

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: P226737

Luminaire Tested: **IST-AF-350-LED-E1-T4W-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226737
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-7050
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2500 lumens
Efficiency: N/A
Efficacy: 124.4 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

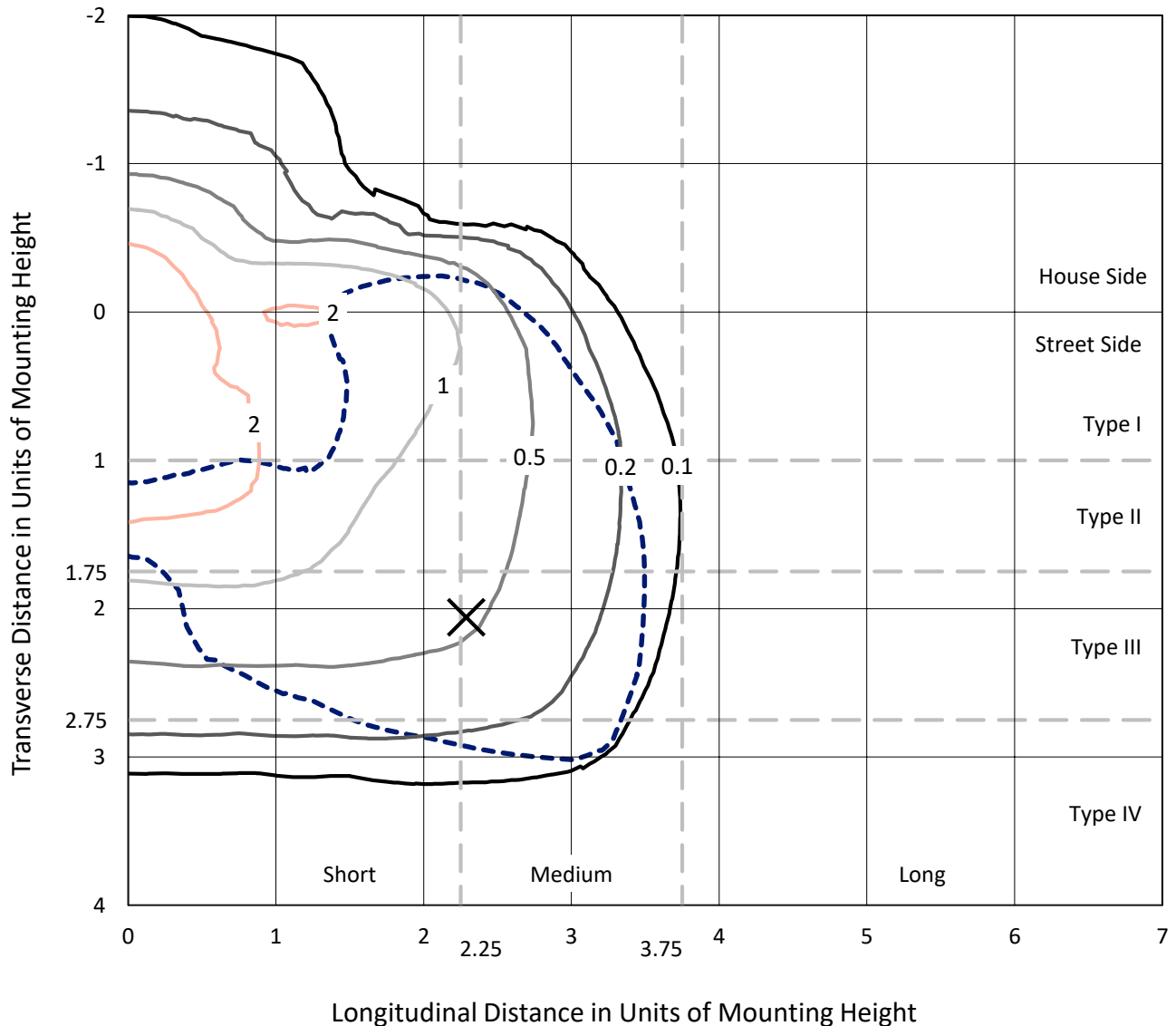
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P226737
 CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7050

Iso-Footcandle Lines of Horizontal Illumination

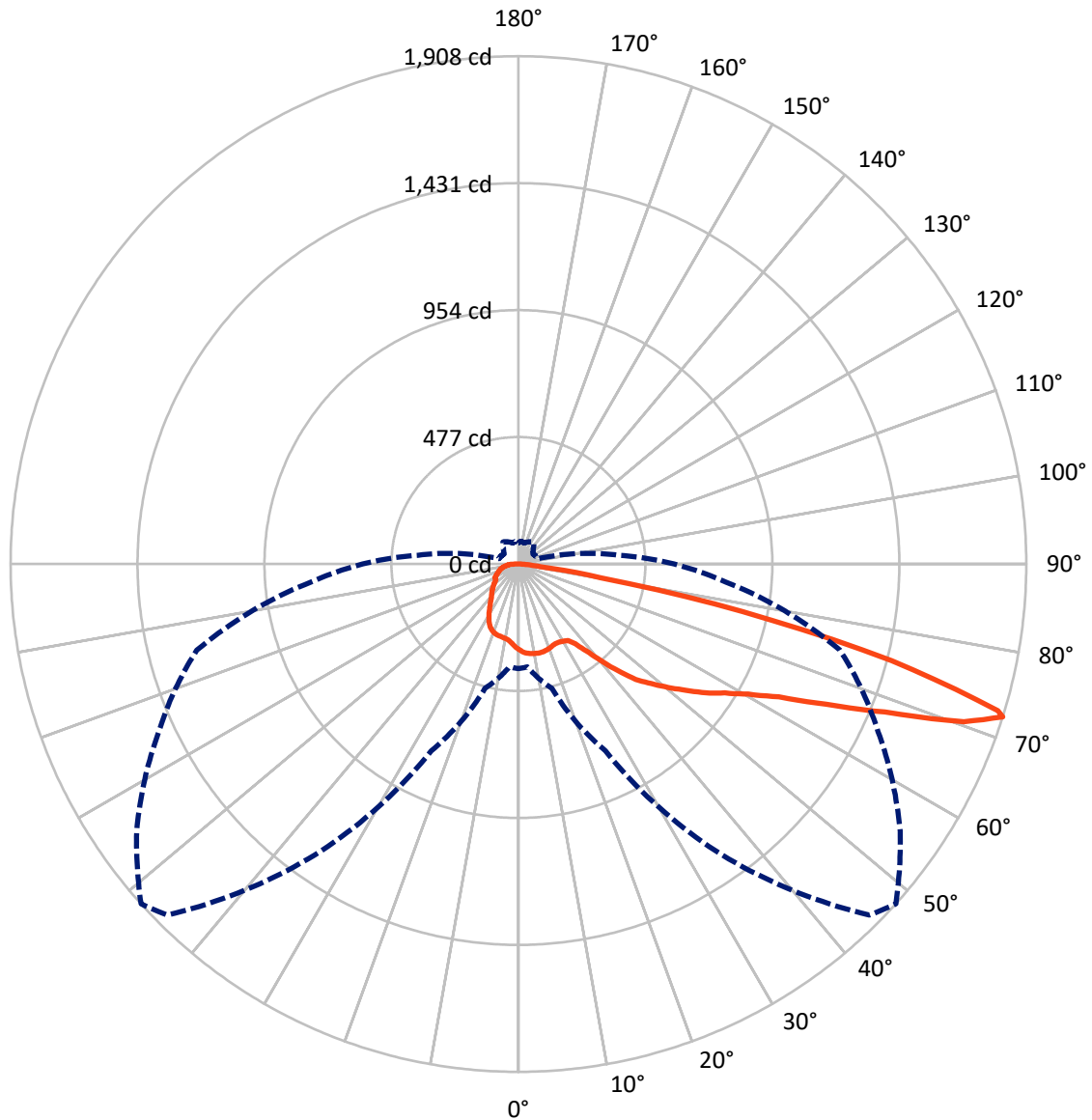
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Medium - Semi-Cutoff

REPORT NUMBER: P226737
CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P226737

CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7050

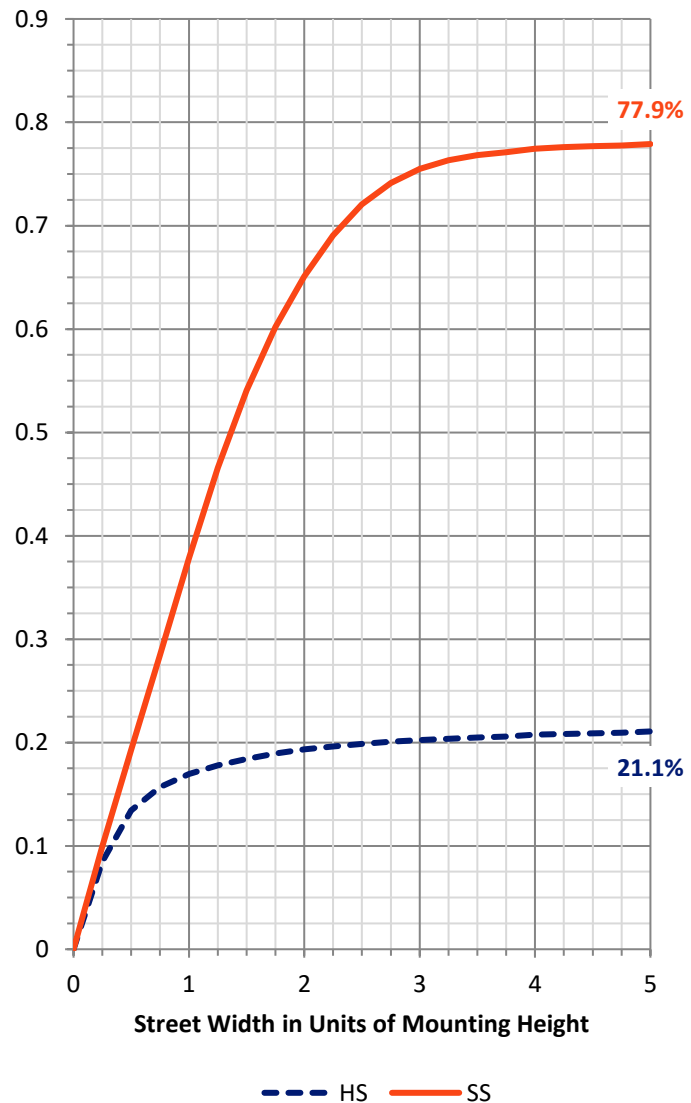
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	543.0	1.1	544.1
	% Fixture	21.7	0.0	21.8
Street Side	Lumens	1955.5	0.4	1955.9
	% Fixture	78.2	0.0	78.2
Total	Lumens	2498.5	1.5	2500.0
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.4	1.2
10°-20°	88.8	3.6
20°-30°	137.0	5.5
30°-40°	205.3	8.2
40°-50°	341.9	13.7
50°-60°	534.3	21.4
60°-70°	705.7	28.2
70°-80°	408.2	16.3
80°-90°	46.8	1.9
90°-100°	1.5	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°	2498.5	99.9
0°-180°	2500.0	100.0



REPORT NUMBER: P226737

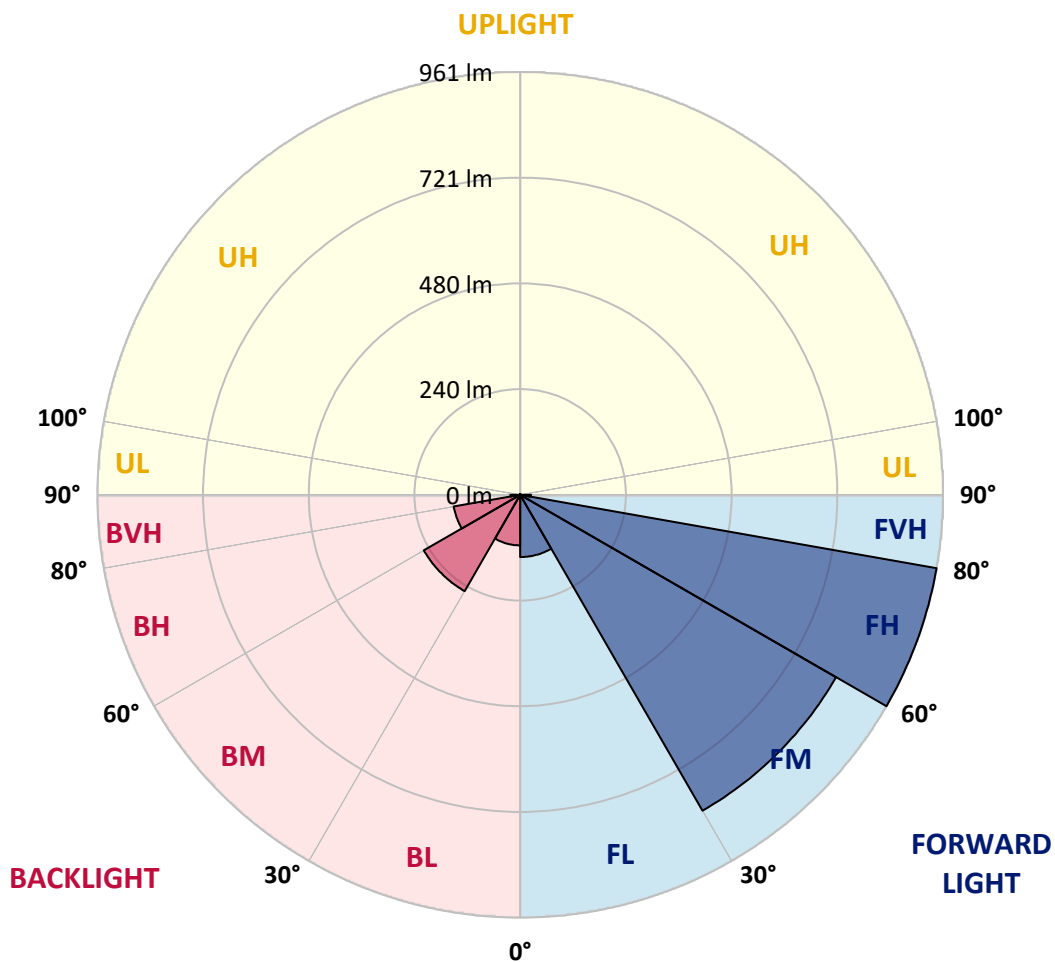
CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	141.3	5.7			
FM	(30°-60°)	828.8	33.2			
FH	(60°-80°)	960.8	38.4			G1/1800
FVH	(80°-90°)	24.6	1.0			G1/100
BL	(0°-30°)	114.9	4.6	B1/500		
BM	(30°-60°)	252.7	10.1	B1/1000		
BH	(60°-80°)	153.2	6.1	B1/500		G1/500
BVH	(80°-90°)	22.2	0.9			G1/100
UL	(90°-100°)	1.5	0.1		U1/10	
UH	(100°-180°)	1.1	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Medium





REPORT NUMBER: P226737

CATALOG NUMBER: IST-AF-350-LED-E1-T4W-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6
2.5°	338.7	338.3	338.3	335.4	334.3	332.5	331.0	328.9	326.7	324.2	320.9
5°	355.0	356.1	354.6	350.3	344.8	339.0	336.8	331.8	324.9	318.7	312.9
7.5°	370.6	370.9	366.9	359.7	351.3	342.3	339.4	332.5	324.9	316.5	308.2
10°	381.8	382.2	376.4	366.2	355.0	344.8	341.6	334.7	325.2	316.2	305.7
12.5°	388.3	388.7	380.0	369.5	356.1	345.9	343.0	335.8	326.0	314.4	302.8
15°	387.2	388.3	381.1	369.5	355.3	346.3	342.6	336.5	324.2	312.5	300.2
17.5°	380.0	381.4	375.6	362.9	351.7	344.5	340.5	334.3	322.3	310.0	296.6
20°	365.8	367.7	365.1	352.8	345.2	339.4	336.8	331.0	319.8	307.1	293.3
22.5°	349.9	351.7	351.0	340.8	337.2	334.3	331.8	327.4	317.6	304.9	291.9
25°	338.3	339.7	338.7	330.0	331.0	331.0	329.6	326.3	317.3	305.7	291.9
27.5°	357.5	357.5	348.1	330.3	328.5	331.8	331.0	329.2	322.0	309.3	294.8
30°	427.9	422.4	405.4	360.8	337.9	336.5	336.1	335.0	328.5	317.3	303.8
32.5°	506.5	501.1	480.8	425.0	377.5	346.3	343.0	343.4	341.6	331.0	317.6
35°	576.5	575.8	559.8	499.3	438.7	380.7	367.7	359.0	358.2	353.9	343.4
37.5°	633.1	633.1	634.5	565.6	505.1	435.5	413.3	385.8	385.8	383.3	376.7
40°	697.6	700.5	703.8	625.8	576.1	500.7	475.7	434.0	421.3	425.3	426.8
42.5°	782.5	786.1	783.9	700.2	641.1	578.7	547.9	497.5	466.3	472.8	488.0
45°	839.7	841.2	856.8	777.7	722.6	644.7	618.6	549.3	518.5	531.9	558.7
47.5°	904.7	908.3	910.8	865.9	818.4	719.4	671.5	599.7	579.8	600.1	642.5
50°	968.1	963.4	970.3	968.5	909.0	785.7	728.8	646.9	648.3	675.9	745.5
52.5°	1023.2	1007.3	1023.2	1043.2	1025.8	853.9	787.5	702.3	723.4	757.1	866.9
55°	1065.6	1027.2	1054.0	1110.6	1106.6	914.1	854.6	776.3	811.5	857.5	1014.5
57.5°	979.0	983.7	1057.7	1155.9	1154.1	975.0	913.4	868.8	911.9	963.4	1189.3
60°	898.1	919.2	1033.4	1163.2	1187.1	1041.3	992.4	973.9	1013.8	1076.5	1356.8
62.5°	855.3	875.3	993.8	1149.8	1239.7	1139.6	1098.6	1084.5	1138.9	1209.2	1506.2
65°	868.8	881.1	991.3	1170.1	1300.2	1288.3	1270.5	1246.9	1274.1	1340.1	1573.6
67.5°	831.0	851.4	970.3	1206.0	1410.8	1469.6	1484.4	1459.0	1436.2	1427.1	1475.4
70°	618.6	638.2	762.9	1057.7	1501.5	1784.3	1775.2	1690.4	1536.6	1408.3	1152.7
72°	393.0	387.6	483.0	774.8	1334.7	1865.1	1907.9	1750.9	1491.0	1250.6	782.8
72.5°	285.7	311.5	400.7	688.9	1268.0	1820.9	1883.3	1731.3	1431.1	1181.3	688.6
75°	69.6	73.6	96.1	246.9	742.6	1370.2	1448.5	1337.6	1044.6	701.2	305.3
77.5°	47.1	48.9	63.5	87.0	218.3	781.4	859.7	738.6	467.4	238.6	136.0
80°	35.2	36.3	46.0	61.6	90.6	266.5	314.4	249.8	116.4	132.3	96.8
82.5°	24.7	25.4	34.8	45.3	60.2	62.4	83.0	91.7	75.4	86.7	56.6
85°	17.0	17.0	25.4	31.2	38.1	30.8	33.0	46.0	51.1	51.5	34.4
87.5°	9.1	10.2	14.9	19.9	19.9	14.1	15.6	23.6	28.6	30.8	20.7
90°	3.3	3.3	6.2	7.6	4.7	3.6	3.3	4.7	6.9	9.8	6.5
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°	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6	321.6
2.5°	320.2	318.0	315.1	313.6	312.9	311.5	310.0	309.3	309.3	307.8	308.2
5°	310.0	306.7	302.8	299.9	299.5	299.5	300.2	300.2	300.6	299.5	300.9
7.5°	304.9	301.3	295.5	292.2	289.7	289.3	290.8	293.7	295.1	294.1	295.5
10°	301.3	297.3	290.8	286.8	285.0	284.3	285.4	288.3	293.0	293.0	294.4
12.5°	297.7	292.6	286.1	283.2	281.7	282.1	283.5	285.7	290.8	292.6	293.3
15°	294.1	288.3	282.8	278.8	278.8	279.9	281.7	284.3	289.0	292.2	293.0
17.5°	290.4	284.6	279.9	276.7	276.7	278.1	279.9	283.2	286.4	291.2	291.2
20°	287.2	282.5	276.3	273.4	273.0	274.1	276.3	279.6	282.1	286.8	287.2
22.5°	285.4	279.6	273.8	269.4	267.6	266.9	269.0	272.3	274.8	279.6	280.3
25°	284.6	278.1	270.9	262.9	258.2	256.7	257.8	261.8	264.0	267.6	268.7
27.5°	287.2	281.0	269.8	255.3	245.5	241.5	242.6	245.1	245.8	249.8	251.6
30°	295.9	288.6	271.9	247.3	229.5	222.3	222.3	222.6	223.7	227.0	227.3
32.5°	310.0	303.1	278.5	238.9	213.2	203.0	200.5	198.7	198.7	198.3	198.7
35°	336.1	330.3	289.7	229.5	195.4	184.2	178.0	174.8	171.5	170.1	169.7
37.5°	373.8	368.7	305.7	218.6	179.8	168.6	161.0	154.5	150.8	150.5	152.3
40°	430.0	425.0	323.4	206.3	165.0	156.6	148.7	141.8	137.8	138.1	140.0
42.5°	499.3	483.7	342.6	189.6	153.0	148.7	140.0	134.2	130.2	128.0	127.6
45°	580.1	554.0	360.8	174.0	140.0	141.8	133.4	126.9	121.8	116.0	115.3
47.5°	680.9	624.4	376.7	158.5	125.8	134.5	126.5	120.4	112.8	105.9	104.8
50°	786.1	705.2	390.5	141.8	113.1	126.5	119.7	111.3	100.8	94.6	94.6
52.5°	907.6	802.4	408.3	123.3	103.3	117.8	111.0	100.1	91.4	90.6	90.6
55°	1042.8	904.3	420.6	108.8	95.7	108.4	105.1	101.9	99.0	99.7	100.1
57.5°	1184.2	1010.5	409.7	98.6	89.6	106.2	115.7	111.3	102.2	101.9	101.5
60°	1306.0	1093.2	349.5	92.1	84.8	109.9	124.0	111.3	102.2	107.0	107.3
62.5°	1385.8	1132.4	232.8	83.8	78.0	103.7	121.1	108.1	102.6	116.0	117.1
65°	1374.9	1088.5	133.8	78.0	73.6	95.4	117.1	104.1	95.7	103.3	101.2
67.5°	1212.8	912.3	96.8	75.4	70.3	89.6	109.9	98.3	89.2	98.6	94.6
70°	871.7	621.1	83.4	73.2	68.2	82.7	104.8	94.6	85.6	92.1	85.9
72°	584.9	377.8	76.5	71.4	66.0	78.3	101.2	91.7	82.3	85.9	79.0
72.5°	497.8	298.0	74.7	70.7	65.3	77.2	100.1	91.0	81.6	85.2	78.7
75°	186.0	116.8	66.4	65.3	60.2	71.8	95.7	87.7	78.0	76.9	74.0
77.5°	95.7	74.0	56.6	57.7	54.0	65.6	91.0	82.7	71.8	67.8	66.4
80°	69.6	53.7	45.7	48.9	46.0	59.1	84.5	75.1	65.3	60.9	59.1
82.5°	43.9	33.4	34.8	38.8	39.2	52.2	76.9	67.4	58.0	54.4	51.5
85°	21.0	19.9	24.7	28.6	31.5	44.2	70.3	59.8	50.8	43.5	43.9
87.5°	11.2	15.2	14.9	19.2	24.3	36.3	62.4	48.9	40.6	32.6	33.0
90°	2.5	4.0	4.4	7.6	9.8	15.6	40.2	27.9	27.2	11.6	10.2
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-350-LED-E1-T4W-7050

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)