

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: P226458

Luminaire Tested: **IST-AF-600-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226458
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-600-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: 3346.4 lumens
Efficiency: N/A
Efficacy: 99.3 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

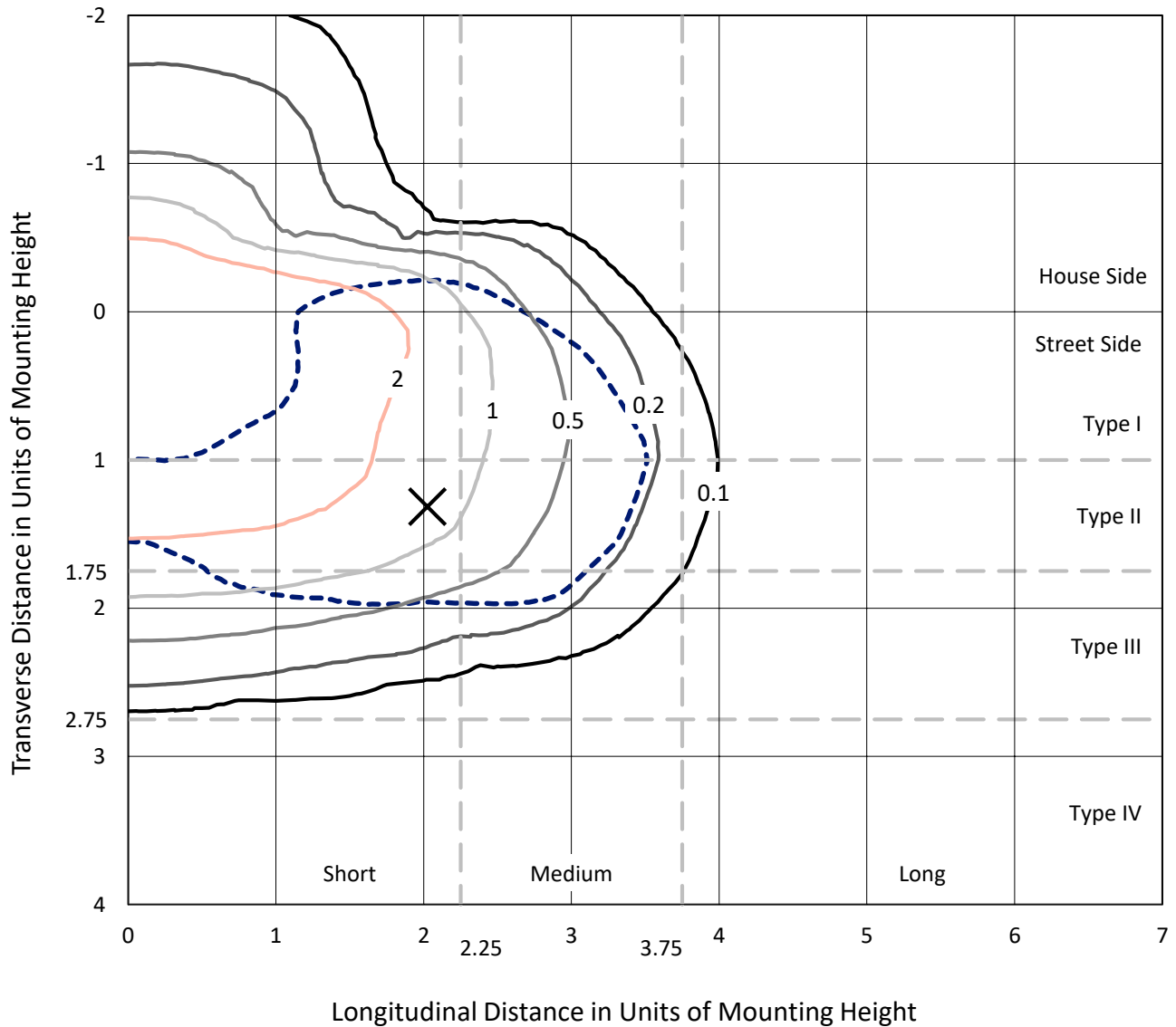
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P226458
 CATALOG NUMBER: IST-AF-600-LED-E1-T3-8030

Iso-Footcandle Lines of Horizontal Illumination

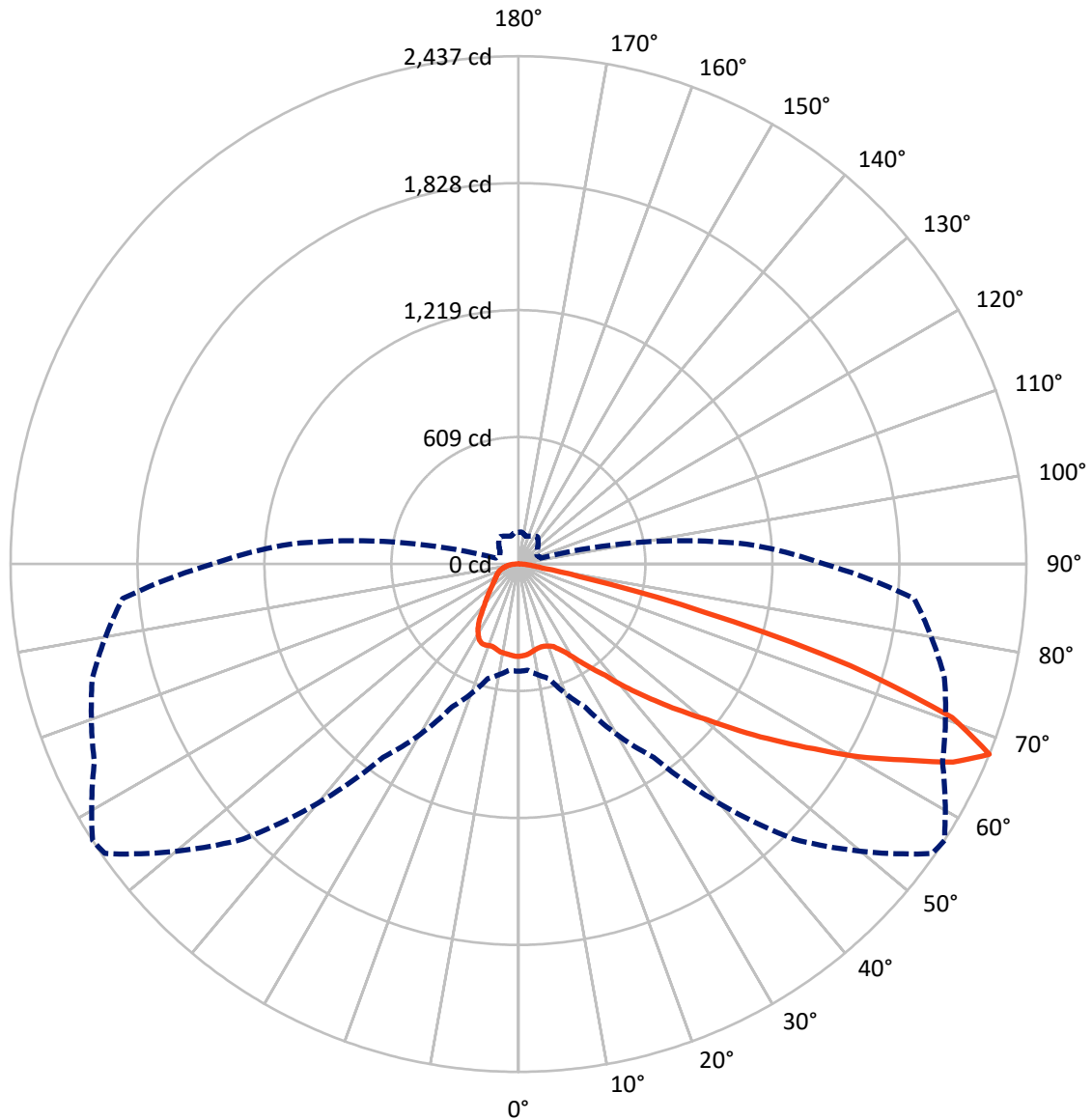
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Cutoff

REPORT NUMBER: P226458
CATALOG NUMBER: IST-AF-600-LED-E1-T3-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P226458

CATALOG NUMBER: IST-AF-600-LED-E1-T3-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.7	1.0	779.7
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	2566.4	0.3	2566.6
	% Fixture	76.7	0.0	76.7
Total	Lumens	3345.1	1.2	3346.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	1.2
10°-20°	119.2	3.6
20°-30°	205.2	6.1
30°-40°	333.5	10.0
40°-50°	538.0	16.1
50°-60°	802.1	24.0
60°-70°	903.4	27.0
70°-80°	348.3	10.4
80°-90°	54.0	1.6
90°-100°	1.2	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°	3345.1	100.0
0°-180°	3346.4	100.0



REPORT NUMBER: P226458

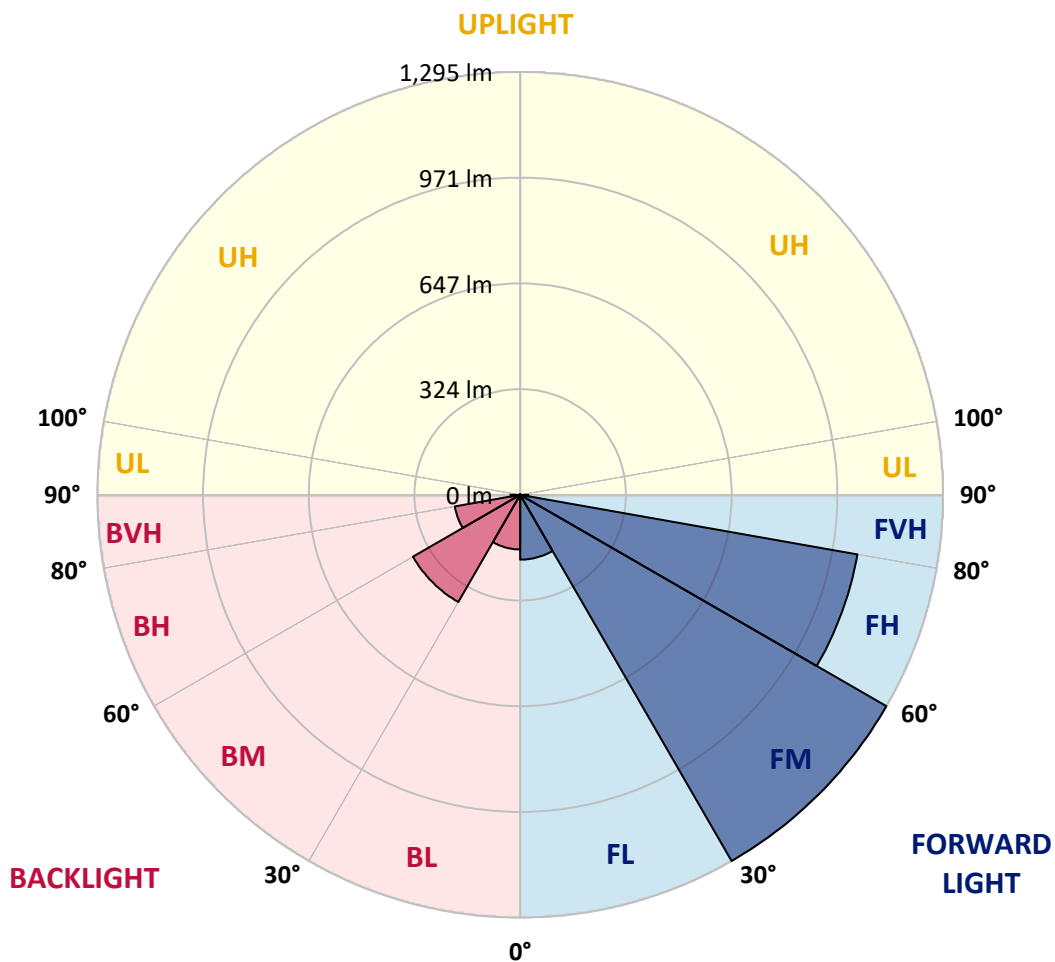
CATALOG NUMBER: IST-AF-600-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.5	5.9			
FM	(30°-60°)	1294.6	38.7			
FH	(60°-80°)	1048.5	31.3			G1/1800
FVH	(80°-90°)	24.8	0.7			G1/100
BL	(0°-30°)	167.3	5.0	B1/500		
BM	(30°-60°)	379.0	11.3	B1/1000		
BH	(60°-80°)	203.2	6.1	B1/500		G1/500
BVH	(80°-90°)	29.2	0.9			G1/100
UL	(90°-100°)	1.2	0.0		U1/10	
UH	(100°-180°)	1.0	0.0		U1/10	

BUG Rating: B1-U1-G1

Type III Short





REPORT NUMBER: P226458

CATALOG NUMBER: IST-AF-600-LED-E1-T3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5
2.5°	440.1	441.0	442.0	441.5	441.5	441.5	441.5	440.5	442.0	442.0	441.0
5°	432.8	433.3	433.8	434.7	435.7	436.7	437.2	437.2	437.6	437.2	436.2
7.5°	422.1	422.6	424.6	424.6	425.5	427.5	428.4	429.4	430.9	430.9	430.4
10°	418.7	418.7	418.7	417.3	418.3	418.7	420.2	420.2	424.1	426.0	427.0
12.5°	422.6	422.1	422.1	418.3	414.9	413.4	414.9	415.3	419.7	422.6	424.6
15°	431.3	431.3	430.4	424.6	417.8	412.4	412.0	412.0	415.3	419.7	423.1
17.5°	451.7	453.6	446.8	437.6	426.5	417.8	414.4	413.9	416.3	419.7	423.1
20°	490.5	490.0	479.8	463.3	443.9	429.4	421.2	420.2	419.7	421.6	425.5
22.5°	536.5	534.6	522.5	501.6	475.0	448.3	432.3	430.4	426.5	427.9	433.3
25°	585.9	586.4	571.4	544.3	510.8	478.8	454.6	452.7	444.4	443.5	449.3
27.5°	635.4	641.7	621.3	595.6	555.9	517.6	482.2	479.3	472.1	469.6	475.4
30°	707.6	705.2	680.0	646.5	606.8	558.8	524.9	519.5	505.0	508.4	514.7
32.5°	768.7	774.0	751.2	711.5	659.1	608.7	569.5	566.6	552.5	556.4	565.1
35°	843.3	855.9	825.8	776.9	726.5	674.6	627.6	619.9	608.7	616.5	623.3
37.5°	928.6	934.9	911.6	848.6	797.3	743.0	689.7	677.5	665.4	681.4	693.5
40°	1010.0	1020.2	990.1	936.8	877.2	825.4	767.2	764.8	736.7	754.1	785.6
42.5°	1130.7	1143.3	1095.3	1033.3	979.5	917.0	861.7	848.6	818.1	842.8	895.6
45°	1215.0	1214.5	1182.1	1130.7	1097.7	1037.2	962.5	947.0	914.1	947.0	1017.8
47.5°	1245.6	1252.8	1241.7	1235.4	1223.7	1179.6	1069.6	1055.1	1024.1	1073.0	1138.4
50°	1290.6	1288.7	1288.7	1327.5	1360.9	1351.7	1195.2	1174.3	1141.8	1200.5	1294.5
52.5°	1302.3	1284.8	1312.0	1386.1	1492.2	1500.0	1341.0	1329.4	1290.6	1347.8	1463.6
55°	1269.8	1265.4	1308.6	1416.2	1583.4	1638.6	1510.2	1494.2	1450.6	1499.5	1646.4
57.5°	1197.1	1208.2	1277.5	1409.9	1646.4	1760.7	1695.8	1673.0	1610.5	1640.1	1827.6
60°	1121.0	1126.3	1217.9	1387.6	1663.3	1845.6	1890.6	1877.5	1770.4	1787.9	1961.9
62.5°	1036.7	1024.1	1119.1	1369.1	1644.4	1962.4	2079.6	2069.5	1943.0	1937.6	2057.3
65°	801.1	818.6	899.5	1131.7	1515.0	2053.5	2305.0	2291.9	2135.4	2061.2	2047.2
67.5°	514.7	511.3	568.5	756.5	1132.1	1866.4	2422.8	2437.3	2245.4	2117.0	1906.6
70°	184.7	190.0	211.3	343.6	620.8	1243.6	2135.9	2208.1	2164.5	2012.8	1551.9
72.5°	112.4	112.4	127.9	154.6	251.5	589.8	1522.3	1665.3	1766.6	1658.5	1146.2
75°	88.2	87.7	93.1	106.6	135.7	193.4	809.4	919.9	1133.1	1145.7	652.3
77.5°	69.8	69.3	74.6	80.9	101.3	102.3	258.3	336.3	520.0	489.5	233.1
80°	56.2	55.7	59.6	61.6	74.2	70.8	103.7	120.2	182.2	159.9	100.8
82.5°	50.9	50.9	54.8	47.0	51.4	49.9	64.5	68.8	91.6	95.0	60.6
85°	33.0	33.9	51.4	45.6	33.4	30.5	41.2	43.6	57.2	62.5	29.6
87.5°	15.5	17.0	39.3	37.8	22.3	16.5	23.3	24.7	31.0	38.3	17.4
90°	2.9	2.9	4.8	5.3	2.9	2.9	3.9	3.4	3.4	4.8	4.8
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
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: P226458

CATALOG NUMBER: IST-AF-600-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: P226458

CATALOG NUMBER: IST-AF-600-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5
2.5°	442.5	441.5	442.0	442.5	443.0	444.4	444.9	444.9	444.9	444.4	445.4
5°	437.2	436.2	436.2	437.6	439.1	441.0	443.9	446.4	447.3	447.8	447.8
7.5°	431.3	430.4	430.9	433.3	435.7	437.2	440.1	441.5	445.4	445.4	446.4
10°	427.5	428.4	428.9	431.3	433.3	433.3	432.8	431.8	430.9	433.3	432.3
12.5°	425.0	426.5	426.0	428.9	429.9	426.0	420.2	412.4	411.5	412.4	413.4
15°	424.1	424.1	425.5	425.5	420.7	412.9	405.7	406.1	407.1	410.0	410.0
17.5°	424.1	424.6	425.5	422.1	413.4	406.6	405.2	403.7	398.4	396.9	395.5
20°	427.5	426.5	427.5	421.2	413.4	408.1	396.9	386.3	376.1	371.7	369.8
22.5°	435.7	434.2	433.8	427.5	417.8	399.8	378.0	361.6	344.1	338.3	336.3
25°	450.2	449.8	446.4	442.0	414.9	380.0	352.3	326.2	307.3	297.1	297.6
27.5°	475.9	475.9	474.0	454.6	399.8	355.2	317.9	291.3	271.9	262.2	260.7
30°	514.7	515.7	516.6	458.0	376.1	318.9	280.1	262.2	250.6	243.3	242.8
32.5°	562.7	568.0	561.7	454.1	343.6	274.8	250.6	244.3	238.4	233.6	233.1
35°	626.2	640.7	601.0	438.6	307.3	244.7	232.6	228.3	223.9	220.5	221.0
37.5°	711.5	725.5	626.2	412.4	260.7	227.8	222.5	215.7	208.9	201.6	200.6
40°	812.3	807.9	634.9	363.0	231.7	219.5	212.3	203.6	191.9	181.3	179.3
42.5°	913.1	884.0	627.6	301.9	212.8	212.3	202.1	191.0	179.3	170.1	170.1
45°	1026.0	950.9	605.3	244.7	197.7	204.5	191.9	180.3	169.6	162.8	162.4
47.5°	1132.6	1013.4	568.5	204.0	182.7	194.3	184.2	173.5	163.3	157.5	156.1
50°	1257.7	1084.7	540.4	176.4	168.2	184.2	179.8	170.1	160.4	153.6	152.7
52.5°	1384.2	1154.0	519.1	157.5	155.1	176.4	177.9	172.1	161.9	148.8	147.8
55°	1516.5	1240.7	476.4	142.5	143.5	170.6	180.3	175.9	168.7	147.3	146.4
57.5°	1627.5	1320.7	401.8	132.3	134.2	166.2	181.3	173.0	164.8	148.3	146.8
60°	1714.2	1375.4	294.7	124.1	126.0	161.4	176.9	162.8	152.2	148.3	145.9
62.5°	1740.9	1377.4	195.8	114.4	119.7	153.1	169.1	157.5	144.9	146.8	145.9
65°	1674.0	1304.7	140.1	105.2	114.4	143.5	165.8	152.2	141.5	149.3	148.3
67.5°	1468.0	1099.2	112.4	97.9	107.1	133.3	159.5	147.3	138.6	154.6	151.7
70°	1143.8	788.5	95.5	90.6	99.4	123.6	150.7	142.0	134.7	150.2	146.4
72.5°	754.1	464.3	84.3	83.8	90.1	115.3	141.0	137.2	128.4	136.2	130.4
75°	393.5	215.2	73.2	76.1	80.0	108.1	132.3	128.4	118.7	121.6	119.7
77.5°	154.6	100.8	63.5	66.9	71.2	97.4	121.2	117.3	109.0	106.6	106.1
80°	84.8	67.9	52.8	57.2	60.1	87.7	109.5	105.2	96.4	95.0	93.5
82.5°	53.8	44.1	43.6	46.5	50.4	78.0	98.4	91.6	84.3	99.4	80.5
85°	25.2	26.2	31.0	34.9	39.3	66.4	85.8	78.5	71.2	69.3	61.6
87.5°	14.1	17.4	20.4	23.7	27.1	46.5	67.9	61.1	53.3	45.6	47.0
90°	3.4	3.4	5.8	5.3	5.8	6.8	33.4	30.0	26.7	12.6	8.2
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: P226458

CATALOG NUMBER: IST-AF-600-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)