

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: P271648

Luminaire Tested: **IST-AF-600-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271648
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-T3-7027
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3562.9 lumens
Efficiency: N/A
Efficacy: 105.7 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

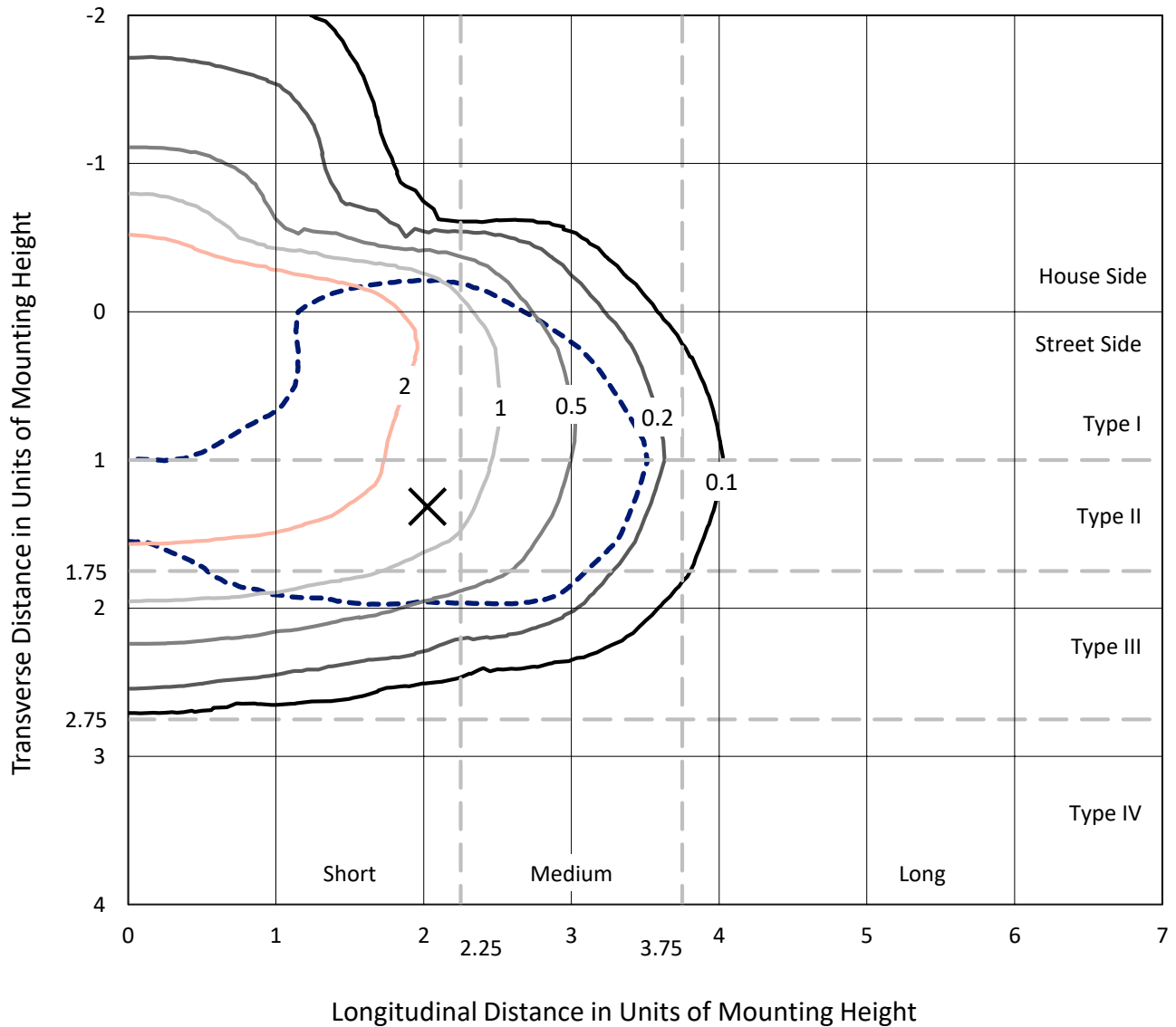
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

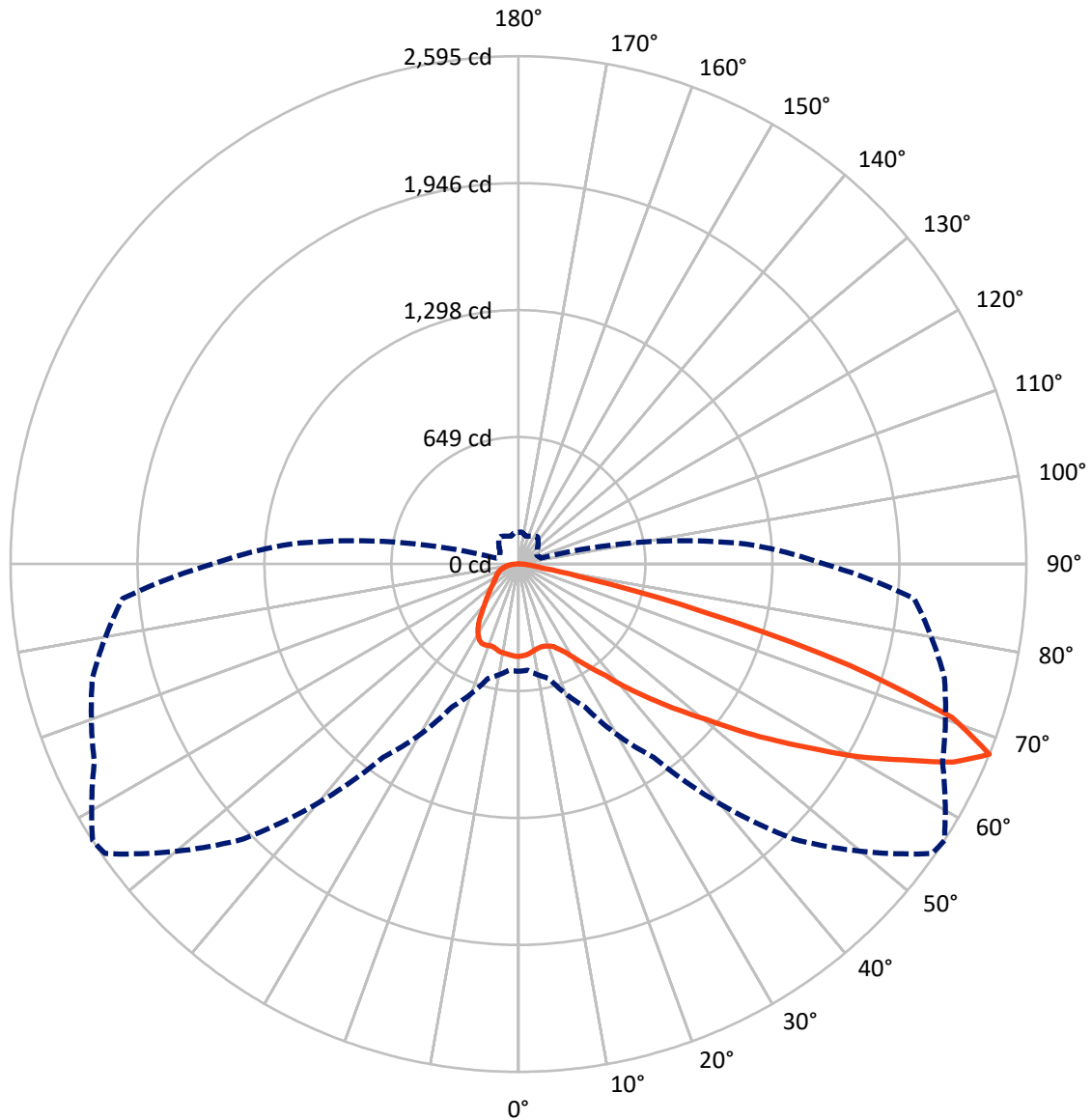
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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

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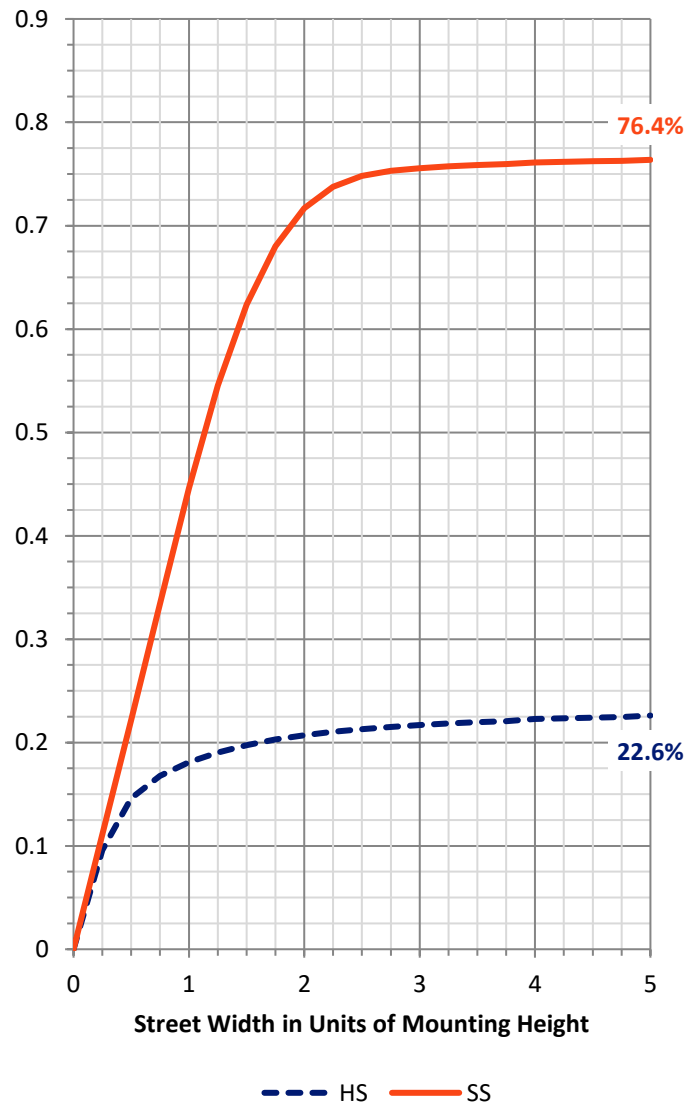
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	829.1	1.0	830.2
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	2732.5	0.3	2732.7
	% Fixture	76.7	0.0	76.7
Total	Lumens	3561.6	1.3	3562.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	1.2
10°-20°	126.9	3.6
20°-30°	218.4	6.1
30°-40°	355.1	10.0
40°-50°	572.8	16.1
50°-60°	854.0	24.0
60°-70°	961.8	27.0
70°-80°	370.8	10.4
80°-90°	57.5	1.6
90°-100°	1.3	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°	3561.6	100.0
0°-180°	3562.9	100.0



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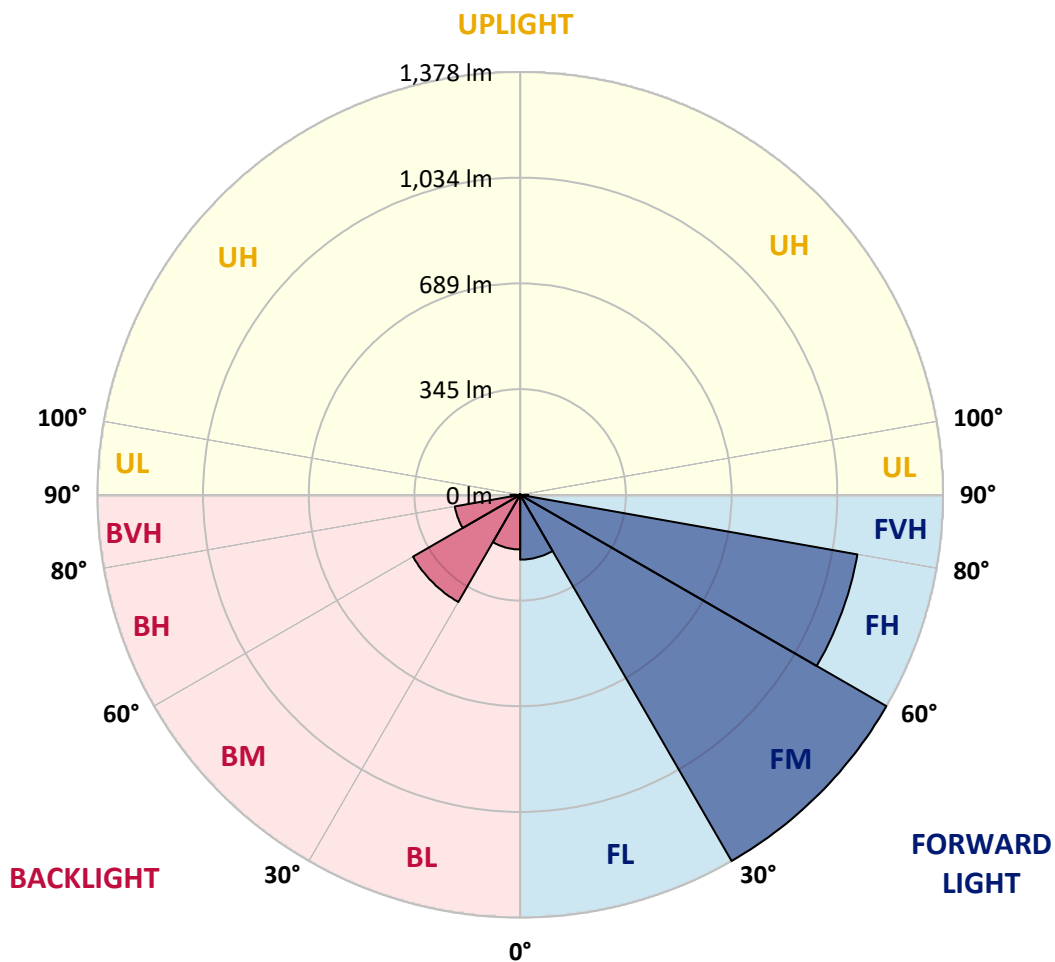
CATALOG NUMBER: IST-AF-600-LED-E1-T3-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.3	5.9			
FM	(30°-60°)	1378.4	38.7			
FH	(60°-80°)	1116.3	31.3			G1/1800
FVH	(80°-90°)	26.4	0.7			G1/100
BL	(0°-30°)	178.2	5.0	B1/500		
BM	(30°-60°)	403.6	11.3	B1/1000		
BH	(60°-80°)	216.4	6.1	B1/500		G1/500
BVH	(80°-90°)	31.1	0.9			G1/100
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	1.0	0.0		U1/10	

BUG Rating: B1-U1-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1
2.5°	468.6	469.5	470.6	470.2	470.2	470.2	470.2	469.1	470.6	470.6	469.5
5°	460.8	461.3	461.8	462.9	464.0	465.0	465.4	465.4	466.0	465.4	464.4
7.5°	449.4	450.1	452.0	452.0	453.0	455.1	456.2	457.1	458.8	458.8	458.2
10°	445.8	445.8	445.8	444.3	445.3	445.8	447.4	447.4	451.5	453.6	454.6
12.5°	450.1	449.4	449.4	445.3	441.7	440.2	441.7	442.2	446.9	450.1	452.0
15°	459.2	459.2	458.2	452.0	444.8	439.1	438.6	438.6	442.2	446.9	450.5
17.5°	481.0	483.0	475.7	466.0	454.1	444.8	441.2	440.7	443.2	446.9	450.5
20°	522.3	521.6	510.9	493.3	472.7	457.1	448.4	447.4	446.9	449.0	453.0
22.5°	571.2	569.2	556.3	534.1	505.7	477.3	460.3	458.2	454.1	455.6	461.3
25°	623.9	624.4	608.4	579.5	543.8	509.8	484.1	482.0	473.1	472.1	478.3
27.5°	676.5	683.3	661.5	634.1	591.8	551.1	513.4	510.3	502.6	500.1	506.3
30°	753.4	750.8	723.9	688.4	646.0	594.9	558.8	553.2	537.6	541.3	548.0
32.5°	818.4	824.0	799.9	757.5	701.8	648.0	606.4	603.2	588.3	592.4	601.7
35°	897.9	911.3	879.4	827.2	773.5	718.3	668.2	660.0	648.0	656.4	663.6
37.5°	988.7	995.4	970.6	903.5	848.9	791.0	734.3	721.4	708.5	725.5	738.5
40°	1075.5	1086.2	1054.3	997.5	934.0	878.8	816.9	814.2	784.3	802.9	836.4
42.5°	1203.9	1217.2	1166.2	1100.2	1042.8	976.3	917.5	903.5	871.1	897.4	953.6
45°	1293.6	1293.1	1258.5	1203.9	1168.8	1104.3	1024.8	1008.3	973.2	1008.3	1083.6
47.5°	1326.2	1333.9	1322.0	1315.3	1302.9	1256.0	1138.8	1123.4	1090.4	1142.5	1212.2
50°	1374.1	1372.1	1372.1	1413.3	1449.0	1439.2	1272.4	1250.4	1215.8	1278.2	1378.3
52.5°	1386.5	1368.0	1396.9	1475.8	1588.8	1597.1	1427.9	1415.4	1374.1	1435.0	1558.4
55°	1351.9	1347.3	1393.2	1507.7	1685.8	1744.7	1607.9	1590.9	1544.5	1596.6	1753.0
57.5°	1274.5	1286.5	1360.2	1501.1	1753.0	1874.8	1805.5	1781.2	1714.8	1746.1	1945.9
60°	1193.6	1199.1	1296.7	1477.4	1771.0	1965.0	2013.0	1999.1	1885.0	1903.6	2088.8
62.5°	1103.7	1090.4	1191.5	1457.8	1750.9	2089.4	2214.2	2203.5	2068.7	2063.0	2190.4
65°	853.0	871.5	957.8	1204.9	1613.1	2186.4	2454.2	2440.2	2273.6	2194.6	2179.6
67.5°	548.0	544.5	605.3	805.5	1205.4	1987.2	2579.6	2595.0	2390.7	2253.9	2030.0
70°	196.5	202.3	224.9	365.9	661.1	1324.1	2274.1	2351.0	2304.5	2143.0	1652.3
72.5°	119.7	119.7	136.3	164.6	267.9	627.9	1620.8	1773.1	1880.9	1765.8	1220.3
75°	94.0	93.4	99.0	113.5	144.4	205.9	861.7	979.4	1206.4	1219.9	694.6
77.5°	74.3	73.8	79.5	86.1	107.9	108.9	275.0	358.2	553.6	521.2	248.2
80°	59.8	59.4	63.5	65.6	78.9	75.4	110.4	128.0	194.0	170.3	107.3
82.5°	54.2	54.2	58.3	50.0	54.7	53.2	68.6	73.3	97.6	101.1	64.5
85°	35.1	36.1	54.7	48.5	35.7	32.5	43.8	46.4	60.8	66.6	31.5
87.5°	16.5	18.1	41.8	40.2	23.7	17.6	24.7	26.3	33.0	40.7	18.5
90°	3.1	3.1	5.2	5.7	3.1	3.1	4.1	3.6	3.6	5.2	5.2
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



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CATALOG NUMBER: IST-AF-600-LED-E1-T3-7027

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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1
2.5°	471.1	470.2	470.6	471.1	471.6	473.1	473.7	473.7	473.7	473.1	474.2
5°	465.4	464.4	464.4	466.0	467.5	469.5	472.7	475.2	476.3	476.8	476.8
7.5°	459.2	458.2	458.8	461.3	464.0	465.4	468.6	470.2	474.2	474.2	475.2
10°	455.1	456.2	456.7	459.2	461.3	461.3	460.8	459.8	458.8	461.3	460.3
12.5°	452.6	454.1	453.6	456.7	457.7	453.6	447.4	439.1	438.1	439.1	440.2
15°	451.5	451.5	453.0	453.0	448.0	439.6	431.9	432.4	433.4	436.6	436.6
17.5°	451.5	452.0	453.0	449.4	440.2	432.9	431.4	429.9	424.2	422.7	421.0
20°	455.1	454.1	455.1	448.4	440.2	434.5	422.7	411.2	400.5	395.8	393.6
22.5°	464.0	462.4	461.8	455.1	444.8	425.7	402.5	384.9	366.4	360.2	358.2
25°	479.3	478.9	475.2	470.6	441.7	404.6	375.1	347.3	327.2	316.3	316.8
27.5°	506.7	506.7	504.7	484.1	425.7	378.3	338.5	310.2	289.4	279.1	277.7
30°	548.0	549.0	550.1	487.6	400.5	339.5	298.2	279.1	266.8	259.0	258.5
32.5°	599.1	604.8	598.0	483.5	365.9	292.6	266.8	260.1	254.0	248.7	248.2
35°	666.7	682.2	639.9	467.0	327.2	260.6	247.8	243.0	238.4	234.7	235.3
37.5°	757.5	772.5	666.7	439.1	277.7	242.5	236.8	229.7	222.4	214.7	213.7
40°	864.9	860.1	676.0	386.5	246.7	233.8	226.0	216.7	204.4	193.0	190.9
42.5°	972.1	941.2	668.2	321.4	226.6	226.0	215.1	203.3	190.9	181.1	181.1
45°	1092.4	1012.4	644.5	260.6	210.6	217.7	204.4	192.0	180.6	173.5	172.8
47.5°	1206.0	1079.0	605.3	217.2	194.6	206.9	196.1	184.7	173.9	167.7	166.2
50°	1339.0	1154.8	575.4	187.8	179.0	196.1	191.5	181.1	170.8	163.6	162.5
52.5°	1473.7	1228.6	552.6	167.7	165.1	187.8	189.5	183.2	172.4	158.4	157.5
55°	1614.6	1321.0	507.3	151.7	152.7	181.6	192.0	187.3	179.6	156.8	155.9
57.5°	1732.8	1406.2	427.8	140.9	142.9	177.0	193.0	184.2	175.5	157.9	156.3
60°	1825.2	1464.5	313.8	132.1	134.2	171.8	188.4	173.5	162.1	157.9	155.4
62.5°	1853.6	1466.6	208.5	121.8	127.5	163.0	180.1	167.7	154.3	156.3	155.4
65°	1782.2	1389.0	149.1	112.0	121.8	152.7	176.4	162.1	150.6	158.9	157.9
67.5°	1563.1	1170.3	119.7	104.2	114.1	141.9	169.8	156.8	147.6	164.6	161.5
70°	1217.8	839.6	101.7	96.5	105.8	131.6	160.4	151.2	143.5	160.0	155.9
72.5°	802.9	494.3	89.8	89.3	96.0	122.8	150.2	146.1	136.7	145.0	138.8
75°	419.0	229.1	78.0	80.9	85.1	115.1	140.9	136.7	126.4	129.5	127.5
77.5°	164.6	107.3	67.6	71.2	75.9	103.8	129.0	124.9	116.2	113.5	113.0
80°	90.3	72.2	56.2	60.8	64.0	93.4	116.6	112.0	102.7	101.1	99.6
82.5°	57.3	46.9	46.4	49.6	53.7	83.0	104.7	97.6	89.8	105.8	85.7
85°	26.8	27.8	33.0	37.2	41.8	70.7	91.4	83.6	75.9	73.8	65.6
87.5°	14.9	18.5	21.6	25.3	28.8	49.6	72.2	64.9	56.8	48.5	50.0
90°	3.6	3.6	6.2	5.7	6.2	7.3	35.7	32.0	28.4	13.5	8.7
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



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CATALOG NUMBER: IST-AF-600-LED-E1-T3-7027

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)