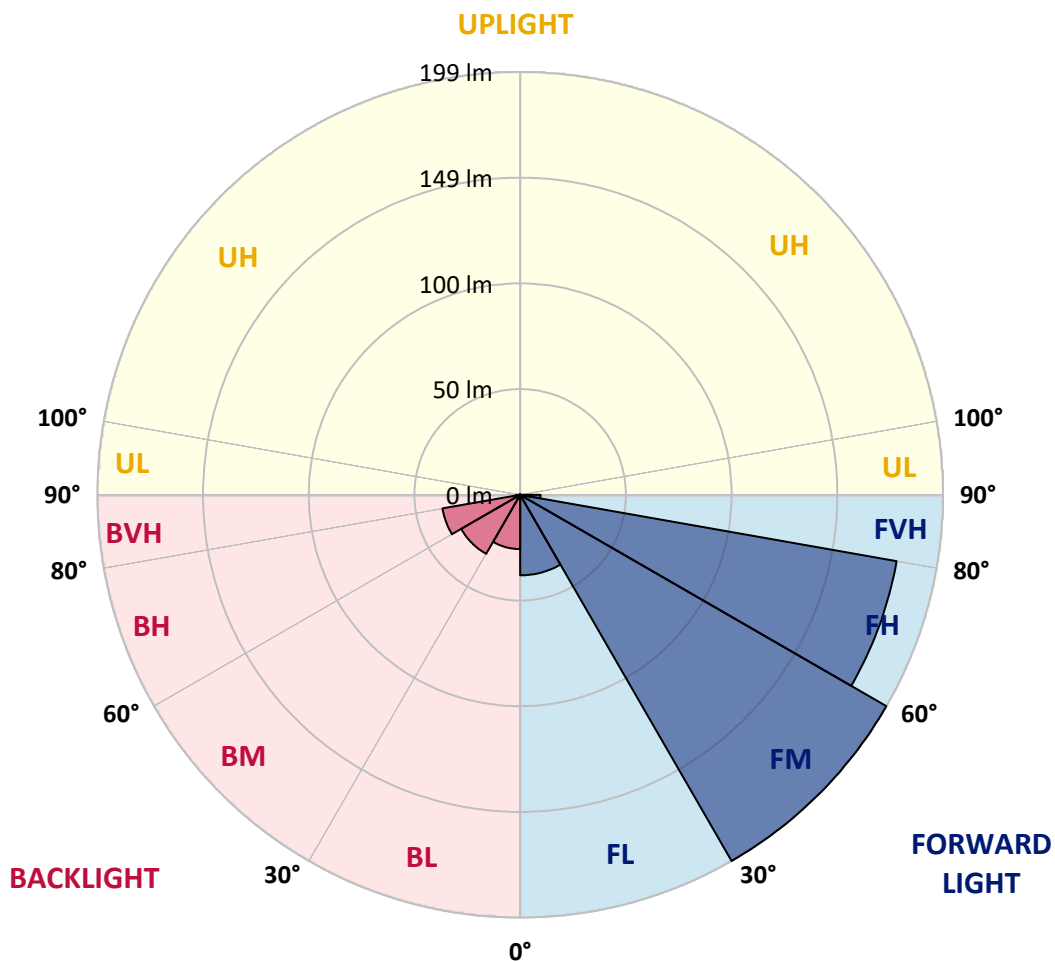
CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-8030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	37.9	7.2			
FM	(30°-60°)	199.3	38.0			
FH	(60°-80°)	180.1	34.4			G0/660
FVH	(80°-90°)	9.6	1.8			G0/10
BL	(0°-30°)	25.6	4.9	B0/110		
BM	(30°-60°)	32.1	6.1	B0/220		
BH	(60°-80°)	37.2	7.1	B0/110		G0/110
BVH	(80°-90°)	1.8	0.4			G0/10
UL	(90°-100°)	0.2	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U1/10	

BUG Rating: B0-U1-G0

Type II Short





REPORT NUMBER: P226845

CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-8030-XXB

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3
2.5°	102.5	102.7	104.0	104.8	105.8	106.1	107.3	107.7	108.1	108.1	108.1
5°	93.3	94.0	94.6	96.0	97.5	99.3	101.6	103.3	103.6	104.0	104.3
7.5°	86.3	86.7	87.8	88.9	90.7	93.3	96.5	98.7	99.2	99.3	99.9
10°	81.3	81.6	82.6	83.9	86.1	88.5	91.9	94.2	94.9	95.2	95.7
12.5°	77.4	77.9	78.8	80.2	82.6	85.1	88.6	90.9	91.4	91.8	92.5
15°	75.0	75.3	76.1	77.7	79.8	82.3	85.8	88.5	88.9	89.2	89.9
17.5°	74.5	74.8	75.2	76.4	78.1	80.5	84.1	86.3	86.9	87.4	88.1
20°	76.4	76.6	76.7	76.9	77.8	79.4	82.9	85.3	85.8	86.3	87.0
22.5°	80.5	80.7	80.4	79.8	79.1	79.4	82.3	84.8	85.2	85.6	86.3
25°	87.6	87.4	86.2	85.3	82.8	80.7	82.5	84.6	85.0	85.5	86.2
27.5°	95.9	95.6	94.9	92.6	88.4	84.2	83.4	85.0	85.2	85.6	86.3
30°	104.9	105.0	104.4	101.8	96.4	89.4	85.5	85.9	86.1	86.4	86.8
32.5°	113.0	114.2	114.1	114.0	106.3	96.4	89.6	88.1	87.8	88.1	88.2
35°	122.4	122.6	124.8	125.9	119.7	106.6	95.6	92.2	91.2	91.3	91.1
37.5°	132.5	132.8	136.5	138.4	133.6	118.3	103.6	98.2	97.4	96.5	95.9
40°	147.1	148.4	150.3	152.4	150.1	133.9	114.0	106.8	104.6	104.4	103.2
42.5°	169.0	168.6	167.6	169.4	166.5	151.5	126.7	118.9	117.3	115.1	113.3
45°	190.5	191.3	187.2	188.0	188.2	171.8	145.0	134.1	133.2	130.6	128.8
47.5°	204.9	204.0	198.5	202.5	212.3	195.5	166.3	154.8	153.0	151.7	150.5
50°	205.7	204.9	201.4	208.5	229.5	237.6	195.9	182.5	179.9	177.5	176.8
52.5°	186.5	185.4	186.6	201.0	235.7	272.9	237.7	216.9	214.8	212.8	210.1
55°	152.3	153.5	159.1	179.8	226.2	297.9	319.9	270.0	260.9	260.8	254.0
57.5°	113.7	112.5	116.6	136.1	202.1	306.8	395.5	383.1	362.7	349.0	332.4
60°	76.7	77.0	80.9	90.9	140.6	297.1	446.1	489.1	482.0	479.1	474.6
62.5°	53.2	53.7	57.2	66.6	82.2	239.0	460.9	548.5	561.4	572.0	569.4
65°	37.2	37.3	40.8	55.3	61.6	122.8	428.2	556.4	575.5	593.8	610.2
66°	32.8	32.9	35.8	51.5	59.1	92.6	399.9	545.5	567.3	588.5	605.4
67.5°	28.1	28.6	30.9	43.8	56.7	71.5	330.3	512.8	535.6	559.0	581.4
70°	19.3	19.4	21.5	35.5	53.0	62.7	188.3	400.4	431.9	473.0	496.8
72.5°	13.8	13.6	13.9	22.0	54.5	62.3	98.9	263.5	307.6	343.7	369.4
75°	12.3	11.9	10.9	13.6	39.7	68.1	66.3	155.1	188.7	221.5	247.9
77.5°	10.9	10.3	9.8	10.5	19.7	64.1	59.5	88.9	106.0	130.5	150.8
80°	8.3	7.9	8.3	9.1	11.8	59.0	59.1	59.1	63.7	71.8	79.8
82.5°	5.5	5.0	5.7	7.5	8.9	44.5	61.1	52.2	51.3	51.0	51.5
85°	3.5	3.0	4.0	5.6	6.8	23.2	62.6	55.1	51.1	47.2	43.4
87.5°	1.3	1.4	2.0	3.2	4.5	10.1	54.9	48.6	45.8	41.0	36.5
90°	0.3	0.2	0.4	0.9	1.0	1.9	8.4	13.5	8.0	4.0	3.2
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226845

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226845

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CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3
2.5°	108.1	108.5	108.7	108.5	108.6	109.1	108.9	109.2	109.2	109.3	109.3
5°	104.6	104.9	105.5	105.5	106.1	106.3	106.6	106.9	107.3	107.5	108.0
7.5°	100.4	101.1	101.6	101.9	102.3	103.1	103.3	104.0	104.7	105.3	105.8
10°	96.4	97.3	97.9	98.1	99.0	99.4	100.3	100.8	101.6	102.4	103.1
12.5°	93.0	93.8	94.1	94.9	95.7	96.5	96.9	97.9	98.7	99.7	100.7
15°	90.5	91.3	91.9	92.5	93.3	94.0	94.7	95.7	96.6	97.7	98.5
17.5°	88.9	89.4	90.2	90.7	91.6	92.6	93.3	94.4	95.5	96.3	97.5
20°	87.8	88.3	89.0	89.7	90.6	91.8	92.4	93.7	94.8	95.8	96.9
22.5°	87.1	87.7	88.4	89.1	90.0	91.0	92.0	93.1	94.3	95.4	96.5
25°	86.9	87.4	88.0	88.7	89.7	90.7	91.6	92.9	93.9	95.1	96.4
27.5°	87.0	87.3	88.0	88.6	89.6	90.6	91.5	92.7	93.9	95.0	96.3
30°	87.3	87.5	88.2	88.8	89.6	90.6	91.4	92.7	93.7	94.9	96.3
32.5°	88.4	88.7	89.0	89.4	90.2	90.9	91.8	93.0	94.0	95.1	96.3
35°	91.0	90.7	91.0	91.1	91.7	92.4	93.1	94.1	95.0	96.0	97.3
37.5°	95.1	94.6	94.8	94.7	94.7	95.1	95.9	96.6	97.3	98.3	99.6
40°	102.6	101.4	101.1	100.3	100.0	100.4	100.9	101.0	101.8	103.2	103.7
42.5°	112.4	110.8	111.0	109.6	109.2	108.8	109.4	109.0	109.6	110.4	111.6
45°	127.8	126.3	124.7	122.5	122.9	121.2	120.7	120.9	120.8	121.1	122.5
47.5°	146.2	144.3	143.2	142.4	140.7	139.7	138.4	136.4	136.9	137.5	138.7
50°	173.1	172.5	170.5	167.7	167.3	165.8	165.4	163.7	163.1	163.0	162.9
52.5°	209.1	205.0	204.2	201.6	199.5	198.1	197.6	195.2	192.7	194.2	194.0
55°	252.9	249.6	245.2	242.9	241.2	237.8	237.0	233.9	232.5	231.7	229.7
57.5°	326.6	314.7	305.8	301.4	295.2	288.9	286.7	280.4	275.5	272.1	272.3
60°	455.0	433.9	408.9	397.8	371.9	368.1	350.3	346.0	335.3	328.2	324.1
62.5°	567.6	561.8	549.9	533.6	507.6	477.7	464.3	437.5	416.6	407.4	394.8
65°	621.3	629.4	632.8	629.7	619.3	601.0	585.0	558.9	523.8	503.9	479.3
66°	618.6	630.6	636.7	639.8	636.1	625.3	608.4	587.0	559.8	529.6	502.0
67.5°	598.4	610.2	618.6	628.2	628.2	624.8	618.0	603.6	584.4	558.1	533.3
70°	516.1	532.0	546.9	549.8	558.0	555.5	560.9	551.8	547.2	536.2	522.9
72.5°	402.1	415.4	428.1	440.9	438.8	436.0	435.5	437.3	428.1	431.4	427.9
75°	267.4	290.3	303.4	302.1	303.0	303.7	297.9	284.9	295.0	282.2	286.5
77.5°	162.5	173.1	176.7	172.7	167.6	161.0	150.4	144.2	135.3	136.0	130.1
80°	85.2	86.6	83.7	75.8	71.5	67.5	55.4	50.0	44.9	43.0	38.8
82.5°	48.9	45.6	42.2	39.5	34.4	30.9	26.2	23.2	20.0	17.2	16.1
85°	39.6	35.3	32.0	29.0	25.6	22.5	18.6	15.5	13.1	11.4	11.0
87.5°	32.7	29.7	26.4	23.5	20.1	17.0	13.1	10.2	8.1	6.5	6.1
90°	2.9	3.9	2.8	1.6	2.4	1.3	0.7	0.8	0.6	0.6	0.7
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-8030-XXB

CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226845

CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-8030-XXB

CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3
2.5°	109.6	109.6	109.7	109.9	109.9	109.9	109.9	110.1	110.2	109.9	110.2
5°	108.2	108.6	108.9	109.2	109.2	109.5	109.7	109.9	110.1	110.1	110.3
7.5°	106.4	107.1	107.5	107.9	108.3	108.7	109.2	109.5	109.6	109.9	110.2
10°	104.1	105.0	105.8	106.4	107.0	107.7	108.4	108.8	109.6	109.6	110.2
12.5°	101.7	102.9	103.6	104.8	105.5	106.7	107.3	108.1	108.8	109.2	109.9
15°	100.0	101.1	102.2	103.3	104.6	106.0	106.8	107.7	108.8	109.7	110.5
17.5°	98.6	100.1	101.4	102.9	104.4	105.9	107.1	108.1	109.6	110.0	110.8
20°	98.2	99.9	101.2	102.7	104.4	106.3	107.7	108.8	110.3	111.0	111.8
22.5°	98.1	99.6	101.2	103.0	104.8	106.9	108.4	109.8	111.2	111.9	112.5
25°	97.9	99.6	101.3	103.3	105.3	107.4	109.2	110.5	111.8	112.5	113.0
27.5°	97.9	99.6	101.5	103.6	105.7	108.1	109.7	111.0	112.1	112.8	112.9
30°	97.8	99.6	101.4	103.7	106.0	108.4	110.3	111.4	112.5	112.9	112.7
32.5°	98.0	99.9	101.8	104.1	106.5	108.8	110.7	112.1	112.6	112.5	112.5
35°	98.8	100.5	102.8	105.1	107.5	109.7	111.5	112.5	112.9	112.8	112.4
37.5°	100.9	102.6	104.9	107.4	109.3	111.8	113.5	114.2	114.3	113.8	112.9
40°	105.3	107.0	109.1	111.8	114.1	115.8	117.4	118.2	117.7	116.9	115.8
42.5°	112.3	114.5	116.9	119.2	121.8	124.2	124.6	125.1	124.3	122.6	121.4
45°	123.6	124.9	128.0	129.7	133.2	134.3	135.2	135.4	133.7	132.4	130.2
47.5°	139.8	142.4	144.6	146.1	148.7	150.2	152.0	151.2	149.8	147.6	144.7
50°	165.3	166.9	169.8	172.6	175.3	176.4	176.4	175.6	174.7	170.3	166.8
52.5°	196.6	196.8	200.8	204.2	206.5	204.9	206.8	204.9	204.3	201.2	198.3
55°	232.9	231.4	236.3	239.3	241.4	243.3	242.9	242.7	240.7	237.2	233.7
57.5°	267.3	271.7	274.0	278.4	279.5	280.8	280.3	279.5	278.3	276.3	274.7
60°	317.1	320.0	322.1	323.0	325.9	326.3	328.3	325.0	325.8	323.5	318.6
62.5°	384.8	381.6	383.3	383.3	382.4	379.3	381.0	382.3	380.1	378.2	377.4
65°	460.6	450.4	440.6	439.0	434.5	433.5	432.2	429.1	427.7	424.4	421.8
66°	483.2	467.5	458.3	452.6	447.2	446.0	444.3	441.0	438.3	433.6	429.2
67.5°	508.6	488.3	474.5	466.5	459.8	455.4	451.9	447.2	442.9	436.0	428.8
70°	507.0	490.2	473.5	461.3	451.3	442.2	436.9	426.7	418.1	408.1	400.0
72.5°	426.0	423.0	413.3	406.5	394.1	389.3	375.2	368.7	356.8	343.9	340.0
75°	296.2	284.4	279.5	276.7	271.3	256.3	246.6	248.7	234.7	222.2	215.0
77.5°	129.5	131.8	118.1	112.0	107.3	99.2	91.6	86.4	83.4	81.5	72.6
80°	35.8	31.2	30.9	28.6	28.2	25.1	25.5	23.3	21.8	21.5	20.8
82.5°	15.7	15.3	14.9	14.6	14.4	14.1	13.7	13.6	13.1	12.7	12.8
85°	10.4	10.3	10.1	9.8	9.4	8.9	8.5	8.2	8.3	7.9	7.8
87.5°	6.1	5.9	5.8	5.5	5.4	5.0	5.0	4.6	4.6	4.5	4.2
90°	0.9	0.9	1.2	1.1	0.8	1.5	1.3	1.1	1.2	0.9	0.9
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226845
 CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-8030-XXB

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°

NUMBER: P226845

REPORT NUMBER: P

NUMBER: IST-AF-XXX-LED-E1-SL2-8030-XXB

CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	110°	86°
110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110°	0.0
110.4	110.6	110.7	110.6	110.7	110.7	110.7	110.7	110.3	110.2	110.1	112.5°	0.0
110.6	110.9	111.0	111.0	110.9	111.0	110.7	109.5	108.1	106.5	105.2	115°	0.0
110.7	111.1	111.4	111.4	111.4	111.3	110.1	107.3	104.0	100.7	98.2	117.5°	0.0
110.7	111.2	111.4	111.5	111.5	111.2	108.4	104.0	98.9	93.9	88.8	120°	0.0
110.4	110.9	111.3	111.3	111.4	110.3	105.9	99.6	92.4	84.8	78.0	122.5°	0.0
110.9	111.4	111.4	111.4	111.3	109.4	103.2	94.0	84.4	74.2	64.1	125°	0.0
111.6	111.8	111.7	111.7	111.4	108.5	100.2	88.6	76.0	62.5	48.3	127.5°	0.0
112.2	112.4	112.3	111.9	111.5	107.6	97.1	82.9	66.0	48.3	34.2	130°	0.0
112.9	113.0	112.6	112.0	111.4	106.3	93.4	75.6	54.5	33.1	22.7	132.5°	0.0
112.9	113.1	112.4	111.5	110.7	104.4	88.9	67.8	42.0	21.4	17.7	135°	0.0
112.9	112.7	111.5	110.4	109.6	102.2	84.0	58.1	28.0	16.1	15.4	137.5°	0.0
112.3	111.6	110.7	109.4	108.1	99.6	79.0	47.3	17.7	14.0	14.0	140°	0.0
111.5	110.8	109.6	108.0	106.6	97.2	73.3	36.3	14.2	12.9	13.1	142.5°	0.0
111.2	110.4	108.7	107.0	105.1	95.0	67.4	24.4	12.7	12.2	12.3	145°	0.0
111.8	110.5	108.8	106.8	104.7	93.1	61.2	17.0	12.0	11.4	11.6	147.5°	0.0
114.0	112.7	110.7	108.1	105.9	92.0	54.5	14.1	11.3	10.8	10.8	150°	0.0
119.1	117.4	114.7	111.7	108.9	92.7	48.6	12.8	10.8	10.2	10.2	152.5°	0.0
127.3	125.4	122.1	118.8	115.1	96.2	41.9	12.4	10.4	9.6	9.4	155°	0.0
141.5	138.9	134.7	130.6	126.3	102.2	35.2	12.0	9.9	9.2	8.9	157.5°	0.0
163.8	159.9	154.9	149.6	144.3	113.1	29.8	11.7	9.6	8.9	8.6	160°	0.0
192.4	189.8	183.5	176.6	170.3	134.9	26.8	11.5	9.4	8.5	8.3	162.5°	0.0
228.9	224.7	219.7	213.5	206.0	163.1	26.4	11.4	9.1	8.2	8.0	165°	0.0
267.5	265.9	257.4	253.6	245.5	200.8	32.2	11.6	9.0	7.9	7.7	167.5°	0.0
311.5	312.1	304.3	300.0	293.3	248.5	51.2	12.0	9.0	7.7	7.5	170°	0.0
369.0	370.1	360.8	355.7	350.1	301.9	80.5	12.8	9.2	7.5	7.2	172.5°	0.0
416.2	410.7	404.7	395.9	388.7	331.7	77.5	14.2	9.5	7.2	7.0	175°	0.0
421.0	417.1	409.6	400.0	391.3	331.9	67.7	14.7	9.6	7.2	6.9	177.5°	0.0
420.4	413.4	404.8	396.8	388.2	323.4	52.3	15.3	9.8	7.0	6.8	180°	0.0
391.3	381.5	373.1	362.0	353.1	289.4	32.2	15.3	9.5	6.5	6.4		
322.7	317.6	307.7	298.8	289.5	234.2	22.0	13.6	8.4	5.9	6.0		
208.7	203.0	192.9	187.9	182.6	149.8	17.2	11.1	7.2	5.3	5.5		
69.7	67.4	63.7	65.7	62.6	58.4	12.6	8.4	5.7	4.6	4.9		
20.9	20.4	21.1	19.8	21.0	17.8	8.3	5.9	4.4	3.9	4.3		
12.4	12.2	12.2	12.2	11.9	11.1	5.4	4.1	3.4	3.3	3.6		
7.6	7.4	7.5	7.4	7.6	6.8	3.7	2.8	2.5	2.4	2.9		
4.3	4.3	4.4	4.2	4.3	4.2	2.6	1.8	1.7	1.6	2.1		
1.0	1.0	0.8	0.7	0.8	1.1	0.7	0.6	0.5	0.4	0.7		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	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	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		



'226845
 IST-AF-XXX-LED-E1-SL2-8030-XXB

REPORT NUMBER: P226845
 CATALOG NUMBER: IST-AF-XX

TION (continued):

CANDELA DISTRIBUTION (con

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	110.3	110.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	109.5	108.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	103.3	101.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	94.3	92.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	84.1	81.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	71.0	65.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	55.9	49.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	38.5	33.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	27.0	24.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	20.9	20.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	17.3	18.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	15.3	16.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	14.0	14.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	13.1	13.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	12.1	12.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	11.3	11.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	10.5	10.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	9.8	9.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	9.1	9.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	8.7	8.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	8.3	8.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	7.9	7.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	7.6	7.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	7.4	7.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	7.2	7.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	7.0	6.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	6.8	6.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	6.8	6.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	6.7	6.5
										70°	6.4	6.2
										72.5°	5.9	5.8
										75°	5.4	5.3
										77.5°	4.8	4.7
										80°	4.1	4.0
										82.5°	3.5	3.3
										85°	2.8	2.6
										87.5°	1.9	1.7
										90°	0.5	0.6
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



REPORT NUMBER: P226845

CATALOG NUMBER: IST-AF-XXX-LED-E1-5

X-LED-E1-SL2-8030-XXB

tinued):

175°	180°
110.3	110.3
108.4	109.2
101.3	101.1
91.1	91.2
78.9	79.0
63.0	62.0
45.1	45.5
31.4	31.3
25.2	25.3
21.6	21.6
19.2	19.2
16.9	17.0
15.3	15.5
13.9	14.0
12.5	12.6
11.3	11.3
10.5	10.6
10.0	10.0
9.4	9.4
9.0	9.1
8.5	8.6
8.0	8.1
7.6	7.6
7.2	7.2
6.8	6.8
6.6	6.5
6.4	6.3
6.3	6.2
6.2	6.1
6.1	6.0
5.8	5.7
5.4	5.2
4.9	4.7
4.5	4.2
3.8	3.6
2.8	2.6
1.7	1.7
0.4	0.4
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

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	0.0	0.0	0.0
112.5°	0.0	0.0	0.0
115°	0.0	0.0	0.0
117.5°	0.0	0.0	0.0
120°	0.0	0.0	0.0
122.5°	0.0	0.0	0.0
125°	0.0	0.0	0.0
127.5°	0.0	0.0	0.0
130°	0.0	0.0	0.0
132.5°	0.0	0.0	0.0
135°	0.0	0.0	0.0
137.5°	0.0	0.0	0.0
140°	0.0	0.0	0.0
142.5°	0.0	0.0	0.0
145°	0.0	0.0	0.0
147.5°	0.0	0.0	0.0
150°	0.0	0.0	0.0
152.5°	0.0	0.0	0.0
155°	0.0	0.0	0.0
157.5°	0.0	0.0	0.0
160°	0.0	0.0	0.0
162.5°	0.0	0.0	0.0
165°	0.0	0.0	0.0
167.5°	0.0	0.0	0.0
170°	0.0	0.0	0.0
172.5°	0.0	0.0	0.0
175°	0.0	0.0	0.0
177.5°	0.0	0.0	0.0
180°	0.0	0.0	0.0



SL2-8030-XXB

180°
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(END OF REPORT)