

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: P226715

Luminaire Tested: **IST-AF-XXX-LED-E1-T4W-8030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35944)
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-T4W-8030-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 542.6 lumens
Efficiency: N/A
Efficacy: 41.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium - Semi-Cutoff
BUG Rating: B0 - U1 - G0

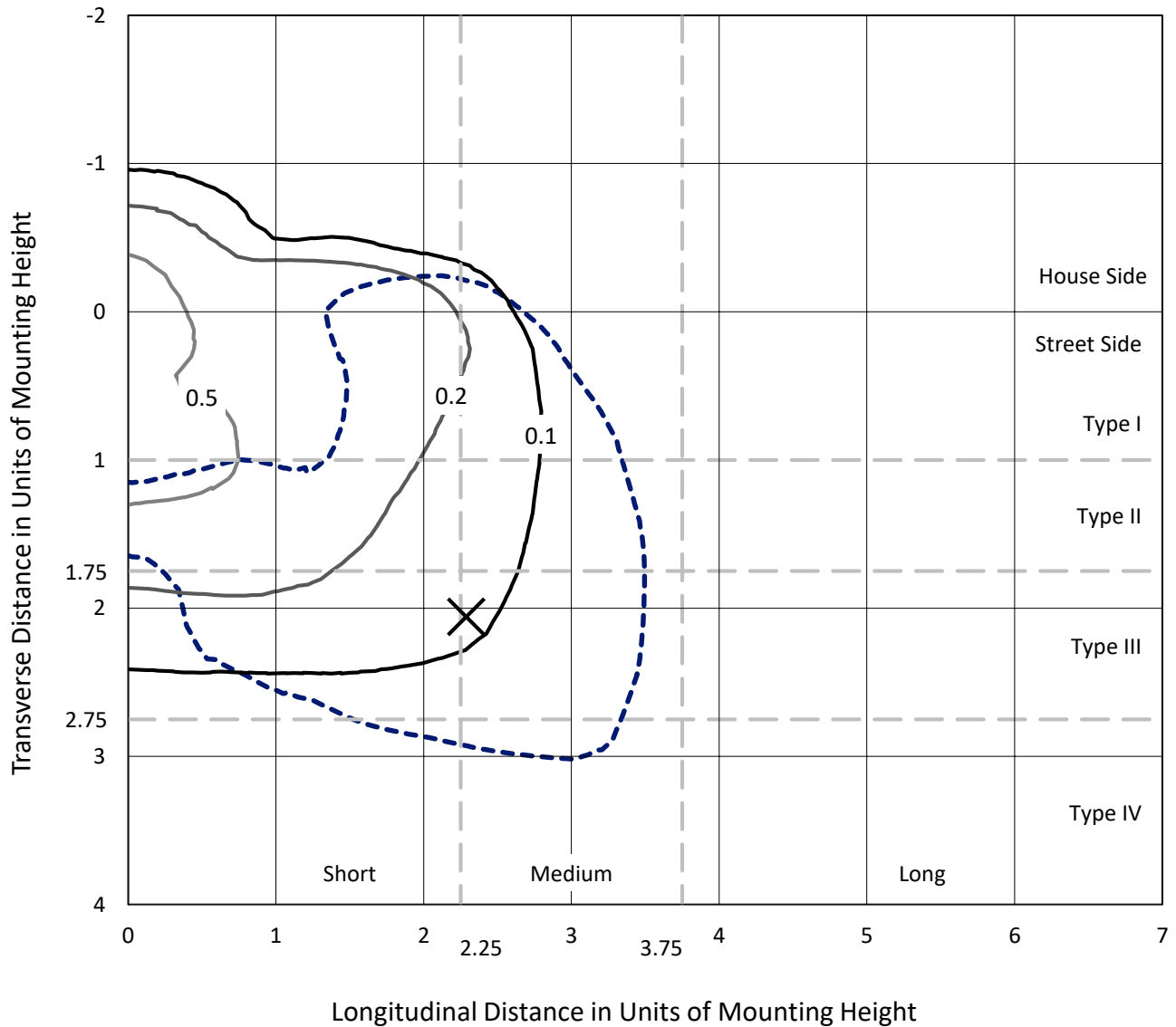
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P226715
 CATALOG NUMBER: IST-AF-XXX-LED-E1-T4W-8030-XXB

Iso-Footcandle Lines of Horizontal Illumination

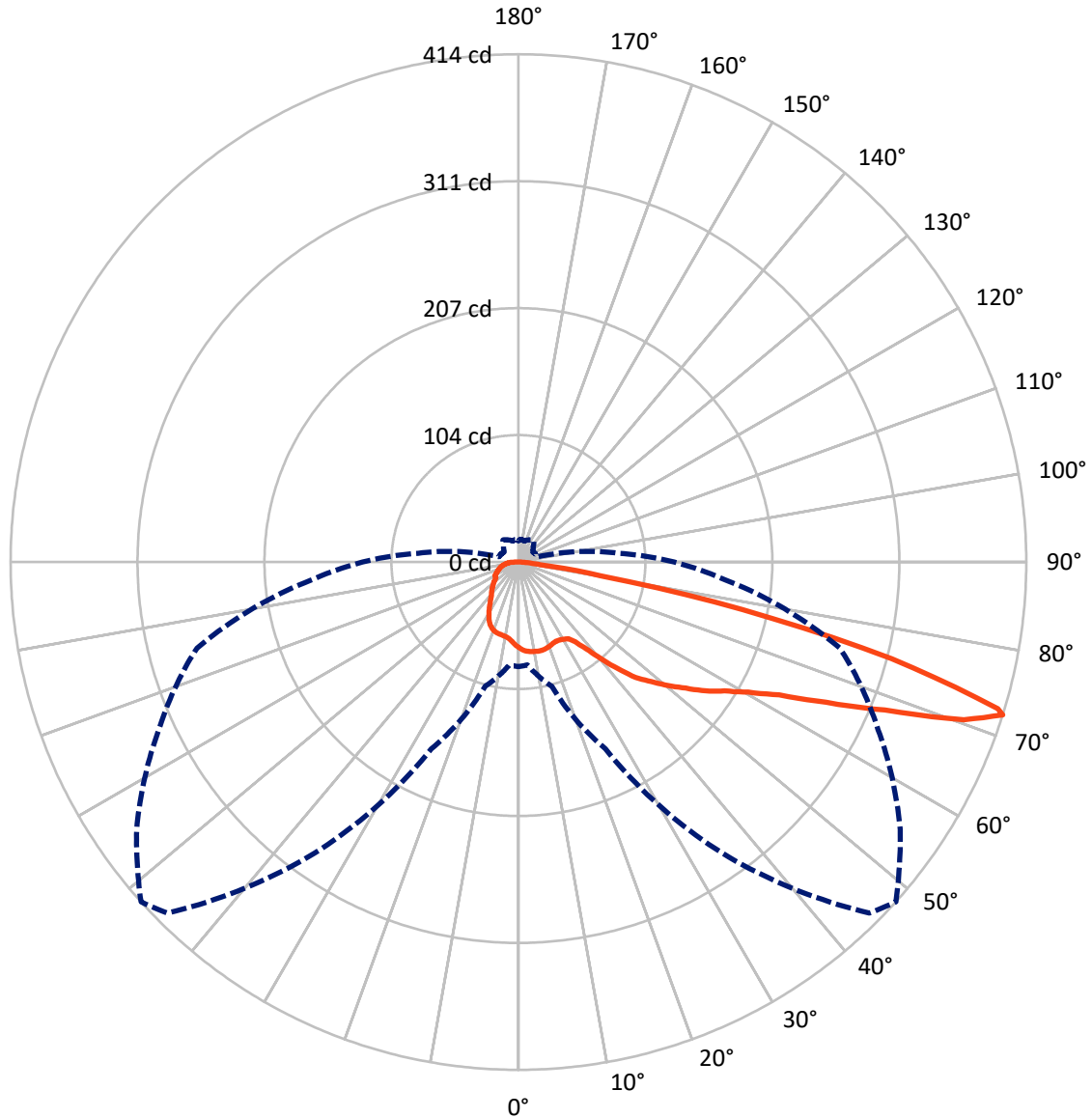
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Semi-Cutoff

REPORT NUMBER: P226715
CATALOG NUMBER: IST-AF-XXX-LED-E1-T4W-8030-XXB

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P226715

CATALOG NUMBER: IST-AF-XXX-LED-E1-T4W-8030-XXB

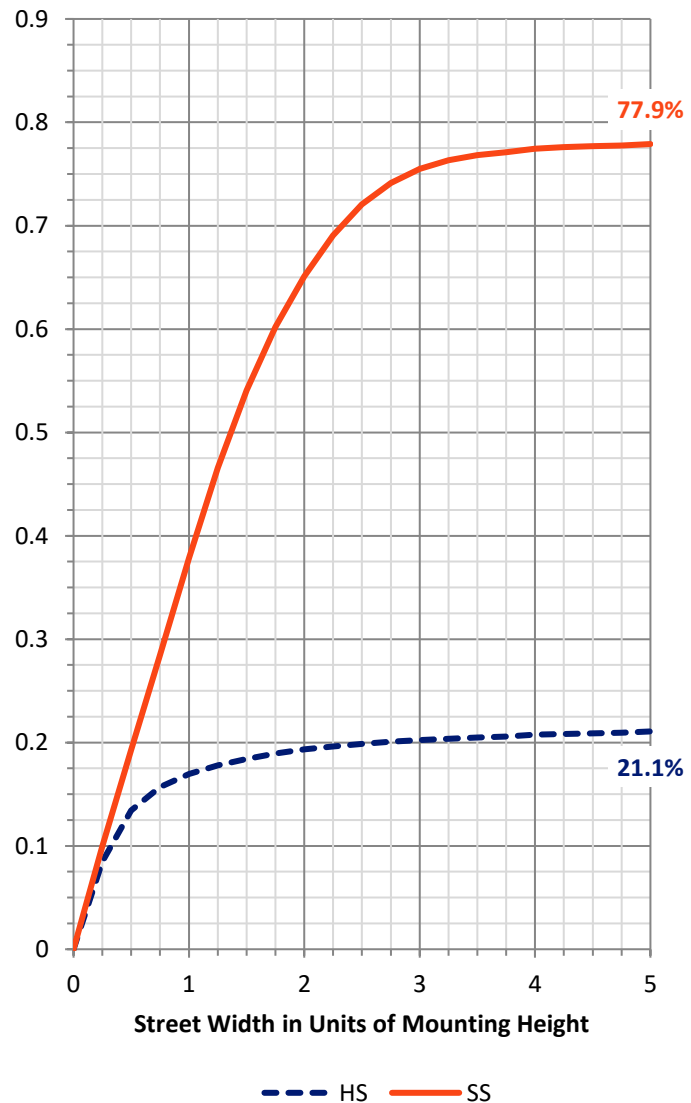
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	117.9	0.2	118.1
	% Fixture	21.7	0.0	21.8
Street Side	Lumens	424.5	0.1	424.5
	% Fixture	78.2	0.0	78.2
Total	Lumens	542.3	0.3	542.6
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	1.2
10°-20°	19.3	3.6
20°-30°	29.7	5.5
30°-40°	44.6	8.2
40°-50°	74.2	13.7
50°-60°	116.0	21.4
60°-70°	153.2	28.2
70°-80°	88.6	16.3
80°-90°	10.2	1.9
90°-100°	0.3	0.1
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°	542.3	99.9
0°-180°	542.6	100.0



REPORT NUMBER: P226715

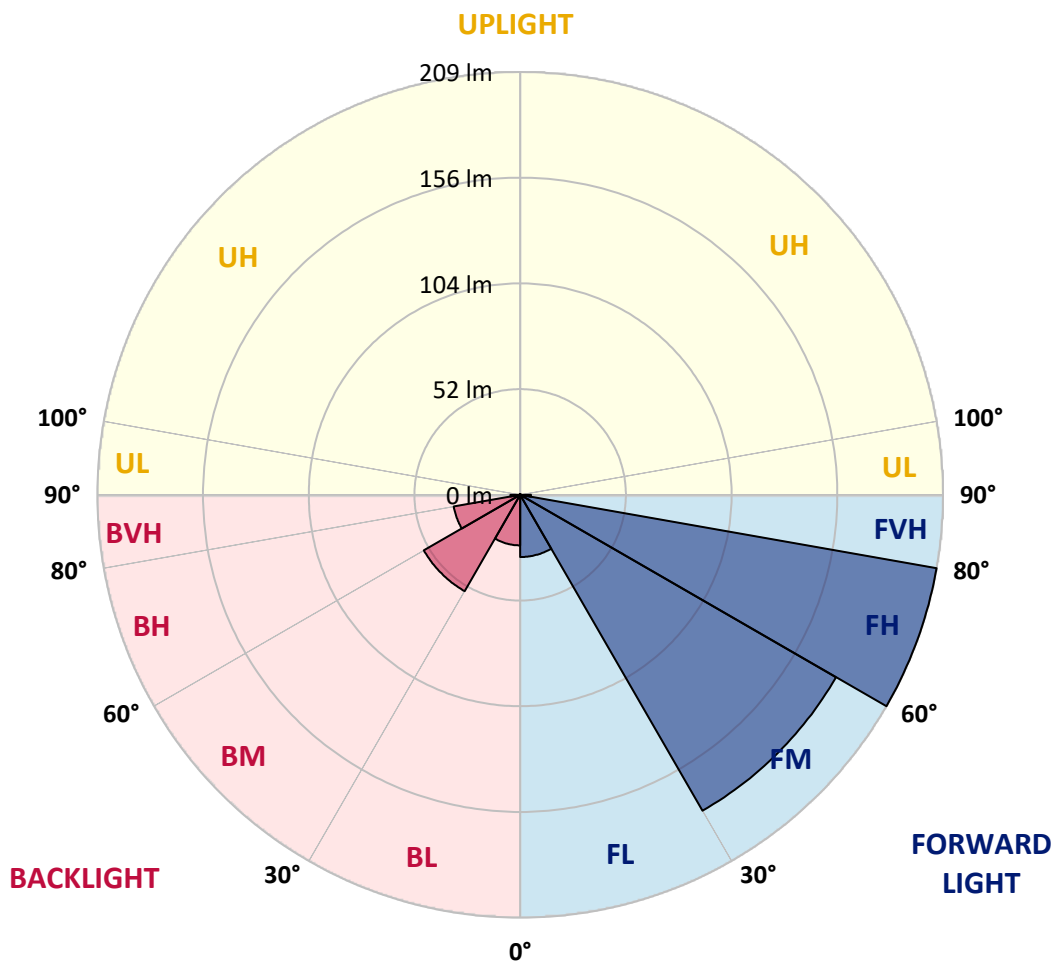
CATALOG NUMBER: IST-AF-XXX-LED-E1-T4W-8030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	30.7	5.7			
FM	(30°-60°)	179.9	33.2			
FH	(60°-80°)	208.5	38.4			G0/660
FVH	(80°-90°)	5.3	1.0			G0/10
BL	(0°-30°)	24.9	4.6	B0/110		
BM	(30°-60°)	54.8	10.1	B0/220		
BH	(60°-80°)	33.3	6.1	B0/110		G0/110
BVH	(80°-90°)	4.8	0.9			G0/10
UL	(90°-100°)	0.3	0.1		U1/10	
UH	(100°-180°)	0.2	0.0		U1/10	

BUG Rating: B0-U1-G0

Type IV Medium





REPORT NUMBER: P226715

CATALOG NUMBER: IST-AF-XXX-LED-E1-T4W-8030-XXB

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
2.5°	73.5	73.4	73.4	72.8	72.6	72.2	71.9	71.4	70.9	70.4	69.7
5°	77.0	77.3	77.0	76.0	74.8	73.6	73.1	72.0	70.5	69.2	67.9
7.5°	80.4	80.5	79.6	78.1	76.3	74.3	73.7	72.2	70.5	68.7	66.9
10°	82.9	83.0	81.7	79.5	77.0	74.8	74.1	72.6	70.6	68.6	66.3
12.5°	84.3	84.4	82.5	80.2	77.3	75.1	74.5	72.9	70.8	68.2	65.7
15°	84.1	84.3	82.7	80.2	77.1	75.2	74.4	73.0	70.4	67.8	65.2
17.5°	82.5	82.8	81.5	78.8	76.3	74.8	73.9	72.6	70.0	67.3	64.4
20°	79.4	79.8	79.3	76.6	74.9	73.7	73.1	71.9	69.4	66.7	63.7
22.5°	75.9	76.3	76.2	74.0	73.2	72.6	72.0	71.1	68.9	66.2	63.4
25°	73.4	73.7	73.5	71.6	71.9	71.9	71.5	70.8	68.9	66.3	63.4
27.5°	77.6	77.6	75.6	71.7	71.3	72.0	71.9	71.5	69.9	67.1	64.0
30°	92.9	91.7	88.0	78.3	73.3	73.0	73.0	72.7	71.3	68.9	66.0
32.5°	109.9	108.8	104.4	92.2	81.9	75.2	74.5	74.5	74.1	71.9	68.9
35°	125.1	125.0	121.5	108.4	95.2	82.6	79.8	77.9	77.8	76.8	74.5
37.5°	137.4	137.4	137.7	122.8	109.6	94.5	89.7	83.7	83.7	83.2	81.8
40°	151.4	152.1	152.8	135.8	125.1	108.7	103.3	94.2	91.5	92.3	92.6
42.5°	169.8	170.6	170.2	152.0	139.1	125.6	118.9	108.0	101.2	102.6	105.9
45°	182.3	182.6	186.0	168.8	156.9	139.9	134.3	119.2	112.5	115.5	121.3
47.5°	196.4	197.1	197.7	187.9	177.6	156.1	145.8	130.2	125.8	130.3	139.5
50°	210.1	209.1	210.6	210.2	197.3	170.5	158.2	140.4	140.7	146.7	161.8
52.5°	222.1	218.6	222.1	226.4	222.6	185.3	170.9	152.4	157.0	164.3	188.2
55°	231.3	223.0	228.8	241.1	240.2	198.4	185.5	168.5	176.1	186.1	220.2
57.5°	212.5	213.5	229.6	250.9	250.5	211.6	198.2	188.6	197.9	209.1	258.1
60°	194.9	199.5	224.3	252.5	257.7	226.0	215.4	211.4	220.0	233.7	294.5
62.5°	185.7	190.0	215.7	249.6	269.1	247.4	238.5	235.4	247.2	262.5	326.9
65°	188.6	191.2	215.2	254.0	282.2	279.6	275.8	270.7	276.6	290.9	341.6
67.5°	180.4	184.8	210.6	261.8	306.2	319.0	322.2	316.7	311.7	309.8	320.2
70°	134.3	138.5	165.6	229.6	325.9	387.3	385.3	366.9	333.5	305.7	250.2
72°	85.3	84.1	104.8	168.2	289.7	404.8	414.1	380.0	323.6	271.4	169.9
72.5°	62.0	67.6	87.0	149.5	275.2	395.2	408.8	375.8	310.6	256.4	149.5
75°	15.1	16.0	20.9	53.6	161.2	297.4	314.4	290.3	226.7	152.2	66.3
77.5°	10.2	10.6	13.8	18.9	47.4	169.6	186.6	160.3	101.4	51.8	29.5
80°	7.6	7.9	10.0	13.4	19.7	57.8	68.2	54.2	25.3	28.7	21.0
82.5°	5.4	5.5	7.6	9.8	13.1	13.5	18.0	19.9	16.4	18.8	12.3
85°	3.7	3.7	5.5	6.8	8.3	6.7	7.2	10.0	11.1	11.2	7.5
87.5°	2.0	2.2	3.2	4.3	4.3	3.1	3.4	5.1	6.2	6.7	4.5
90°	0.7	0.7	1.3	1.7	1.0	0.8	0.7	1.0	1.5	2.1	1.4
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: P226715

CATALOG NUMBER: IST-AF-XXX-LED-E1-T4W-8030-XXB

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
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: P226715

CATALOG NUMBER: IST-AF-XXX-LED-E1-T4W-8030-XXB

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
2.5°	69.5	69.0	68.4	68.1	67.9	67.6	67.3	67.1	67.1	66.8	66.9
5°	67.3	66.6	65.7	65.1	65.0	65.0	65.2	65.2	65.2	65.0	65.3
7.5°	66.2	65.4	64.1	63.4	62.9	62.8	63.1	63.7	64.1	63.8	64.1
10°	65.4	64.5	63.1	62.3	61.9	61.7	61.9	62.6	63.6	63.6	63.9
12.5°	64.6	63.5	62.1	61.5	61.2	61.2	61.5	62.0	63.1	63.5	63.7
15°	63.8	62.6	61.4	60.5	60.5	60.8	61.2	61.7	62.7	63.4	63.6
17.5°	63.0	61.8	60.8	60.0	60.0	60.4	60.8	61.5	62.2	63.2	63.2
20°	62.3	61.3	60.0	59.3	59.3	59.5	60.0	60.7	61.2	62.3	62.3
22.5°	61.9	60.7	59.4	58.5	58.1	57.9	58.4	59.1	59.7	60.7	60.8
25°	61.8	60.4	58.8	57.1	56.0	55.7	56.0	56.8	57.3	58.1	58.3
27.5°	62.3	61.0	58.6	55.4	53.3	52.4	52.7	53.2	53.4	54.2	54.6
30°	64.2	62.6	59.0	53.7	49.8	48.2	48.2	48.3	48.6	49.3	49.3
32.5°	67.3	65.8	60.4	51.9	46.3	44.1	43.5	43.1	43.1	43.0	43.1
35°	73.0	71.7	62.9	49.8	42.4	40.0	38.6	37.9	37.2	36.9	36.8
37.5°	81.1	80.0	66.3	47.5	39.0	36.6	34.9	33.5	32.7	32.7	33.1
40°	93.3	92.2	70.2	44.8	35.8	34.0	32.3	30.8	29.9	30.0	30.4
42.5°	108.4	105.0	74.4	41.2	33.2	32.3	30.4	29.1	28.3	27.8	27.7
45°	125.9	120.3	78.3	37.8	30.4	30.8	29.0	27.5	26.4	25.2	25.0
47.5°	147.8	135.5	81.8	34.4	27.3	29.2	27.5	26.1	24.5	23.0	22.7
50°	170.6	153.1	84.8	30.8	24.6	27.5	26.0	24.2	21.9	20.5	20.5
52.5°	197.0	174.2	88.6	26.8	22.4	25.6	24.1	21.7	19.8	19.7	19.7
55°	226.3	196.3	91.3	23.6	20.8	23.5	22.8	22.1	21.5	21.6	21.7
57.5°	257.0	219.3	88.9	21.4	19.4	23.1	25.1	24.2	22.2	22.1	22.0
60°	283.5	237.3	75.9	20.0	18.4	23.8	26.9	24.2	22.2	23.2	23.3
62.5°	300.8	245.8	50.5	18.2	16.9	22.5	26.3	23.5	22.3	25.2	25.4
65°	298.4	236.3	29.0	16.9	16.0	20.7	25.4	22.6	20.8	22.4	22.0
67.5°	263.3	198.0	21.0	16.4	15.3	19.4	23.8	21.3	19.4	21.4	20.5
70°	189.2	134.8	18.1	15.9	14.8	17.9	22.7	20.5	18.6	20.0	18.7
72°	126.9	82.0	16.6	15.5	14.3	17.0	22.0	19.9	17.9	18.7	17.2
72.5°	108.1	64.7	16.2	15.3	14.2	16.8	21.7	19.8	17.7	18.5	17.1
75°	40.4	25.3	14.4	14.2	13.1	15.6	20.8	19.0	16.9	16.7	16.1
77.5°	20.8	16.1	12.3	12.5	11.7	14.2	19.8	17.9	15.6	14.7	14.4
80°	15.1	11.6	9.9	10.6	10.0	12.8	18.3	16.3	14.2	13.2	12.8
82.5°	9.5	7.2	7.6	8.4	8.5	11.3	16.7	14.6	12.6	11.8	11.2
85°	4.6	4.3	5.4	6.2	6.8	9.6	15.3	13.0	11.0	9.4	9.5
87.5°	2.4	3.3	3.2	4.2	5.3	7.9	13.5	10.6	8.8	7.1	7.2
90°	0.6	0.9	0.9	1.7	2.1	3.4	8.7	6.1	5.9	2.5	2.2
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: P226715

CATALOG NUMBER: IST-AF-XXX-LED-E1-T4W-8030-XXB

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
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

(END OF REPORT)