

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: P227365

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)
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-SLR-8030-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED 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: 467.6 lumens
Efficiency: N/A
Efficacy: 36.0 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 - U1 - 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

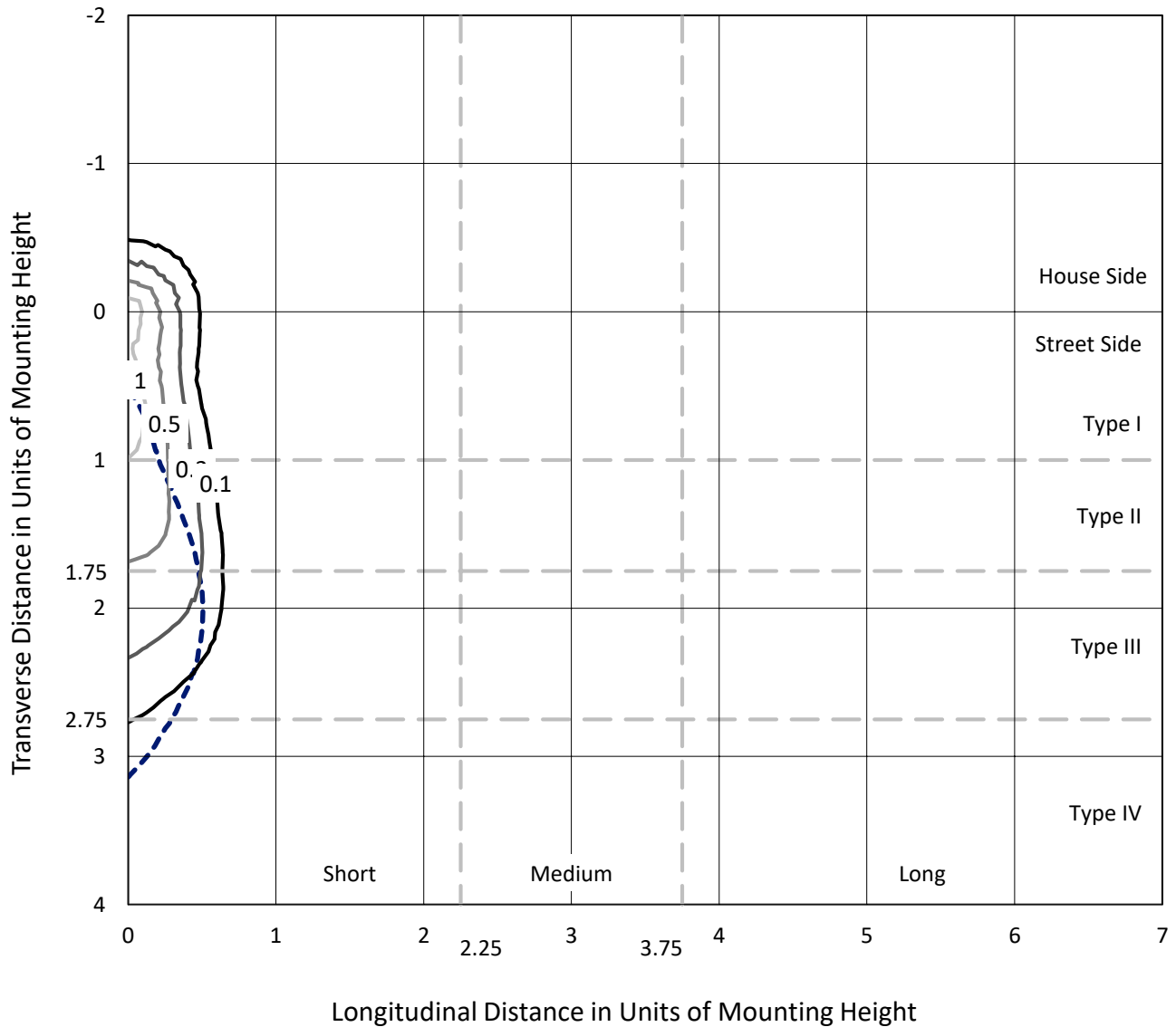


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

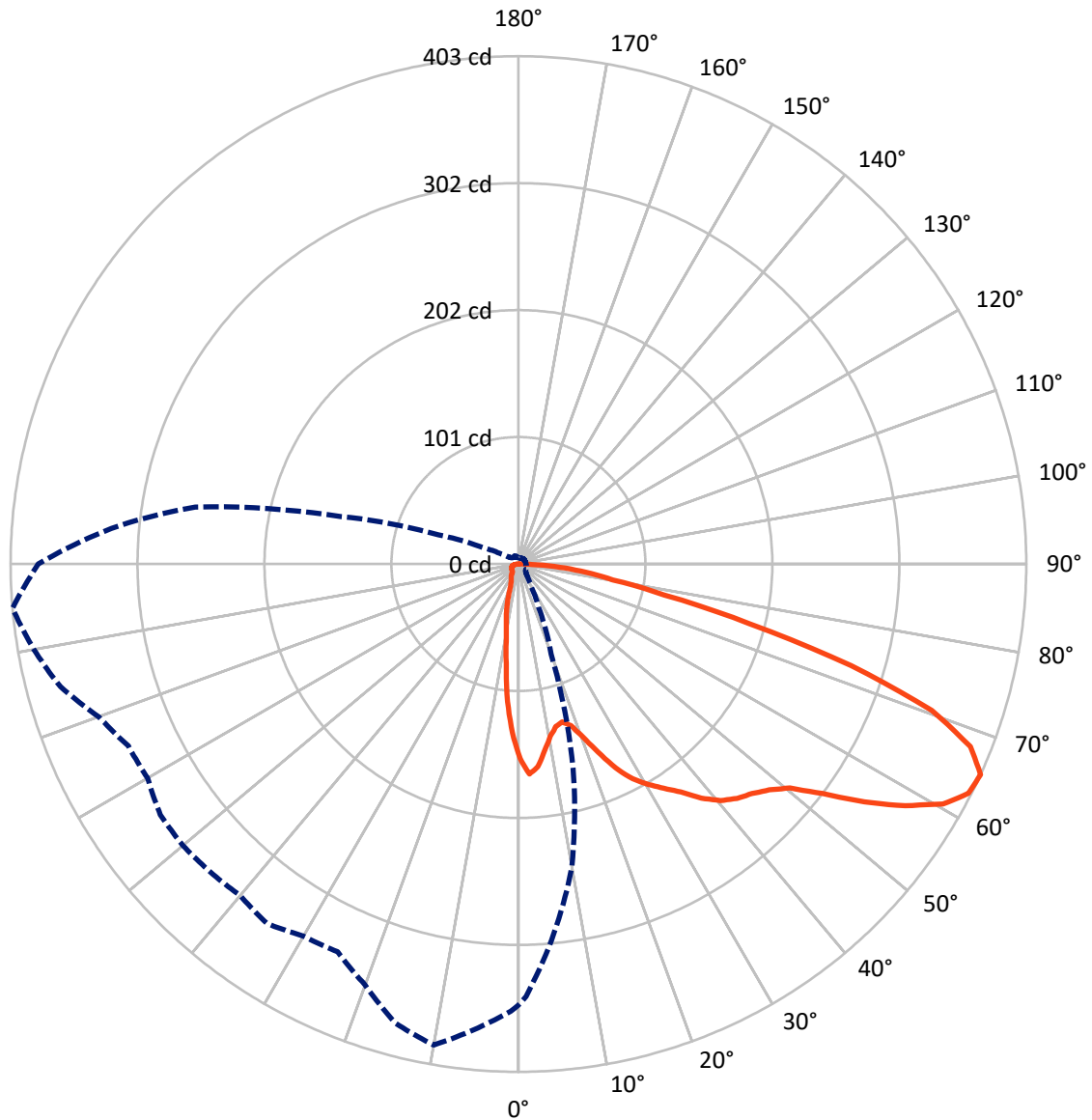


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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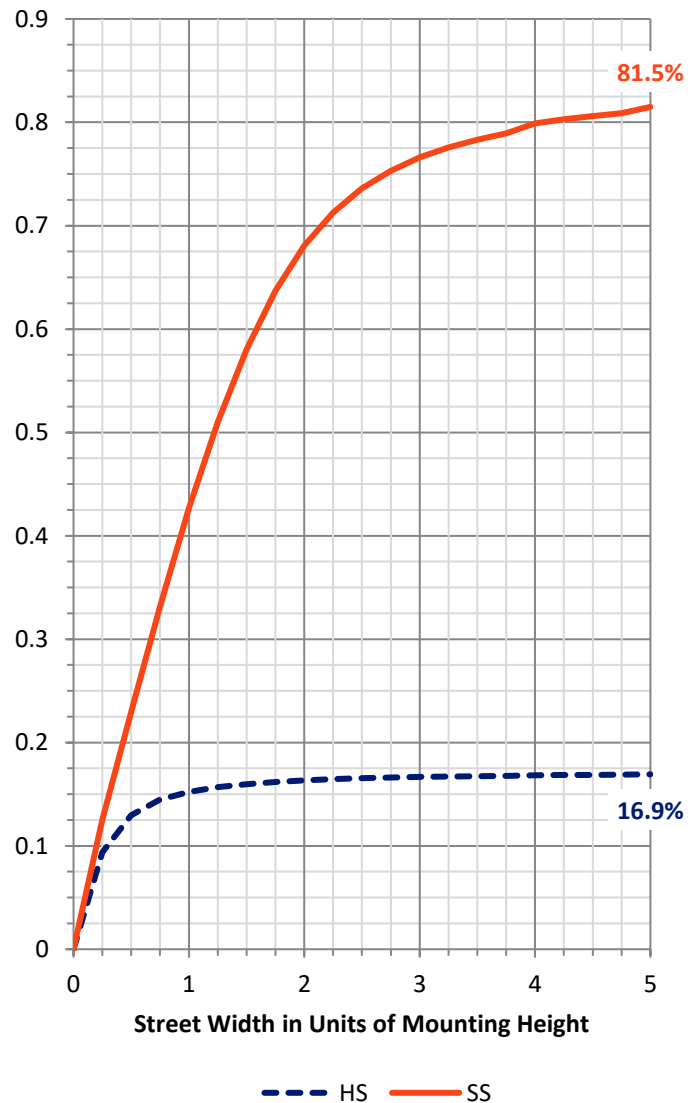
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	80.2	0.0	80.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	387.4	0.0	387.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	467.6	0.0	467.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	2.4
10°-20°	22.0	4.7
20°-30°	31.4	6.7
30°-40°	45.6	9.7
40°-50°	65.2	13.9
50°-60°	100.1	21.4
60°-70°	115.8	24.8
70°-80°	59.1	12.6
80°-90°	17.1	3.6
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°	467.6	100.0
0°-180°	467.6	100.0



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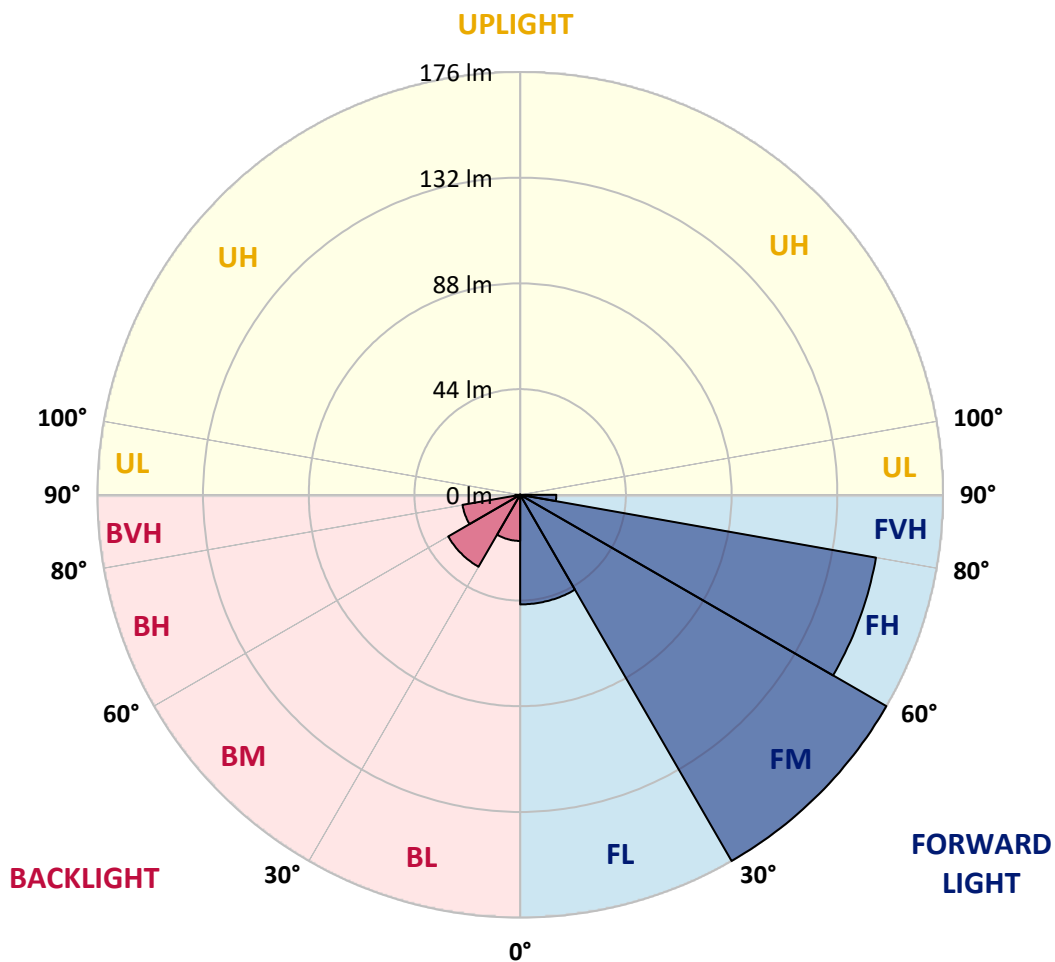
CATALOG NUMBER: IST-AF-XXX-LED-E1-SLR-8030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	45.7	9.8			
FM	(30°-60°)	176.2	37.7			
FH	(60°-80°)	150.5	32.2			G0/660
FVH	(80°-90°)	15.1	3.2			G1/100
BL	(0°-30°)	19.2	4.1	B0/110		
BM	(30°-60°)	34.6	7.4	B0/220		
BH	(60°-80°)	24.4	5.2	B0/110		G0/110
BVH	(80°-90°)	2.0	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U1/10	

BUG Rating: B0-U1-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5
2.5°	159.9	159.0	157.8	155.7	153.9	151.3	150.7	147.5	145.4	145.9	142.2
5°	150.2	149.6	146.7	142.1	139.1	133.2	129.9	128.1	123.2	122.6	121.3
7.5°	136.5	134.8	130.1	124.4	119.3	115.0	109.6	105.4	101.7	99.4	95.4
10°	124.7	123.0	117.9	111.0	104.8	98.8	94.4	88.9	83.7	79.6	76.3
12.5°	119.1	117.2	111.2	103.2	96.3	88.8	82.6	77.2	74.3	72.2	69.6
15°	121.3	118.5	111.4	101.8	93.3	85.2	78.6	72.9	69.4	66.3	63.1
17.5°	130.2	126.8	118.6	107.0	95.2	84.8	75.4	68.9	63.4	58.6	54.4
20°	145.4	142.9	131.0	114.8	99.5	85.1	72.6	64.1	57.4	51.4	45.7
22.5°	163.3	159.5	147.9	125.4	104.9	86.5	70.9	60.0	52.1	44.1	37.9
25°	182.0	179.1	163.7	139.5	113.2	89.4	69.6	56.5	45.9	37.0	30.2
27.5°	197.1	194.5	179.3	153.2	120.9	91.9	67.6	53.1	40.9	30.2	22.7
30°	209.5	207.3	191.3	164.3	130.2	92.8	64.8	49.2	35.4	24.4	18.8
32.5°	223.4	220.9	202.9	172.1	134.3	92.0	61.7	45.5	31.0	21.6	16.1
35°	238.5	235.7	215.8	180.5	137.8	89.2	59.0	42.8	28.9	19.6	14.3
37.5°	252.1	250.3	227.4	188.9	141.7	84.7	56.4	39.9	27.5	18.2	12.9
40°	262.6	262.2	240.4	195.8	144.8	81.4	54.3	37.6	25.7	17.6	12.4
42.5°	271.1	271.0	250.9	202.0	145.6	78.5	52.7	35.6	24.0	16.3	12.7
45°	279.3	279.2	261.1	210.7	146.1	78.6	51.4	34.3	22.6	15.4	12.0
47.5°	287.1	288.3	271.8	222.7	152.0	81.3	50.9	33.1	21.5	14.5	11.3
50°	300.2	299.0	288.8	239.0	161.3	86.5	50.1	32.1	20.5	13.6	10.7
52.5°	325.0	323.6	314.5	260.8	171.6	91.8	49.1	30.7	19.3	12.7	10.0
55°	355.3	357.1	344.4	287.3	185.5	96.3	48.0	28.8	17.7	11.6	9.5
57.5°	373.0	371.5	357.1	302.6	194.1	98.6	47.3	26.6	15.3	10.6	9.1
59°	377.2	374.7	354.9	305.2	196.4	97.5	46.9	24.5	14.0	10.2	8.8
60°	376.8	373.7	351.6	303.5	197.0	96.2	46.3	23.2	13.3	9.9	8.7
62.5°	368.7	363.9	332.4	283.6	188.2	89.5	43.7	20.2	12.4	9.6	8.3
65°	350.3	343.5	300.1	244.5	167.9	76.2	37.8	19.1	12.6	9.4	7.9
67.5°	318.5	313.1	258.6	202.3	133.9	61.5	32.7	18.7	12.9	9.6	7.5
70°	259.1	254.4	201.8	151.5	100.3	49.0	29.7	18.4	12.7	9.2	7.1
72.5°	182.7	174.7	134.1	106.1	63.6	39.4	25.7	17.4	12.4	8.9	6.5
75°	111.2	112.7	85.2	77.3	40.1	27.0	20.2	14.6	10.9	7.9	5.8
77.5°	73.3	73.3	62.9	54.5	20.4	16.8	14.3	11.3	8.6	6.5	5.0
80°	49.7	50.3	45.6	37.2	11.3	10.1	9.4	8.2	6.3	5.0	4.2
82.5°	30.6	30.7	35.3	27.9	7.6	6.4	6.0	5.5	4.5	3.9	3.2
85°	10.6	10.9	12.4	19.7	5.1	4.2	4.2	3.9	3.4	2.6	2.1
87.5°	4.6	4.5	5.4	5.4	2.5	2.1	2.0	2.0	1.9	1.4	1.2
90°	0.3	0.2	0.2	0.3	0.4	0.6	0.5	0.6	0.6	0.5	0.3
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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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5
2.5°	141.1	140.2	137.8	137.2	138.0	136.4	136.0	135.6	132.7	134.2	132.5
5°	118.0	117.7	112.8	113.8	112.8	111.0	110.3	112.0	109.1	109.7	110.1
7.5°	90.7	89.7	86.4	84.2	82.9	81.7	80.2	77.8	79.6	79.3	82.2
10°	73.6	71.5	69.5	66.4	64.7	63.0	61.3	60.4	58.2	57.9	56.9
12.5°	67.4	64.5	61.9	59.3	57.5	54.1	51.4	49.7	48.2	46.0	44.4
15°	59.3	56.8	53.4	50.8	48.0	45.0	42.3	40.1	39.1	37.1	36.1
17.5°	51.0	47.3	43.2	40.6	36.7	33.6	31.4	30.0	28.5	27.2	26.1
20°	41.1	36.3	31.9	28.6	25.5	22.5	21.5	19.8	19.1	18.7	19.0
22.5°	31.2	26.3	21.7	19.2	17.6	16.8	15.9	15.6	15.3	15.3	15.4
25°	22.9	18.7	16.5	15.6	15.0	14.5	14.2	13.9	13.8	13.7	13.8
27.5°	17.7	15.5	14.4	13.8	13.3	13.0	12.8	12.6	12.5	12.4	12.5
30°	15.3	14.2	13.4	12.7	12.2	11.6	11.4	11.3	11.4	11.5	11.4
32.5°	13.4	12.5	11.6	11.1	10.7	10.4	10.4	10.2	10.2	10.5	10.5
35°	12.1	11.3	10.6	9.9	9.4	9.1	8.9	8.7	8.8	8.8	9.1
37.5°	11.1	10.5	9.9	9.3	8.8	8.5	8.3	8.2	8.1	8.0	8.0
40°	10.4	10.0	9.5	8.9	8.4	8.1	7.9	7.8	7.7	7.6	7.6
42.5°	10.4	9.6	9.3	8.7	8.2	7.9	7.6	7.5	7.3	7.3	7.3
45°	11.4	9.8	9.3	8.7	8.1	7.7	7.5	7.2	7.1	7.1	7.0
47.5°	11.1	11.0	9.4	8.7	8.2	7.7	7.4	7.2	7.0	6.9	6.8
50°	10.5	11.5	10.5	8.9	8.2	7.6	7.3	7.1	6.8	6.8	6.8
52.5°	10.2	10.7	10.9	9.2	8.3	7.6	7.2	7.0	6.8	6.7	6.6
55°	9.4	10.1	10.5	9.1	8.3	7.5	7.1	6.8	6.6	6.5	6.5
57.5°	8.7	9.1	10.1	9.1	8.0	7.4	6.9	6.6	6.5	6.4	6.3
59°	8.4	8.4	9.0	9.3	7.9	7.3	6.8	6.5	6.4	6.3	6.1
60°	8.2	8.2	8.5	9.5	7.8	7.2	6.8	6.5	6.2	6.2	6.1
62.5°	7.9	7.6	7.8	8.9	7.6	7.1	6.6	6.3	6.1	6.1	6.0
65°	7.5	7.2	7.2	7.4	7.1	6.8	6.5	6.1	5.8	5.8	5.9
67.5°	7.1	6.8	6.7	6.7	6.5	6.5	6.1	5.8	5.7	5.7	5.7
70°	6.5	6.3	6.2	6.1	6.1	6.0	5.7	5.5	5.4	5.4	5.4
72.5°	5.9	5.7	5.6	5.6	5.5	5.4	5.2	5.0	5.0	5.0	5.0
75°	5.3	5.0	5.0	4.9	4.9	4.8	4.6	4.5	4.4	4.5	4.6
77.5°	4.5	4.3	4.2	4.2	4.2	4.2	3.9	3.9	3.9	4.0	4.0
80°	3.7	3.6	3.5	3.5	3.5	3.5	3.3	3.2	3.2	3.3	3.4
82.5°	2.8	2.7	2.7	2.8	2.8	2.8	2.6	2.4	2.4	2.6	2.8
85°	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.7	1.7	1.8	2.0
87.5°	1.0	1.1	1.0	0.9	1.1	1.0	1.0	0.9	1.0	1.1	1.2
90°	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2
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



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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
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: P227365

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

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5
2.5°	134.0	132.7	132.0	134.7	134.5	132.1	132.1	133.8	133.9	132.5	134.1
5°	110.6	109.2	110.5	109.4	110.0	109.9	110.9	109.2	109.9	109.2	107.7
7.5°	82.0	84.7	86.1	84.3	86.6	87.8	86.1	87.8	85.2	83.0	85.1
10°	56.4	59.4	58.9	61.8	62.9	63.5	64.7	63.2	61.4	60.8	59.3
12.5°	43.8	43.1	42.9	44.1	44.8	43.8	44.6	43.7	42.7	41.1	41.0
15°	34.2	33.2	32.5	31.2	30.7	30.9	31.3	31.3	29.4	29.5	30.2
17.5°	26.0	25.7	25.2	24.1	23.4	23.6	23.5	23.1	22.9	23.1	23.9
20°	19.5	19.3	19.6	19.9	19.7	19.8	19.4	19.0	18.9	19.0	19.2
22.5°	15.4	15.7	16.1	16.6	16.7	17.1	17.0	17.1	16.8	16.6	16.2
25°	14.1	14.2	14.0	14.1	14.1	14.5	14.4	14.4	14.1	14.0	14.1
27.5°	12.4	12.4	12.4	12.5	12.5	12.7	12.9	12.7	12.4	12.4	12.4
30°	11.5	11.4	11.3	11.4	11.3	11.4	11.6	11.6	11.4	11.2	11.3
32.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.6	10.4	10.4	10.3	10.3
35°	9.3	9.4	9.6	9.7	9.7	9.7	9.8	9.6	9.5	9.4	9.4
37.5°	8.0	8.2	8.7	8.9	9.0	9.1	9.2	9.1	8.9	8.7	8.6
40°	7.6	7.6	7.8	8.1	8.4	8.5	8.7	8.4	8.3	8.1	7.9
42.5°	7.3	7.4	7.4	7.5	7.6	7.7	7.9	7.7	7.6	7.4	7.2
45°	7.1	7.1	7.1	7.1	7.0	7.0	7.1	6.9	6.8	6.8	6.8
47.5°	6.9	6.8	6.8	6.7	6.6	6.5	6.5	6.4	6.4	6.4	6.4
50°	6.8	6.6	6.5	6.5	6.3	6.3	6.3	6.1	6.1	6.1	6.1
52.5°	6.5	6.5	6.4	6.3	6.2	6.1	6.1	6.0	5.9	5.9	5.9
55°	6.5	6.4	6.2	6.1	6.1	6.1	6.1	6.0	5.8	5.8	5.8
57.5°	6.2	6.3	6.2	6.1	6.1	6.1	6.1	5.9	5.8	5.7	5.7
59°	6.1	6.2	6.1	6.1	6.0	6.1	6.1	5.8	5.7	5.7	5.7
60°	6.1	6.1	6.1	6.0	6.0	6.1	6.0	5.9	5.7	5.5	5.6
62.5°	6.0	6.0	5.9	5.9	5.8	5.9	5.8	5.7	5.5	5.4	5.3
65°	5.8	5.8	5.7	5.7	5.7	5.7	5.7	5.5	5.4	5.2	5.2
67.5°	5.7	5.7	5.6	5.6	5.5	5.5	5.5	5.4	5.1	5.0	5.0
70°	5.4	5.4	5.4	5.3	5.2	5.3	5.4	5.1	4.9	4.7	4.6
72.5°	5.1	5.0	5.0	5.0	5.0	5.0	5.1	4.9	4.6	4.4	4.3
75°	4.6	4.6	4.6	4.6	4.6	4.7	4.7	4.5	4.2	4.0	3.9
77.5°	4.0	4.1	4.1	4.1	4.1	4.2	4.2	4.1	3.9	3.7	3.5
80°	3.5	3.5	3.5	3.5	3.6	3.6	3.5	3.5	3.4	3.2	2.9
82.5°	2.9	2.9	2.9	2.9	2.9	2.8	2.7	2.8	2.8	2.7	2.4
85°	2.3	2.3	2.3	2.4	2.4	2.1	1.9	1.9	2.1	2.0	1.9
87.5°	1.3	1.3	1.4	1.7	1.5	1.4	1.2	1.3	1.2	1.3	1.1
90°	0.3	0.2	0.2	0.1	0.2	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°	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: P227365
 CATALOG NUMBER: IST-AF-XXX-LED-E1-SLR-8030-XXB

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
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	59°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
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: P227365
 NUMBER: IST-AF-XXX-LED-E1-SLR-8030-XXB

REPORT NUMBER: P
 CATALOG NUMBER:

<u>DISTRIBUTION (continued):</u>											<u>CANDELA DISTRIBUTION:</u>	
160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	110°	0.0
134.3	134.6	135.3	135.0	137.6	136.9	138.7	141.1	143.4	142.3	142.6	112.5°	0.0
110.4	110.8	107.8	109.6	112.3	111.2	110.8	114.4	113.6	117.7	114.3	115°	0.0
81.8	80.8	79.4	78.7	76.7	76.7	80.4	82.1	81.8	84.7	87.6	117.5°	0.0
57.5	56.3	54.6	54.1	56.1	57.1	58.7	60.4	62.6	65.8	67.7	120°	0.0
42.2	41.8	42.2	43.4	45.2	46.5	49.0	51.9	54.4	57.0	59.5	122.5°	0.0
31.9	32.7	33.7	34.5	35.9	38.4	39.7	43.0	45.2	47.5	50.4	125°	0.0
24.8	25.3	25.5	25.8	27.0	28.8	28.8	32.1	35.0	38.0	40.5	127.5°	0.0
18.9	18.9	18.1	18.6	18.7	18.6	19.5	21.4	23.3	25.3	29.1	130°	0.0
15.8	15.3	15.1	15.0	15.1	15.4	16.0	16.7	17.0	17.9	19.4	132.5°	0.0
14.0	13.9	13.7	13.7	13.9	13.9	14.5	15.1	15.3	15.5	16.1	135°	0.0
12.4	12.5	12.7	12.7	12.7	12.9	13.3	13.9	14.2	14.2	14.6	137.5°	0.0
11.2	11.3	11.4	11.6	11.6	11.7	12.0	12.6	12.8	13.2	13.6	140°	0.0
10.4	10.5	10.5	10.5	10.5	10.5	10.9	11.5	11.8	12.0	12.3	142.5°	0.0
9.5	9.4	9.4	9.4	9.2	9.1	9.3	9.8	9.9	10.2	10.7	145°	0.0
8.5	8.3	8.1	8.1	8.1	8.2	8.6	9.1	9.2	9.4	9.9	147.5°	0.0
7.6	7.5	7.5	7.6	7.6	7.8	8.1	8.7	8.7	9.0	9.4	150°	0.0
7.1	7.1	7.1	7.2	7.2	7.3	7.7	8.3	8.4	8.7	9.1	152.5°	0.0
6.8	6.8	6.8	6.8	6.8	7.0	7.4	8.0	8.3	8.5	9.0	155°	0.0
6.5	6.5	6.5	6.6	6.6	6.8	7.2	7.9	8.0	8.3	9.1	157.5°	0.0
6.2	6.4	6.3	6.4	6.5	6.6	7.1	7.7	7.9	8.4	9.2	160°	0.0
6.1	6.1	6.1	6.1	6.3	6.4	6.8	7.5	7.8	8.4	9.7	162.5°	0.0
6.0	5.8	5.8	5.9	6.1	6.2	6.6	7.3	7.7	8.3	9.6	165°	0.0
5.9	5.7	5.6	5.7	5.8	5.9	6.4	7.1	7.6	8.1	9.3	167.5°	0.0
5.7	5.5	5.4	5.5	5.7	5.8	6.2	6.9	7.3	7.9	8.9	170°	0.0
5.6	5.4	5.4	5.4	5.6	5.7	6.1	6.8	7.2	8.0	9.1	172.5°	0.0
5.3	5.2	5.2	5.3	5.3	5.4	5.9	6.6	6.9	8.2	7.6	175°	0.0
5.0	5.0	5.0	5.0	5.1	5.2	5.7	6.5	6.6	7.1	6.5	177.5°	0.0
4.9	4.9	4.9	4.9	4.9	5.0	5.5	6.2	6.3	6.2	6.0	180°	0.0
4.6	4.6	4.6	4.6	4.6	4.7	5.2	5.8	5.8	5.7	5.7		
4.3	4.2	4.2	4.2	4.2	4.3	4.8	5.4	5.4	5.3	5.3		
3.9	3.9	3.9	3.9	3.9	3.9	4.3	5.0	4.9	4.8	4.7		
3.4	3.4	3.5	3.4	3.3	3.2	3.7	4.4	4.4	4.3	4.2		
2.9	2.8	2.9	2.8	2.7	2.7	3.1	3.7	3.8	3.7	3.5		
2.4	2.3	2.3	2.3	2.0	2.0	2.4	3.0	3.0	2.9	2.8		
1.8	1.7	1.7	1.6	1.3	1.3	1.7	2.2	2.3	2.0	1.9		
0.9	0.9	0.9	0.7	0.6	0.6	0.9	1.3	1.3	1.1	0.9		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	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		

'227365
 IST-AF-XXX-LED-E1-SLR-8030-XXB

REPORT NUMBER: P227365
 CATALOG NUMBER: IST-AF-XX

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	154.5	154.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	144.6	145.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	116.8	119.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	88.3	92.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	70.8	73.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	62.1	65.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	53.3	57.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	43.7	48.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	33.4	38.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	23.5	27.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	17.1	18.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	15.2	15.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	14.2	14.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	12.8	13.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	11.3	11.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	10.5	10.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	10.0	10.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	9.6	9.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	9.4	9.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	9.5	10.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	10.7	10.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	10.9	9.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	10.0	9.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	9.0	8.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°	8.0	7.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	7.5	7.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	6.8	7.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	6.4	6.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	6.1	6.4
										70°	5.7	5.9
										72.5°	5.4	5.4
										75°	4.8	4.9
										77.5°	4.2	4.2
										80°	3.5	3.5
										82.5°	2.7	2.6
										85°	1.7	1.7
										87.5°	0.8	0.6
										90°	0.0	0.0
										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: P227365

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

X-LED-E1-SLR-8030-XXB

tinued):										CANDELA DISTRIBUTION (continued):		
225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	110°	0.0	0.0	0.0
148.8	151.0	152.8	152.4	156.1	158.3	158.7	160.9	163.1	112.5°	0.0	0.0	0.0
121.7	124.8	127.8	130.0	135.8	140.6	144.3	148.3	152.9	115°	0.0	0.0	0.0
97.0	99.6	104.5	108.1	114.2	119.8	125.2	131.4	136.7	117.5°	0.0	0.0	0.0
76.0	79.3	83.9	90.5	96.0	102.4	109.2	115.1	124.0	120°	0.0	0.0	0.0
68.3	70.4	74.1	77.3	84.1	90.9	98.6	106.7	114.8	122.5°	0.0	0.0	0.0
60.4	64.0	67.5	72.1	78.1	85.5	93.8	102.5	111.7	125°	0.0	0.0	0.0
52.7	57.5	61.3	66.3	73.0	82.3	93.2	104.0	114.7	127.5°	0.0	0.0	0.0
43.2	47.7	54.5	59.5	68.2	80.0	93.9	108.9	123.4	130°	0.0	0.0	0.0
34.0	38.8	46.5	54.0	63.6	78.7	96.7	116.9	136.3	132.5°	0.0	0.0	0.0
24.3	30.9	38.5	47.9	59.6	77.9	100.6	126.9	152.9	135°	0.0	0.0	0.0
18.2	22.7	32.0	42.3	55.1	76.5	104.7	136.1	164.2	137.5°	0.0	0.0	0.0
16.2	19.4	25.5	36.4	49.6	73.7	107.7	144.8	174.6	140°	0.0	0.0	0.0
14.2	16.7	21.5	30.7	44.6	69.5	109.1	149.5	181.7	142.5°	0.0	0.0	0.0
12.4	14.8	19.7	28.5	42.1	64.7	108.8	154.1	190.7	145°	0.0	0.0	0.0
11.3	13.4	18.9	27.9	40.1	60.3	109.1	161.6	204.0	147.5°	0.0	0.0	0.0
10.5	12.8	18.3	26.8	39.2	57.8	110.0	168.2	215.4	150°	0.0	0.0	0.0
10.5	12.7	16.7	25.1	38.7	58.1	110.4	173.3	223.9	152.5°	0.0	0.0	0.0
11.0	11.9	15.5	24.2	39.0	59.8	109.9	178.5	232.2	155°	0.0	0.0	0.0
10.5	11.1	14.7	24.0	39.0	61.1	111.4	184.9	243.0	157.5°	0.0	0.0	0.0
9.9	10.3	14.5	23.8	38.2	62.3	117.2	197.0	257.2	160°	0.0	0.0	0.0
9.2	9.7	14.2	23.4	37.4	63.7	127.5	217.2	280.6	162.5°	0.0	0.0	0.0
8.3	9.3	13.7	22.7	36.8	66.4	138.0	237.7	308.6	165°	0.0	0.0	0.0
8.0	8.9	12.6	21.2	36.3	69.3	149.3	257.3	333.7	167.5°	0.0	0.0	0.0
7.8	8.6	11.6	20.1	35.8	70.8	152.7	264.7	343.4	170°	0.0	0.0	0.0
7.6	8.4	11.1	19.2	35.3	70.8	155.1	267.6	344.8	172.5°	0.0	0.0	0.0
7.4	8.1	10.0	17.2	33.5	70.8	155.4	269.4	340.7	175°	0.0	0.0	0.0
7.0	7.8	10.1	16.2	30.4	67.4	145.6	260.7	324.4	177.5°	0.0	0.0	0.0
6.7	7.6	10.6	16.4	27.1	58.9	127.3	233.5	289.5	180°	0.0	0.0	0.0
6.2	7.4	11.1	17.0	26.1	49.0	96.3	190.7	242.5				
5.7	7.3	11.5	17.4	25.1	40.3	66.7	135.2	181.5				
5.2	6.7	10.5	14.8	20.8	29.3	43.0	88.5	125.1				
4.5	5.4	7.6	10.4	15.3	20.5	25.4	53.4	81.8				
3.7	4.0	5.4	6.7	10.2	12.1	14.1	30.1	57.2				
2.8	2.8	3.7	4.2	5.7	6.7	8.4	18.5	46.4				
1.6	1.8	2.5	2.8	3.5	4.2	5.5	11.8	36.4				
0.6	0.8	1.5	1.7	1.9	2.4	3.1	6.8	11.3				
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	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	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				



REPORT NUMBER: P227365

CATALOG NUMBER: IST-AF-XXX-LED-E1-SLR-8030->

SLR-8030-XXB

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	154.5	154.5	154.5	154.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	165.3	167.0	168.4	169.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	157.9	161.7	166.4	170.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	144.6	149.5	157.0	161.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	132.0	139.1	147.4	154.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	123.4	132.3	140.2	147.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	121.0	130.1	137.2	144.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	125.8	134.8	140.9	145.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	136.9	146.5	150.4	150.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	152.0	162.2	162.2	159.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	172.1	179.4	175.4	169.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	186.4	193.2	186.2	176.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	198.2	203.2	194.3	182.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	208.6	212.3	200.5	188.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	221.0	222.3	207.0	194.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	234.8	235.9	216.3	200.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	251.0	247.0	223.1	206.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	261.0	254.5	228.1	209.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	268.8	260.0	230.4	211.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	278.5	268.1	234.4	214.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	291.3	279.4	244.5	223.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	317.4	302.7	262.8	238.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	347.5	333.5	292.0	264.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	371.5	362.2	318.0	287.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°	380.4	376.4	336.4	307.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	383.7	387.2	346.2	319.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	386.0	401.1	377.9	354.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	381.3	403.3	390.7	376.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	360.8	387.1	384.7	372.2
								70°	318.7	348.1	356.6	338.8
								72.5°	239.8	276.2	322.6	294.7
								75°	156.2	189.9	275.5	252.5
								77.5°	97.8	118.5	196.5	176.8
								80°	65.1	76.2	124.7	113.6
								82.5°	49.0	54.0	85.8	80.7
								85°	25.8	32.9	66.7	84.6
								87.5°	9.7	10.8	50.2	75.6
								90°	0.0	0.0	0.1	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	0.0	0.0	0.0	0.0
								97.5°	0.0	0.0	0.0	0.0
								100°	0.0	0.0	0.0	0.0
								102.5°	0.0	0.0	0.0	0.0
								105°	0.0	0.0	0.0	0.0
								107.5°	0.0	0.0	0.0	0.0



REPORT NUMBER: P227365

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

(XB

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
154.5	154.5	154.5	154.5	154.5	154.5	154.5	110°	0.0	0.0	0.0	0.0	0.0
170.5	171.9	172.7	172.1	173.1	173.4	172.3	112.5°	0.0	0.0	0.0	0.0	0.0
173.6	177.5	180.4	182.3	183.1	183.8	183.5	115°	0.0	0.0	0.0	0.0	0.0
167.8	173.8	179.1	182.7	184.0	184.9	184.1	117.5°	0.0	0.0	0.0	0.0	0.0
161.3	167.6	172.6	176.2	176.1	177.1	175.4	120°	0.0	0.0	0.0	0.0	0.0
155.3	161.4	165.8	165.7	164.6	161.8	161.3	122.5°	0.0	0.0	0.0	0.0	0.0
150.5	153.7	154.8	154.6	151.4	149.8	149.6	125°	0.0	0.0	0.0	0.0	0.0
148.1	148.0	145.4	142.7	139.7	139.5	137.5	127.5°	0.0	0.0	0.0	0.0	0.0
148.5	143.4	138.7	134.0	130.8	130.1	130.3	130°	0.0	0.0	0.0	0.0	0.0
153.5	144.4	135.7	130.9	127.1	126.0	126.5	132.5°	0.0	0.0	0.0	0.0	0.0
159.7	147.6	136.7	129.4	126.3	125.0	125.2	135°	0.0	0.0	0.0	0.0	0.0
163.9	151.2	140.1	131.0	126.9	125.6	126.4	137.5°	0.0	0.0	0.0	0.0	0.0
169.2	156.1	144.7	135.3	129.1	127.4	128.0	140°	0.0	0.0	0.0	0.0	0.0
174.5	161.5	151.1	140.5	132.9	129.9	130.7	142.5°	0.0	0.0	0.0	0.0	0.0
180.1	167.7	157.2	147.6	138.7	133.9	135.0	145°	0.0	0.0	0.0	0.0	0.0
186.8	175.0	166.0	157.1	148.0	143.9	144.4	147.5°	0.0	0.0	0.0	0.0	0.0
193.1	182.0	176.3	169.7	164.3	158.2	158.2	150°	0.0	0.0	0.0	0.0	0.0
196.9	191.2	189.7	187.8	184.6	180.2	179.3	152.5°	0.0	0.0	0.0	0.0	0.0
201.6	202.2	205.8	209.6	210.5	206.2	204.9	155°	0.0	0.0	0.0	0.0	0.0
210.3	216.9	228.8	239.1	241.1	244.7	240.6	157.5°	0.0	0.0	0.0	0.0	0.0
222.6	234.8	254.8	271.7	276.5	276.8	277.1	160°	0.0	0.0	0.0	0.0	0.0
236.6	254.0	280.6	300.6	309.2	311.5	309.8	162.5°	0.0	0.0	0.0	0.0	0.0
260.6	276.4	305.4	327.1	338.1	343.4	342.0	165°	0.0	0.0	0.0	0.0	0.0
284.3	304.0	329.6	350.9	362.7	368.6	369.9	167.5°	0.0	0.0	0.0	0.0	0.0
300.6	319.0	342.6	362.3	373.8	381.0	381.6	170°	0.0	0.0	0.0	0.0	0.0
310.5	327.3	350.4	367.7	379.3	385.3	387.5	172.5°	0.0	0.0	0.0	0.0	0.0
340.5	343.6	359.3	370.8	378.9	381.6	383.3	175°	0.0	0.0	0.0	0.0	0.0
354.6	341.8	340.0	347.1	347.8	346.0	343.7	177.5°	0.0	0.0	0.0	0.0	0.0
335.0	305.0	293.9	293.0	290.1	288.9	281.7	180°	0.0	0.0	0.0	0.0	0.0
291.0	247.7	228.2	217.5	224.0	223.7	216.3						
245.2	201.2	175.7	160.5	158.6	158.3	151.8						
199.1	157.9	135.6	128.2	119.3	116.6	117.7						
143.5	112.7	108.0	113.6	114.4	112.3	110.9						
90.4	84.8	89.3	99.6	105.7	103.0	104.0						
75.4	66.7	67.1	77.9	82.0	82.6	80.5						
83.7	66.8	54.8	53.4	52.0	32.7	45.6						
75.4	51.7	30.5	25.1	15.4	8.9	9.2						
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	0.0	0.0	0.0						



REPORT NUMBER: P227365

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

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
0.0	0.0	0.0	0.0	0.0	0.0	0°	154.5	154.5	154.5	154.5	154.5	154.5
0.0	0.0	0.0	0.0	0.0	0.0	2.5°	172.0	170.5	168.9	166.7	167.1	164.4
0.0	0.0	0.0	0.0	0.0	0.0	5°	181.1	178.5	175.0	170.5	166.3	160.9
0.0	0.0	0.0	0.0	0.0	0.0	7.5°	180.1	176.0	170.1	163.3	157.8	150.1
0.0	0.0	0.0	0.0	0.0	0.0	10°	172.0	166.6	161.8	154.8	147.6	140.9
0.0	0.0	0.0	0.0	0.0	0.0	12.5°	160.7	157.6	153.5	148.2	141.3	134.3
0.0	0.0	0.0	0.0	0.0	0.0	15°	148.4	148.6	146.1	144.7	141.2	135.7
0.0	0.0	0.0	0.0	0.0	0.0	17.5°	138.2	140.6	141.9	144.1	144.5	141.8
0.0	0.0	0.0	0.0	0.0	0.0	20°	131.4	134.7	138.9	145.0	151.3	154.1
0.0	0.0	0.0	0.0	0.0	0.0	22.5°	127.7	131.7	138.4	149.5	161.1	168.1
0.0	0.0	0.0	0.0	0.0	0.0	25°	126.9	132.4	141.7	155.2	170.3	180.1
0.0	0.0	0.0	0.0	0.0	0.0	27.5°	128.1	135.2	146.3	161.7	176.5	190.8
0.0	0.0	0.0	0.0	0.0	0.0	30°	131.9	140.2	152.3	168.8	184.2	198.4
0.0	0.0	0.0	0.0	0.0	0.0	32.5°	135.5	145.8	159.1	175.3	190.8	204.9
0.0	0.0	0.0	0.0	0.0	0.0	35°	141.3	151.7	165.3	180.2	195.3	211.2
0.0	0.0	0.0	0.0	0.0	0.0	37.5°	150.2	159.3	170.2	184.1	199.7	216.3
0.0	0.0	0.0	0.0	0.0	0.0	40°	162.9	168.9	176.0	186.9	201.9	219.7
0.0	0.0	0.0	0.0	0.0	0.0	42.5°	181.9	183.1	185.6	191.2	203.9	223.6
0.0	0.0	0.0	0.0	0.0	0.0	45°	206.4	202.6	200.4	199.7	208.3	226.1
0.0	0.0	0.0	0.0	0.0	0.0	47.5°	234.8	227.4	218.9	214.8	216.8	230.1
0.0	0.0	0.0	0.0	0.0	0.0	50°	271.8	259.7	243.0	231.2	230.2	241.9
0.0	0.0	0.0	0.0	0.0	0.0	52.5°	305.7	289.9	268.9	255.0	249.3	264.0
0.0	0.0	0.0	0.0	0.0	0.0	55°	337.7	325.6	301.8	284.5	282.5	293.2
0.0	0.0	0.0	0.0	0.0	0.0	57.5°	365.8	355.3	335.9	313.3	314.1	324.4
0.0	0.0	0.0	0.0	0.0	0.0	59°	380.4	371.6	353.6	330.6	332.4	346.5
0.0	0.0	0.0	0.0	0.0	0.0	60°	385.6	378.2	361.1	341.7	343.9	358.6
0.0	0.0	0.0	0.0	0.0	0.0	62.5°	385.2	380.4	368.0	358.9	370.1	380.9
0.0	0.0	0.0	0.0	0.0	0.0	65°	348.4	341.2	339.8	355.8	377.5	387.9
0.0	0.0	0.0	0.0	0.0	0.0	67.5°	277.1	280.5	293.9	321.4	357.9	373.0
						70°	205.8	211.8	229.7	264.2	314.3	340.4
						72.5°	151.3	157.3	173.8	211.6	258.5	281.7
						75°	118.8	120.6	132.5	162.1	203.8	222.7
						77.5°	109.7	104.3	99.4	115.3	137.4	153.7
						80°	102.2	91.8	80.4	85.2	90.5	107.8
						82.5°	79.3	72.5	63.5	69.6	72.2	72.7
						85°	46.4	41.3	52.3	74.1	73.3	64.2
						87.5°	16.4	21.2	23.9	41.1	49.7	43.0
						90°	0.0	0.2	0.7	0.8	1.2	0.4
						92.5°	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
						97.5°	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
						102.5°	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
						107.5°	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227365

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

CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
154.5	154.5	154.5	110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.3	160.1	159.9	112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156.7	151.7	150.2	115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.4	137.6	136.5	117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.2	125.8	124.7	120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126.5	120.4	119.1	122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128.7	122.0	121.3	125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.9	129.9	130.2	127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151.1	146.5	145.4	130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169.7	164.7	163.3	132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185.5	183.0	182.0	135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
196.9	198.1	197.1	137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
206.0	210.0	209.5	140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
215.4	223.0	223.4	142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
222.3	235.8	238.5	145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
231.2	249.2	252.1	147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
238.0	259.2	262.6	150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
244.6	267.3	271.1	152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.0	275.5	279.3	155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
256.2	283.3	287.1	157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
267.2	295.7	300.2	160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
290.9	318.6	325.0	162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
325.1	350.2	355.3	165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
356.0	371.7	373.0	167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
368.6	377.6	377.2	170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
377.9	379.0	376.8	172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
383.0	372.5	368.7	175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
369.8	355.3	350.3	177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
331.9	324.2	318.5	180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
282.3	262.8	259.1								
214.0	188.3	182.7								
149.5	118.7	111.2								
98.3	76.2	73.3								
63.7	50.6	49.7								
44.5	33.2	30.6								
27.3	11.1	10.6								
8.5	5.1	4.6								
0.2	0.3	0.3								
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	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								



359°	360°
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
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