

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: P271717

Luminaire Tested: **IST-AF-600-LED-E1-T2-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)-DOWNLIGHT AND  
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-T2-7027-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW  
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5260.5 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G1

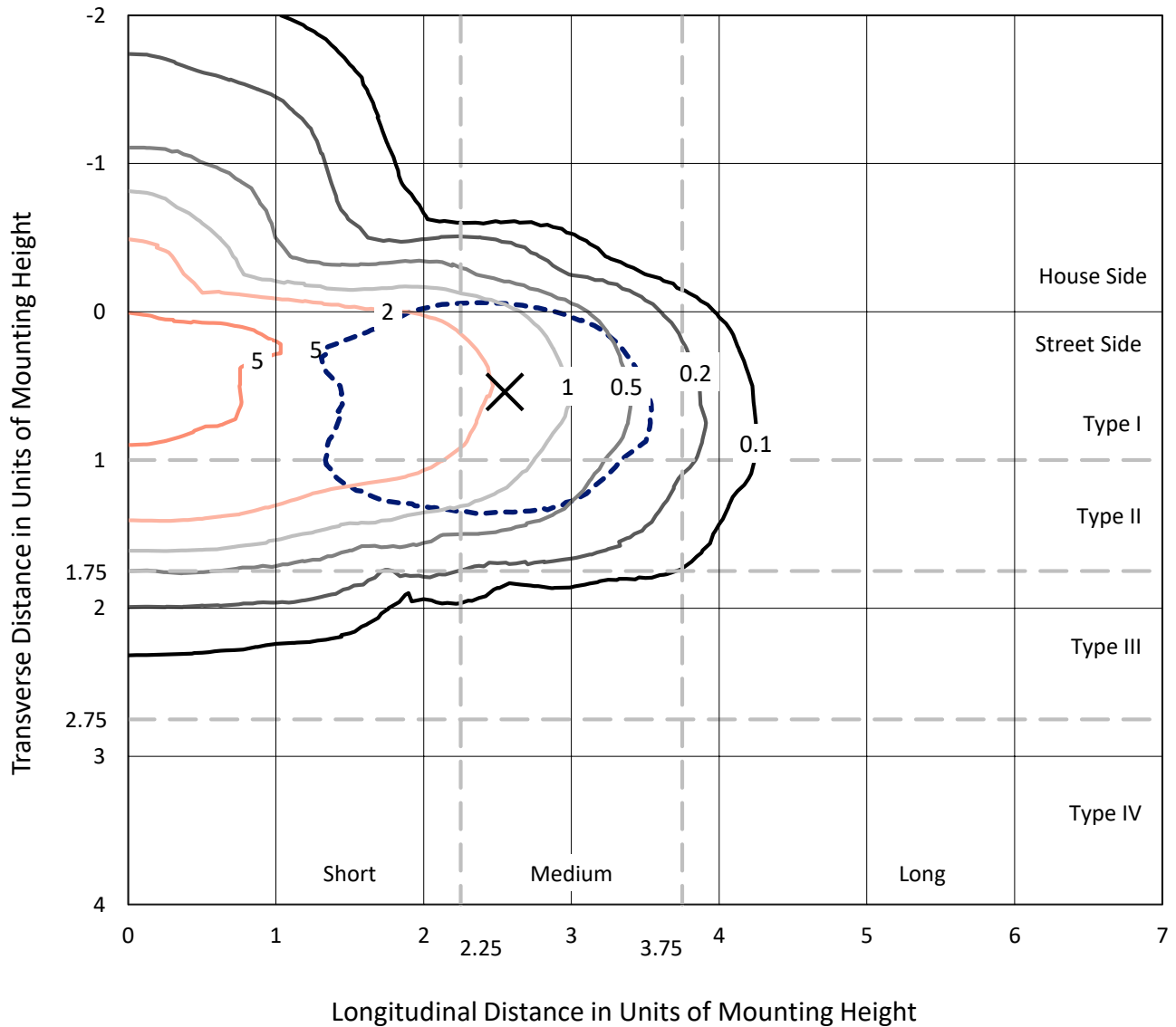
Input Watts (W): 50.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P271717  
 CATALOG NUMBER: IST-AF-600-LED-E1-T2-7027-ULG

### Iso-Footcandle Lines of Horizontal Illumination

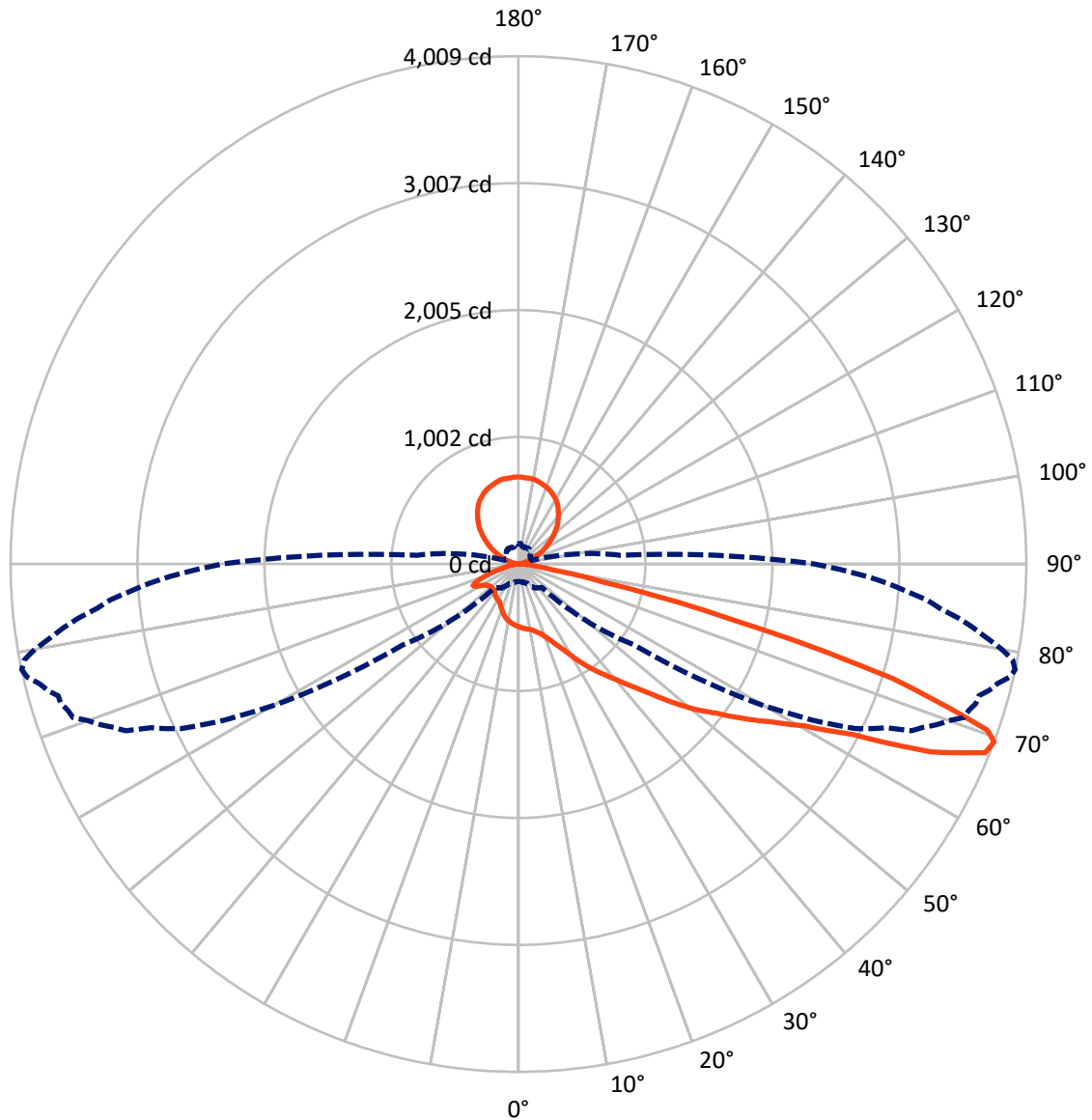
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Medium - Non-Cutoff

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CATALOG NUMBER: IST-AF-600-LED-E1-T2-7027-ULG

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P271717

CATALOG NUMBER: IST-AF-600-LED-E1-T2-7027-ULG

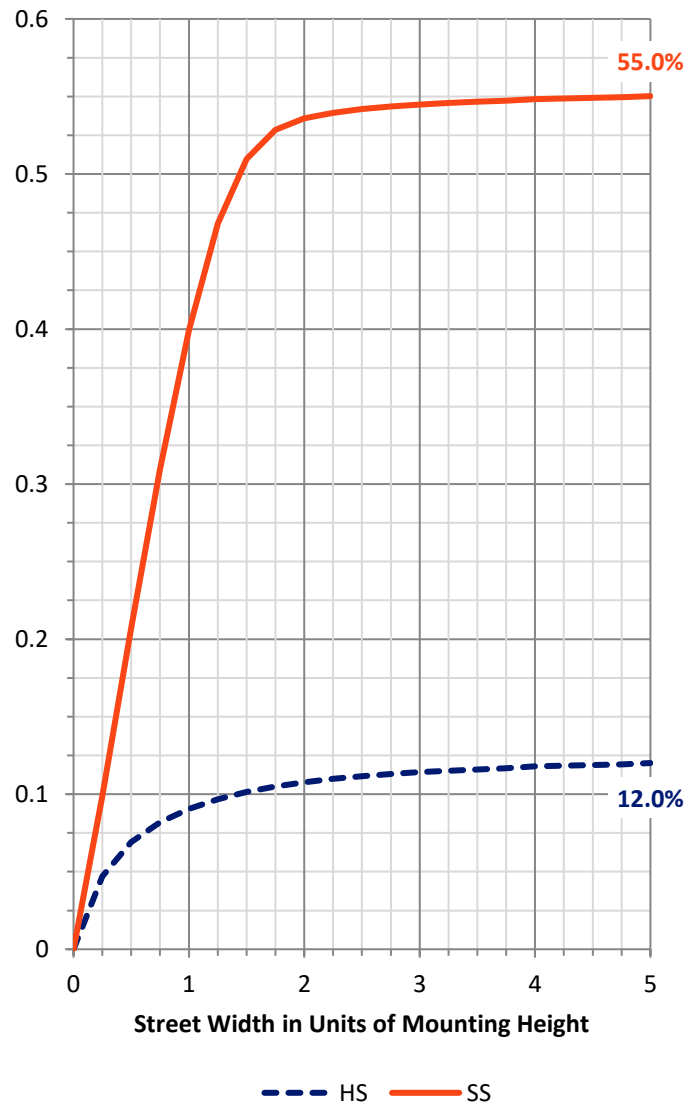
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	650.8	852.7	1503.5
	% Fixture	12.4	16.2	28.6
<b>Street Side</b>	Lumens	2904.9	852.1	3757.0
	% Fixture	55.2	16.2	71.4
<b>Total</b>	Lumens	3555.7	1704.8	5260.5
	% Fixture	67.6	32.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	0.9
10°-20°	138.7	2.6
20°-30°	248.6	4.7
30°-40°	405.8	7.7
40°-50°	600.3	11.4
50°-60°	783.8	14.9
60°-70°	876.6	16.7
70°-80°	393.5	7.5
80°-90°	62.4	1.2
90°-100°	10.9	0.2
100°-110°	56.3	1.1
110°-120°	163.0	3.1
120°-130°	268.1	5.1
130°-140°	330.6	6.3
140°-150°	338.2	6.4
150°-160°	284.9	5.4
160°-170°	187.6	3.6
170°-180°	65.0	1.2
0°-90°	3555.7	67.6
0°-180°	5260.5	100.0



REPORT NUMBER: P271717

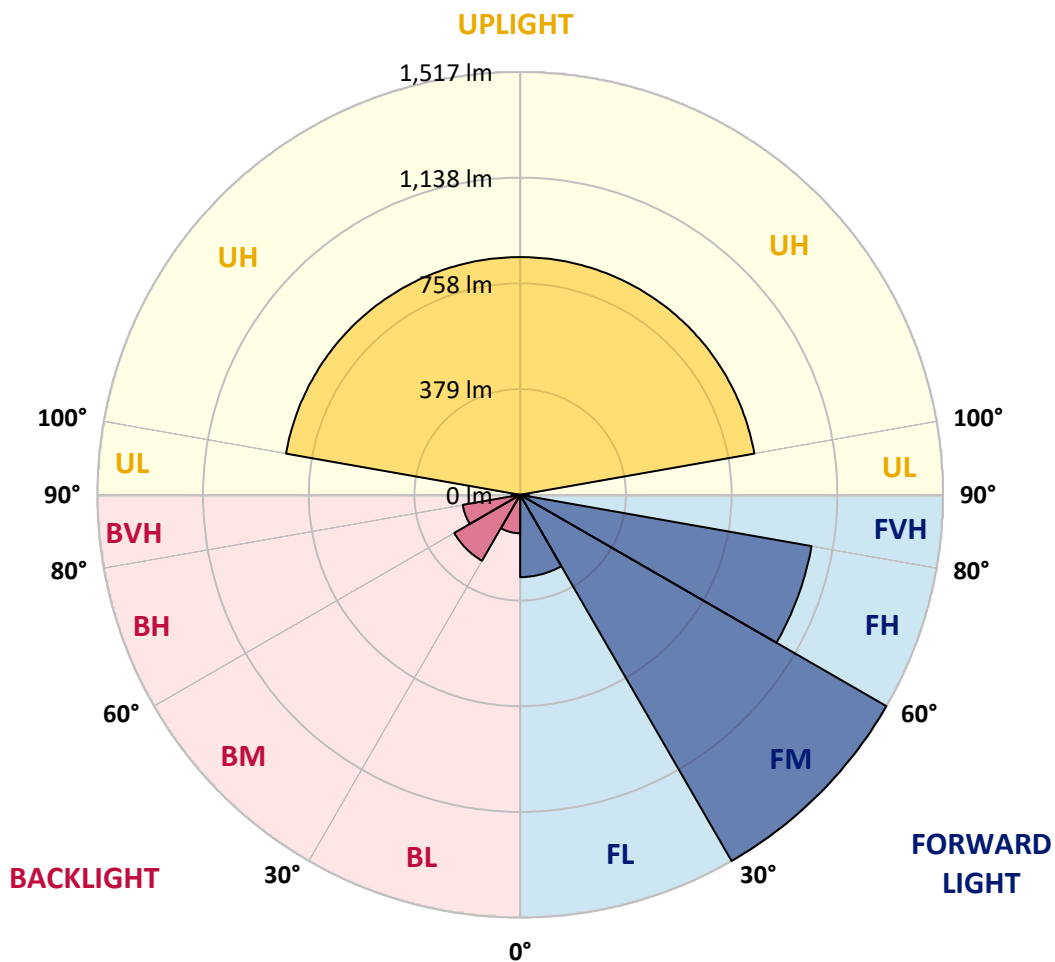
CATALOG NUMBER: IST-AF-600-LED-E1-T2-7027-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.2	5.6			
FM (30°-60°)	1516.7	28.8			
FH (60°-80°)	1061.2	20.2			G1/1800
FVH (80°-90°)	31.8	0.6			G1/100
BL (0°-30°)	138.0	2.6	B1/500		
BM (30°-60°)	273.2	5.2	B1/1000		
BH (60°-80°)	209.0	4.0	B1/500		G1/500
BVH (80°-90°)	30.5	0.6			G1/100
UL (90°-100°)	10.9	0.2		U2/50	
UH (100°-180°)	852.7	16.2		U4/1000	

**BUG Rating: B1-U5-G1**

Type II Medium





REPORT NUMBER: P271717

CATALOG NUMBER: IST-AF-600-LED-E1-T2-7027-ULG

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6
2.5°	529.7	529.7	528.1	527.1	525.6	521.5	515.3	514.2	513.7	512.7	511.7
5°	568.4	564.3	565.3	562.8	557.1	549.9	538.5	532.9	529.7	529.2	527.1
7.5°	599.9	600.4	598.9	593.7	586.0	577.3	561.7	553.0	550.4	548.9	545.2
10°	622.6	621.1	620.1	619.0	612.8	605.5	586.0	575.2	573.1	569.0	564.9
12.5°	639.1	639.1	639.1	638.2	634.6	628.8	613.4	602.5	599.9	594.3	590.6
15°	657.2	655.1	653.1	651.6	652.1	652.1	640.7	632.5	628.4	625.2	618.0
17.5°	696.0	691.3	686.7	680.5	670.7	668.1	667.6	667.0	661.3	660.8	653.7
20°	729.1	724.8	720.7	714.5	700.6	685.7	693.4	700.6	699.6	700.0	696.5
22.5°	769.8	766.7	758.3	751.3	733.2	715.1	716.1	731.6	733.6	735.7	736.7
25°	825.5	823.9	810.6	796.7	776.0	759.0	743.0	762.0	766.2	770.8	780.1
27.5°	881.9	878.3	863.8	851.3	825.5	807.5	785.3	795.6	801.7	810.6	825.0
30°	954.6	944.7	939.6	911.8	888.1	861.7	842.6	845.7	844.7	855.0	877.1
32.5°	1059.9	1044.5	1018.7	990.8	962.8	927.8	911.8	911.2	908.6	920.5	932.9
35°	1116.8	1113.1	1097.1	1069.3	1038.8	1005.7	995.4	985.6	987.1	993.3	997.9
37.5°	1178.1	1175.1	1162.7	1147.1	1124.0	1142.0	1084.7	1070.3	1063.5	1060.4	1062.0
40°	1205.1	1207.6	1214.3	1216.9	1203.5	1290.2	1177.2	1129.7	1127.6	1122.9	1118.3
42.5°	1210.6	1217.5	1230.9	1260.2	1273.2	1462.1	1253.6	1196.3	1188.0	1184.3	1184.9
45°	1231.4	1241.6	1244.2	1271.1	1332.1	1471.0	1339.8	1255.1	1248.9	1248.4	1245.3
47.5°	1281.4	1295.4	1295.4	1307.2	1365.1	1488.0	1369.2	1314.0	1309.8	1307.8	1316.1
50°	1288.7	1307.2	1344.4	1382.6	1424.4	1501.9	1402.7	1378.0	1379.5	1384.2	1408.5
52.5°	1166.3	1184.9	1283.0	1395.6	1531.8	1540.1	1453.4	1463.2	1473.5	1496.1	1540.6
55°	1000.0	1013.5	1129.7	1309.8	1535.9	1685.2	1580.4	1607.8	1629.4	1636.2	1705.8
57.5°	787.4	805.9	924.2	1158.1	1434.2	1726.5	1872.6	1884.9	1860.7	1882.8	1908.2
60°	426.4	424.4	589.1	837.4	1220.4	1650.1	2154.5	2367.2	2372.3	2406.4	2365.7
62.5°	238.5	238.5	286.0	430.1	785.3	1396.1	2289.8	2784.4	2848.9	2903.1	3022.3
65°	180.2	181.7	198.7	259.3	440.9	881.2	2190.7	2926.9	3050.7	3175.1	3384.3
67.5°	149.7	149.7	162.1	193.0	275.7	400.1	1612.9	2640.8	2795.7	2944.5	3233.4
69°	138.9	139.3	148.7	169.9	230.8	260.1	1114.2	2239.1	2416.2	2622.2	2963.0
70°	133.7	132.2	140.9	158.6	209.0	205.5	816.3	1947.0	2084.2	2269.1	2661.0
72.5°	118.8	117.2	121.8	135.3	164.7	146.6	333.0	1047.5	1254.7	1461.6	1774.0
75°	105.8	104.3	107.9	114.2	128.1	112.0	167.3	438.8	531.3	686.7	947.4
77.5°	93.4	90.4	93.4	97.6	100.7	83.6	113.5	202.8	248.8	305.6	431.6
80°	84.7	81.6	85.2	83.1	79.1	64.6	75.4	118.3	131.2	156.9	205.5
82.5°	60.4	59.8	81.0	83.6	63.0	47.0	53.7	75.9	84.7	89.3	108.4
85°	37.2	35.7	47.0	59.8	64.0	29.5	34.6	44.9	47.0	51.1	60.4
87.5°	19.1	19.7	25.3	31.0	41.8	17.6	20.6	26.3	26.3	26.3	29.9
90°	9.5	10.6	14.6	18.7	16.6	11.5	14.6	14.0	15.3	14.5	15.9
92.5°	4.0	4.0	4.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8
95°	4.9	4.9	5.9	6.8	6.8	6.8	6.8	7.4	7.5	7.5	7.7
97.5°	6.8	6.8	7.8	7.8	8.8	8.8	11.8	10.8	10.6	10.4	10.0
100°	7.8	7.8	8.8	9.8	11.8	20.6	28.5	26.9	26.7	26.4	25.8
102.5°	10.8	10.8	12.8	17.7	26.5	39.3	49.0	47.6	47.3	47.0	46.4
105°	20.6	21.6	26.5	35.3	47.1	61.8	70.7	69.7	69.5	69.3	68.9
107.5°	40.2	41.2	48.1	57.0	71.7	86.3	93.2	92.7	92.6	92.5	92.3



REPORT NUMBER: P271717

CATALOG NUMBER: IST-AF-600-LED-E1-T2-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	64.8	66.7	72.7	85.4	100.1	111.9	117.8	118.3	118.4	118.5	118.7
112.5°	97.2	97.2	104.0	118.8	131.5	140.3	145.3	146.2	146.4	146.6	147.1
115°	137.4	136.5	144.3	156.0	164.9	170.8	175.7	177.1	177.4	177.8	178.3
117.5°	180.6	180.6	185.5	193.3	198.3	201.2	207.1	209.0	209.5	209.8	210.7
120°	220.8	218.8	221.8	228.7	232.6	238.5	241.5	243.4	243.8	244.2	245.0
122.5°	258.2	255.2	256.2	262.0	266.0	271.8	273.8	275.8	276.2	276.6	277.4
125°	292.5	288.5	290.5	293.5	299.3	304.3	307.2	308.2	308.4	308.6	308.9
127.5°	323.9	322.9	322.9	326.8	332.7	333.7	338.6	339.1	339.2	339.3	339.5
130°	356.3	354.3	355.3	359.2	363.2	365.1	370.0	372.0	372.3	372.8	373.5
132.5°	388.7	386.7	385.7	393.5	396.5	397.5	403.4	405.9	406.3	406.8	407.8
135°	421.0	418.1	418.1	424.0	427.0	428.9	434.8	437.3	437.7	438.2	439.2
137.5°	451.5	448.5	450.5	451.5	455.4	459.3	464.2	465.2	465.4	465.6	466.0
140°	479.0	476.0	478.0	480.0	481.9	487.8	490.7	491.7	491.9	492.1	492.5
142.5°	508.4	505.5	507.5	508.4	511.3	515.3	517.2	520.2	520.7	521.4	522.5
145°	539.8	535.9	534.0	536.8	539.8	540.8	545.7	548.7	549.2	549.9	551.0
147.5°	564.3	561.4	560.5	563.3	563.3	564.3	569.3	571.7	572.2	572.7	573.7
150°	584.0	581.0	582.0	582.0	582.0	582.0	586.0	587.4	587.7	588.0	588.6
152.5°	599.7	596.7	596.7	597.7	598.7	598.7	599.7	601.1	601.4	601.8	602.3
155°	617.3	613.5	613.5	615.4	618.3	616.3	614.4	616.9	617.3	617.9	618.8
157.5°	634.0	631.1	631.1	632.0	634.0	633.0	632.0	634.0	634.5	634.8	635.6
160°	650.7	647.8	646.8	643.8	642.8	642.8	645.8	648.8	649.4	649.9	651.1
162.5°	660.5	656.6	656.6	652.7	648.8	650.7	654.7	656.6	657.0	657.4	658.2
165°	668.4	665.5	663.5	663.5	660.5	660.5	659.5	662.1	662.5	662.9	663.9
167.5°	677.2	674.3	671.3	673.3	675.3	672.3	665.5	668.4	669.0	669.6	670.8
170°	685.0	682.2	679.2	679.2	680.2	678.2	673.3	674.8	675.1	675.3	676.0
172.5°	686.0	684.1	682.2	680.2	677.2	677.2	676.2	677.7	678.0	678.3	678.8
175°	687.0	685.0	684.1	682.2	678.2	677.2	677.2	679.7	680.2	680.6	681.6
177.5°	693.9	692.0	687.0	686.0	684.1	682.2	681.2	683.6	684.1	684.6	685.6
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0





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 CATALOG NUMBER: IST-AF-600-LED-E1-T2-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6
2.5°	512.1	510.6	508.5	509.1	508.0	506.5	507.0	506.5	507.0	505.9	504.9
5°	527.1	526.0	523.0	522.5	521.5	520.4	519.0	517.3	516.9	515.8	513.7
7.5°	544.1	541.0	539.5	537.5	534.9	530.8	530.2	528.1	526.7	525.6	523.0
10°	561.7	558.0	556.1	553.4	550.9	548.2	545.7	542.0	538.5	537.5	534.3
12.5°	588.1	583.4	579.2	575.2	572.6	567.9	564.3	559.6	556.1	554.5	549.3
15°	617.0	610.8	606.6	603.5	599.3	595.3	590.6	586.5	580.8	576.3	571.5
17.5°	651.0	645.3	642.3	636.6	631.4	626.7	623.2	618.0	613.4	605.1	601.0
20°	696.0	691.3	687.7	681.5	675.9	671.1	668.1	657.2	651.0	643.8	637.1
22.5°	737.8	738.2	734.6	730.5	727.0	720.7	715.6	707.9	700.0	691.3	682.0
25°	783.2	787.4	787.8	786.8	784.8	777.6	775.0	767.2	761.0	746.5	742.4
27.5°	833.8	838.5	844.1	851.3	852.9	845.1	848.8	841.0	830.2	823.9	810.6
30°	882.9	895.8	907.6	915.9	921.0	924.6	922.1	919.5	912.3	902.0	890.1
32.5°	945.8	959.3	971.2	989.2	998.5	1009.9	1007.8	1008.9	1006.2	996.0	981.9
35°	1009.3	1021.2	1036.7	1048.6	1071.3	1083.6	1094.0	1093.5	1093.5	1087.3	1073.8
37.5°	1065.6	1072.4	1085.2	1104.8	1119.8	1139.5	1156.0	1162.7	1173.5	1174.1	1159.6
40°	1124.5	1131.1	1140.9	1155.5	1172.0	1195.3	1217.5	1239.1	1249.5	1260.2	1254.7
42.5°	1188.0	1195.3	1202.4	1211.7	1235.5	1253.6	1283.5	1313.0	1334.2	1356.4	1353.7
45°	1251.0	1259.2	1269.6	1283.5	1304.7	1334.2	1363.0	1396.1	1444.6	1471.0	1489.0
47.5°	1322.2	1335.6	1354.7	1376.9	1394.0	1424.4	1461.1	1512.2	1561.3	1606.7	1635.1
50°	1429.7	1434.8	1465.8	1487.4	1519.9	1550.9	1587.6	1632.5	1696.0	1742.5	1787.9
52.5°	1556.1	1575.6	1606.7	1631.5	1657.4	1688.3	1725.9	1766.2	1829.2	1881.4	1940.2
55°	1719.3	1747.1	1774.0	1787.4	1823.5	1851.5	1881.9	1921.7	1989.3	2046.1	2115.3
57.5°	1913.9	1941.8	1954.7	1974.3	1989.7	2020.7	2062.1	2088.9	2148.7	2207.7	2281.0
60°	2313.5	2296.0	2311.4	2281.0	2276.3	2278.9	2287.6	2308.4	2341.9	2396.6	2474.0
62.5°	3034.7	3009.4	2942.4	2918.1	2871.2	2807.7	2747.6	2739.4	2721.9	2763.2	2811.8
65°	3456.0	3547.9	3557.7	3583.6	3565.0	3515.4	3445.2	3422.5	3365.7	3326.0	3323.4
67.5°	3354.9	3492.7	3578.9	3687.8	3748.3	3807.2	3822.6	3842.8	3806.1	3788.1	3793.3
69°	3073.6	3175.7	3368.8	3443.1	3538.6	3617.1	3720.4	3738.5	3774.0	3779.3	3847.9
70°	2794.6	2944.9	3055.5	3167.0	3299.0	3385.4	3431.7	3508.2	3596.5	3639.8	3714.2
72.5°	2009.4	2058.5	2136.9	2281.4	2318.2	2407.5	2498.8	2563.9	2667.7	2741.0	2916.0
75°	1084.3	1113.7	1237.1	1319.1	1340.8	1370.3	1437.4	1453.4	1492.1	1515.8	1684.1
77.5°	495.1	540.0	556.1	601.0	575.6	588.1	604.1	600.4	611.3	662.9	721.8
80°	228.2	237.0	243.2	261.8	262.8	258.6	260.1	257.6	255.6	263.8	270.0
82.5°	111.0	124.4	124.4	135.7	141.4	140.0	143.0	142.0	144.1	142.0	148.7
85°	65.0	65.0	70.2	76.4	75.4	77.4	77.4	81.6	82.0	83.1	83.1
87.5°	30.5	33.6	35.1	37.7	38.8	40.2	41.3	41.3	41.8	40.9	41.8
90°	16.6	16.6	21.8	21.8	22.7	24.3	22.3	23.3	26.9	22.3	25.9
92.5°	6.8	6.7	6.6	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9
95°	7.8	7.7	7.6	7.5	7.5	7.4	7.3	7.2	7.1	7.0	6.8
97.5°	9.8	9.7	9.6	9.5	9.4	9.3	9.3	9.2	9.1	8.9	8.8
100°	25.5	25.2	25.0	24.6	24.3	24.1	23.7	23.4	23.2	22.9	22.5
102.5°	46.2	45.6	45.2	44.6	44.2	43.7	43.2	42.7	42.2	41.7	41.2
105°	68.7	68.2	67.7	67.2	66.7	66.3	65.8	65.3	64.8	64.3	63.8
107.5°	92.3	91.9	91.4	91.1	90.7	90.3	89.9	89.5	89.1	88.8	88.3



REPORT NUMBER: P271717

CATALOG NUMBER: IST-AF-600-LED-E1-T2-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	118.8	118.6	118.4	118.1	117.9	117.8	117.6	117.4	117.2	117.0	116.8
112.5°	147.2	147.1	147.1	147.0	146.9	146.7	146.6	146.5	146.4	146.3	146.2
115°	178.7	178.3	178.0	177.8	177.4	177.1	176.9	176.6	176.2	176.0	175.7
117.5°	211.0	210.6	210.0	209.6	209.0	208.6	208.0	207.6	207.1	206.6	206.1
120°	245.3	244.9	244.4	243.9	243.4	242.9	242.5	241.9	241.5	240.9	240.5
122.5°	277.8	277.3	276.8	276.3	275.8	275.3	274.8	274.3	273.8	273.4	272.8
125°	309.2	308.7	308.2	307.7	307.2	306.7	306.2	305.7	305.2	304.7	304.3
127.5°	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6
130°	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
132.5°	408.3	408.1	407.9	407.7	407.5	407.3	407.1	406.9	406.8	406.6	406.3
135°	439.7	439.6	439.5	439.5	439.3	439.2	439.1	439.0	438.9	438.8	438.7
137.5°	466.2	466.3	466.4	466.5	466.6	466.7	466.8	466.8	467.0	467.1	467.2
140°	492.7	492.9	493.1	493.3	493.5	493.7	493.9	494.1	494.2	494.4	494.7
142.5°	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2
145°	551.6	551.5	551.4	551.3	551.2	551.1	551.0	550.9	550.8	550.8	550.6
147.5°	574.2	574.3	574.4	574.5	574.6	574.6	574.7	574.8	574.9	575.1	575.2
150°	588.9	589.2	589.5	589.7	590.1	590.4	590.6	590.9	591.3	591.5	591.8
152.5°	602.7	603.0	603.4	603.8	604.2	604.6	605.0	605.4	605.7	606.2	606.5
155°	619.3	619.8	620.3	620.8	621.3	621.8	622.3	622.7	623.2	623.7	624.2
157.5°	636.0	636.2	636.4	636.6	636.8	637.0	637.2	637.3	637.5	637.8	638.0
160°	651.7	651.5	651.1	650.8	650.6	650.2	649.9	649.7	649.4	649.0	648.8
162.5°	658.5	658.5	658.4	658.3	658.2	658.1	658.0	657.9	657.8	657.6	657.6
165°	664.5	664.7	665.0	665.4	665.6	665.9	666.3	666.5	666.8	667.1	667.4
167.5°	671.3	671.8	672.1	672.5	672.9	673.3	673.7	674.1	674.4	674.9	675.3
170°	676.2	676.7	677.2	677.7	678.2	678.7	679.2	679.7	680.2	680.6	681.2
172.5°	679.2	679.4	679.6	679.7	679.9	680.2	680.4	680.6	680.7	680.9	681.2
175°	682.2	682.3	682.4	682.4	682.5	682.6	682.7	682.8	682.9	683.0	683.1
177.5°	686.0	686.2	686.5	686.7	686.8	687.0	687.2	687.5	687.7	687.8	688.0
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



REPORT NUMBER: P271717  
 CATALOG NUMBER: IST-AF-600-LED-E1-T2-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6
2.5°	503.9	504.9	504.4	502.3	501.8	501.8	500.9	500.3	499.3	498.6	499.7
5°	513.2	513.2	511.7	509.6	507.5	507.0	506.5	503.9	502.9	501.8	500.9
7.5°	521.9	520.9	519.0	515.3	513.2	512.7	510.6	508.0	505.5	503.4	502.3
10°	531.3	530.2	526.0	523.5	519.4	519.0	515.3	512.1	509.6	507.0	504.9
12.5°	544.7	543.7	539.1	532.9	529.7	527.7	523.0	519.4	515.8	512.7	509.1
15°	565.3	561.2	558.0	551.9	547.2	543.1	537.5	532.2	527.1	521.9	519.0
17.5°	594.3	588.6	580.3	576.7	570.5	563.8	556.1	552.5	545.7	539.5	533.3
20°	632.0	626.3	613.4	608.7	599.9	590.2	583.9	576.3	570.5	560.7	554.0
22.5°	673.8	668.6	656.2	643.8	635.6	627.8	618.0	608.2	597.4	588.1	580.8
25°	728.0	720.2	709.4	696.9	684.6	673.8	660.3	646.4	637.1	624.2	613.9
27.5°	801.7	788.4	770.3	756.9	747.1	730.5	714.1	701.7	687.1	670.1	658.7
30°	881.9	866.9	853.4	837.8	821.4	805.4	782.7	764.6	749.2	731.1	712.4
32.5°	970.6	957.8	938.5	918.4	900.4	880.2	863.8	844.7	817.7	798.8	779.1
35°	1059.9	1045.0	1025.3	1008.3	987.7	967.0	948.4	923.1	898.8	871.4	844.1
37.5°	1146.1	1133.2	1111.6	1085.7	1067.6	1045.4	1026.4	999.5	970.6	940.2	919.5
40°	1242.2	1221.5	1206.5	1176.6	1158.1	1133.2	1105.9	1085.2	1057.3	1024.2	995.0
42.5°	1352.2	1337.7	1321.7	1297.4	1277.7	1248.4	1213.8	1187.5	1161.7	1122.4	1081.6
45°	1491.5	1482.2	1456.0	1436.3	1410.0	1379.0	1349.1	1317.1	1276.3	1230.9	1193.7
47.5°	1658.8	1651.6	1627.9	1600.0	1565.4	1523.5	1495.7	1451.8	1417.3	1360.4	1316.1
50°	1810.6	1814.3	1801.3	1758.5	1727.5	1685.7	1641.8	1603.7	1550.5	1491.5	1434.8
52.5°	1991.8	1988.2	1955.7	1932.0	1895.3	1844.7	1796.7	1747.7	1689.4	1628.4	1557.6
55°	2165.4	2176.1	2153.5	2119.9	2075.4	2004.7	1956.1	1892.7	1831.3	1764.2	1682.5
57.5°	2333.7	2368.2	2350.7	2310.9	2265.4	2214.4	2150.4	2079.0	2015.5	1927.9	1836.0
60°	2543.2	2589.3	2596.4	2570.6	2521.0	2461.6	2377.5	2321.8	2234.5	2153.5	2082.7
62.5°	2866.0	2970.2	2964.0	2976.4	2941.3	2904.7	2806.0	2746.2	2632.6	2574.3	2475.5
65°	3404.9	3481.9	3574.3	3571.2	3546.9	3459.1	3357.0	3256.7	3181.9	3066.7	2964.0
67.5°	3857.2	3920.7	3975.4	3947.1	3891.3	3792.6	3672.9	3533.6	3419.4	3292.4	3157.6
69°	3899.5	3977.0	4009.0	3973.9	3873.7	3745.1	3628.0	3498.4	3341.4	3232.6	3068.3
70°	3786.0	3862.4	3926.9	3836.5	3744.7	3619.2	3491.2	3356.3	3216.0	3098.7	2933.1
72.5°	3007.3	3093.7	3084.8	3075.0	3001.8	2876.2	2758.5	2686.2	2587.7	2446.2	2326.4
75°	1748.7	1788.4	1718.7	1792.1	1704.3	1577.9	1594.3	1512.7	1440.4	1358.9	1295.9
77.5°	686.7	721.8	685.0	673.2	634.0	625.2	559.6	567.4	534.9	470.8	441.4
80°	260.1	264.9	258.6	245.8	243.2	228.2	224.0	209.7	202.8	181.7	174.0
82.5°	140.0	142.5	138.4	134.3	131.2	122.3	116.7	105.8	99.6	93.0	92.4
85°	80.6	78.5	76.4	74.3	69.7	64.6	60.4	56.2	51.7	48.0	44.4
87.5°	42.3	42.8	43.4	41.3	38.2	34.0	31.5	29.9	26.3	24.7	23.3
90°	22.5	18.8	20.1	23.1	21.8	19.0	18.2	16.6	14.8	14.6	13.0
92.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	8.7	8.6	8.5	8.4	8.4	8.3	8.2	8.1	7.9	7.8	7.8
100°	22.2	21.8	21.4	21.0	20.6	20.2	19.9	19.4	19.0	18.7	18.7
102.5°	41.0	40.6	40.3	40.1	39.7	39.4	39.2	38.9	38.5	38.3	38.1
105°	63.4	63.0	62.6	62.3	61.8	61.4	61.1	60.6	60.3	59.8	59.8
107.5°	88.0	87.8	87.5	87.1	86.9	86.6	86.2	86.0	85.7	85.4	85.2



REPORT NUMBER: P271717  
 CATALOG NUMBER: IST-AF-600-LED-E1-T2-7027-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	116.5	116.2	115.9	115.6	115.3	115.1	114.7	114.4	114.2	113.8	114.1	0°
112.5°	146.1	145.9	145.6	145.4	145.3	145.1	144.9	144.6	144.4	144.3	144.3	2.5°
115°	175.5	175.3	175.1	174.9	174.7	174.5	174.3	174.1	173.9	173.7	173.9	5°
117.5°	205.9	205.7	205.5	205.4	205.2	204.9	204.7	204.5	204.4	204.2	204.4	7.5°
120°	240.3	240.0	239.8	239.7	239.5	239.3	239.1	238.9	238.7	238.5	238.5	10°
122.5°	272.6	272.5	272.3	272.1	271.8	271.6	271.5	271.3	271.1	270.9	271.1	12.5°
125°	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°
127.5°	339.5	339.4	339.3	339.2	339.1	339.0	338.9	338.8	338.8	338.6	339.0	17.5°
130°	373.8	373.5	373.3	373.2	373.0	372.8	372.5	372.3	372.2	372.0	372.2	20°
132.5°	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.6	22.5°
135°	439.0	439.3	439.6	439.9	440.2	440.5	440.8	441.1	441.3	441.7	441.9	25°
137.5°	467.7	468.2	468.6	469.2	469.6	470.2	470.6	471.1	471.6	472.1	472.3	27.5°
140°	495.1	495.7	496.1	496.7	497.1	497.6	498.1	498.6	499.1	499.5	500.0	30°
142.5°	523.3	523.4	523.4	523.5	523.6	523.7	523.8	523.9	524.0	524.1	524.5	32.5°
145°	550.3	550.0	549.8	549.4	549.1	548.9	548.5	548.2	548.0	547.7	548.1	35°
147.5°	574.8	574.6	574.3	573.9	573.7	573.4	573.1	572.8	572.5	572.2	572.6	37.5°
150°	592.2	592.4	592.7	593.0	593.3	593.6	593.9	594.2	594.5	594.8	595.6	40°
152.5°	607.1	607.5	608.1	608.5	609.1	609.5	609.9	610.5	610.9	611.5	612.5	42.5°
155°	624.4	624.6	624.8	625.0	625.2	625.4	625.6	625.8	626.0	626.2	626.7	45°
157.5°	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	639.0	47.5°
160°	648.7	648.6	648.5	648.4	648.3	648.1	648.0	647.9	647.9	647.8	648.9	50°
162.5°	657.4	657.2	657.0	656.8	656.6	656.4	656.2	656.0	655.9	655.7	656.8	52.5°
165°	667.2	667.0	666.8	666.6	666.5	666.3	666.0	665.8	665.6	665.5	666.3	55°
167.5°	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	676.4	57.5°
170°	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	684.1	60°
172.5°	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	684.1	62.5°
175°	682.9	682.7	682.5	682.4	682.2	681.9	681.7	681.5	681.4	681.2	682.2	65°
177.5°	687.7	687.5	687.1	686.8	686.6	686.2	685.9	685.7	685.4	685.0	685.9	67.5°
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	69°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P271717  
 NUMBER: IST-AF-600-LED-E1-T2-7027-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	110°	114.3
498.2	498.2	496.7	495.7	492.0	485.8	479.6	473.9	466.2	463.2	458.9	112.5°	144.3
499.7	498.6	497.2	495.1	487.9	473.5	458.5	442.4	426.0	411.0	393.4	115°	174.1
500.9	498.6	496.7	494.1	483.7	461.5	431.6	400.1	370.7	348.5	339.2	117.5°	204.5
501.3	499.7	497.2	493.6	479.2	446.1	398.1	352.7	326.8	318.0	316.6	120°	238.5
507.0	504.4	500.3	496.1	477.1	429.0	360.4	317.0	306.7	310.8	318.0	122.5°	271.3
514.2	511.1	505.9	501.8	476.0	406.8	323.7	296.9	300.6	311.8	323.7	125°	304.3
527.1	521.9	516.3	512.1	478.1	379.4	294.3	286.5	297.4	311.8	327.8	127.5°	339.4
546.2	539.1	532.2	525.1	481.2	345.4	276.8	279.8	292.8	308.2	325.7	130°	372.3
570.0	561.7	552.5	541.6	484.7	315.9	267.0	272.5	284.4	297.9	312.3	132.5°	406.8
602.0	590.6	578.8	565.3	489.9	284.0	258.2	264.3	271.6	279.4	286.5	135°	442.1
642.3	626.7	613.9	595.8	495.1	262.2	251.0	253.1	254.5	255.6	255.1	137.5°	472.5
696.0	672.2	657.2	635.0	500.9	251.0	242.6	240.0	237.5	233.9	229.8	140°	500.4
752.8	733.2	709.4	680.9	504.4	243.2	234.9	226.6	219.5	215.9	215.9	142.5°	524.9
818.9	794.6	764.6	729.1	499.7	234.9	224.6	213.8	209.7	214.2	212.7	145°	548.4
884.9	851.3	818.4	777.6	488.4	225.7	213.3	207.6	210.7	204.5	200.8	147.5°	573.0
957.8	920.5	874.6	827.1	471.9	215.9	207.6	210.7	199.9	192.6	195.7	150°	596.4
1039.2	995.4	945.8	881.2	461.0	209.7	198.7	201.4	192.1	186.8	185.3	152.5°	613.5
1150.3	1087.8	1027.4	951.6	469.4	199.9	181.7	192.1	186.8	182.3	178.1	155°	627.4
1259.2	1192.6	1121.4	1032.1	483.7	192.6	168.3	182.3	185.9	178.1	170.4	157.5°	640.0
1368.7	1297.9	1214.9	1115.2	501.3	187.9	158.0	170.4	183.3	174.0	167.8	160°	650.1
1483.8	1394.5	1309.3	1201.9	524.0	183.3	149.7	160.1	178.7	174.0	164.7	162.5°	658.0
1604.6	1499.3	1414.1	1297.9	563.8	176.6	139.3	151.8	174.0	173.5	161.5	165°	667.0
1745.0	1651.2	1541.6	1423.5	619.0	168.8	130.2	145.5	169.9	171.4	158.0	167.5°	677.6
1984.1	1887.0	1754.9	1642.3	728.4	158.6	124.4	139.3	163.1	167.3	154.9	170°	685.0
2371.9	2239.7	2118.3	2013.0	915.9	144.1	120.4	132.7	155.9	162.1	152.4	172.5°	685.0
2816.4	2687.3	2540.7	2363.6	1020.1	130.6	114.6	124.4	148.7	156.9	149.7	175°	683.1
3005.3	2836.5	2658.4	2448.2	920.5	119.7	108.4	116.7	140.5	149.7	146.2	177.5°	686.7
2918.6	2747.6	2540.7	2334.7	800.7	114.2	104.8	112.6	134.3	145.1	142.5	180°	687.0
2767.9	2595.9	2411.1	2163.7	715.1	111.0	102.2	110.0	131.6	142.5	140.5		
2189.1	2035.6	1865.4	1677.0	487.4	100.7	94.0	102.2	121.3	133.2	132.7		
1160.1	1115.2	989.2	878.7	252.4	89.8	85.2	93.4	112.0	124.4	124.4		
417.7	378.9	362.5	301.0	134.3	78.5	76.4	82.6	101.7	113.5	113.1		
158.0	153.9	137.9	129.1	85.2	64.0	64.6	70.8	89.3	100.7	100.3		
89.3	81.0	78.5	75.9	54.2	50.7	53.2	59.4	76.4	86.1	87.8		
42.8	39.7	38.8	36.1	35.7	38.8	41.8	47.0	60.9	72.9	71.2		
20.6	19.7	19.1	18.5	25.3	24.7	30.5	32.5	40.9	57.9	52.1		
13.6	13.6	13.0	12.0	14.1	17.1	18.7	20.8	24.0	41.4	35.2		
5.9	5.9	5.9	5.9	5.9	5.9	6.8	6.8	5.9	5.9	5.9		
6.8	6.8	6.8	6.8	6.8	6.8	7.8	6.8	6.8	6.8	6.8		
7.8	7.8	7.8	7.8	7.8	8.8	9.8	11.8	8.8	8.8	7.8		
18.7	18.7	18.7	18.7	18.7	22.5	25.5	28.5	20.6	11.8	9.8		
37.9	37.7	37.5	37.3	38.3	41.2	46.2	49.0	39.3	26.5	17.7		
59.8	59.8	59.8	59.8	59.8	63.8	68.7	70.7	61.8	47.1	35.3		
85.0	84.8	84.6	84.4	85.4	88.3	92.3	93.2	86.3	71.7	57.0		

271717  
 IST-AF-600-LED-E1-T2-7027-ULG

REPORT NUMBER: P271717  
 CATALOG NUMBER: IST-AF-60

**TION (continued):**

**CANDELA DISTRIBUTION (con**

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
114.4	114.6	114.8	113.8	116.8	118.8	117.8	111.9	100.1	85.4	0°	494.6	494.6
144.3	144.3	144.3	144.3	146.2	147.2	145.3	140.3	131.5	118.8	2.5°	455.4	448.2
174.3	174.5	174.7	173.7	175.7	178.7	175.7	170.8	164.9	156.0	5°	380.5	379.4
204.7	204.9	205.2	204.2	206.1	211.0	207.1	201.2	198.3	193.3	7.5°	333.5	326.8
238.5	238.5	238.5	238.5	240.5	245.3	241.5	238.5	232.6	228.7	10°	318.0	317.6
271.5	271.6	271.8	270.9	272.8	277.8	273.8	271.8	266.0	262.0	12.5°	324.7	326.4
304.3	304.3	304.3	304.3	304.3	309.2	307.2	304.3	299.3	293.5	15°	333.5	336.7
339.8	340.2	340.5	338.6	339.6	339.6	338.6	333.7	332.7	326.8	17.5°	339.2	344.9
372.5	372.8	373.0	372.0	374.0	374.0	370.0	365.1	363.2	359.2	20°	337.7	344.4
406.9	407.1	407.3	406.3	406.3	408.3	403.4	397.5	396.5	393.5	22.5°	320.7	323.7
442.2	442.4	442.7	441.7	438.7	439.7	434.8	428.9	427.0	424.0	25°	290.2	291.2
472.7	472.9	473.0	472.1	467.2	466.2	464.2	459.3	455.4	451.5	27.5°	253.5	252.4
500.7	501.2	501.5	499.5	494.7	492.7	490.7	487.8	481.9	480.0	30°	227.7	220.9
525.3	525.7	526.0	524.1	523.2	523.2	517.2	515.3	511.3	508.4	32.5°	215.9	211.7
548.9	549.2	549.7	547.7	550.6	551.6	545.7	540.8	539.8	536.8	35°	207.6	200.8
573.4	573.7	574.2	572.2	575.2	574.2	569.3	564.3	563.3	563.3	37.5°	215.3	214.8
597.1	597.9	598.7	594.8	591.8	588.9	586.0	582.0	582.0	582.0	40°	222.5	221.5
614.4	615.4	616.3	611.5	606.5	602.7	599.7	598.7	598.7	597.7	42.5°	210.1	200.8
627.9	628.5	629.2	626.2	624.2	619.3	614.4	616.3	618.3	615.4	45°	187.4	176.6
640.9	641.9	642.8	638.0	638.0	636.0	632.0	633.0	634.0	632.0	47.5°	171.9	165.7
651.3	652.5	653.7	647.8	648.8	651.7	645.8	642.8	642.8	643.8	50°	164.7	162.6
659.2	660.3	661.5	655.7	657.6	658.5	654.7	650.7	648.8	652.7	52.5°	162.6	167.8
667.8	668.6	669.3	665.5	667.4	664.5	659.5	660.5	660.5	663.5	55°	161.5	167.3
678.8	679.9	681.2	675.3	675.3	671.3	665.5	672.3	675.3	673.3	57.5°	154.4	164.2
686.0	687.0	688.0	683.1	681.2	676.2	673.3	678.2	680.2	679.2	60°	149.2	161.1
686.0	687.0	688.0	683.1	681.2	679.2	676.2	677.2	677.2	680.2	62.5°	146.2	159.4
684.1	685.0	686.0	681.2	683.1	682.2	677.2	677.2	678.2	682.2	65°	143.5	160.5
687.5	688.2	689.0	685.0	688.0	686.0	681.2	682.2	684.1	686.0	67.5°	139.3	163.7
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	69°	137.4	163.1
										70°	135.3	161.5
										72.5°	128.1	149.2
										75°	119.3	131.6
										77.5°	107.9	113.1
										80°	95.5	98.6
										82.5°	83.1	95.0
										85°	65.0	80.6
										87.5°	48.0	44.4
										90°	34.2	25.1
										92.5°	4.9	4.0
										95°	5.9	4.9
										97.5°	7.8	6.8
										100°	8.8	7.8
										102.5°	12.8	10.8
										105°	26.5	21.6
										107.5°	48.1	41.2

REPORT NUMBER: P271717

CATALOG NUMBER: IST-AF-600-LED-E1-1

0-LED-E1-T2-7027-ULG

**tinued):**

180°
494.6
449.7
376.4
327.3
319.1
325.3
337.7
346.9
345.8
326.4
292.2
256.6
226.1
216.3
203.9
217.4
223.6
202.8
176.6
164.7
161.5
169.3
166.7
164.7
161.5
159.0
158.6
159.4
157.5
154.9
139.3
125.4
113.1
99.6
84.1
63.0
48.0
22.0
4.0
4.9
6.8
7.8
10.8
20.6
40.2

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
110°	72.7	66.7	64.8
112.5°	104.0	97.2	97.2
115°	144.3	136.5	137.4
117.5°	185.5	180.6	180.6
120°	221.8	218.8	220.8
122.5°	256.2	255.2	258.2
125°	290.5	288.5	292.5
127.5°	322.9	322.9	323.9
130°	355.3	354.3	356.3
132.5°	385.7	386.7	388.7
135°	418.1	418.1	421.0
137.5°	450.5	448.5	451.5
140°	478.0	476.0	479.0
142.5°	507.5	505.5	508.4
145°	534.0	535.9	539.8
147.5°	560.5	561.4	564.3
150°	582.0	581.0	584.0
152.5°	596.7	596.7	599.7
155°	613.5	613.5	617.3
157.5°	631.1	631.1	634.0
160°	646.8	647.8	650.7
162.5°	656.6	656.6	660.5
165°	663.5	665.5	668.4
167.5°	671.3	674.3	677.2
170°	679.2	682.2	685.0
172.5°	682.2	684.1	686.0
175°	684.1	685.0	687.0
177.5°	687.0	692.0	693.9
180°	687.0	687.0	687.0

(END OF F

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

