

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: P226539

Luminaire Tested: **ISW-AF-450-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35943)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISW-AF-450-LED-E1-T4FT-7030  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2812.5 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U1 - G1  
  
Input Watts (W): 25.31  
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

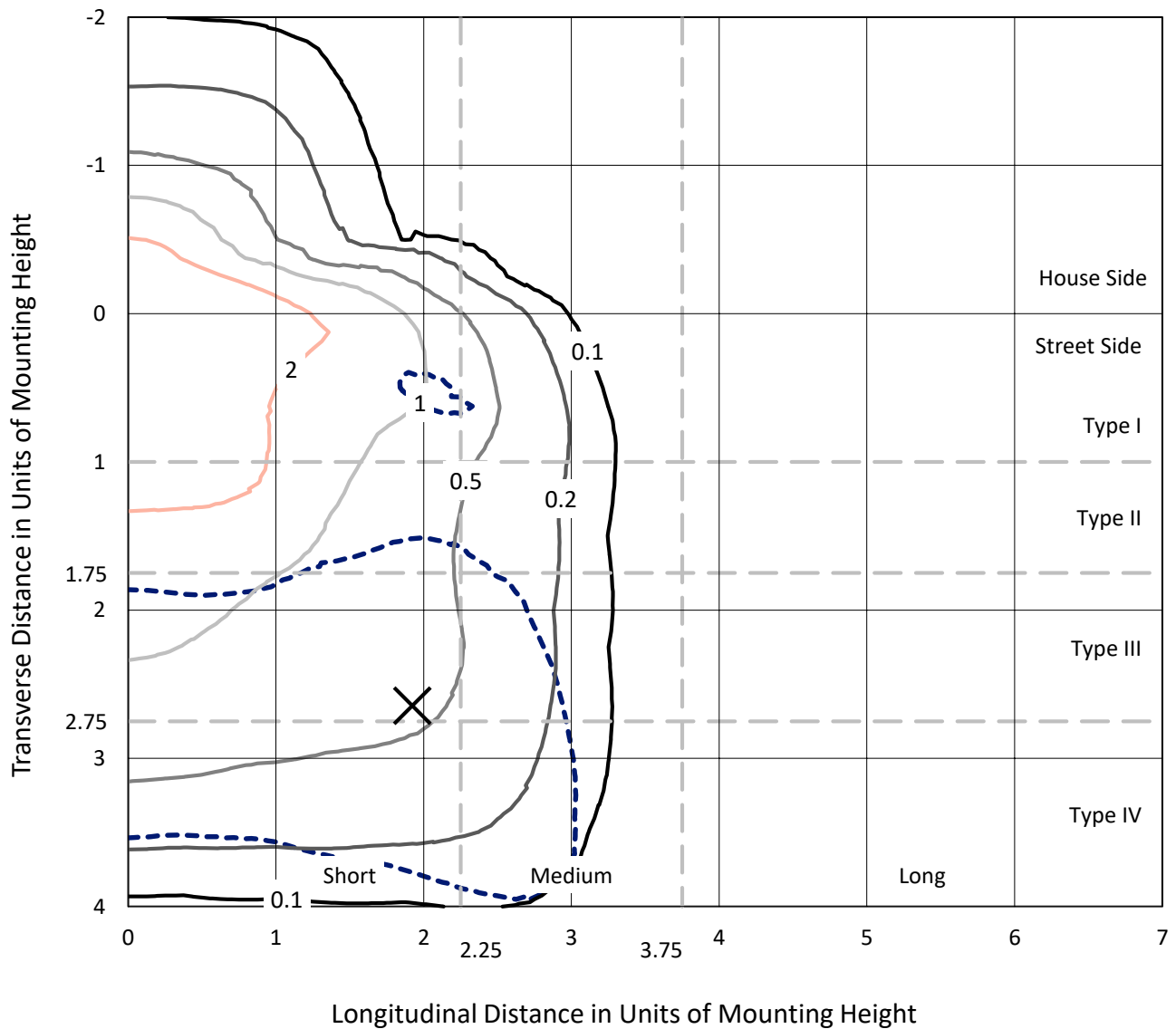


REPORT NUMBER: P226539

CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT-7030

### Iso-Footcandle Lines of Horizontal Illumination

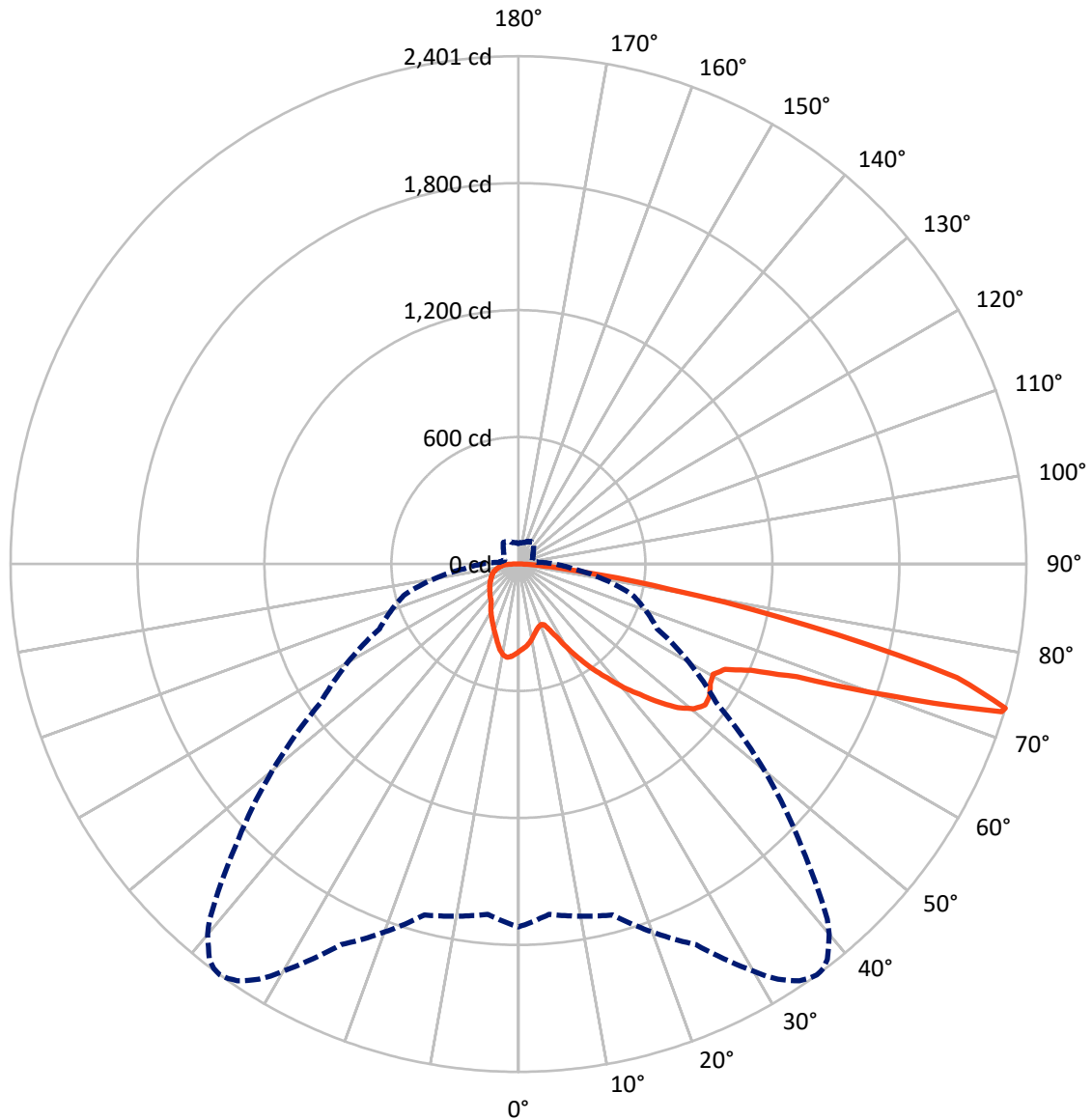
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P226539  
CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT-7030

### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P226539

CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT-7030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	593.0	0.6	593.7
	% Fixture	21.1	0.0	21.1
<b>Street Side</b>	Lumens	2218.6	0.2	2218.8
	% Fixture	78.9	0.0	78.9
<b>Total</b>	Lumens	2811.6	0.9	2812.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.9	1.4
10°-20°	103.0	3.7
20°-30°	168.9	6.0
30°-40°	279.8	9.9
40°-50°	411.1	14.6
50°-60°	518.4	18.4
60°-70°	678.8	24.1
70°-80°	549.5	19.5
80°-90°	63.2	2.2
90°-100°	0.9	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°	2811.6	100.0
0°-180°	2812.5	100.0



REPORT NUMBER: P226539

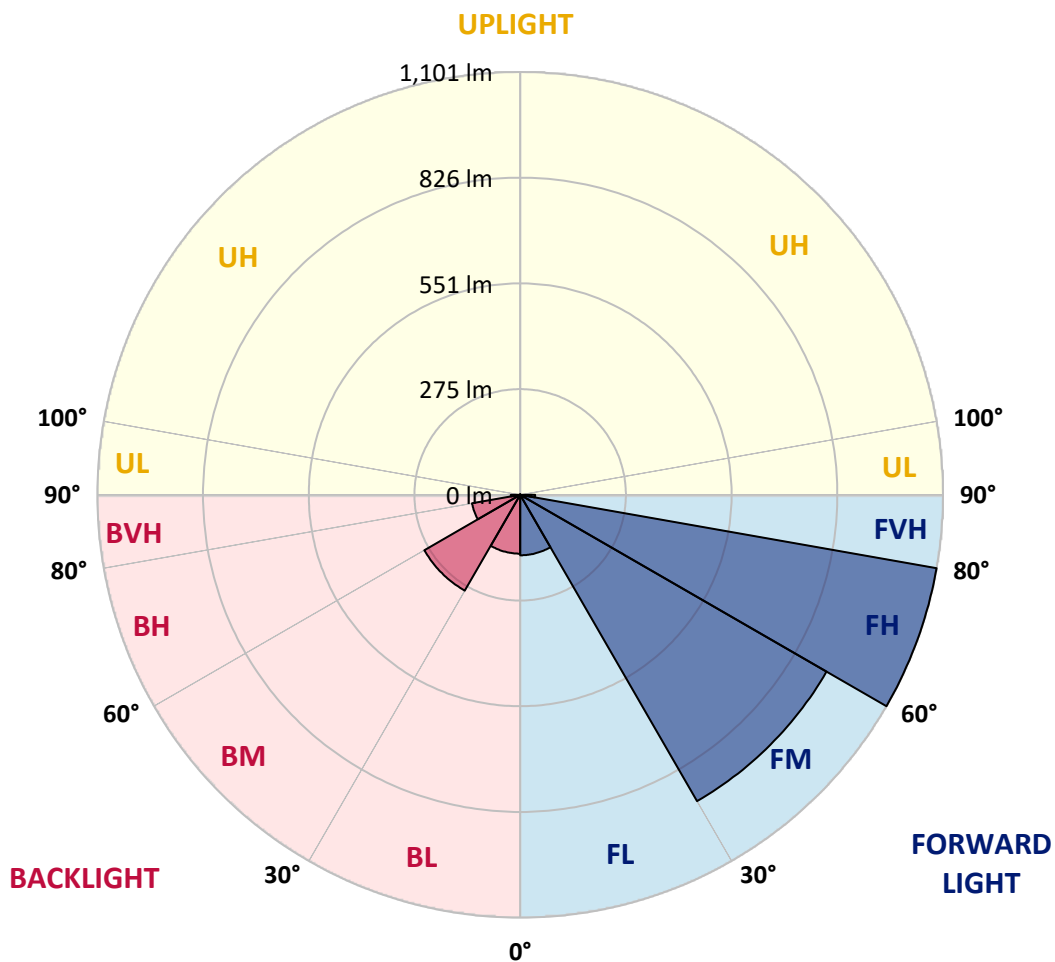
CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	157.4	5.6			
FM	(30°-60°)	921.0	32.7			
FH	(60°-80°)	1101.1	39.2			G1/1800
FVH	(80°-90°)	39.0	1.4			G1/100
BL	(0°-30°)	153.3	5.5	B1/500		
BM	(30°-60°)	288.2	10.2	B1/1000		
BH	(60°-80°)	127.2	4.5	B1/500		G1/500
BVH	(80°-90°)	24.2	0.9			G1/100
UL	(90°-100°)	0.9	0.0		U1/10	
UH	(100°-180°)	0.6	0.0		U1/10	

**BUG Rating: B1-U1-G1**

Type IV Short





REPORT NUMBER: P226539

CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
0°	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0
2.5°	398.1	398.9	399.8	399.8	399.8	401.0	400.6	400.6	401.0	401.4	401.4
5°	383.2	383.6	386.0	386.9	389.3	388.9	388.9	388.9	390.5	389.3	390.1
7.5°	366.3	367.1	369.5	372.3	374.4	374.8	374.4	373.6	375.6	376.4	375.6
10°	346.2	346.6	349.8	352.2	355.4	355.0	356.2	356.2	357.0	356.6	358.2
12.5°	336.1	335.3	333.7	334.9	335.7	335.7	335.7	336.9	336.5	337.3	338.5
15°	334.9	332.9	324.8	322.0	321.2	321.2	320.8	320.4	321.6	322.8	322.8
17.5°	340.5	336.5	320.8	312.7	311.1	310.3	310.7	309.9	309.9	311.5	311.1
20°	367.9	360.7	329.2	311.5	306.7	306.7	306.3	305.1	305.1	305.5	305.5
22.5°	437.6	428.4	373.6	336.9	320.0	319.6	318.3	317.1	313.9	313.1	311.5
25°	534.7	523.9	430.0	390.5	366.7	365.9	359.9	359.1	351.4	351.8	346.6
27.5°	610.1	602.9	505.3	452.9	430.4	425.5	422.7	415.5	409.0	403.8	397.3
30°	635.9	634.7	581.5	539.2	505.3	499.7	492.0	488.8	479.5	472.3	467.9
32.5°	676.6	677.8	655.6	608.9	579.5	573.8	567.4	559.7	553.3	548.4	538.0
35°	734.6	735.0	719.7	684.7	650.8	643.1	639.5	630.7	624.6	618.6	613.3
37.5°	774.9	776.9	766.1	739.1	718.9	708.0	707.6	701.2	694.3	689.1	684.3
40°	852.3	841.4	805.5	788.2	771.7	770.5	766.9	763.2	764.8	762.0	767.3
42.5°	930.5	916.8	866.8	842.2	832.1	834.2	832.9	833.4	838.2	837.0	842.6
45°	997.4	981.6	934.1	905.1	913.1	915.6	922.4	926.4	924.4	931.7	931.7
47.5°	1064.3	1027.6	971.2	984.5	990.1	1008.6	1013.5	1012.3	1019.1	1022.3	1013.5
50°	1017.1	1007.4	1003.0	1043.7	1069.1	1075.1	1082.0	1085.6	1088.8	1084.4	1075.5
52.5°	917.6	916.8	979.2	1078.8	1100.1	1108.2	1114.6	1117.4	1116.2	1113.8	1106.6
55°	884.1	877.7	931.7	1042.5	1075.1	1082.8	1092.1	1097.7	1103.3	1102.5	1096.9
57.5°	929.7	924.4	924.8	1010.7	1042.5	1049.3	1055.4	1061.8	1063.5	1068.7	1069.1
60°	1061.8	1055.0	999.8	1009.5	1041.7	1049.3	1050.2	1053.8	1054.2	1057.0	1057.4
62.5°	1252.4	1240.0	1155.7	1083.2	1094.5	1098.1	1100.9	1100.1	1098.5	1096.5	1096.5
65°	1461.2	1449.5	1341.1	1256.5	1223.8	1232.7	1218.6	1215.8	1212.6	1212.6	1208.9
67.5°	1709.4	1687.3	1603.4	1508.3	1461.2	1465.6	1472.1	1447.5	1438.6	1439.4	1420.5
70°	1962.5	1939.1	1902.4	1901.2	1925.0	1914.5	1884.7	1924.2	1877.5	1866.2	1862.1
72.5°	1822.7	1794.8	1802.5	2030.2	2243.8	2278.4	2311.5	2342.1	2369.5	2386.0	2388.4
73°	1715.5	1662.7	1717.5	1985.1	2222.0	2273.2	2314.3	2346.9	2376.3	2391.3	2400.5
75°	856.7	859.5	1129.5	1637.7	1941.9	1985.9	2049.9	2085.8	2139.0	2166.4	2142.2
77.5°	198.7	205.9	342.1	777.3	1164.2	1227.1	1278.2	1330.6	1392.3	1415.2	1395.1
80°	70.1	73.3	120.5	295.4	486.0	520.6	564.6	622.2	679.4	693.5	729.0
82.5°	37.1	40.7	63.7	128.1	207.5	226.9	238.2	261.9	282.1	294.2	300.6
85°	21.4	21.8	36.3	70.9	95.1	102.8	110.0	115.7	122.1	117.7	117.7
87.5°	8.5	9.3	18.5	33.4	45.9	51.2	51.2	51.2	50.8	44.7	40.7
90°	1.6	2.4	3.6	6.9	6.0	6.0	5.6	4.8	4.4	4.8	2.8
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: P226539

CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT-7030

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
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: P226539

CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT-7030

**CANDELA DISTRIBUTION (continued):**

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
0°	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0
2.5°	402.2	402.6	401.8	403.4	402.2	402.2	404.2	407.8	410.6	411.4	413.9
5°	390.9	391.3	391.3	391.7	391.3	392.1	395.7	398.9	404.6	407.4	411.0
7.5°	376.4	377.6	377.2	378.0	378.0	378.8	384.4	389.7	395.3	400.6	405.0
10°	359.1	359.9	361.5	360.7	360.7	363.1	369.1	376.8	383.6	391.3	396.5
12.5°	338.5	340.5	340.1	341.7	342.5	344.1	354.2	362.7	371.1	380.0	386.9
15°	322.4	323.6	324.4	324.8	324.8	328.4	338.5	349.0	360.3	370.7	378.0
17.5°	311.9	311.9	312.7	313.1	313.9	316.3	326.8	338.5	351.4	364.3	372.3
20°	305.9	305.9	306.3	306.7	306.7	309.5	319.2	332.5	346.6	363.1	372.8
22.5°	310.7	309.5	309.1	309.1	307.5	307.5	316.7	330.8	348.6	369.9	382.4
25°	343.7	340.1	334.5	333.3	331.2	321.6	320.4	336.5	358.2	384.8	403.8
27.5°	393.3	389.7	386.0	381.6	378.4	360.7	336.5	351.0	376.8	414.7	438.0
30°	458.2	450.9	445.7	440.9	426.8	407.4	369.9	373.6	405.4	456.2	485.6
32.5°	530.7	523.1	515.0	503.7	500.1	468.7	420.7	411.0	441.7	504.5	535.2
35°	600.8	597.2	591.6	587.1	578.7	552.5	486.8	456.2	483.6	561.3	585.1
37.5°	682.2	675.4	675.8	672.2	667.3	645.2	555.3	510.6	528.7	615.7	630.7
40°	762.4	760.8	763.2	757.2	749.1	719.3	605.7	550.5	575.9	668.1	664.5
42.5°	838.2	839.4	836.6	829.7	820.9	770.9	637.9	584.3	618.2	714.1	691.5
45°	924.8	920.4	908.7	896.6	885.7	815.2	655.2	622.2	658.9	763.6	718.9
47.5°	1006.6	989.3	979.2	960.7	939.3	855.5	678.6	662.1	704.0	810.4	745.1
50°	1066.7	1050.6	1033.6	1011.1	988.5	890.6	709.6	707.2	755.2	862.8	781.0
52.5°	1094.1	1079.2	1062.6	1039.7	1017.1	916.0	751.1	751.1	815.6	932.1	830.5
55°	1089.6	1078.8	1064.3	1043.3	1026.0	929.7	793.9	799.5	891.4	1007.0	887.8
57.5°	1066.3	1060.2	1051.8	1037.3	1023.2	940.1	844.2	847.9	992.9	1079.2	941.8
60°	1058.2	1055.8	1051.0	1042.5	1031.6	963.1	897.8	905.9	1106.6	1145.3	972.4
62.5°	1094.1	1089.2	1085.6	1077.2	1067.1	1019.5	965.1	967.5	1213.4	1153.3	942.6
65°	1194.8	1186.0	1179.9	1168.6	1157.3	1104.6	1051.0	1024.8	1265.7	1078.0	841.4
67.5°	1406.0	1391.5	1374.1	1352.8	1321.8	1274.2	1136.0	1032.8	1218.2	913.1	663.7
70°	1823.5	1792.0	1752.1	1706.6	1694.9	1556.3	1189.2	973.2	1012.7	637.9	440.0
72.5°	2384.4	2351.8	2316.3	2278.8	2204.7	1900.0	1165.8	785.0	629.8	328.0	209.5
73°	2393.7	2371.5	2328.8	2285.3	2224.8	1894.0	1140.4	723.7	555.3	258.3	171.7
75°	2146.6	2137.8	2095.9	2012.1	1960.9	1599.8	839.8	419.5	243.0	159.6	111.6
77.5°	1393.1	1383.4	1359.6	1351.6	1257.3	1037.3	376.0	163.2	132.2	106.0	79.0
80°	742.3	697.1	689.1	656.8	587.9	399.3	128.5	99.9	87.8	70.9	55.2
82.5°	301.0	281.7	274.4	248.6	233.7	119.7	64.5	69.3	58.8	41.9	33.8
85°	110.8	102.0	99.5	81.0	71.3	35.5	39.5	48.8	36.7	23.4	16.9
87.5°	38.3	33.0	28.6	22.2	20.6	14.5	21.8	26.6	23.4	14.1	8.1
90°	2.8	2.4	2.0	1.6	2.0	1.6	2.4	3.6	4.0	2.4	1.6
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: P226539

CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT-7030

**CANDELA DISTRIBUTION (continued):**

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
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: P226539

CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT-7030

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0
2.5°	414.7	416.3	419.5	421.9	423.9	426.8	427.6	429.2	427.2	429.6
5°	413.0	417.9	423.9	429.6	434.8	439.2	441.3	441.7	442.1	443.7
7.5°	409.0	416.3	425.9	433.6	441.7	444.5	445.7	446.1	443.3	444.5
10°	401.0	412.6	424.7	434.0	438.0	436.0	432.8	427.6	425.1	425.1
12.5°	392.1	407.0	421.1	426.3	422.7	415.1	406.2	396.5	392.9	392.9
15°	384.8	403.8	415.5	411.8	401.4	386.9	374.8	364.7	361.5	360.3
17.5°	380.8	402.2	406.6	395.3	377.6	359.5	347.4	338.9	336.1	336.1
20°	384.0	403.8	396.5	375.6	353.4	336.9	326.4	320.8	317.9	319.2
22.5°	397.7	409.8	387.7	356.2	329.2	315.1	310.3	306.7	306.3	307.1
25°	420.7	417.9	380.0	336.1	306.7	296.6	296.2	295.0	294.6	294.2
27.5°	450.5	428.0	370.7	313.5	284.1	279.3	281.7	281.3	280.9	281.3
30°	490.0	436.8	357.0	288.9	262.7	262.7	266.4	265.2	263.5	263.9
32.5°	526.7	443.3	336.1	261.5	245.8	246.6	247.8	244.6	240.6	241.4
35°	558.1	443.3	307.9	236.9	228.5	228.5	229.3	226.5	223.2	222.0
37.5°	584.3	434.4	272.4	218.4	214.4	214.4	217.6	214.8	208.7	207.5
40°	600.0	415.1	239.8	204.7	207.5	207.9	203.5	198.7	193.0	191.8
42.5°	610.1	386.9	214.0	195.0	203.1	199.9	189.4	181.7	181.3	183.0
45°	619.0	355.0	193.4	185.4	198.3	191.4	177.3	170.1	172.5	174.1
47.5°	627.8	323.2	176.9	174.5	189.4	184.6	169.7	161.6	160.4	162.8
50°	648.8	278.9	158.0	161.6	178.5	176.9	162.8	153.5	145.9	145.5
52.5°	677.0	219.6	141.8	150.3	170.1	172.5	155.1	146.3	135.8	134.2
55°	708.4	168.4	128.5	141.4	162.0	166.0	152.3	139.0	127.7	126.1
57.5°	717.7	133.0	116.1	129.0	151.1	160.0	147.9	130.6	122.1	120.5
60°	685.9	110.4	105.6	118.5	140.2	153.9	141.0	124.1	116.5	115.3
62.5°	588.7	97.5	99.9	111.6	132.2	148.3	135.8	119.3	113.2	112.4
65°	449.3	88.7	95.1	106.0	124.9	143.1	132.2	117.3	112.4	111.6
67.5°	282.1	82.2	90.3	99.9	117.7	137.4	129.4	114.8	111.2	110.0
70°	156.4	75.4	83.8	93.1	110.4	132.2	125.7	111.2	110.8	108.4
72.5°	95.1	68.1	77.0	85.8	102.4	125.7	119.3	106.8	102.8	97.9
73°	90.7	67.3	75.4	84.2	100.3	124.1	118.1	105.2	101.1	96.3
75°	73.3	60.4	68.9	76.6	93.1	117.7	111.2	99.5	93.1	89.5
77.5°	54.0	51.6	59.6	66.9	83.8	108.8	101.5	91.1	83.4	81.4
80°	39.9	42.7	50.4	56.8	73.7	99.9	91.5	81.4	76.6	74.1
82.5°	27.0	33.0	40.3	45.5	65.3	90.3	81.0	71.3	74.6	62.1
85°	15.7	23.0	29.0	35.5	52.4	80.6	70.5	60.8	53.2	48.0
87.5°	10.5	12.9	17.7	24.2	37.9	63.3	56.0	47.6	34.7	34.7
90°	1.2	1.6	2.4	2.8	5.2	27.0	18.5	22.2	4.0	3.6
92.5°	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
97.5°	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
102.5°	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
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226539

CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT-7030

**CANDELA DISTRIBUTION (continued):**

	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
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)