

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: P226726

Luminaire Tested: **IST-AF-800-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226726
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-7030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4537.5 lumens
Efficiency: N/A
Efficacy: 104.3 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

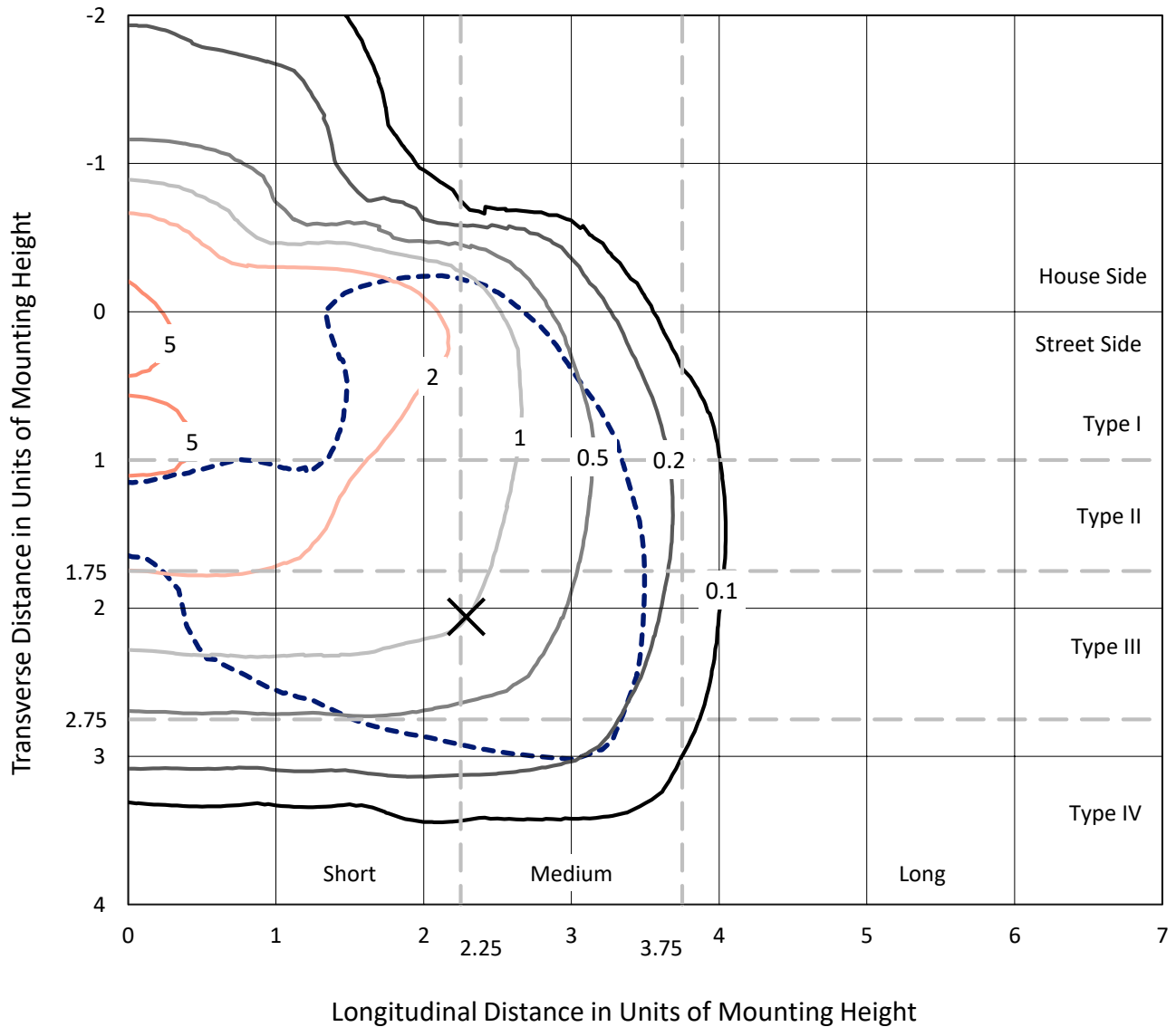
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: IST-AF-800-LED-E1-T4W-7030

Iso-Footcandle Lines of Horizontal Illumination

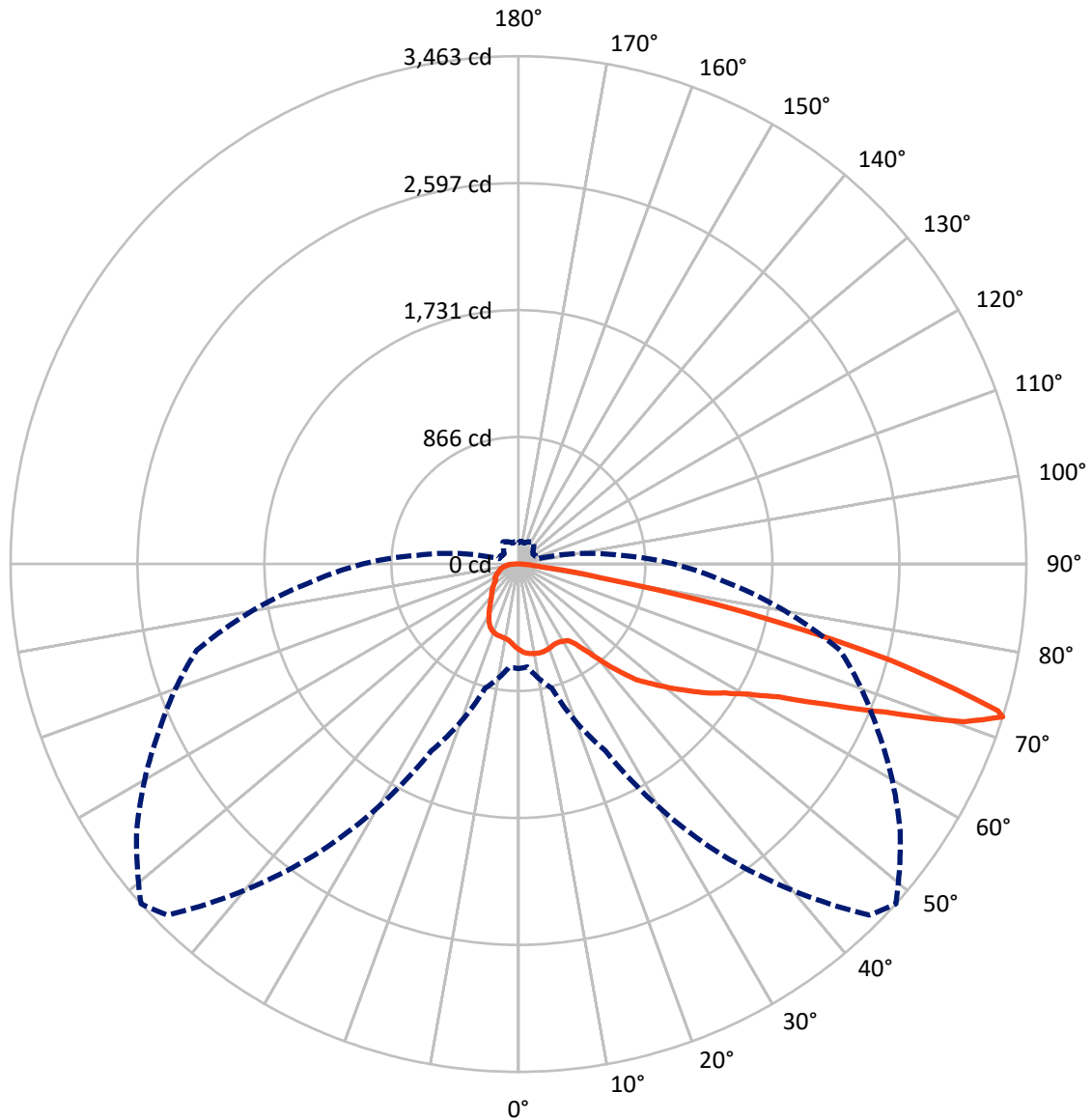
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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
House Side	Lumens	985.5	2.0	987.6
	% Fixture	21.7	0.0	21.8
Street Side	Lumens	3549.3	0.7	3550.0
	% Fixture	78.2	0.0	78.2
Total	Lumens	4534.8	2.8	4537.5
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	1.2
10°-20°	161.2	3.6
20°-30°	248.6	5.5
30°-40°	372.6	8.2
40°-50°	620.5	13.7
50°-60°	969.7	21.4
60°-70°	1280.9	28.2
70°-80°	741.0	16.3
80°-90°	84.9	1.9
90°-100°	2.8	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°	4534.8	99.9
0°-180°	4537.5	100.0



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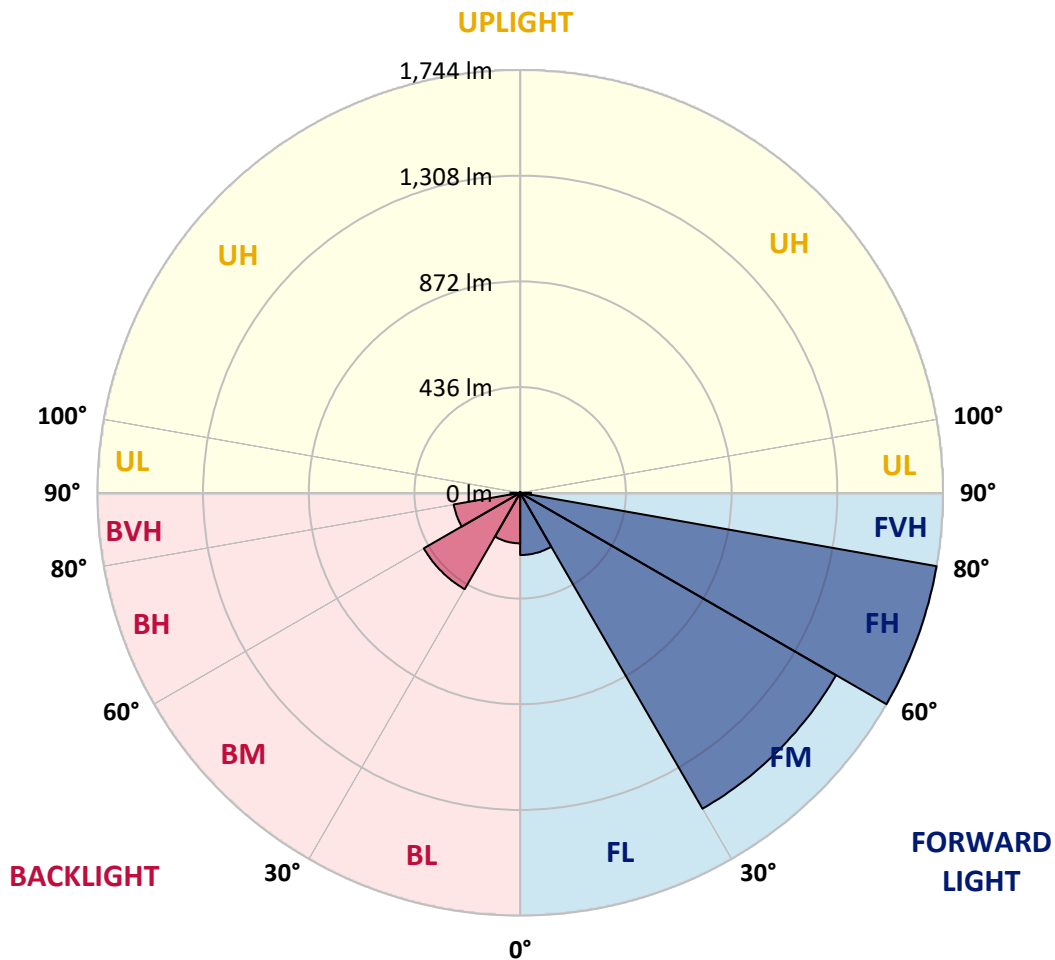
CATALOG NUMBER: IST-AF-800-LED-E1-T4W-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	256.5	5.7			
FM	(30°-60°)	1504.3	33.2			
FH	(60°-80°)	1743.8	38.4			G1/1800
FVH	(80°-90°)	44.6	1.0			G1/100
BL	(0°-30°)	208.5	4.6	B1/500		
BM	(30°-60°)	458.6	10.1	B1/1000		
BH	(60°-80°)	278.1	6.1	B1/500		G1/500
BVH	(80°-90°)	40.4	0.9			G1/100
UL	(90°-100°)	2.8	0.1		U1/10	
UH	(100°-180°)	2.0	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°	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7
2.5°	614.7	614.0	614.0	608.7	606.8	603.5	600.8	596.9	592.9	588.3	582.4
5°	644.3	646.3	643.6	635.7	625.9	615.3	611.4	602.2	589.7	578.5	567.9
7.5°	672.6	673.2	666.0	652.8	637.7	621.2	616.0	603.5	589.7	574.5	559.4
10°	693.0	693.6	683.1	664.7	644.3	625.9	619.9	607.4	590.3	573.9	554.8
12.5°	704.8	705.5	689.7	670.6	646.3	627.8	622.6	609.4	591.6	570.6	549.5
15°	702.8	704.8	691.7	670.6	644.9	628.5	621.9	610.7	588.3	567.3	544.9
17.5°	689.7	692.3	681.8	658.8	638.4	625.2	618.0	606.8	585.0	562.7	538.3
20°	664.0	667.3	662.7	640.3	626.5	616.0	611.4	600.8	580.4	557.4	532.4
22.5°	635.1	638.4	637.0	618.6	612.0	606.8	602.2	594.3	576.5	553.5	529.8
25°	614.0	616.6	614.7	598.9	600.8	600.8	598.2	592.3	575.8	554.8	529.8
27.5°	648.9	648.9	631.8	599.5	596.2	602.2	600.8	597.6	584.4	561.4	535.0
30°	776.6	766.7	735.8	654.8	613.3	610.7	610.1	608.1	596.2	575.8	551.5
32.5°	919.4	909.5	872.6	771.3	685.1	628.5	622.6	623.2	619.9	600.8	576.5
35°	1046.4	1045.1	1016.1	906.2	796.3	691.0	667.3	651.5	650.2	642.3	623.2
37.5°	1149.0	1149.0	1151.7	1026.6	916.7	790.4	750.2	700.2	700.2	695.6	683.8
40°	1266.2	1271.4	1277.4	1135.9	1045.7	908.8	863.4	787.7	764.7	771.9	774.6
42.5°	1420.2	1426.8	1422.8	1270.8	1163.5	1050.3	994.4	902.9	846.3	858.2	885.8
45°	1524.2	1526.8	1555.1	1411.6	1311.6	1170.1	1122.7	997.0	941.1	965.4	1014.1
47.5°	1642.0	1648.5	1653.1	1571.5	1485.3	1305.7	1218.8	1088.5	1052.3	1089.2	1166.2
50°	1757.1	1748.6	1761.1	1757.8	1649.9	1426.1	1322.8	1174.0	1176.7	1226.7	1353.1
52.5°	1857.2	1828.2	1857.2	1893.3	1861.8	1549.8	1429.4	1274.7	1312.9	1374.1	1573.5
55°	1934.2	1864.4	1913.1	2015.8	2008.5	1659.1	1551.1	1409.0	1472.8	1556.4	1841.4
57.5°	1776.9	1785.4	1919.7	2098.0	2094.7	1769.6	1657.8	1576.8	1655.1	1748.6	2158.6
60°	1630.1	1668.3	1875.6	2111.2	2154.6	1890.1	1801.2	1767.7	1840.0	1953.9	2462.6
62.5°	1552.5	1588.6	1803.8	2086.8	2250.0	2068.4	1994.0	1968.4	2067.1	2194.8	2733.7
65°	1576.8	1599.2	1799.2	2123.7	2359.9	2338.2	2306.0	2263.2	2312.6	2432.3	2856.1
67.5°	1508.4	1545.2	1761.1	2188.8	2560.7	2667.3	2694.3	2648.2	2606.7	2590.3	2677.8
70°	1122.7	1158.3	1384.6	1919.7	2725.2	3238.5	3222.1	3068.1	2789.0	2556.1	2092.1
72°	713.4	703.5	876.6	1406.4	2422.5	3385.3	3462.9	3178.0	2706.1	2269.8	1420.8
72.5°	518.6	565.3	727.2	1250.4	2301.4	3305.0	3418.2	3142.4	2597.5	2144.1	1249.7
75°	126.4	133.6	174.4	448.2	1347.8	2487.0	2629.1	2427.7	1896.0	1272.8	554.1
77.5°	85.6	88.8	115.2	157.9	396.2	1418.2	1560.4	1340.5	848.3	433.0	246.8
80°	63.8	65.8	83.6	111.9	164.5	483.7	570.6	453.4	211.2	240.2	175.7
82.5°	44.8	46.1	63.2	82.3	109.2	113.2	150.7	166.5	136.9	157.3	102.7
85°	30.9	30.9	46.1	56.6	69.1	55.9	59.9	83.6	92.8	93.4	62.5
87.5°	16.5	18.4	27.0	36.2	36.2	25.7	28.3	42.8	52.0	55.9	37.5
90°	5.9	5.9	11.2	13.8	8.6	6.6	5.9	8.6	12.5	17.8	11.8
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



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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°	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7
2.5°	581.1	577.2	571.9	569.3	567.9	565.3	562.7	561.4	561.4	558.7	559.4
5°	562.7	556.8	549.5	544.2	543.6	543.6	544.9	544.9	545.6	543.6	546.2
7.5°	553.5	546.9	536.4	530.4	525.8	525.2	527.8	533.1	535.7	533.7	536.4
10°	546.9	539.6	527.8	520.6	517.3	515.9	517.9	523.2	531.7	531.7	534.4
12.5°	540.3	531.1	519.2	514.0	511.3	512.0	514.6	518.6	527.8	531.1	532.4
15°	533.7	523.2	513.3	506.1	506.1	508.1	511.3	515.9	524.5	530.4	531.7
17.5°	527.1	516.6	508.1	502.1	502.1	504.8	508.1	514.0	519.9	528.5	528.5
20°	521.2	512.7	501.5	496.2	495.5	497.5	501.5	507.4	512.0	520.6	521.2
22.5°	517.9	507.4	496.9	489.0	485.7	484.4	488.3	494.2	498.8	507.4	508.7
25°	516.6	504.8	491.6	477.1	468.6	465.9	467.9	475.1	479.1	485.7	487.7
27.5°	521.2	510.0	489.6	463.3	445.5	438.3	440.3	444.9	446.2	453.4	456.7
30°	537.0	523.8	493.6	448.8	416.6	403.4	403.4	404.1	406.0	412.0	412.6
32.5°	562.7	550.2	505.4	433.7	387.0	368.5	363.9	360.6	360.6	360.0	360.6
35°	610.1	599.5	525.8	416.6	354.7	334.3	323.1	317.2	311.3	308.6	308.0
37.5°	678.5	669.3	554.8	396.8	326.4	306.0	292.2	280.3	273.8	273.1	276.4
40°	780.5	771.3	587.0	374.5	299.4	284.3	269.8	257.3	250.1	250.7	254.0
42.5°	906.2	877.9	621.9	344.2	277.7	269.8	254.0	243.5	236.3	232.3	231.7
45°	1053.0	1005.6	654.8	315.9	254.0	257.3	242.2	230.3	221.1	210.6	209.3
47.5°	1235.9	1133.2	683.8	287.6	228.4	244.2	229.7	218.5	204.7	192.2	190.2
50°	1426.8	1280.0	708.8	257.3	205.3	229.7	217.2	202.0	183.0	171.8	171.8
52.5°	1647.2	1456.4	741.0	223.8	187.6	213.9	201.4	181.6	165.8	164.5	164.5
55°	1892.7	1641.3	763.4	197.4	173.7	196.8	190.8	184.9	179.7	181.0	181.6
57.5°	2149.3	1834.1	743.7	179.0	162.6	192.8	209.9	202.0	185.6	184.9	184.3
60°	2370.5	1984.2	634.4	167.2	154.0	199.4	225.1	202.0	185.6	194.1	194.8
62.5°	2515.3	2055.2	422.5	152.0	141.5	188.2	219.8	196.1	186.2	210.6	212.6
65°	2495.5	1975.6	242.8	141.5	133.6	173.1	212.6	188.9	173.7	187.6	183.6
67.5°	2201.3	1655.8	175.7	136.9	127.7	162.6	199.4	178.3	161.9	179.0	171.8
70°	1582.1	1127.3	151.4	132.9	123.7	150.0	190.2	171.8	155.3	167.2	156.0
72°	1061.5	685.7	138.9	129.6	119.8	142.1	183.6	166.5	149.4	156.0	143.5
72.5°	903.6	541.0	135.6	128.3	118.5	140.2	181.6	165.2	148.1	154.7	142.8
75°	337.6	211.9	120.4	118.5	109.2	130.3	173.7	159.3	141.5	139.5	134.3
77.5°	173.7	134.3	102.7	104.6	98.1	119.1	165.2	150.0	130.3	123.1	120.4
80°	126.4	97.4	82.9	88.8	83.6	107.3	153.3	136.2	118.5	110.6	107.3
82.5°	79.6	60.5	63.2	70.4	71.1	94.8	139.5	122.4	105.3	98.7	93.4
85°	38.2	36.2	44.8	52.0	57.3	80.3	127.7	108.6	92.1	79.0	79.6
87.5°	20.4	27.6	27.0	34.9	44.1	65.8	113.2	88.8	73.7	59.2	59.9
90°	4.6	7.2	7.9	13.8	17.8	28.3	73.0	50.7	49.4	21.1	18.4
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-7030

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)