

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: P226723

Luminaire Tested: **IST-AF-350-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226723
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-350-LED-E1-T4W-7030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2213 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium - Semi-Cutoff
BUG Rating: B1 - U1 - G1

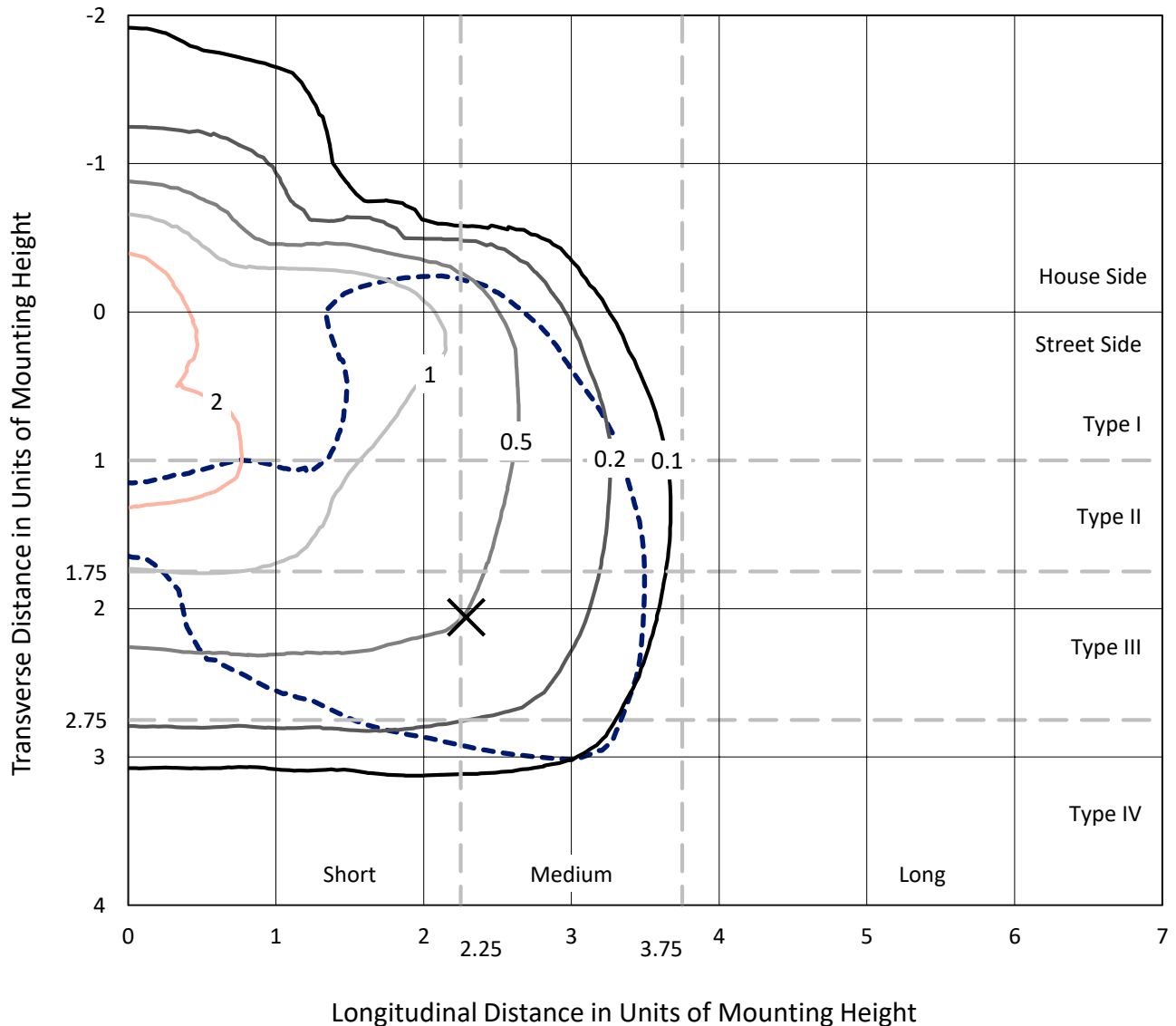
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P226723
CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7030

Iso-Footcandle Lines of Horizontal Illumination

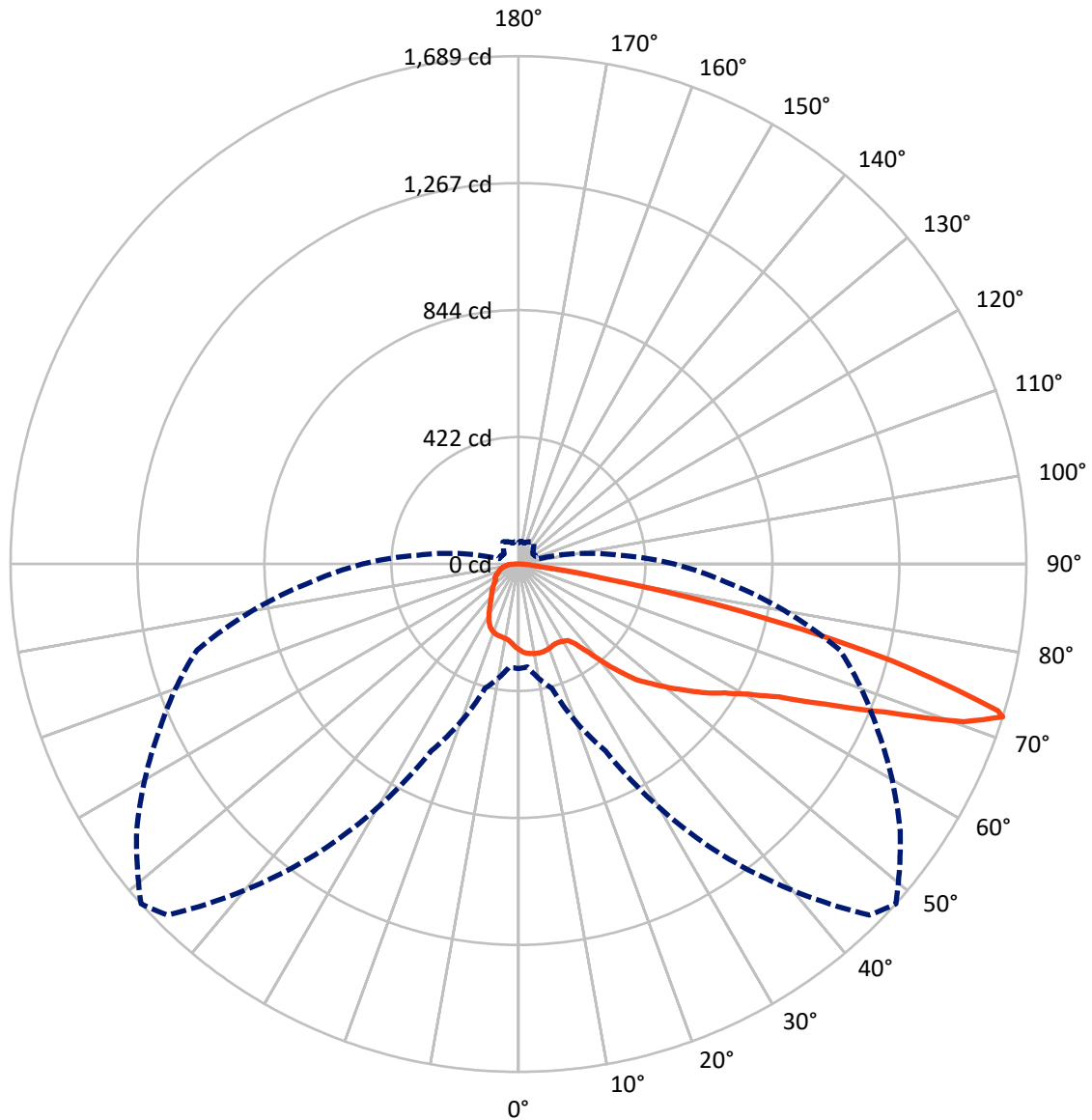
× Max cd
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Medium - Semi-Cutoff

REPORT NUMBER: P226723
CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P226723

CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	480.6	1.0	481.6
	% Fixture	21.7	0.0	21.8
Street Side	Lumens	1731.0	0.4	1731.4
	% Fixture	78.2	0.0	78.2
Total	Lumens	2211.7	1.3	2213.0
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.9	1.2
10°-20°	78.6	3.6
20°-30°	121.3	5.5
30°-40°	181.7	8.2
40°-50°	302.6	13.7
50°-60°	472.9	21.4
60°-70°	624.7	28.2
70°-80°	361.4	16.3
80°-90°	41.4	1.9
90°-100°	1.3	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°	2211.7	99.9
0°-180°	2213.0	100.0



REPORT NUMBER: P226723

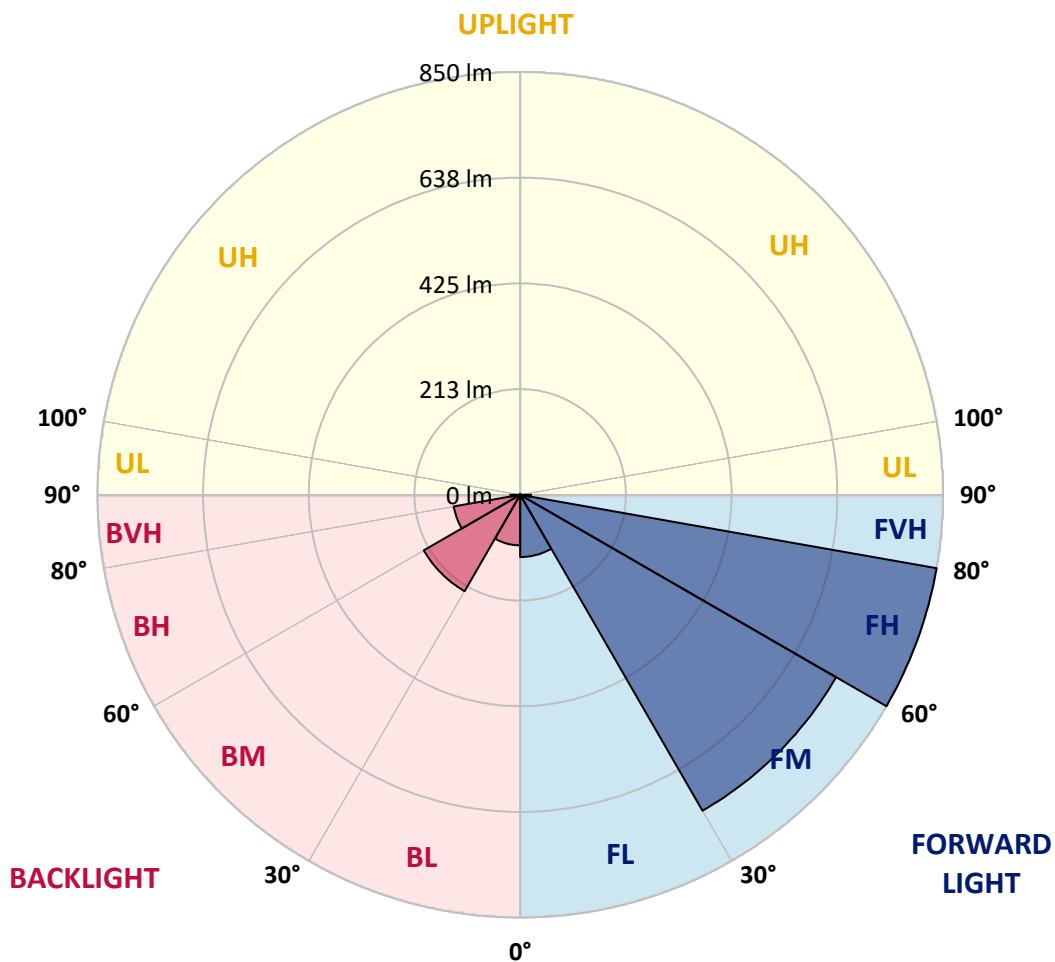
CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.1	5.7			
FM	(30°-60°)	733.7	33.2			
FH	(60°-80°)	850.5	38.4			G1/1800
FVH	(80°-90°)	21.7	1.0			G1/100
BL	(0°-30°)	101.7	4.6	B0/110		
BM	(30°-60°)	223.7	10.1	B1/1000		
BH	(60°-80°)	135.6	6.1	B1/500		G1/500
BVH	(80°-90°)	19.7	0.9			G1/100
UL	(90°-100°)	1.3	0.1		U1/10	
UH	(100°-180°)	1.0	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Medium





REPORT NUMBER: P226723

CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7
2.5°	299.8	299.5	299.5	296.9	295.9	294.3	293.0	291.1	289.2	286.9	284.1
5°	314.2	315.2	313.9	310.0	305.2	300.1	298.2	293.7	287.6	282.1	277.0
7.5°	328.0	328.3	324.8	318.4	311.0	303.0	300.4	294.3	287.6	280.2	272.8
10°	338.0	338.3	333.2	324.2	314.2	305.2	302.3	296.2	287.9	279.9	270.6
12.5°	343.7	344.1	336.4	327.1	315.2	306.2	303.6	297.2	288.5	278.3	268.0
15°	342.8	343.7	337.3	327.1	314.5	306.5	303.3	297.9	286.9	276.7	265.8
17.5°	336.4	337.7	332.5	321.3	311.3	304.9	301.4	295.9	285.3	274.4	262.5
20°	323.8	325.5	323.2	312.3	305.6	300.4	298.2	293.0	283.1	271.9	259.7
22.5°	309.7	311.3	310.7	301.7	298.5	295.9	293.7	289.8	281.2	269.9	258.4
25°	299.5	300.7	299.8	292.1	293.0	293.0	291.8	288.9	280.8	270.6	258.4
27.5°	316.5	316.5	308.1	292.4	290.8	293.7	293.0	291.4	285.0	273.8	260.9
30°	378.7	373.9	358.8	319.4	299.1	297.9	297.5	296.6	290.8	280.8	269.0
32.5°	448.4	443.6	425.6	376.2	334.1	306.5	303.6	304.0	302.3	293.0	281.2
35°	510.3	509.7	495.6	442.0	388.4	337.0	325.5	317.8	317.1	313.3	304.0
37.5°	560.4	560.4	561.7	500.7	447.1	385.5	365.9	341.5	341.5	339.3	333.5
40°	617.5	620.1	623.0	554.0	510.0	443.2	421.1	384.2	373.0	376.5	377.8
42.5°	692.6	695.8	693.9	619.8	567.5	512.3	485.0	440.4	412.8	418.5	432.0
45°	743.3	744.6	758.4	688.5	639.7	570.7	547.6	486.3	459.0	470.8	494.6
47.5°	800.8	804.0	806.3	766.5	724.4	636.8	594.4	530.9	513.2	531.2	568.7
50°	857.0	852.8	858.9	857.3	804.6	695.5	645.1	572.6	573.9	598.3	659.9
52.5°	905.8	891.6	905.8	923.4	908.0	755.9	697.1	621.7	640.3	670.2	767.4
55°	943.3	909.3	933.0	983.1	979.6	809.1	756.5	687.2	718.3	759.1	898.0
57.5°	866.6	870.8	936.2	1023.2	1021.6	863.1	808.5	769.0	807.2	852.8	1052.8
60°	795.0	813.6	914.7	1029.6	1050.8	921.8	878.5	862.1	897.4	952.9	1201.0
62.5°	757.1	774.8	879.8	1017.8	1097.4	1008.8	972.5	960.0	1008.1	1070.4	1333.3
65°	769.0	779.9	877.5	1035.7	1151.0	1140.4	1124.6	1103.8	1127.9	1186.3	1393.0
67.5°	735.6	753.6	858.9	1067.5	1248.9	1300.9	1314.0	1291.5	1271.3	1263.3	1306.0
70°	547.6	564.9	675.3	936.2	1329.1	1579.4	1571.4	1496.3	1360.2	1246.6	1020.3
72°	347.9	343.1	427.5	685.9	1181.5	1651.0	1688.9	1549.9	1319.8	1107.0	693.0
72.5°	252.9	275.7	354.7	609.8	1122.4	1611.9	1667.1	1532.6	1266.8	1045.7	609.5
75°	61.6	65.2	85.1	218.6	657.3	1212.9	1282.2	1184.0	924.7	620.7	270.2
77.5°	41.7	43.3	56.2	77.0	193.2	691.7	761.0	653.8	413.7	211.2	120.4
80°	31.1	32.1	40.8	54.6	80.2	235.9	278.3	221.1	103.0	117.2	85.7
82.5°	21.8	22.5	30.8	40.1	53.3	55.2	73.5	81.2	66.8	76.7	50.1
85°	15.1	15.1	22.5	27.6	33.7	27.3	29.2	40.8	45.3	45.6	30.5
87.5°	8.0	9.0	13.2	17.7	17.7	12.5	13.8	20.9	25.4	27.3	18.3
90°	2.9	2.9	5.5	6.7	4.2	3.2	2.9	4.2	6.1	8.7	5.8
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: P226723

CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7030

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: P226723

CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7
2.5°	283.4	281.5	278.9	277.6	277.0	275.7	274.4	273.8	273.8	272.5	272.8
5°	274.4	271.5	268.0	265.4	265.1	265.1	265.8	265.8	266.1	265.1	266.4
7.5°	269.9	266.7	261.6	258.7	256.4	256.1	257.4	260.0	261.3	260.3	261.6
10°	266.7	263.2	257.4	253.9	252.3	251.6	252.6	255.2	259.3	259.3	260.6
12.5°	263.5	259.0	253.2	250.7	249.4	249.7	251.0	252.9	257.4	259.0	259.7
15°	260.3	255.2	250.3	246.8	246.8	247.8	249.4	251.6	255.8	258.7	259.3
17.5°	257.1	252.0	247.8	244.9	244.9	246.2	247.8	250.7	253.6	257.7	257.7
20°	254.2	250.0	244.6	242.0	241.7	242.6	244.6	247.5	249.7	253.9	254.2
22.5°	252.6	247.5	242.3	238.5	236.9	236.2	238.2	241.0	243.3	247.5	248.1
25°	252.0	246.2	239.8	232.7	228.5	227.2	228.2	231.7	233.7	236.9	237.8
27.5°	254.2	248.7	238.8	226.0	217.3	213.8	214.7	217.0	217.6	221.1	222.7
30°	261.9	255.5	240.7	218.9	203.2	196.7	196.7	197.1	198.0	200.9	201.2
32.5°	274.4	268.3	246.5	211.5	188.7	179.7	177.5	175.9	175.9	175.6	175.9
35°	297.5	292.4	256.4	203.2	173.0	163.0	157.6	154.7	151.8	150.5	150.2
37.5°	330.9	326.4	270.6	193.5	159.2	149.2	142.5	136.7	133.5	133.2	134.8
40°	380.7	376.2	286.3	182.6	146.0	138.7	131.6	125.5	122.0	122.3	123.9
42.5°	442.0	428.2	303.3	167.9	135.4	131.6	123.9	118.8	115.2	113.3	113.0
45°	513.5	490.4	319.4	154.1	123.9	125.5	118.1	112.3	107.8	102.7	102.1
47.5°	602.8	552.7	333.5	140.3	111.4	119.1	112.0	106.6	99.8	93.7	92.8
50°	695.8	624.3	345.7	125.5	100.1	112.0	105.9	98.5	89.2	83.8	83.8
52.5°	803.4	710.3	361.4	109.1	91.5	104.3	98.2	88.6	80.9	80.2	80.2
55°	923.1	800.5	372.3	96.3	84.7	96.0	93.1	90.2	87.6	88.3	88.6
57.5°	1048.3	894.5	362.7	87.3	79.3	94.0	102.4	98.5	90.5	90.2	89.9
60°	1156.1	967.7	309.4	81.5	75.1	97.3	109.8	98.5	90.5	94.7	95.0
62.5°	1226.7	1002.4	206.1	74.1	69.0	91.8	107.2	95.6	90.8	102.7	103.7
65°	1217.1	963.5	118.4	69.0	65.2	84.4	103.7	92.1	84.7	91.5	89.5
67.5°	1073.6	807.5	85.7	66.8	62.3	79.3	97.3	87.0	79.0	87.3	83.8
70°	771.6	549.8	73.8	64.8	60.3	73.2	92.8	83.8	75.7	81.5	76.1
72°	517.7	334.4	67.7	63.2	58.4	69.3	89.5	81.2	72.9	76.1	70.0
72.5°	440.7	263.8	66.1	62.6	57.8	68.4	88.6	80.6	72.2	75.4	69.6
75°	164.7	103.3	58.7	57.8	53.3	63.6	84.7	77.7	69.0	68.0	65.5
77.5°	84.7	65.5	50.1	51.0	47.8	58.1	80.6	73.2	63.6	60.0	58.7
80°	61.6	47.5	40.4	43.3	40.8	52.3	74.8	66.4	57.8	53.9	52.3
82.5°	38.8	29.5	30.8	34.3	34.7	46.2	68.0	59.7	51.4	48.1	45.6
85°	18.6	17.7	21.8	25.4	27.9	39.2	62.3	53.0	44.9	38.5	38.8
87.5°	9.9	13.5	13.2	17.0	21.5	32.1	55.2	43.3	35.9	28.9	29.2
90°	2.2	3.5	3.9	6.7	8.7	13.8	35.6	24.7	24.1	10.3	9.0
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: P226723

CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7030

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)