

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: P226719

Luminaire Tested: **IST-AF-800-LED-E1-T4W-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226719  
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-800-LED-E1-T4W-8030  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4182.8 lumens  
Efficiency: N/A  
Efficacy: 96.2 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

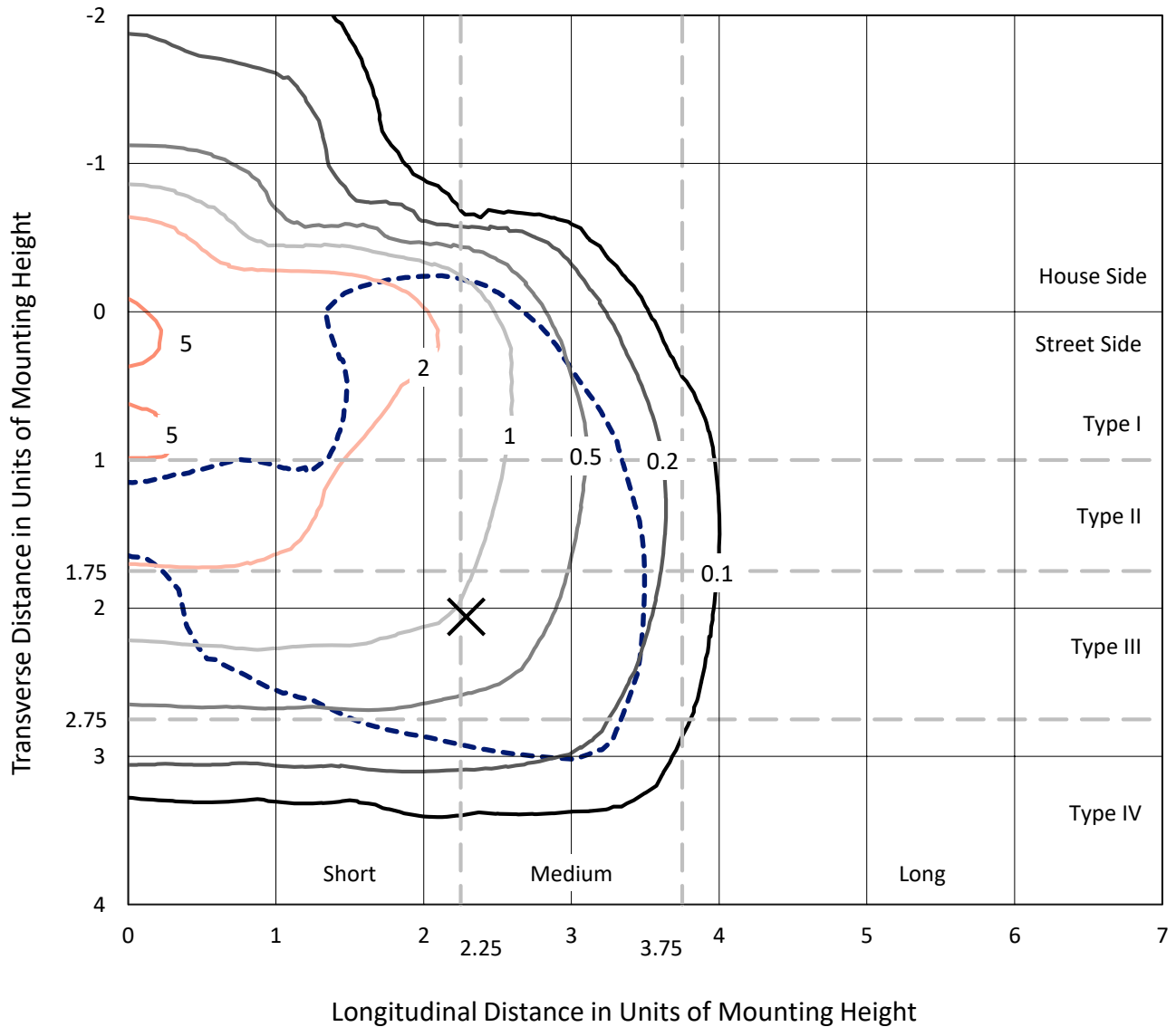
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: IST-AF-800-LED-E1-T4W-8030

### Iso-Footcandle Lines of Horizontal Illumination

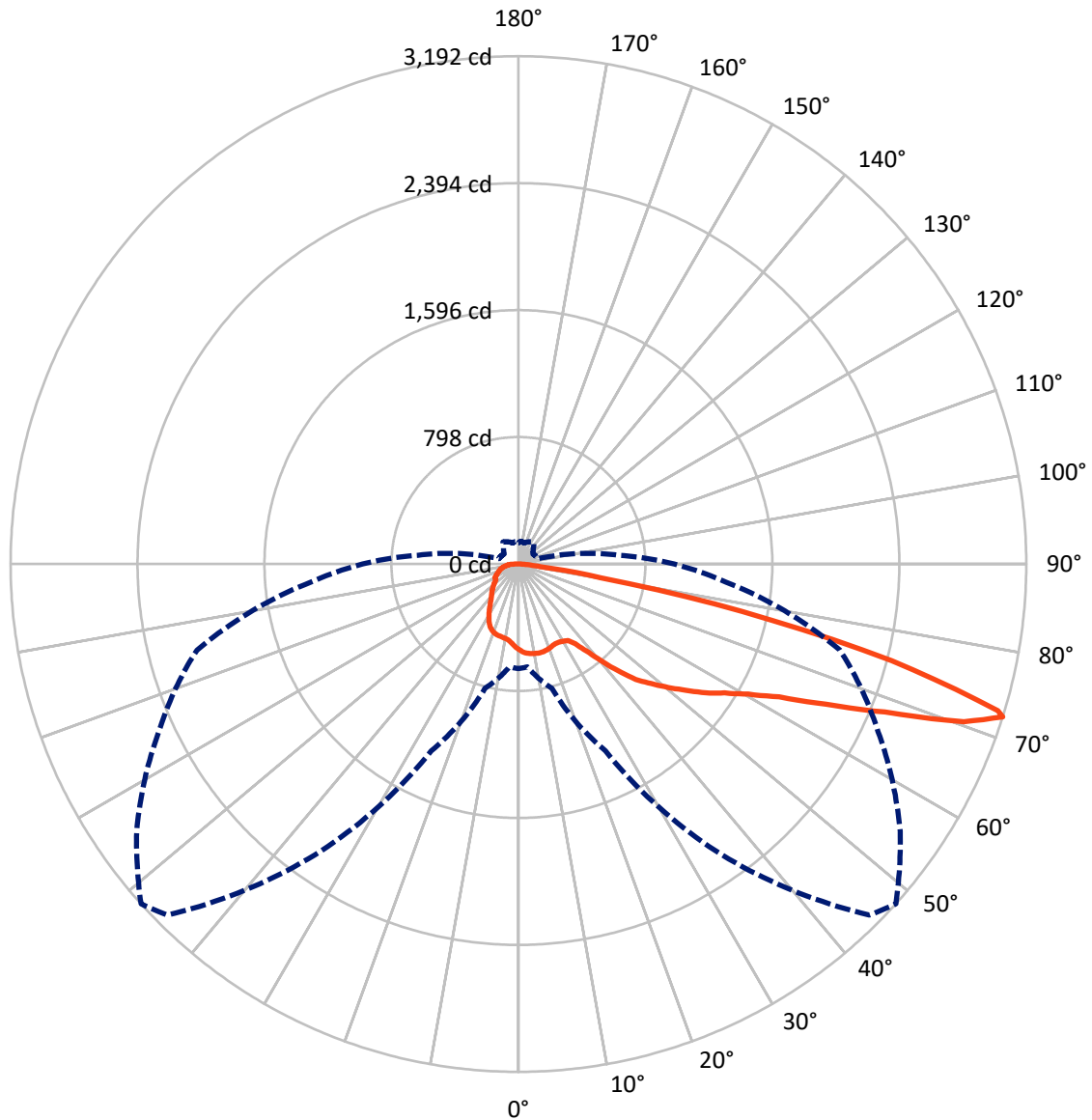
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	908.5	1.9	910.3
	% Fixture	21.7	0.0	21.8
<b>Street Side</b>	Lumens	3271.8	0.7	3272.5
	% Fixture	78.2	0.0	78.2
<b>Total</b>	Lumens	4180.3	2.5	4182.8
	% Fixture	99.9	0.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.9	1.2
10°-20°	148.6	3.6
20°-30°	229.2	5.5
30°-40°	343.5	8.2
40°-50°	572.0	13.7
50°-60°	893.9	21.4
60°-70°	1180.8	28.2
70°-80°	683.0	16.3
80°-90°	78.3	1.9
90°-100°	2.5	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°	4180.3	99.9
0°-180°	4182.8	100.0



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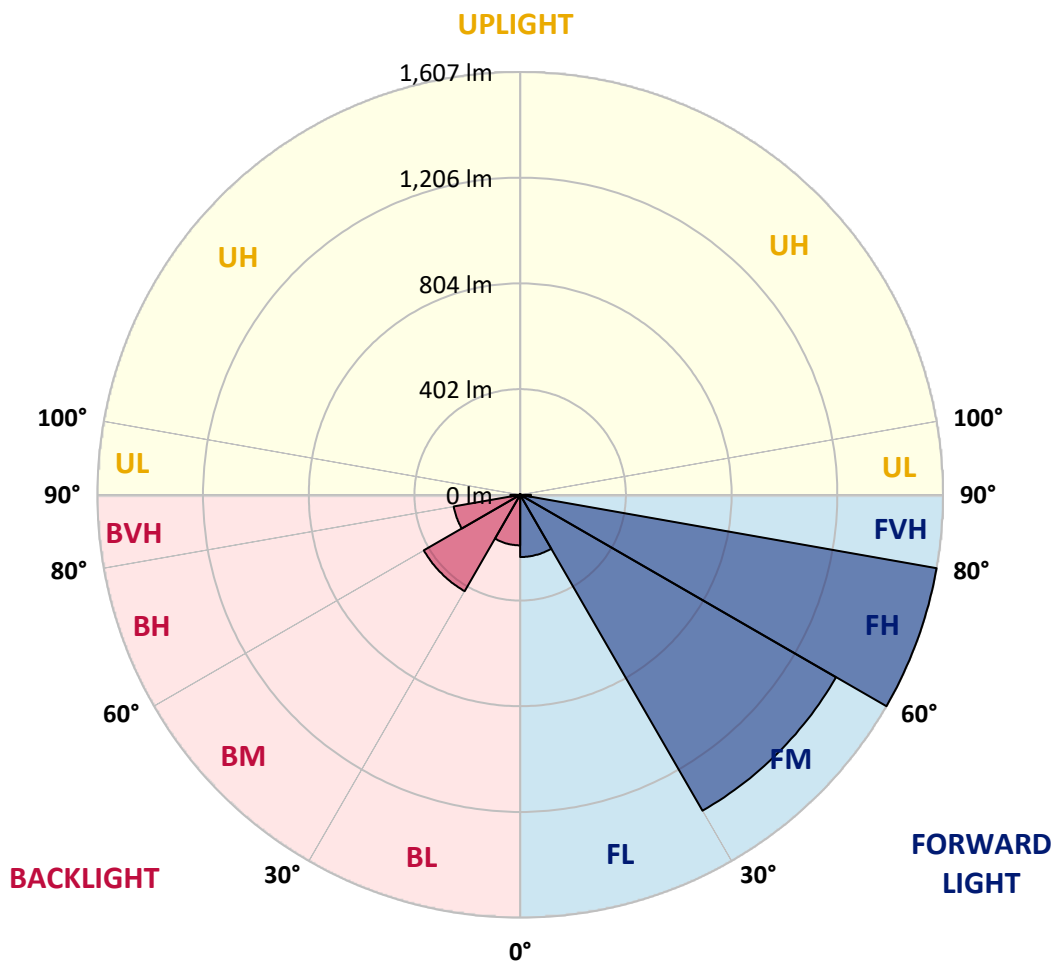
CATALOG NUMBER: IST-AF-800-LED-E1-T4W-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	236.5	5.7			
FM	(30°-60°)	1386.7	33.2			
FH	(60°-80°)	1607.5	38.4			G1/1800
FVH	(80°-90°)	41.1	1.0			G1/100
BL	(0°-30°)	192.2	4.6	B1/500		
BM	(30°-60°)	422.7	10.1	B1/1000		
BH	(60°-80°)	256.3	6.1	B1/500		G1/500
BVH	(80°-90°)	37.2	0.9			G1/100
UL	(90°-100°)	2.5	0.1		U1/10	
UH	(100°-180°)	1.9	0.0		U1/10	

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

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1
2.5°	566.6	566.0	566.0	561.2	559.3	556.3	553.9	550.2	546.6	542.3	536.9
5°	593.9	595.7	593.3	586.0	576.9	567.2	563.6	555.1	543.6	533.2	523.5
7.5°	620.0	620.6	613.9	601.8	587.8	572.7	567.8	556.3	543.6	529.6	515.7
10°	638.8	639.4	629.7	612.7	593.9	576.9	571.5	559.9	544.2	529.0	511.4
12.5°	649.7	650.3	635.8	618.2	595.7	578.7	573.9	561.8	545.4	526.0	506.6
15°	647.9	649.7	637.6	618.2	594.5	579.4	573.3	563.0	542.3	522.9	502.3
17.5°	635.8	638.2	628.5	607.3	588.5	576.3	569.6	559.3	539.3	518.7	496.2
20°	612.1	615.1	610.9	590.3	577.5	567.8	563.6	553.9	535.1	513.8	490.8
22.5°	585.4	588.5	587.2	570.3	564.2	559.3	555.1	547.8	531.4	510.2	488.4
25°	566.0	568.4	566.6	552.1	553.9	553.9	551.4	546.0	530.8	511.4	488.4
27.5°	598.2	598.2	582.4	552.7	549.6	555.1	553.9	550.8	538.7	517.5	493.2
30°	715.8	706.7	678.2	603.6	565.4	563.0	562.4	560.5	549.6	530.8	508.4
32.5°	847.5	838.4	804.4	711.0	631.5	579.4	573.9	574.5	571.5	553.9	531.4
35°	964.6	963.4	936.7	835.4	734.0	637.0	615.1	600.6	599.4	592.1	574.5
37.5°	1059.2	1059.2	1061.6	946.4	845.1	728.6	691.6	645.5	645.5	641.2	630.3
40°	1167.2	1172.1	1177.5	1047.1	964.0	837.8	795.9	726.2	704.9	711.6	714.0
42.5°	1309.2	1315.2	1311.6	1171.4	1072.6	968.2	916.7	832.3	780.2	791.1	816.6
45°	1405.0	1407.4	1433.5	1301.3	1209.1	1078.6	1034.9	919.1	867.5	890.0	934.9
47.5°	1513.6	1519.7	1523.9	1448.7	1369.2	1203.6	1123.5	1003.4	970.0	1004.0	1075.0
50°	1619.8	1611.9	1623.4	1620.4	1520.9	1314.6	1219.4	1082.3	1084.7	1130.8	1247.3
52.5°	1712.0	1685.3	1712.0	1745.3	1716.2	1428.7	1317.6	1175.1	1210.3	1266.7	1450.5
55°	1783.0	1718.6	1763.5	1858.2	1851.5	1529.4	1429.9	1298.8	1357.7	1434.7	1697.4
57.5°	1638.0	1645.8	1769.6	1934.0	1931.0	1631.3	1528.2	1453.5	1525.7	1611.9	1989.8
60°	1502.7	1537.9	1729.0	1946.1	1986.2	1742.3	1660.4	1629.5	1696.2	1801.1	2270.1
62.5°	1431.1	1464.5	1662.8	1923.7	2074.1	1906.7	1838.2	1814.5	1905.5	2023.2	2520.0
65°	1453.5	1474.2	1658.6	1957.7	2175.5	2155.4	2125.7	2086.3	2131.8	2242.2	2632.9
67.5°	1390.4	1424.4	1623.4	2017.7	2360.5	2458.8	2483.6	2441.2	2402.9	2387.8	2468.5
70°	1034.9	1067.7	1276.4	1769.6	2512.1	2985.3	2970.2	2828.2	2571.0	2356.2	1928.5
72°	657.6	648.5	808.1	1296.4	2233.1	3120.6	3192.2	2929.5	2494.6	2092.3	1309.8
72.5°	478.0	521.1	670.4	1152.6	2121.5	3046.6	3151.0	2896.8	2394.5	1976.5	1152.0
75°	116.5	123.2	160.8	413.1	1242.4	2292.5	2423.6	2237.9	1747.8	1173.3	510.8
77.5°	78.9	81.9	106.2	145.6	365.2	1307.3	1438.4	1235.8	782.0	399.2	227.5
80°	58.8	60.7	77.0	103.1	151.7	445.9	526.0	418.0	194.7	221.4	162.0
82.5°	41.3	42.5	58.2	75.8	100.7	104.3	138.9	153.5	126.2	145.0	94.6
85°	28.5	28.5	42.5	52.2	63.7	51.6	55.2	77.0	85.5	86.1	57.6
87.5°	15.2	17.0	24.9	33.4	33.4	23.7	26.1	39.4	47.9	51.6	34.6
90°	5.5	5.5	10.3	12.7	7.9	6.1	5.5	7.9	11.5	16.4	10.9
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°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1
2.5°	535.7	532.0	527.2	524.8	523.5	521.1	518.7	517.5	517.5	515.0	515.7
5°	518.7	513.2	506.6	501.7	501.1	501.1	502.3	502.3	502.9	501.1	503.5
7.5°	510.2	504.1	494.4	489.0	484.7	484.1	486.5	491.4	493.8	492.0	494.4
10°	504.1	497.5	486.5	479.9	476.8	475.6	477.4	482.3	490.2	490.2	492.6
12.5°	498.1	489.6	478.6	473.8	471.4	472.0	474.4	478.0	486.5	489.6	490.8
15°	492.0	482.3	473.2	466.5	466.5	468.3	471.4	475.6	483.5	489.0	490.2
17.5°	485.9	476.2	468.3	462.9	462.9	465.3	468.3	473.8	479.3	487.1	487.1
20°	480.5	472.6	462.3	457.4	456.8	458.6	462.3	467.7	472.0	479.9	480.5
22.5°	477.4	467.7	458.0	450.7	447.7	446.5	450.1	455.6	459.8	467.7	468.9
25°	476.2	465.3	453.2	439.8	431.9	429.5	431.3	438.0	441.6	447.7	449.5
27.5°	480.5	470.2	451.3	427.1	410.7	404.0	405.9	410.1	411.3	418.0	421.0
30°	495.0	482.9	455.0	413.7	384.0	371.9	371.9	372.5	374.3	379.8	380.4
32.5°	518.7	507.2	465.9	399.8	356.7	339.7	335.5	332.4	332.4	331.8	332.4
35°	562.4	552.7	484.7	384.0	327.0	308.2	297.9	292.4	286.9	284.5	283.9
37.5°	625.5	617.0	511.4	365.8	300.9	282.1	269.4	258.4	252.4	251.8	254.8
40°	719.5	711.0	541.1	345.2	276.0	262.1	248.7	237.2	230.5	231.1	234.2
42.5°	835.4	809.3	573.3	317.3	256.0	248.7	234.2	224.5	217.8	214.1	213.5
45°	970.6	927.0	603.6	291.2	234.2	237.2	223.2	212.3	203.8	194.1	192.9
47.5°	1139.3	1044.7	630.3	265.1	210.5	225.1	211.7	201.4	188.7	177.1	175.3
50°	1315.2	1179.9	653.4	237.2	189.3	211.7	200.2	186.2	168.6	158.3	158.3
52.5°	1518.5	1342.5	683.1	206.3	172.9	197.2	185.6	167.4	152.9	151.7	151.7
55°	1744.7	1513.0	703.7	182.0	160.2	181.4	175.9	170.5	165.6	166.8	167.4
57.5°	1981.3	1690.7	685.5	165.0	149.8	177.7	193.5	186.2	171.1	170.5	169.9
60°	2185.2	1829.1	584.8	154.1	142.0	183.8	207.5	186.2	171.1	179.0	179.6
62.5°	2318.6	1894.6	389.5	140.1	130.4	173.5	202.6	180.8	171.7	194.1	195.9
65°	2300.4	1821.2	223.9	130.4	123.2	159.5	195.9	174.1	160.2	172.9	169.3
67.5°	2029.3	1526.3	162.0	126.2	117.7	149.8	183.8	164.4	149.2	165.0	158.3
70°	1458.4	1039.2	139.5	122.5	114.1	138.3	175.3	158.3	143.2	154.1	143.8
72°	978.5	632.1	128.0	119.5	110.4	131.0	169.3	153.5	137.7	143.8	132.3
72.5°	832.9	498.7	125.0	118.3	109.2	129.2	167.4	152.3	136.5	142.6	131.6
75°	311.2	195.3	111.0	109.2	100.7	120.1	160.2	146.8	130.4	128.6	123.8
77.5°	160.2	123.8	94.6	96.5	90.4	109.8	152.3	138.3	120.1	113.4	111.0
80°	116.5	89.8	76.4	81.9	77.0	98.9	141.3	125.6	109.2	101.9	98.9
82.5°	73.4	55.8	58.2	64.9	65.5	87.4	128.6	112.8	97.1	91.0	86.1
85°	35.2	33.4	41.3	47.9	52.8	74.0	117.7	100.1	84.9	72.8	73.4
87.5°	18.8	25.5	24.9	32.2	40.6	60.7	104.3	81.9	67.9	54.6	55.2
90°	4.2	6.7	7.3	12.7	16.4	26.1	67.3	46.7	45.5	19.4	17.0
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-800-LED-E1-T4W-8030

**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)