

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: P271639

Luminaire Tested: **IST-AF-450-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271639  
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: IST-AF-450-LED-E1-T4FT-7027  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

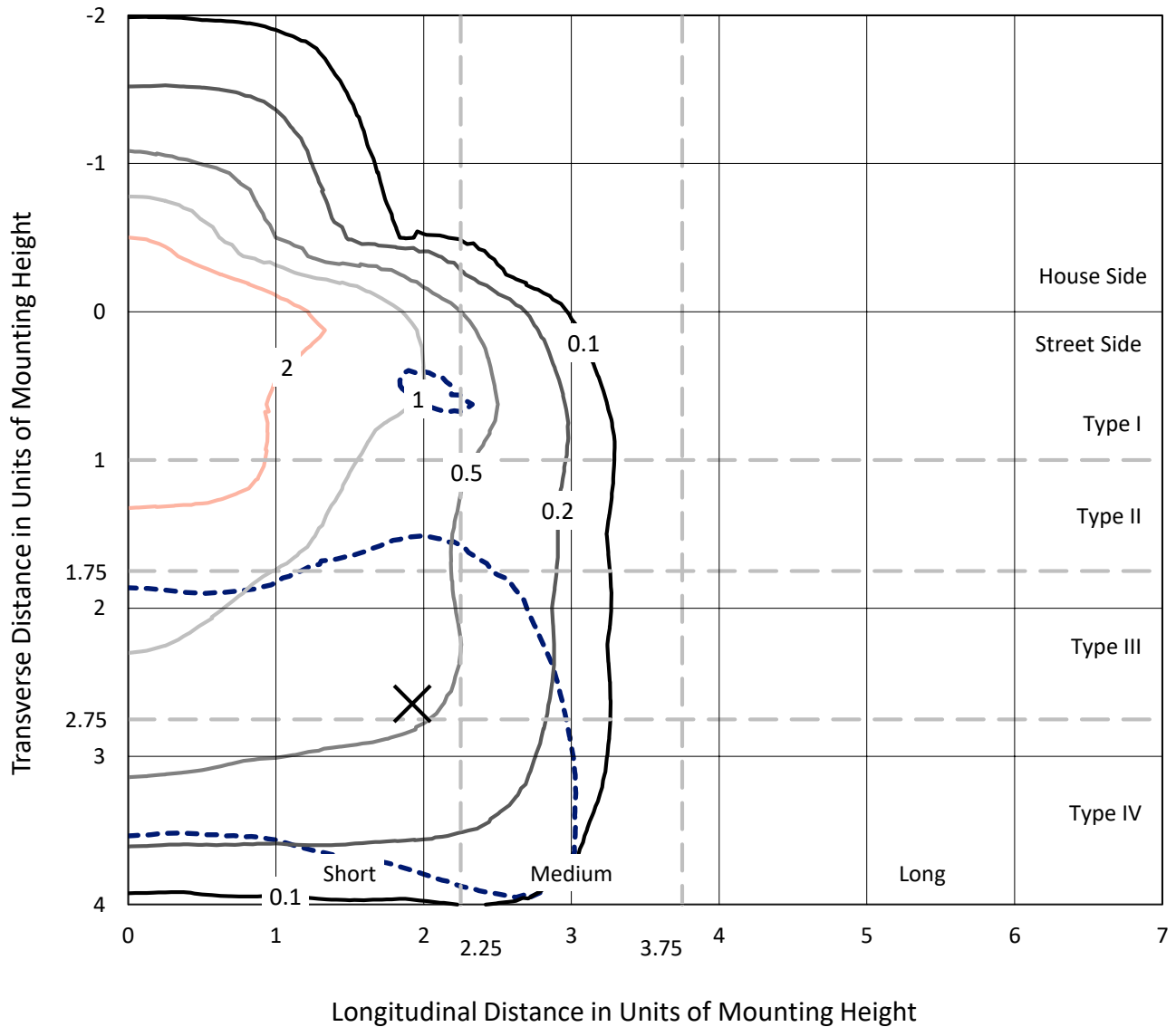
Lumens per Lamp: N/A  
Luminaire Lumens: 2760.4 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U1 - G1  
  
Input Watts (W): 25.31  
Input Voltage (V): 120  
Input 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



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### Iso-Footcandle Lines of Horizontal Illumination

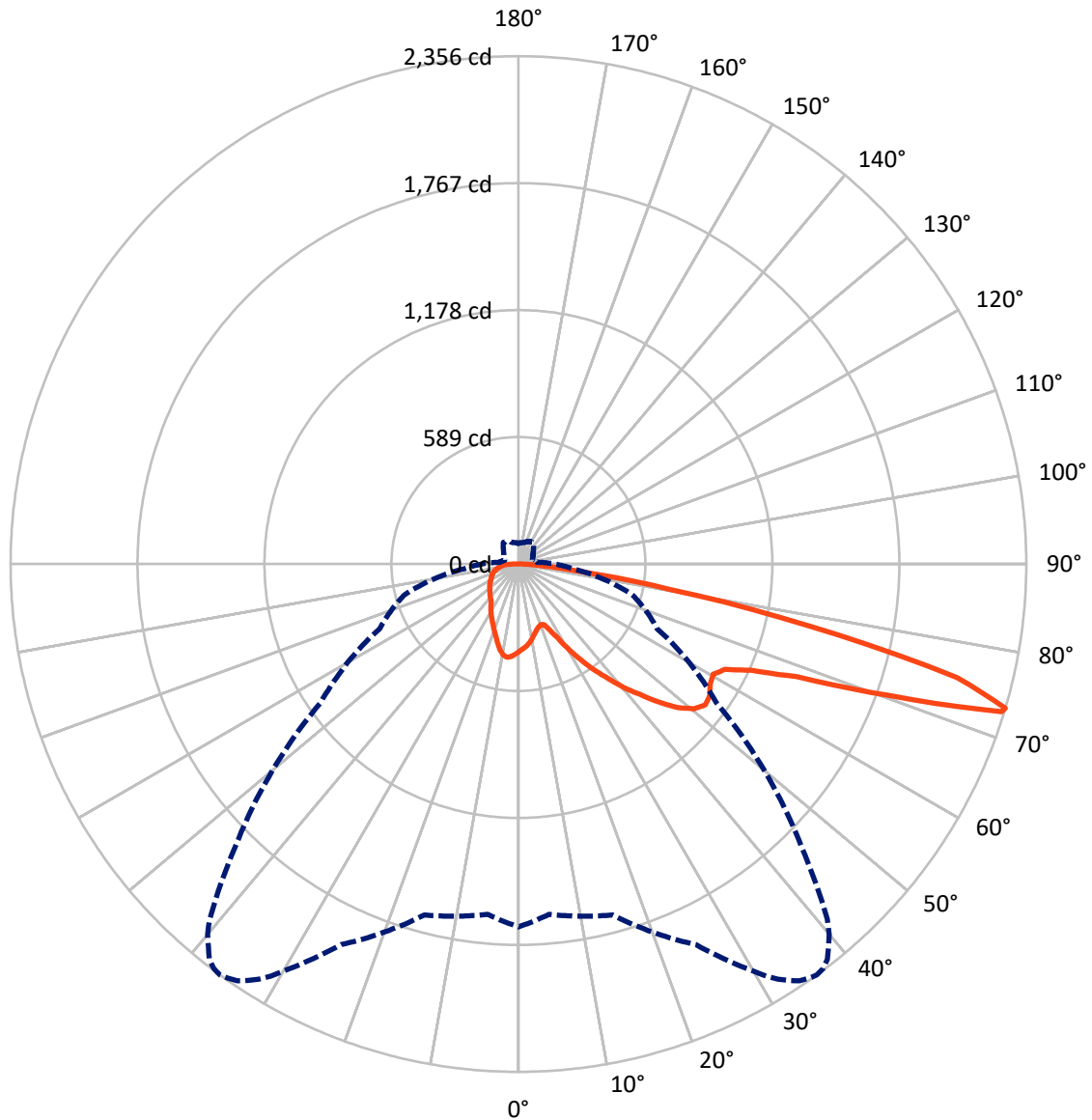
× Max cd  
 - - - 1/2 Max cd



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

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CATALOG NUMBER: IST-AF-450-LED-E1-T4FT-7027

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P271639

CATALOG NUMBER: IST-AF-450-LED-E1-T4FT-7027

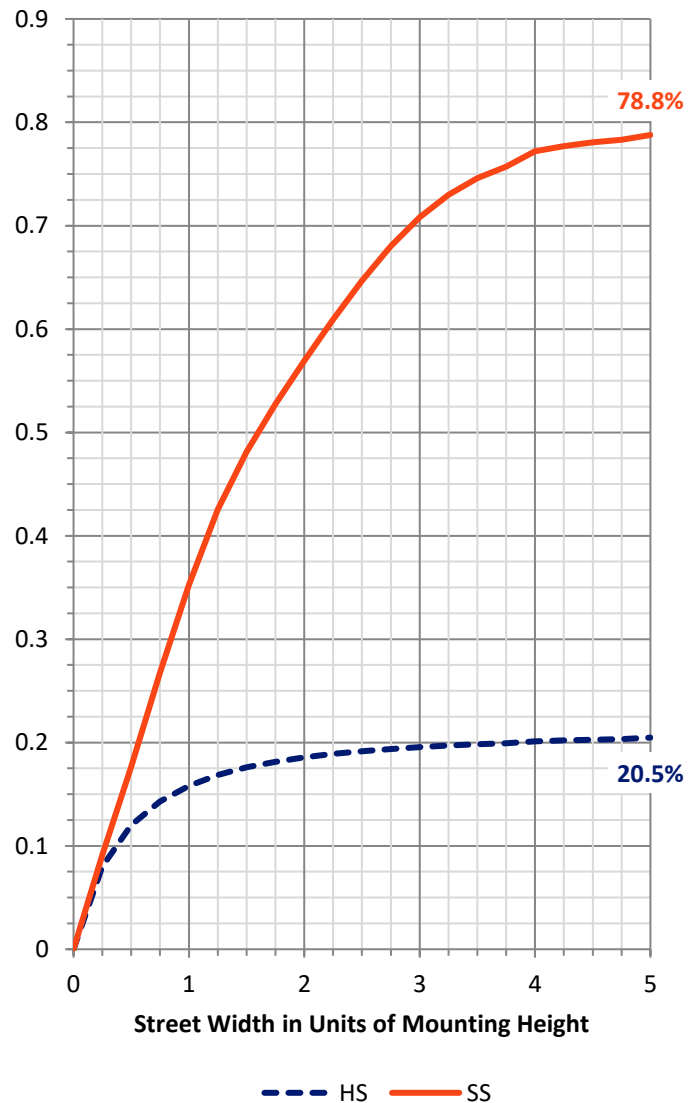
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	582.0	0.6	582.7
	% Fixture	21.1	0.0	21.1
<b>Street Side</b>	Lumens	2177.5	0.2	2177.7
	% Fixture	78.9	0.0	78.9
<b>Total</b>	Lumens	2759.5	0.9	2760.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.2	1.4
10°-20°	101.1	3.7
20°-30°	165.7	6.0
30°-40°	274.6	9.9
40°-50°	403.5	14.6
50°-60°	508.8	18.4
60°-70°	666.3	24.1
70°-80°	539.3	19.5
80°-90°	62.0	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°	2759.5	100.0
0°-180°	2760.4	100.0



REPORT NUMBER: P271639

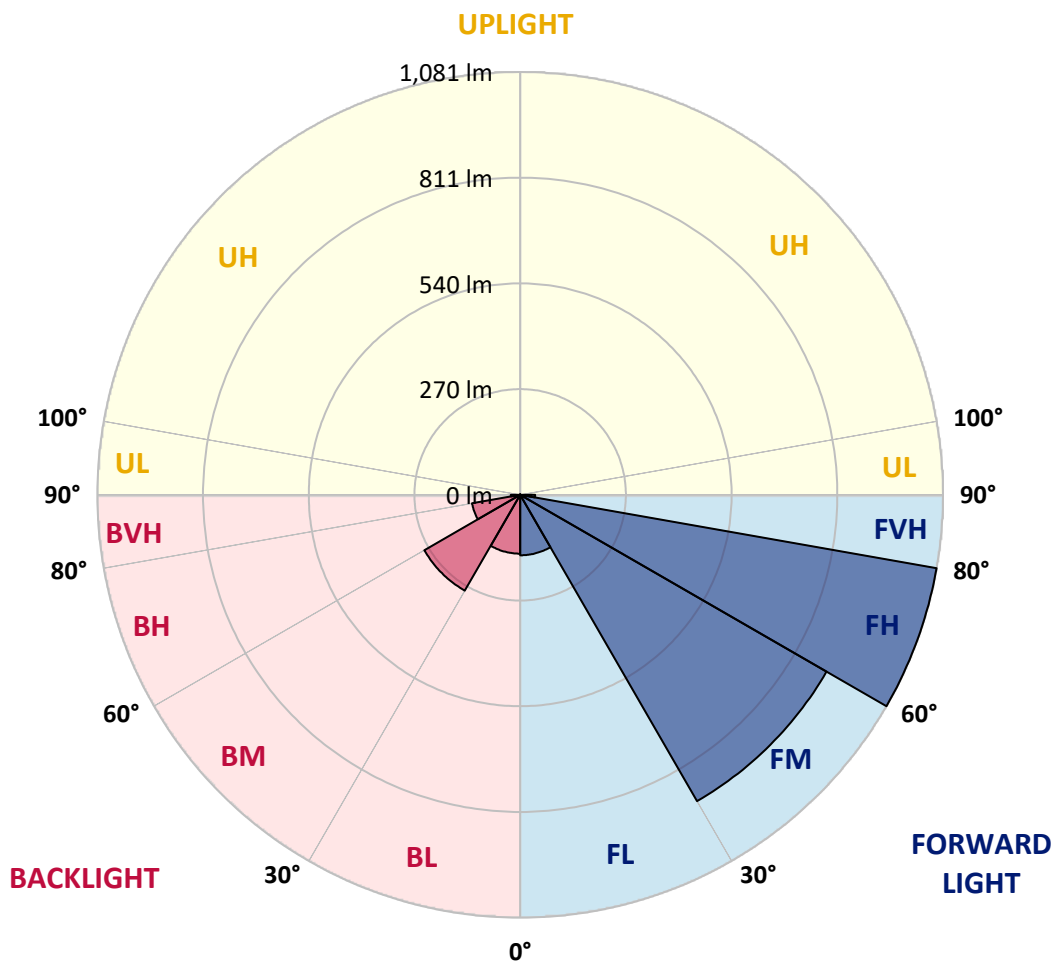
CATALOG NUMBER: IST-AF-450-LED-E1-T4FT-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.5	5.6			
FM	(30°-60°)	904.0	32.7			
FH	(60°-80°)	1080.7	39.2			G1/1800
FVH	(80°-90°)	38.3	1.4			G1/100
BL	(0°-30°)	150.5	5.5	B1/500		
BM	(30°-60°)	282.9	10.2	B1/1000		
BH	(60°-80°)	124.9	4.5	B1/500		G1/500
BVH	(80°-90°)	23.8	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: P271639

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
0°	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3
2.5°	390.8	391.5	392.4	392.4	392.4	393.5	393.2	393.2	393.5	394.0	394.0
5°	376.1	376.5	378.8	379.7	382.0	381.7	381.7	381.7	383.3	382.0	382.9
7.5°	359.5	360.3	362.6	365.4	367.5	367.9	367.5	366.7	368.7	369.5	368.7
10°	339.8	340.2	343.3	345.7	348.8	348.5	349.6	349.6	350.4	350.0	351.6
12.5°	329.9	329.0	327.5	328.7	329.5	329.5	329.5	330.7	330.3	331.0	332.2
15°	328.7	326.7	318.8	316.0	315.2	315.2	314.9	314.5	315.7	316.8	316.8
17.5°	334.2	330.3	314.9	307.0	305.3	304.5	305.0	304.2	304.2	305.7	305.3
20°	361.1	354.0	323.1	305.7	301.0	301.0	300.7	299.5	299.5	299.9	299.9
22.5°	429.5	420.5	366.7	330.7	314.0	313.7	312.4	311.3	308.1	307.3	305.7
25°	524.8	514.2	422.0	383.3	360.0	359.1	353.2	352.5	344.9	345.3	340.2
27.5°	598.8	591.7	496.0	444.5	422.5	417.6	414.8	407.8	401.5	396.3	390.0
30°	624.1	623.0	570.7	529.2	496.0	490.5	482.9	479.8	470.6	463.5	459.2
32.5°	664.0	665.3	643.5	597.6	568.8	563.1	556.9	549.3	543.0	538.3	528.0
35°	721.0	721.4	706.3	672.0	638.8	631.1	627.6	619.0	613.0	607.2	602.0
37.5°	760.5	762.5	751.9	725.4	705.6	694.9	694.5	688.2	681.5	676.3	671.7
40°	836.5	825.8	790.6	773.6	757.5	756.2	752.7	749.1	750.6	747.9	753.0
42.5°	913.3	899.8	850.8	826.6	816.6	818.7	817.5	818.0	822.7	821.5	827.0
45°	979.0	963.4	916.8	888.3	896.1	898.7	905.3	909.3	907.3	914.5	914.5
47.5°	1044.5	1008.5	953.2	966.3	971.8	989.9	994.7	993.5	1000.3	1003.4	994.7
50°	998.3	988.8	984.5	1024.3	1049.3	1055.1	1062.0	1065.5	1068.6	1064.3	1055.6
52.5°	900.6	899.8	961.1	1058.8	1079.8	1087.7	1094.0	1096.7	1095.6	1093.1	1086.1
55°	867.8	861.5	914.5	1023.2	1055.1	1062.8	1071.9	1077.3	1082.9	1082.1	1076.6
57.5°	912.5	907.3	907.6	992.0	1023.2	1029.9	1035.8	1042.1	1043.8	1049.0	1049.3
60°	1042.1	1035.5	981.3	990.8	1022.5	1029.9	1030.7	1034.3	1034.7	1037.5	1037.8
62.5°	1229.2	1217.0	1134.3	1063.1	1074.2	1077.8	1080.5	1079.8	1078.1	1076.2	1076.2
65°	1434.1	1422.6	1316.3	1233.2	1201.1	1209.8	1196.0	1193.3	1190.2	1190.2	1186.5
67.5°	1677.8	1656.0	1573.7	1480.4	1434.1	1438.5	1444.8	1420.7	1412.0	1412.8	1394.2
70°	1926.1	1903.1	1867.1	1866.0	1889.3	1879.1	1849.8	1888.6	1842.7	1831.6	1827.6
72.5°	1789.0	1761.6	1769.1	1992.6	2202.3	2236.2	2268.7	2298.8	2325.6	2341.8	2344.1
73°	1683.7	1632.0	1685.7	1948.3	2180.8	2231.1	2271.5	2303.4	2332.3	2347.0	2356.1
75°	840.8	843.6	1108.6	1607.3	1905.9	1949.1	2011.9	2047.1	2099.4	2126.3	2102.6
77.5°	195.0	202.1	335.8	762.9	1142.6	1204.4	1254.6	1306.0	1366.5	1389.0	1369.3
80°	68.8	72.0	118.3	290.0	477.0	511.0	554.2	610.7	666.8	680.6	715.5
82.5°	36.4	40.0	62.5	125.8	203.6	222.7	233.8	257.1	276.9	288.7	295.0
85°	21.0	21.4	35.7	69.6	93.3	100.9	108.0	113.5	119.8	115.5	115.5
87.5°	8.4	9.2	18.1	32.8	45.1	50.2	50.2	50.2	49.9	43.8	40.0
90°	1.5	2.3	3.5	6.7	5.9	5.9	5.5	4.7	4.3	4.7	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: P271639

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**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: P271639

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**CANDELA DISTRIBUTION (continued):**

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
0°	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3
2.5°	394.7	395.2	394.4	396.0	394.7	394.7	396.7	400.3	403.0	403.8	406.2
5°	383.7	384.0	384.0	384.5	384.0	384.8	388.3	391.5	397.1	399.8	403.4
7.5°	369.5	370.6	370.2	371.0	371.0	371.8	377.3	382.5	388.0	393.2	397.5
10°	352.5	353.2	354.8	354.0	354.0	356.4	362.3	369.8	376.5	384.0	389.1
12.5°	332.2	334.2	333.8	335.3	336.1	337.8	347.6	356.0	364.3	373.0	379.7
15°	316.5	317.6	318.4	318.8	318.8	322.3	332.2	342.5	353.7	363.8	371.0
17.5°	306.1	306.1	307.0	307.3	308.1	310.5	320.8	332.2	344.9	357.5	365.4
20°	300.2	300.2	300.7	301.0	301.0	303.8	313.3	326.4	340.2	356.4	365.9
22.5°	305.0	303.8	303.4	303.4	301.8	301.8	310.8	324.6	342.2	363.1	375.3
25°	337.3	333.8	328.3	327.2	325.1	315.7	314.5	330.3	351.6	377.6	396.3
27.5°	386.0	382.5	378.8	374.5	371.4	354.0	330.3	344.5	369.8	407.0	429.9
30°	449.7	442.5	437.5	432.7	418.9	399.8	363.1	366.7	397.9	447.7	476.6
32.5°	520.8	513.4	505.5	494.3	490.8	460.0	413.0	403.4	433.5	495.1	525.3
35°	589.6	586.1	580.7	576.3	568.0	542.3	477.8	447.7	474.7	550.9	574.3
37.5°	669.6	662.9	663.3	659.7	655.0	633.2	545.0	501.2	519.0	604.3	619.0
40°	748.3	746.7	749.1	743.2	735.3	706.0	594.5	540.3	565.2	655.8	652.2
42.5°	822.7	823.8	821.1	814.3	805.7	756.6	626.1	573.5	606.7	700.9	678.7
45°	907.6	903.3	891.8	880.0	869.3	800.1	643.1	610.7	646.7	749.5	705.6
47.5°	988.0	971.0	961.1	943.0	921.9	839.6	666.0	649.8	691.0	795.4	731.3
50°	1047.0	1031.2	1014.5	992.4	970.2	874.1	696.5	694.1	741.2	846.8	766.5
52.5°	1073.8	1059.2	1042.9	1020.5	998.3	899.0	737.1	737.1	800.5	914.8	815.1
55°	1069.4	1058.8	1044.5	1024.0	1007.0	912.5	779.2	784.7	874.9	988.3	871.4
57.5°	1046.5	1040.6	1032.3	1018.0	1004.2	922.6	828.6	832.2	974.5	1059.2	924.4
60°	1038.6	1036.3	1031.5	1023.2	1012.5	945.3	881.1	889.1	1086.1	1124.0	954.4
62.5°	1073.8	1069.1	1065.5	1057.2	1047.3	1000.6	947.3	949.6	1191.0	1132.0	925.2
65°	1172.6	1164.0	1158.1	1147.0	1135.9	1084.2	1031.5	1005.8	1242.3	1058.0	825.8
67.5°	1380.0	1365.7	1348.6	1327.8	1297.3	1250.6	1115.0	1013.6	1195.6	896.1	651.5
70°	1789.7	1758.8	1719.6	1675.0	1663.5	1527.5	1167.2	955.2	994.0	626.1	431.8
72.5°	2340.3	2308.3	2273.4	2236.6	2163.8	1864.8	1144.2	770.5	618.1	322.0	205.6
73°	2349.3	2327.6	2285.6	2243.0	2183.6	1859.0	1119.3	710.3	545.0	253.5	168.5
75°	2106.9	2098.2	2057.1	1974.8	1924.6	1570.1	824.3	411.7	238.5	156.7	109.5
77.5°	1367.3	1357.8	1334.4	1326.5	1234.0	1018.0	369.0	160.2	129.7	104.0	77.5
80°	728.5	684.1	676.3	644.6	577.0	391.9	126.1	98.1	86.1	69.6	54.2
82.5°	295.5	276.5	269.3	244.0	229.3	117.5	63.3	68.0	57.7	41.1	33.1
85°	108.8	100.1	97.6	79.5	70.0	34.9	38.8	47.9	36.0	23.0	16.6
87.5°	37.5	32.4	28.0	21.8	20.2	14.2	21.4	26.1	23.0	13.8	7.9
90°	2.8	2.3	2.0	1.5	2.0	1.5	2.3	3.5	4.0	2.3	1.5
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



REPORT NUMBER: P271639

CATALOG NUMBER: IST-AF-450-LED-E1-T4FT-7027

**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: P271639

CATALOG NUMBER: IST-AF-450-LED-E1-T4FT-7027

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3
2.5°	407.0	408.5	411.7	414.1	416.1	418.9	419.7	421.2	419.3	421.7
5°	405.3	410.2	416.1	421.7	426.8	431.1	433.2	433.5	433.9	435.5
7.5°	401.5	408.5	418.0	425.5	433.5	436.3	437.5	437.8	435.0	436.3
10°	393.5	405.0	416.8	426.0	429.9	428.0	424.8	419.7	417.3	417.3
12.5°	384.8	399.5	413.3	418.4	414.8	407.4	398.7	389.1	385.6	385.6
15°	377.6	396.3	407.8	404.1	394.0	379.7	367.9	358.0	354.8	353.7
17.5°	373.8	394.7	399.0	388.0	370.6	352.9	341.0	332.6	329.9	329.9
20°	376.9	396.3	389.1	368.7	346.8	330.7	320.3	314.9	312.0	313.3
22.5°	390.3	402.2	380.5	349.6	323.1	309.3	304.5	301.0	300.7	301.4
25°	413.0	410.2	373.0	329.9	301.0	291.1	290.7	289.5	289.2	288.7
27.5°	442.1	420.0	363.8	307.7	278.8	274.2	276.5	276.0	275.7	276.0
30°	481.0	428.7	350.4	283.5	257.8	257.8	261.5	260.3	258.6	259.0
32.5°	517.0	435.0	329.9	256.6	241.3	242.0	243.2	240.0	236.2	237.0
35°	547.8	435.0	302.2	232.5	224.3	224.3	225.0	222.3	219.1	217.9
37.5°	573.5	426.3	267.3	214.3	210.5	210.5	213.5	210.8	204.8	203.6
40°	588.9	407.4	235.4	201.0	203.6	204.1	199.7	195.0	189.5	188.3
42.5°	598.8	379.7	210.0	191.4	199.3	196.2	185.9	178.3	178.0	179.6
45°	607.5	348.5	189.8	182.0	194.7	187.8	174.0	166.9	169.3	170.9
47.5°	616.1	317.2	173.6	171.3	185.9	181.2	166.5	158.6	157.5	159.8
50°	636.8	273.7	155.0	158.6	175.2	173.6	159.8	150.6	143.2	142.8
52.5°	664.5	215.5	139.1	147.5	166.9	169.3	152.3	143.5	133.3	131.7
55°	695.3	165.3	126.1	138.8	159.0	163.0	149.5	136.5	125.3	123.8
57.5°	704.5	130.5	113.9	126.6	148.3	157.0	145.2	128.2	119.8	118.3
60°	673.2	108.3	103.7	116.3	137.6	151.1	138.4	121.8	114.4	113.2
62.5°	577.8	95.7	98.1	109.5	129.7	145.5	133.3	117.0	111.1	110.3
65°	441.0	87.0	93.3	104.0	122.6	140.5	129.7	115.2	110.3	109.5
67.5°	276.9	80.7	88.7	98.1	115.5	134.8	127.0	112.6	109.1	108.0
70°	153.5	74.0	82.3	91.4	108.3	129.7	123.3	109.1	108.8	106.4
72.5°	93.3	66.8	75.5	84.2	100.5	123.3	117.0	104.8	100.9	96.1
73°	89.0	66.0	74.0	82.6	98.5	121.8	115.9	103.2	99.3	94.5
75°	72.0	59.3	67.6	75.2	91.4	115.5	109.1	97.6	91.4	87.9
77.5°	53.0	50.7	58.5	65.7	82.3	106.8	99.6	89.4	81.8	79.9
80°	39.2	42.0	49.5	55.8	72.3	98.1	89.8	79.9	75.2	72.8
82.5°	26.5	32.4	39.5	44.6	64.0	88.7	79.5	70.0	73.2	60.9
85°	15.5	22.5	28.5	34.9	51.5	79.1	69.2	59.6	52.2	47.1
87.5°	10.3	12.7	17.3	23.7	37.2	62.2	55.0	46.7	34.0	34.0
90°	1.2	1.5	2.3	2.8	5.1	26.5	18.1	21.8	4.0	3.5
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: P271639  
 CATALOG NUMBER: IST-AF-450-LED-E1-T4FT-7027

**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)