

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: P226466

Luminaire Tested: **IST-AF-800-LED-E1-T3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226466  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: IST-AF-800-LED-E1-T3-7030  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4544.1 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Cutoff  
BUG Rating: B1 - U1 - G1

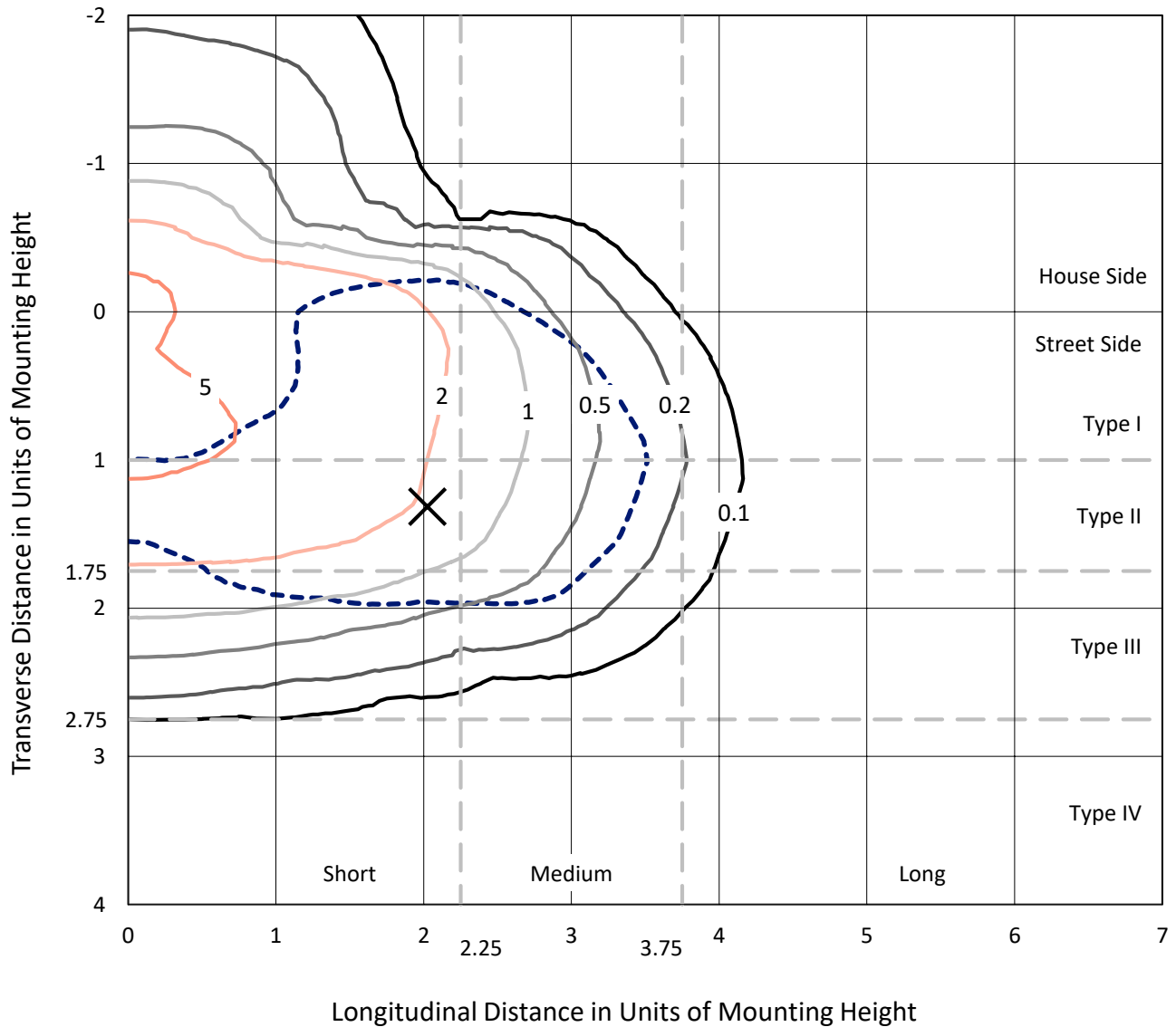
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P226466  
 CATALOG NUMBER: IST-AF-800-LED-E1-T3-7030

### Iso-Footcandle Lines of Horizontal Illumination

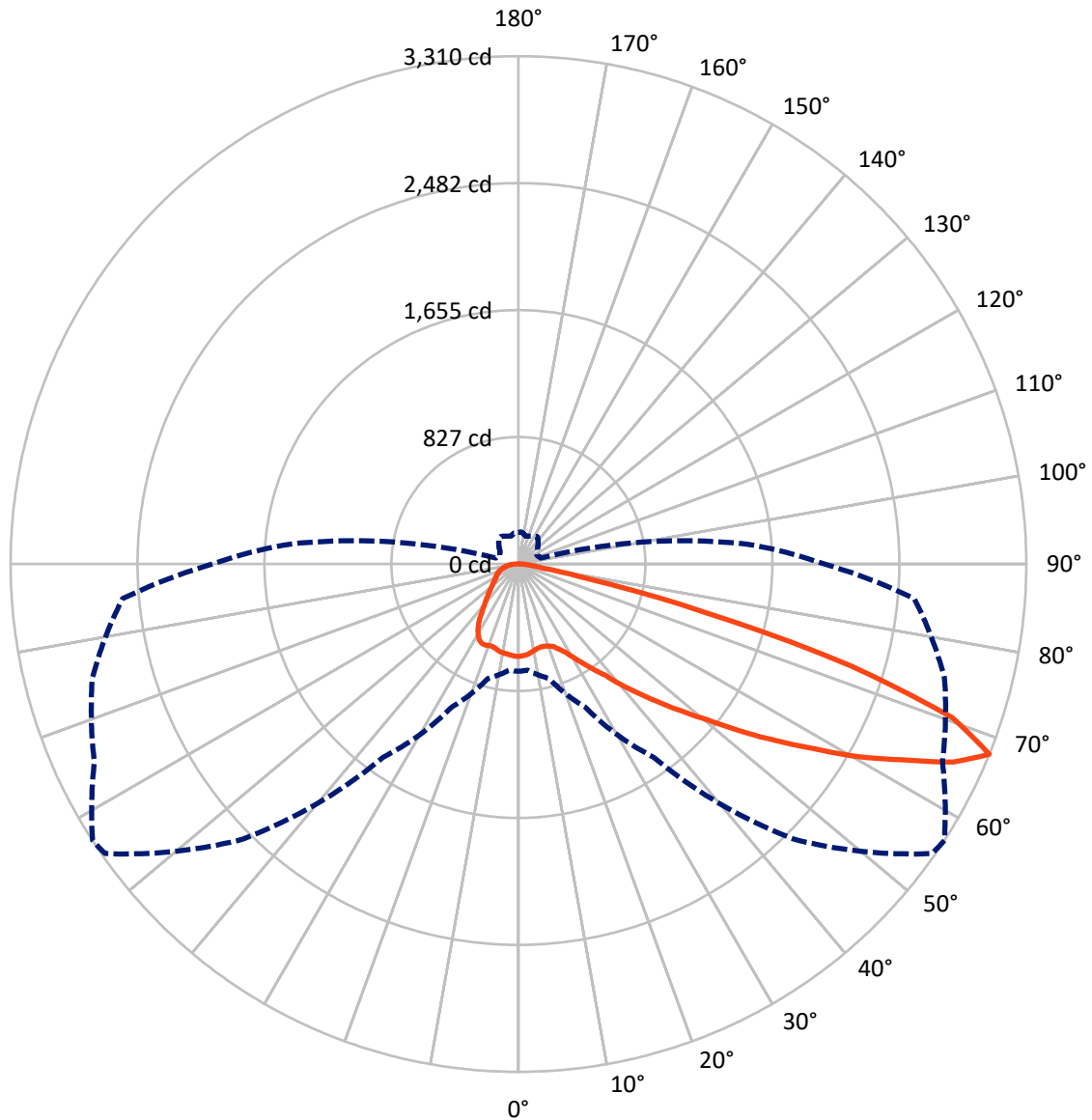
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - Cutoff

REPORT NUMBER: P226466  
CATALOG NUMBER: IST-AF-800-LED-E1-T3-7030

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P226466

CATALOG NUMBER: IST-AF-800-LED-E1-T3-7030

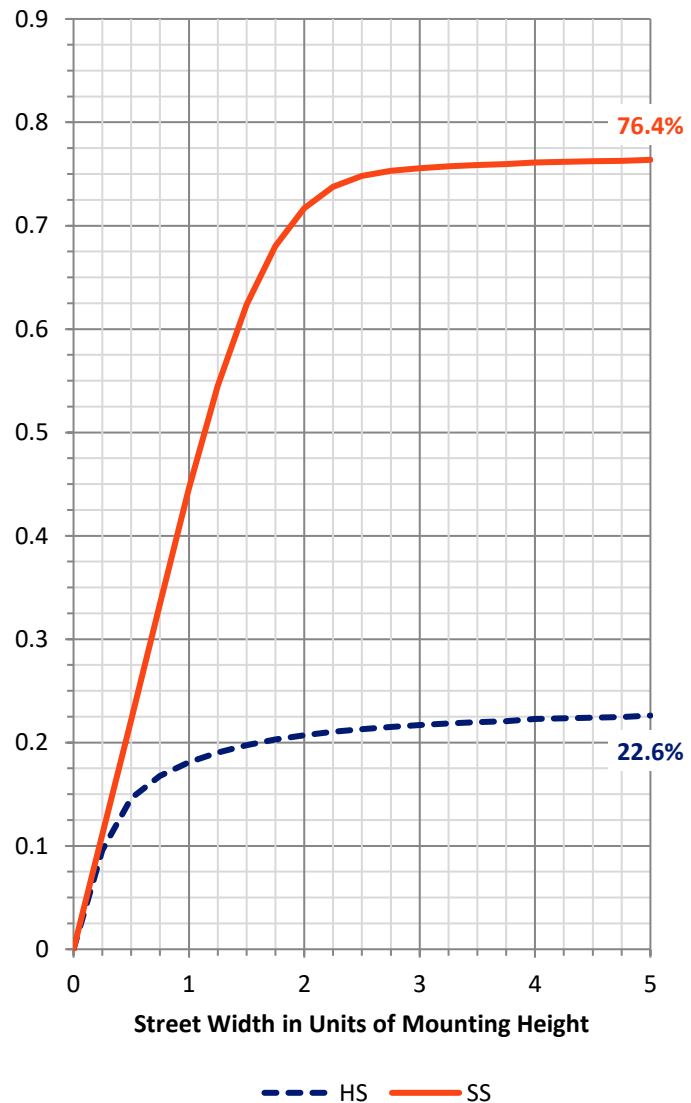
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1057.5	1.3	1058.8
	% Fixture	23.3	0.0	23.3
<b>Street Side</b>	Lumens	3485.0	0.4	3485.3
	% Fixture	76.7	0.0	76.7
<b>Total</b>	Lumens	4542.4	1.7	4544.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.3	1.2
10°-20°	161.9	3.6
20°-30°	278.6	6.1
30°-40°	452.9	10.0
40°-50°	730.6	16.1
50°-60°	1089.2	24.0
60°-70°	1226.7	27.0
70°-80°	472.9	10.4
80°-90°	73.3	1.6
90°-100°	1.7	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°	4542.4	100.0
0°-180°	4544.1	100.0



REPORT NUMBER: P226466

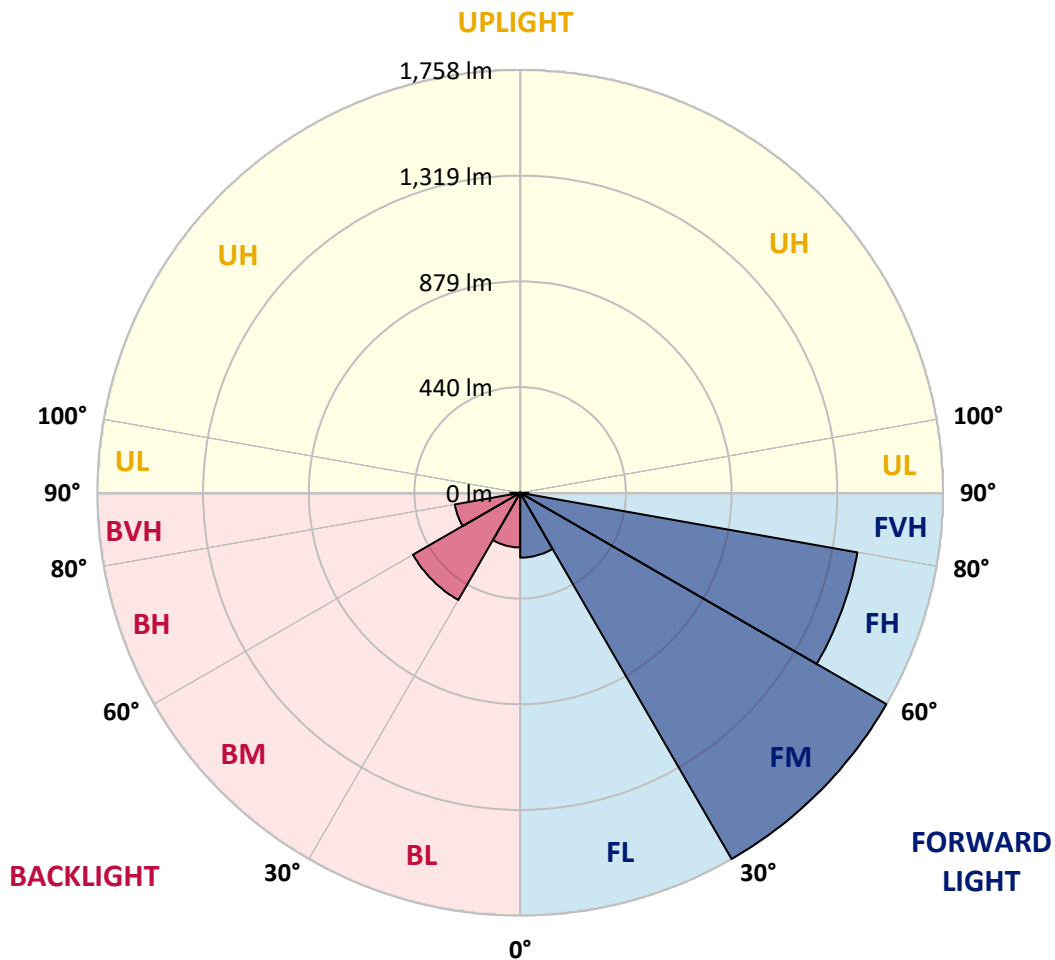
CATALOG NUMBER: IST-AF-800-LED-E1-T3-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.5	5.9			
FM	(30°-60°)	1758.0	38.7			
FH	(60°-80°)	1423.7	31.3			G1/1800
FVH	(80°-90°)	33.6	0.7			G1/100
BL	(0°-30°)	227.2	5.0	B1/500		
BM	(30°-60°)	514.7	11.3	B1/1000		
BH	(60°-80°)	275.9	6.1	B1/500		G1/500
BVH	(80°-90°)	39.6	0.9			G1/100
UL	(90°-100°)	1.7	0.0		U1/10	
UH	(100°-180°)	1.3	0.0		U1/10	

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

Type III Short





REPORT NUMBER: P226466

CATALOG NUMBER: IST-AF-800-LED-E1-T3-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	602.2	602.2	602.2	602.2	602.2	602.2	602.2	602.2	602.2	602.2	602.2
2.5°	597.6	598.9	600.2	599.5	599.5	599.5	599.5	598.2	600.2	600.2	598.9
5°	587.7	588.4	589.0	590.3	591.7	593.0	593.6	593.6	594.3	593.6	592.3
7.5°	573.2	573.9	576.5	576.5	577.8	580.5	581.8	583.1	585.1	585.1	584.4
10°	568.6	568.6	568.6	566.6	568.0	568.6	570.6	570.6	575.9	578.5	579.8
12.5°	573.9	573.2	573.2	568.0	563.4	561.4	563.4	564.0	569.9	573.9	576.5
15°	585.7	585.7	584.4	576.5	567.3	560.1	559.4	559.4	564.0	569.9	574.5
17.5°	613.4	616.0	606.8	594.3	579.1	567.3	562.7	562.0	565.3	569.9	574.5
20°	666.0	665.4	651.5	629.2	602.8	583.1	571.9	570.6	569.9	572.6	577.8
22.5°	728.5	725.9	709.5	681.2	645.0	608.8	587.0	584.4	579.1	581.1	588.4
25°	795.7	796.3	775.9	739.1	693.7	650.2	617.3	614.7	603.5	602.2	610.1
27.5°	862.8	871.4	843.7	808.8	754.9	702.9	654.8	650.9	641.0	637.7	645.6
30°	960.9	957.6	923.3	877.9	824.0	758.8	712.7	705.5	685.8	690.4	698.9
32.5°	1043.8	1051.0	1020.1	966.1	895.0	826.6	773.3	769.3	750.3	755.5	767.4
35°	1145.1	1162.2	1121.4	1055.0	986.5	916.1	852.3	841.7	826.6	837.1	846.3
37.5°	1261.0	1269.5	1237.9	1152.4	1082.6	1008.9	936.5	920.1	903.6	925.3	941.8
40°	1371.5	1385.3	1344.5	1272.1	1191.2	1120.8	1041.8	1038.5	1000.3	1024.0	1066.8
42.5°	1535.4	1552.5	1487.4	1403.1	1330.1	1245.2	1170.1	1152.4	1110.9	1144.5	1216.2
45°	1649.9	1649.3	1605.2	1535.4	1490.6	1408.4	1307.0	1286.0	1241.2	1286.0	1382.1
47.5°	1691.4	1701.2	1686.1	1677.6	1661.8	1601.9	1452.5	1432.7	1390.6	1457.1	1545.9
50°	1752.6	1749.9	1749.9	1802.6	1848.0	1835.5	1622.9	1594.6	1550.5	1630.2	1757.8
52.5°	1768.4	1744.7	1781.5	1882.2	2026.4	2036.9	1821.0	1805.2	1752.6	1830.2	1987.5
55°	1724.3	1718.4	1776.9	1923.0	2150.1	2225.1	2050.7	2029.0	1969.8	2036.2	2235.6
57.5°	1625.6	1640.7	1734.8	1914.5	2235.6	2391.0	2302.8	2271.8	2186.9	2227.1	2481.8
60°	1522.2	1529.5	1653.9	1884.2	2258.7	2506.1	2567.3	2549.6	2404.1	2427.8	2664.1
62.5°	1407.7	1390.6	1519.6	1859.2	2233.0	2664.7	2824.0	2810.2	2638.4	2631.2	2793.7
65°	1087.9	1111.6	1221.5	1536.7	2057.3	2788.5	3130.0	3112.3	2899.7	2799.0	2779.9
67.5°	698.9	694.3	772.0	1027.3	1537.4	2534.4	3289.9	3309.7	3049.1	2874.7	2589.0
70°	250.7	258.0	286.9	466.6	843.1	1688.7	2900.3	2998.4	2939.2	2733.2	2107.3
72.5°	152.7	152.7	173.7	209.9	341.6	800.9	2067.2	2261.3	2398.9	2252.1	1556.5
75°	119.8	119.1	126.4	144.8	184.3	262.6	1099.1	1249.1	1538.7	1555.8	885.8
77.5°	94.8	94.1	101.4	109.9	137.5	138.9	350.8	456.7	706.2	664.7	316.6
80°	76.3	75.7	80.9	83.6	100.7	96.1	140.8	163.2	247.5	217.2	136.9
82.5°	69.1	69.1	74.4	63.8	69.8	67.8	87.5	93.5	124.4	129.0	82.3
85°	44.8	46.1	69.8	61.9	45.4	41.5	55.9	59.2	77.7	84.9	40.1
87.5°	21.1	23.0	53.3	51.3	30.3	22.4	31.6	33.6	42.1	52.0	23.7
90°	3.9	3.9	6.6	7.2	3.9	3.9	5.3	4.6	4.6	6.6	6.6
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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226466

CATALOG NUMBER: IST-AF-800-LED-E1-T3-7030

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
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: P226466

CATALOG NUMBER: IST-AF-800-LED-E1-T3-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	602.2	602.2	602.2	602.2	602.2	602.2	602.2	602.2	602.2	602.2	602.2
2.5°	600.9	599.5	600.2	600.9	601.5	603.5	604.2	604.2	604.2	603.5	604.8
5°	593.6	592.3	592.3	594.3	596.3	598.9	602.8	606.1	607.4	608.1	608.1
7.5°	585.7	584.4	585.1	588.4	591.7	593.6	597.6	599.5	604.8	604.8	606.1
10°	580.5	581.8	582.4	585.7	588.4	588.4	587.7	586.4	585.1	588.4	587.0
12.5°	577.2	579.1	578.5	582.4	583.8	578.5	570.6	560.1	558.7	560.1	561.4
15°	575.9	575.9	577.8	577.8	571.2	560.7	550.8	551.5	552.8	556.8	556.8
17.5°	575.9	576.5	577.8	573.2	561.4	552.2	550.2	548.2	541.0	539.0	537.0
20°	580.5	579.1	580.5	571.9	561.4	554.1	539.0	524.5	510.7	504.8	502.1
22.5°	591.7	589.7	589.0	580.5	567.3	542.9	513.3	491.0	467.3	459.4	456.7
25°	611.4	610.7	606.1	600.2	563.4	516.0	478.5	442.9	417.2	403.4	404.1
27.5°	646.3	646.3	643.6	617.3	542.9	482.4	431.7	395.5	369.2	356.0	354.1
30°	698.9	700.2	701.6	621.9	510.7	433.0	380.4	356.0	340.2	330.4	329.7
32.5°	764.1	771.3	762.8	616.7	466.6	373.2	340.2	331.7	323.8	317.2	316.6
35°	850.3	870.0	816.1	595.6	417.2	332.4	315.9	310.0	304.1	299.4	300.1
37.5°	966.1	985.2	850.3	560.1	354.1	309.3	302.1	292.9	283.7	273.8	272.5
40°	1103.0	1097.1	862.1	492.9	314.6	298.1	288.3	276.4	260.6	246.1	243.5
42.5°	1239.9	1200.4	852.3	410.0	288.9	288.3	274.4	259.3	243.5	231.0	231.0
45°	1393.2	1291.2	822.0	332.4	268.5	277.7	260.6	244.8	230.3	221.1	220.5
47.5°	1538.0	1376.1	772.0	277.1	248.1	263.9	250.1	235.6	221.8	213.9	211.9
50°	1707.8	1472.9	733.8	239.6	228.4	250.1	244.2	231.0	217.8	208.6	207.3
52.5°	1879.6	1567.0	704.8	213.9	210.6	239.6	241.5	233.6	219.8	202.0	200.7
55°	2059.3	1684.8	646.9	193.5	194.8	231.7	244.8	238.9	229.0	200.1	198.8
57.5°	2210.0	1793.4	545.6	179.7	182.3	225.7	246.1	234.9	223.8	201.4	199.4
60°	2327.8	1867.7	400.1	168.5	171.1	219.2	240.2	221.1	206.7	201.4	198.1
62.5°	2364.0	1870.4	265.9	155.3	162.6	208.0	229.7	213.9	196.8	199.4	198.1
65°	2273.2	1771.7	190.2	142.8	155.3	194.8	225.1	206.7	192.2	202.7	201.4
67.5°	1993.4	1492.6	152.7	132.9	145.4	181.0	216.5	200.1	188.2	209.9	206.0
70°	1553.2	1070.8	129.6	123.1	134.9	167.8	204.7	192.8	183.0	204.0	198.8
72.5°	1024.0	630.5	114.5	113.9	122.4	156.6	191.5	186.2	174.4	184.9	177.0
75°	534.4	292.2	99.4	103.3	108.6	146.8	179.7	174.4	161.2	165.2	162.6
77.5°	209.9	136.9	86.2	90.8	96.7	132.3	164.5	159.3	148.1	144.8	144.1
80°	115.2	92.1	71.7	77.7	81.6	119.1	148.7	142.8	131.0	129.0	127.0
82.5°	73.1	59.9	59.2	63.2	68.4	106.0	133.6	124.4	114.5	134.9	109.2
85°	34.2	35.5	42.1	47.4	53.3	90.2	116.5	106.6	96.7	94.1	83.6
87.5°	19.1	23.7	27.6	32.2	36.9	63.2	92.1	82.9	72.4	61.9	63.8
90°	4.6	4.6	7.9	7.2	7.9	9.2	45.4	40.8	36.2	17.1	11.2
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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226466

CATALOG NUMBER: IST-AF-800-LED-E1-T3-7030

**CANDELA DISTRIBUTION (continued):**

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