

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: P226459

Luminaire Tested: **IST-AF-800-LED-E1-T3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226459  
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-T3-8030  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4188.9 lumens  
Efficiency: N/A  
Efficacy: 96.3 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

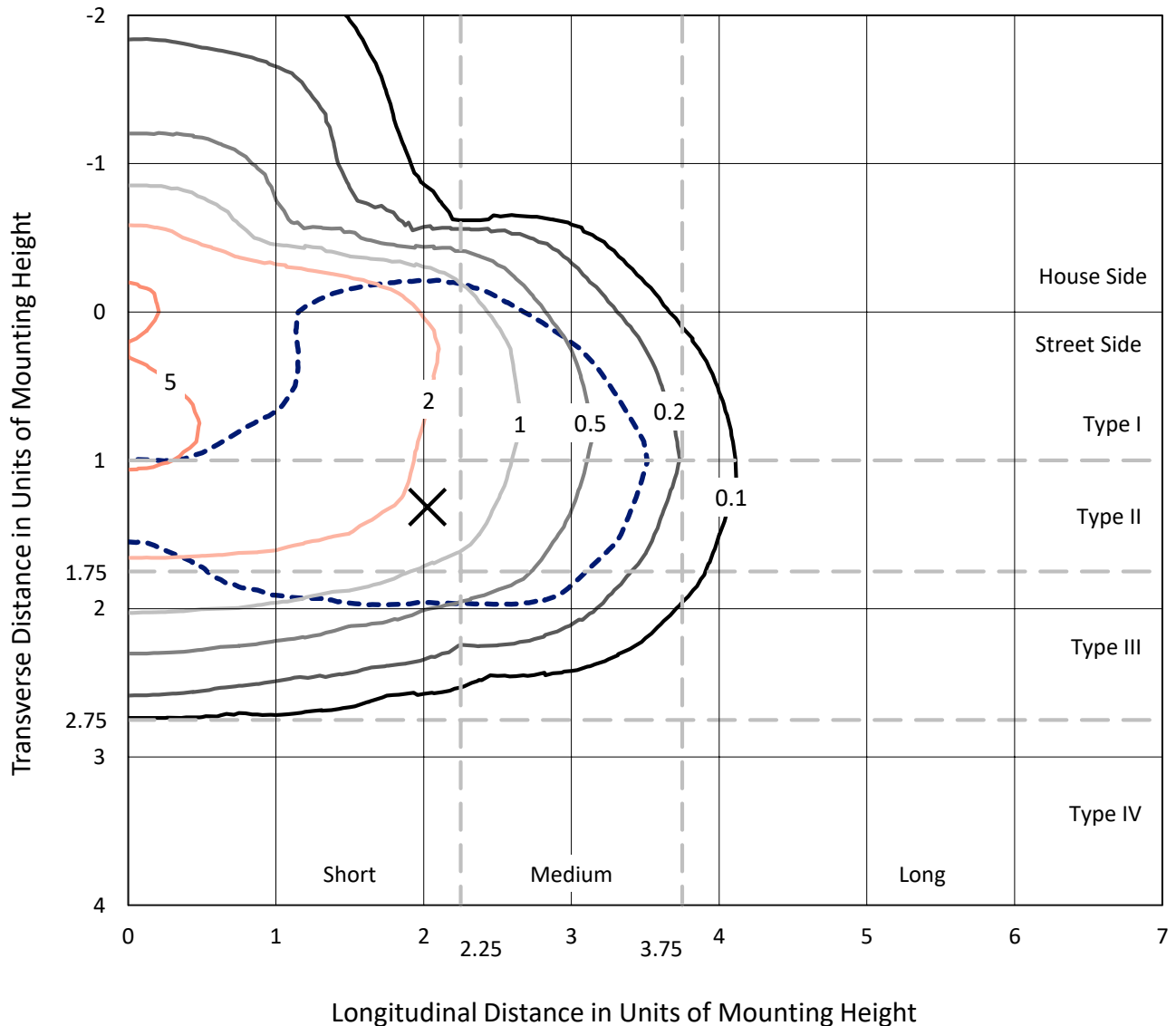


REPORT NUMBER: P226459

CATALOG NUMBER: IST-AF-800-LED-E1-T3-8030

### Iso-Footcandle Lines of Horizontal Illumination

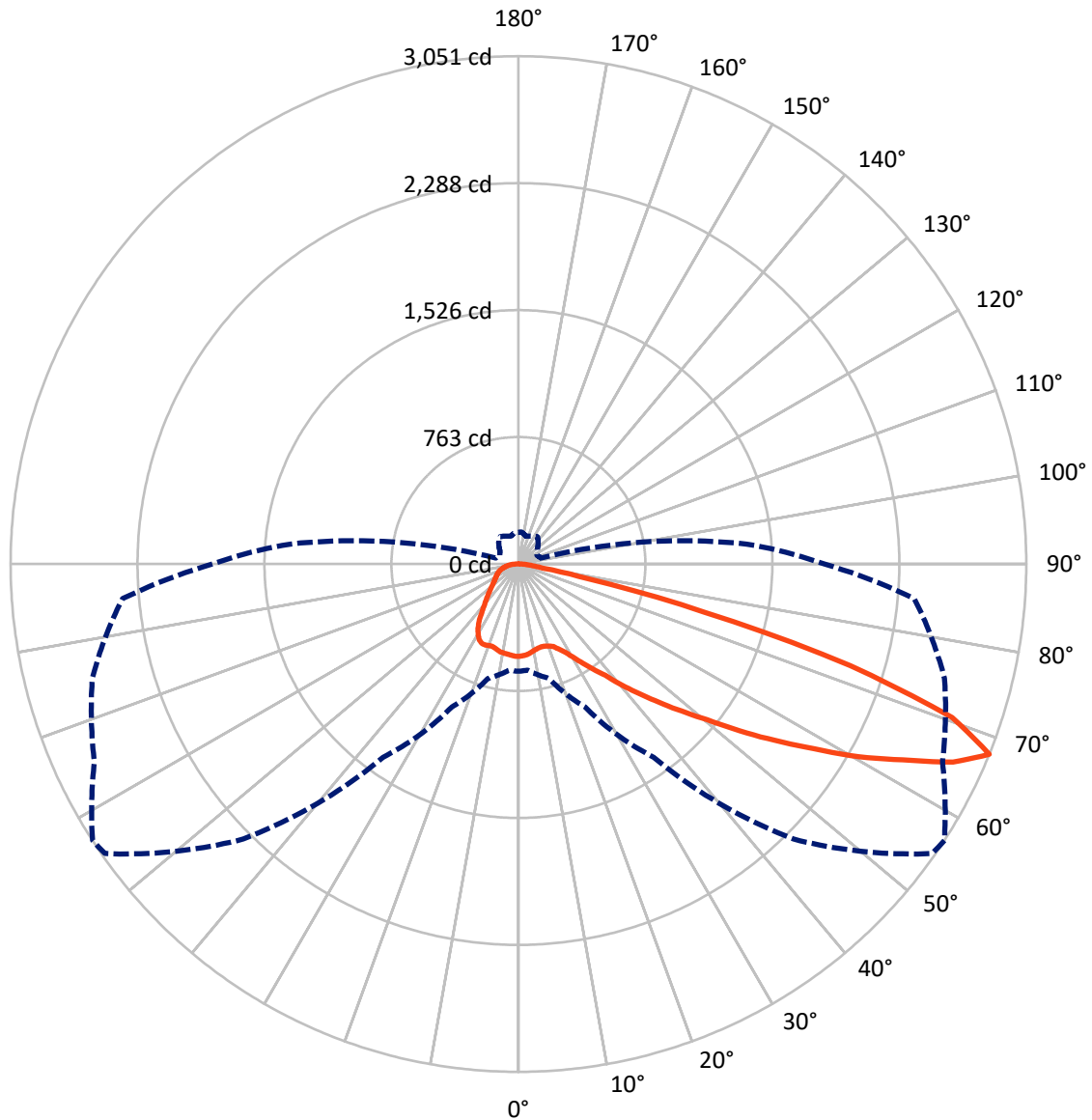
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Short - Cutoff

REPORT NUMBER: P226459  
CATALOG NUMBER: IST-AF-800-LED-E1-T3-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P226459

CATALOG NUMBER: IST-AF-800-LED-E1-T3-8030

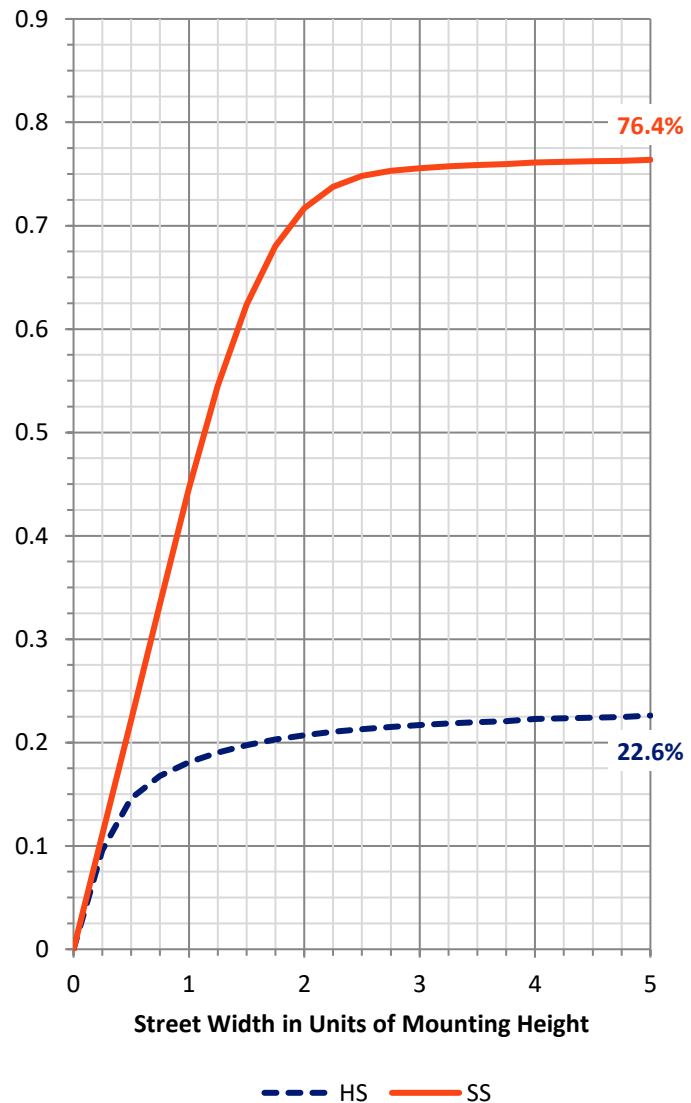
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	974.8	1.2	976.0
	% Fixture	23.3	0.0	23.3
<b>Street Side</b>	Lumens	3212.5	0.3	3212.8
	% Fixture	76.7	0.0	76.7
<b>Total</b>	Lumens	4187.3	1.6	4188.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.9	1.2
10°-20°	149.2	3.6
20°-30°	256.8	6.1
30°-40°	417.5	10.0
40°-50°	673.5	16.1
50°-60°	1004.0	24.0
60°-70°	1130.8	27.0
70°-80°	436.0	10.4
80°-90°	67.6	1.6
90°-100°	1.6	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°	4187.3	100.0
0°-180°	4188.9	100.0



REPORT NUMBER: P226459

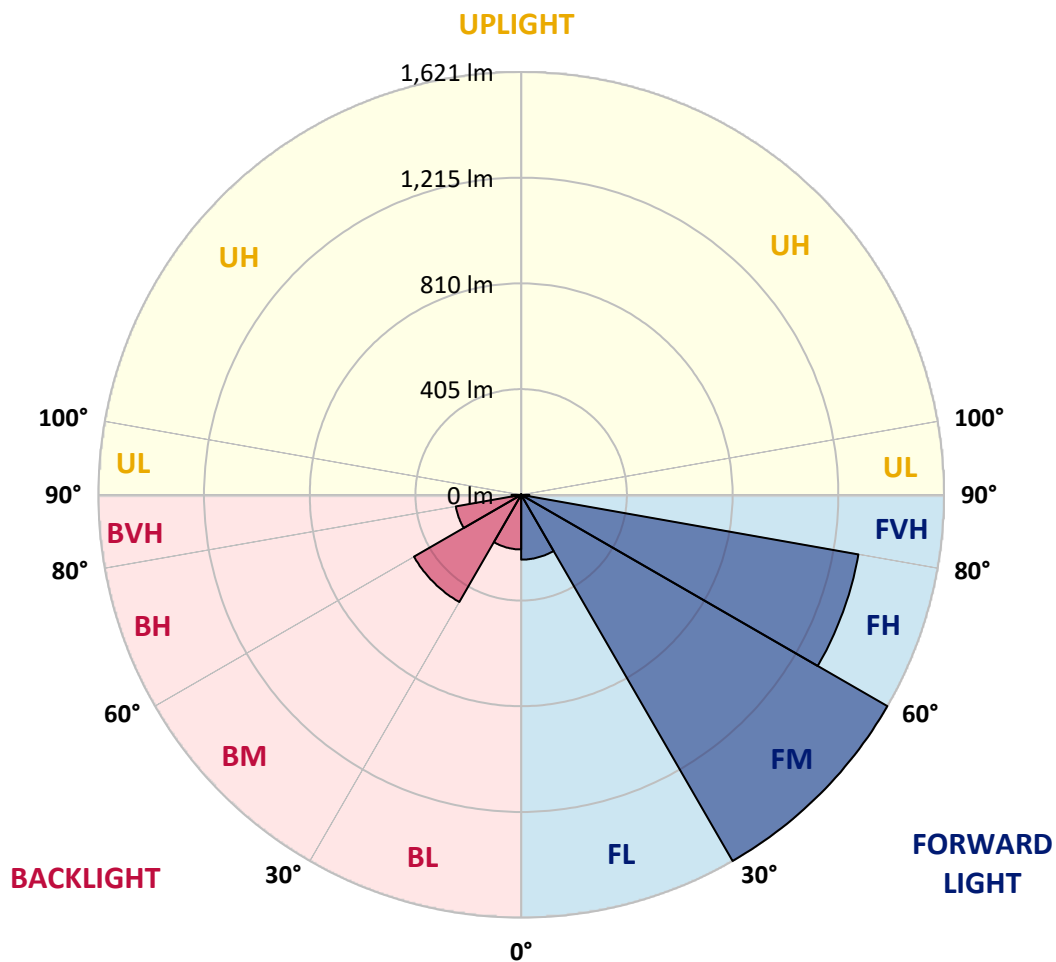
CATALOG NUMBER: IST-AF-800-LED-E1-T3-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.5	5.9			
FM	(30°-60°)	1620.6	38.7			
FH	(60°-80°)	1312.4	31.3			G1/1800
FVH	(80°-90°)	31.0	0.7			G1/100
BL	(0°-30°)	209.5	5.0	B1/500		
BM	(30°-60°)	474.4	11.3	B1/1000		
BH	(60°-80°)	254.4	6.1	B1/500		G1/500
BVH	(80°-90°)	36.5	0.9			G1/100
UL	(90°-100°)	1.6	0.0		U1/10	
UH	(100°-180°)	1.2	0.0		U1/10	

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

Type III Short





REPORT NUMBER: P226459

CATALOG NUMBER: IST-AF-800-LED-E1-T3-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1
2.5°	550.9	552.1	553.3	552.7	552.7	552.7	552.7	551.5	553.3	553.3	552.1
5°	541.8	542.4	543.0	544.2	545.4	546.6	547.2	547.2	547.8	547.2	546.0
7.5°	528.4	529.0	531.4	531.4	532.7	535.1	536.3	537.5	539.3	539.3	538.7
10°	524.2	524.2	524.2	522.3	523.6	524.2	526.0	526.0	530.8	533.3	534.5
12.5°	529.0	528.4	528.4	523.6	519.3	517.5	519.3	519.9	525.4	529.0	531.4
15°	539.9	539.9	538.7	531.4	523.0	516.3	515.7	515.7	519.9	525.4	529.6
17.5°	565.4	567.8	559.4	547.8	533.9	523.0	518.7	518.1	521.1	525.4	529.6
20°	614.0	613.3	600.6	580.0	555.7	537.5	527.2	526.0	525.4	527.8	532.7
22.5°	671.6	669.2	654.0	627.9	594.5	561.2	541.2	538.7	533.9	535.7	542.4
25°	733.5	734.1	715.3	681.3	639.4	599.4	569.1	566.6	556.3	555.1	562.4
27.5°	795.3	803.2	777.8	745.6	695.9	647.9	603.6	600.0	590.9	587.9	595.1
30°	885.7	882.7	851.2	809.3	759.6	699.5	657.0	650.4	632.2	636.4	644.3
32.5°	962.2	968.9	940.3	890.6	825.1	762.0	712.8	709.2	691.6	696.5	707.4
35°	1055.6	1071.4	1033.8	972.5	909.4	844.5	785.6	775.9	762.0	771.7	780.2
37.5°	1162.4	1170.3	1141.2	1062.3	998.0	930.0	863.3	848.1	833.0	853.0	868.1
40°	1264.3	1277.0	1239.4	1172.7	1098.1	1033.2	960.4	957.3	922.1	944.0	983.4
42.5°	1415.4	1431.1	1371.1	1293.4	1226.1	1147.8	1078.7	1062.3	1024.1	1055.0	1121.1
45°	1520.9	1520.3	1479.7	1415.4	1374.1	1298.3	1204.9	1185.4	1144.2	1185.4	1274.0
47.5°	1559.1	1568.2	1554.3	1546.4	1531.8	1476.6	1338.9	1320.7	1281.9	1343.2	1425.1
50°	1615.6	1613.1	1613.1	1661.7	1703.5	1692.0	1496.1	1470.0	1429.3	1502.7	1620.4
52.5°	1630.1	1608.3	1642.3	1735.1	1867.9	1877.7	1678.7	1664.1	1615.6	1687.2	1832.2
55°	1589.5	1584.0	1638.0	1772.7	1982.0	2051.2	1890.4	1870.4	1815.8	1877.0	2060.9
57.5°	1498.5	1512.4	1599.2	1764.8	2060.9	2204.0	2122.7	2094.2	2016.0	2053.0	2287.8
60°	1403.2	1409.9	1524.6	1736.9	2082.1	2310.2	2366.6	2350.3	2216.2	2238.0	2455.8
62.5°	1297.7	1281.9	1400.8	1713.9	2058.4	2456.4	2603.2	2590.5	2432.2	2425.5	2575.3
65°	1002.8	1024.7	1126.0	1416.6	1896.5	2570.5	2885.3	2869.0	2673.0	2580.2	2562.6
67.5°	644.3	640.0	711.6	947.0	1417.2	2336.3	3032.8	3051.0	2810.7	2649.9	2386.7
70°	231.1	237.8	264.5	430.1	777.1	1556.7	2673.6	2764.0	2709.4	2519.5	1942.6
72.5°	140.7	140.7	160.2	193.5	314.9	738.3	1905.6	2084.5	2211.3	2076.0	1434.8
75°	110.4	109.8	116.5	133.5	169.9	242.1	1013.1	1151.5	1418.4	1434.2	816.6
77.5°	87.4	86.8	93.4	101.3	126.8	128.0	323.4	421.0	651.0	612.7	291.8
80°	70.4	69.8	74.6	77.0	92.8	88.6	129.8	150.5	228.1	200.2	126.2
82.5°	63.7	63.7	68.6	58.8	64.3	62.5	80.7	86.1	114.7	118.9	75.8
85°	41.3	42.5	64.3	57.0	41.9	38.2	51.6	54.6	71.6	78.3	37.0
87.5°	19.4	21.2	49.1	47.3	27.9	20.6	29.1	30.9	38.8	47.9	21.8
90°	3.6	3.6	6.1	6.7	3.6	3.6	4.9	4.2	4.2	6.1	6.1
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: P226459

CATALOG NUMBER: IST-AF-800-LED-E1-T3-8030

**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: P226459

CATALOG NUMBER: IST-AF-800-LED-E1-T3-8030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1
2.5°	553.9	552.7	553.3	553.9	554.5	556.3	556.9	556.9	556.9	556.3	557.5
5°	547.2	546.0	546.0	547.8	549.6	552.1	555.7	558.7	560.0	560.6	560.6
7.5°	539.9	538.7	539.3	542.4	545.4	547.2	550.9	552.7	557.5	557.5	558.7
10°	535.1	536.3	536.9	539.9	542.4	542.4	541.8	540.5	539.3	542.4	541.2
12.5°	532.1	533.9	533.3	536.9	538.1	533.3	526.0	516.3	515.1	516.3	517.5
15°	530.8	530.8	532.7	532.7	526.6	516.9	507.8	508.4	509.6	513.2	513.2
17.5°	530.8	531.4	532.7	528.4	517.5	509.0	507.2	505.4	498.7	496.9	495.0
20°	535.1	533.9	535.1	527.2	517.5	510.8	496.9	483.5	470.8	465.3	462.9
22.5°	545.4	543.6	543.0	535.1	523.0	500.5	473.2	452.6	430.7	423.5	421.0
25°	563.6	563.0	558.7	553.3	519.3	475.6	441.1	408.3	384.6	371.9	372.5
27.5°	595.8	595.8	593.3	569.1	500.5	444.7	398.0	364.6	340.3	328.2	326.4
30°	644.3	645.5	646.7	573.3	470.8	399.2	350.7	328.2	313.6	304.5	303.9
32.5°	704.3	711.0	703.1	568.5	430.1	344.0	313.6	305.8	298.5	292.4	291.8
35°	783.8	802.0	752.3	549.0	384.6	306.4	291.2	285.7	280.3	276.0	276.6
37.5°	890.6	908.2	783.8	516.3	326.4	285.1	278.5	270.0	261.5	252.4	251.2
40°	1016.8	1011.3	794.7	454.4	290.0	274.8	265.7	254.8	240.2	226.9	224.5
42.5°	1143.0	1106.6	785.6	378.0	266.3	265.7	253.0	239.0	224.5	212.9	212.9
45°	1284.3	1190.3	757.7	306.4	247.5	256.0	240.2	225.7	212.3	203.8	203.2
47.5°	1417.8	1268.6	711.6	255.4	228.7	243.3	230.5	217.2	204.4	197.2	195.3
50°	1574.3	1357.7	676.4	220.8	210.5	230.5	225.1	212.9	200.8	192.3	191.1
52.5°	1732.7	1444.5	649.7	197.2	194.1	220.8	222.6	215.4	202.6	186.2	185.0
55°	1898.3	1553.1	596.4	178.4	179.6	213.5	225.7	220.2	211.1	184.4	183.2
57.5°	2037.2	1653.2	502.9	165.6	168.0	208.1	226.9	216.6	206.3	185.6	183.8
60°	2145.8	1721.7	368.9	155.3	157.7	202.0	221.4	203.8	190.5	185.6	182.6
62.5°	2179.2	1724.2	245.1	143.2	149.8	191.7	211.7	197.2	181.4	183.8	182.6
65°	2095.4	1633.2	175.3	131.6	143.2	179.6	207.5	190.5	177.1	186.9	185.6
67.5°	1837.6	1375.9	140.7	122.5	134.1	166.8	199.6	184.4	173.5	193.5	189.9
70°	1431.7	987.1	119.5	113.4	124.4	154.7	188.7	177.8	168.7	188.1	183.2
72.5°	944.0	581.2	105.6	105.0	112.8	144.4	176.5	171.7	160.8	170.5	163.2
75°	492.6	269.4	91.6	95.2	100.1	135.3	165.6	160.8	148.6	152.3	149.8
77.5°	193.5	126.2	79.5	83.7	89.2	121.9	151.7	146.8	136.5	133.5	132.9
80°	106.2	84.9	66.1	71.6	75.2	109.8	137.1	131.6	120.7	118.9	117.1
82.5°	67.3	55.2	54.6	58.2	63.1	97.7	123.2	114.7	105.6	124.4	100.7
85°	31.5	32.8	38.8	43.7	49.1	83.1	107.4	98.3	89.2	86.8	77.0
87.5°	17.6	21.8	25.5	29.7	34.0	58.2	84.9	76.4	66.7	57.0	58.8
90°	4.2	4.2	7.3	6.7	7.3	8.5	41.9	37.6	33.4	15.8	10.3
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: P226459

CATALOG NUMBER: IST-AF-800-LED-E1-T3-8030

**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)