

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: P226319

Luminaire Tested: **IST-AF-350-LED-E1-T2-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226319
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-350-LED-E1-T2-7030-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3948.4 lumens
Efficiency: N/A
Efficacy: 107.3 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

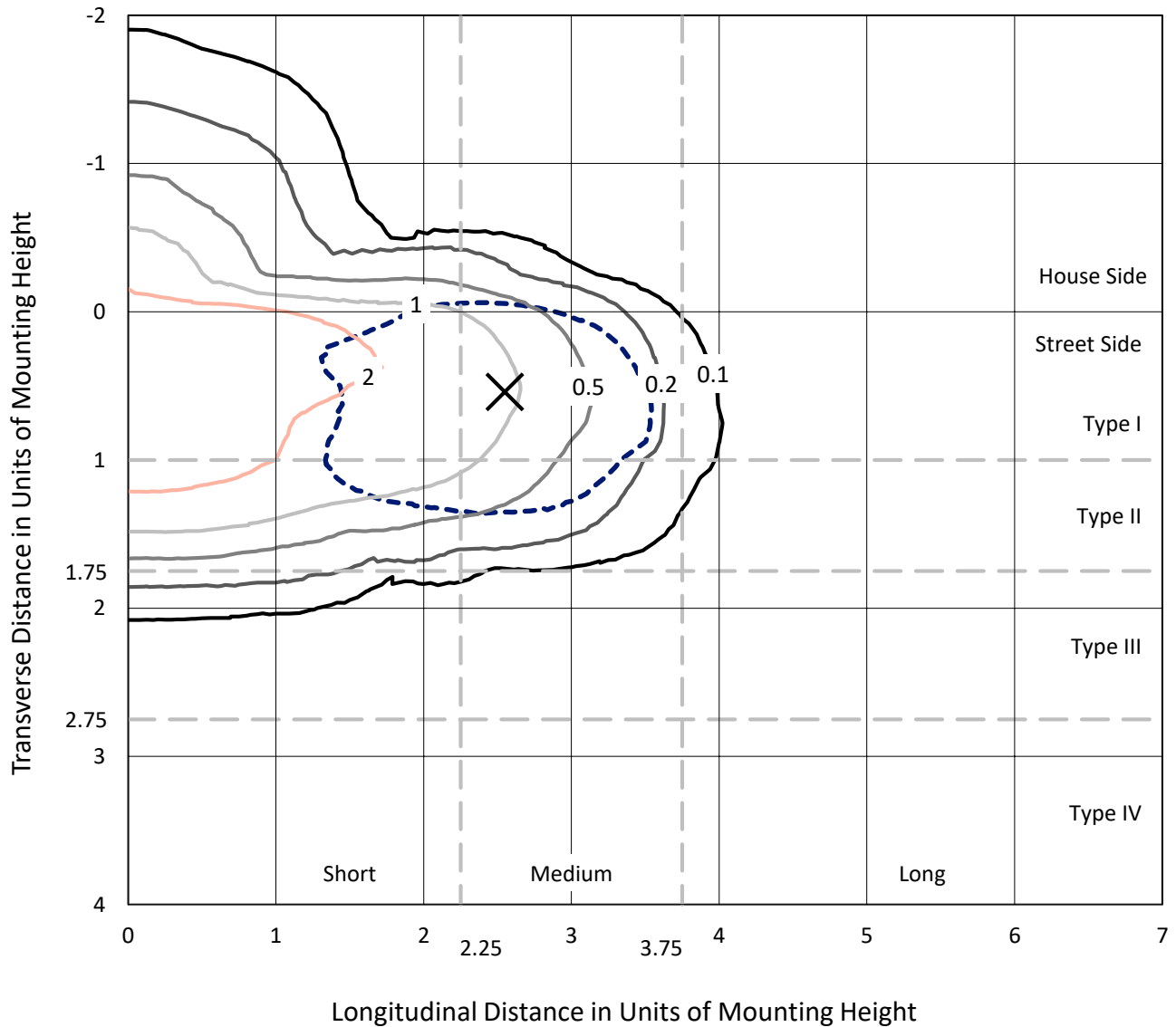
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: IST-AF-350-LED-E1-T2-7030-ULG

Iso-Footcandle Lines of Horizontal Illumination

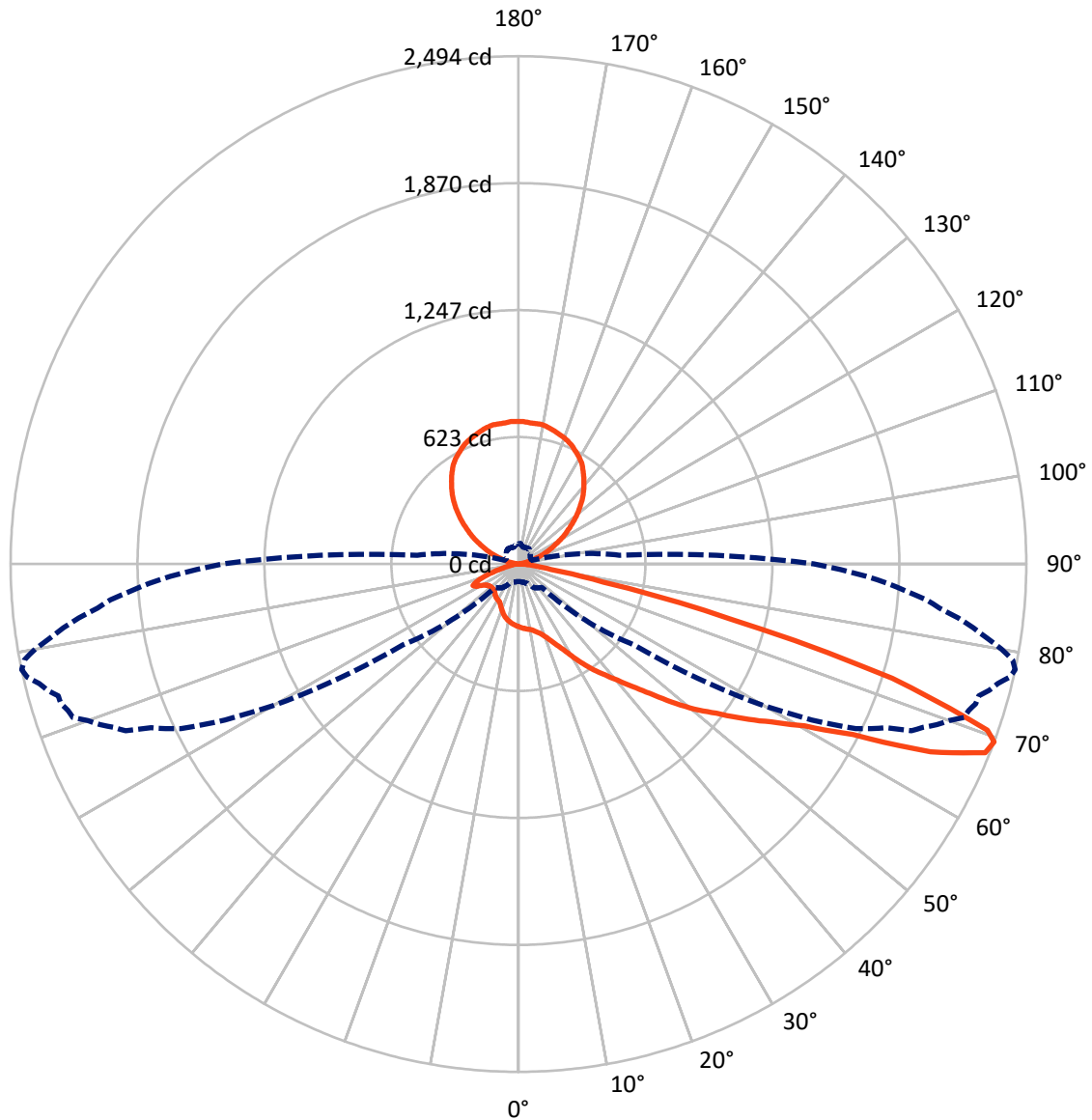
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - Non-Cutoff

REPORT NUMBER: P226319
CATALOG NUMBER: IST-AF-350-LED-E1-T2-7030-ULG

Luminous Intensity Polar Plot



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

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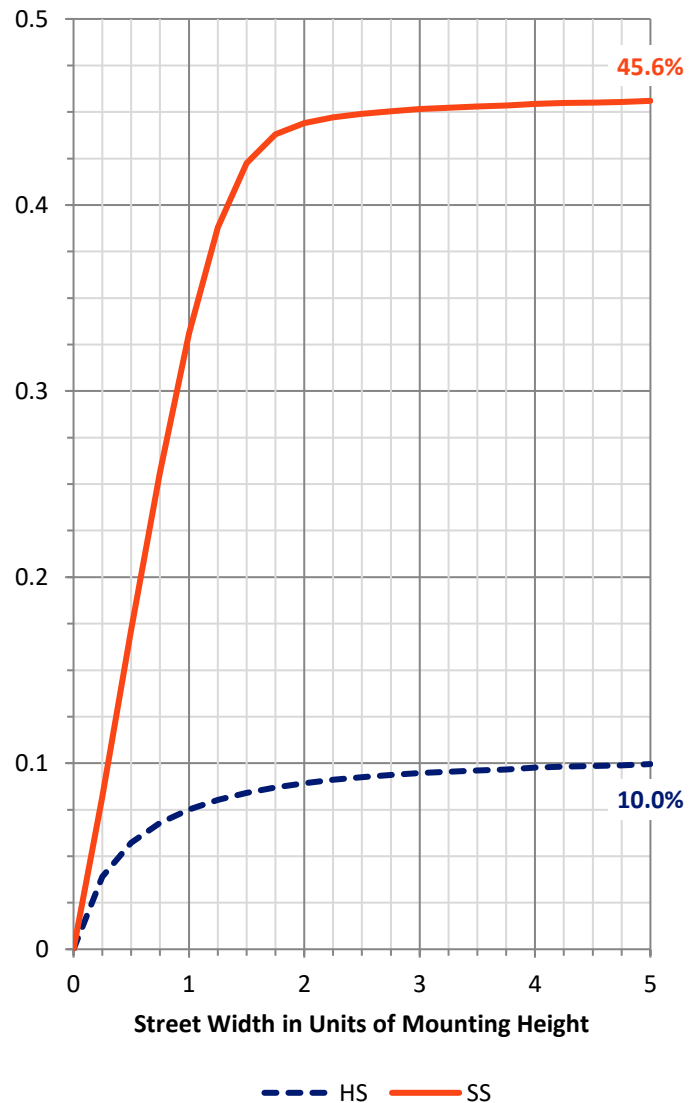
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	405.0	868.3	1273.3
	% Fixture	10.3	22.0	32.2
Street Side	Lumens	1807.1	867.9	2675.0
	% Fixture	45.8	22.0	67.8
Total	Lumens	2212.1	1736.3	3948.4
	% Fixture	56.0	44.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	0.7
10°-20°	86.3	2.2
20°-30°	154.6	3.9
30°-40°	252.4	6.4
40°-50°	373.4	9.5
50°-60°	487.5	12.3
60°-70°	545.3	13.8
70°-80°	244.8	6.2
80°-90°	39.2	1.0
90°-100°	10.4	0.3
100°-110°	57.4	1.5
110°-120°	166.1	4.2
120°-130°	273.2	6.9
130°-140°	336.8	8.5
140°-150°	344.6	8.7
150°-160°	290.3	7.4
160°-170°	191.2	4.8
170°-180°	66.3	1.7
0°-90°	2212.1	56.0
0°-180°	3948.4	100.0



REPORT NUMBER: P226319

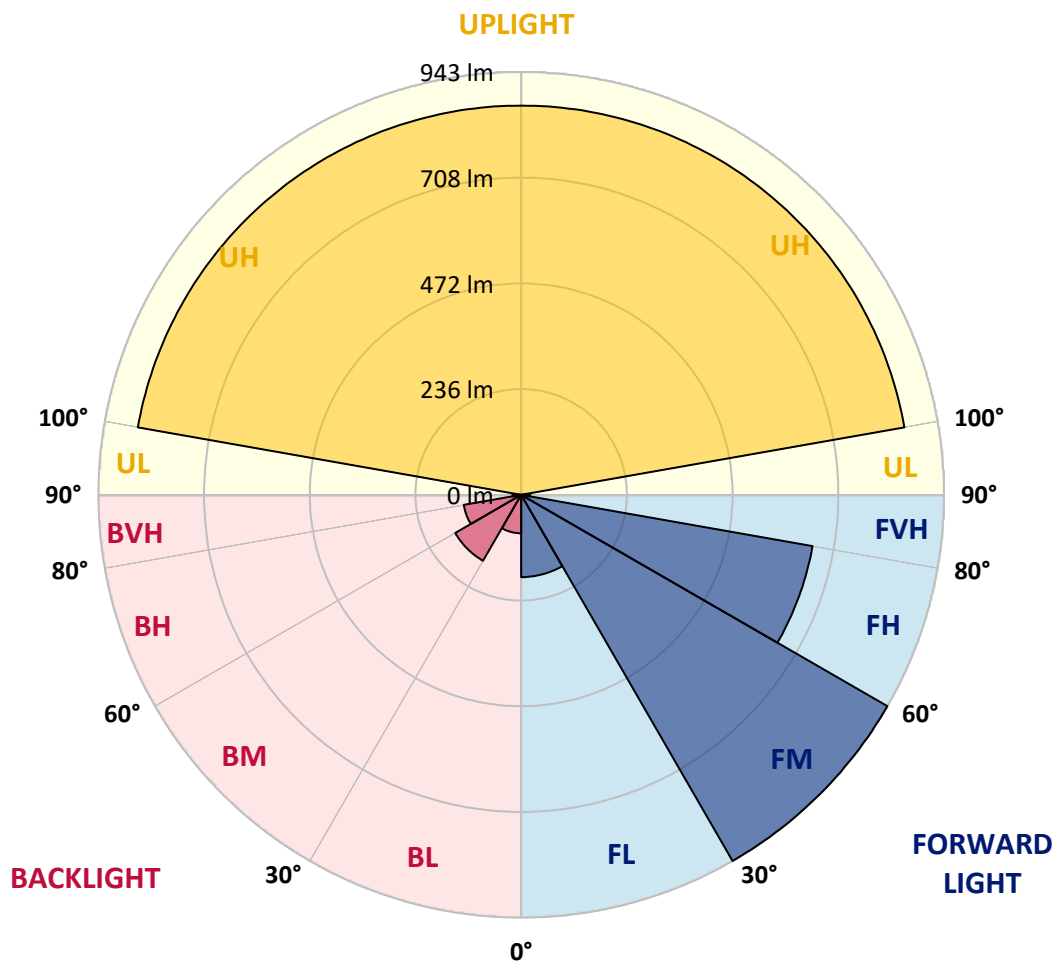
CATALOG NUMBER: IST-AF-350-LED-E1-T2-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	183.6	4.7			
FM	(30°-60°)	943.4	23.9			
FH	(60°-80°)	660.1	16.7			G1/1800
FVH	(80°-90°)	20.0	0.5			G1/100
BL	(0°-30°)	85.8	2.2	B0/110		
BM	(30°-60°)	169.9	4.3	B0/220		
BH	(60°-80°)	130.0	3.3	B1/500		G1/500
BVH	(80°-90°)	19.2	0.5			G1/100
UL	(90°-100°)	10.4	0.3		U2/50	
UH	(100°-180°)	868.3	22.0		U4/1000	

BUG Rating: B1-U5-G1

Type II Medium





REPORT NUMBER: P226319

CATALOG NUMBER: IST-AF-350-LED-E1-T2-7030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7
2.5°	329.5	329.5	328.5	327.9	326.9	324.4	320.5	319.9	319.5	318.9	318.3
5°	353.6	351.0	351.7	350.0	346.5	342.0	335.0	331.4	329.5	329.2	327.9
7.5°	373.2	373.5	372.5	369.3	364.5	359.0	349.4	343.9	342.3	341.4	339.1
10°	387.3	386.3	385.7	385.1	381.2	376.7	364.5	357.8	356.5	353.9	351.3
12.5°	397.6	397.6	397.6	396.9	394.7	391.2	381.5	374.8	373.2	369.6	367.4
15°	408.8	407.5	406.2	405.3	405.6	405.6	398.5	393.4	390.8	388.9	384.4
17.5°	432.9	430.0	427.1	423.3	417.2	415.6	415.2	414.9	411.4	411.1	406.6
20°	453.5	450.9	448.3	444.5	435.8	426.5	431.3	435.8	435.1	435.5	433.2
22.5°	478.8	476.9	471.8	467.3	456.0	444.8	445.4	455.1	456.3	457.6	458.3
25°	513.5	512.5	504.2	495.5	482.7	472.1	462.1	474.0	476.6	479.5	485.2
27.5°	548.5	546.3	537.3	529.6	513.5	502.3	488.5	494.9	498.7	504.2	513.2
30°	593.8	587.7	584.5	567.1	552.4	536.0	524.1	526.0	525.4	531.8	545.6
32.5°	659.3	649.7	633.6	616.3	598.9	577.1	567.1	566.8	565.2	572.6	580.3
35°	694.6	692.4	682.4	665.1	646.1	625.6	619.2	613.1	614.0	617.9	620.8
37.5°	732.8	730.9	723.2	713.6	699.1	710.4	674.7	665.7	661.6	659.6	660.6
40°	749.5	751.2	755.3	756.9	748.6	802.5	732.2	702.7	701.4	698.5	695.6
42.5°	753.1	757.3	765.6	783.9	791.9	909.5	779.7	744.1	738.9	736.7	737.0
45°	765.9	772.3	774.0	790.7	828.5	914.9	833.4	780.7	776.8	776.5	774.6
47.5°	797.1	805.7	805.7	813.1	849.1	925.5	851.7	817.3	814.7	813.5	818.6
50°	801.6	813.1	836.3	860.0	886.0	934.2	872.5	857.1	858.1	861.0	876.1
52.5°	725.5	737.0	798.0	868.0	952.8	958.0	904.0	910.1	916.5	930.7	958.3
55°	622.1	630.4	702.7	814.7	955.4	1048.2	983.0	1000.0	1013.5	1017.7	1061.1
57.5°	489.7	501.3	574.8	720.3	892.1	1073.9	1164.8	1172.5	1157.4	1171.2	1186.9
60°	265.3	264.0	366.4	520.9	759.2	1026.4	1340.1	1472.4	1475.7	1496.8	1471.5
62.5°	148.4	148.4	177.9	267.5	488.5	868.4	1424.3	1731.9	1772.1	1805.8	1880.0
65°	112.1	113.0	123.6	161.2	274.3	548.2	1362.6	1820.6	1897.6	1975.0	2105.1
67.5°	93.1	93.1	100.8	120.1	171.5	248.9	1003.3	1642.6	1739.0	1831.5	2011.3
69°	86.4	86.7	92.5	105.7	143.6	161.9	693.0	1392.8	1502.9	1631.1	1843.0
70°	83.2	82.2	87.7	98.6	130.1	127.8	507.7	1211.0	1296.5	1411.4	1655.2
72.5°	73.9	72.9	75.8	84.1	102.4	91.2	207.1	651.6	780.4	909.2	1103.4
75°	65.8	64.9	67.1	71.0	79.6	69.7	104.1	273.0	330.5	427.1	589.3
77.5°	58.1	56.2	58.1	60.7	62.6	52.0	70.7	126.2	154.8	190.1	268.5
80°	52.7	50.7	53.0	51.7	49.1	40.1	46.9	73.5	81.6	97.6	127.8
82.5°	37.6	37.3	50.4	52.0	39.2	29.2	33.4	47.2	52.7	55.6	67.4
85°	23.1	22.2	29.2	37.3	39.8	18.3	21.5	27.9	29.2	31.8	37.6
87.5°	11.9	12.2	15.7	19.3	26.0	10.9	12.8	16.4	16.4	16.4	18.6
90°	7.9	8.5	11.8	14.7	13.5	9.9	11.8	11.9	12.7	12.3	13.3
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.5	7.6	7.7	7.9
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.0	10.8	10.6	10.2
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	27.5	27.2	26.9	26.3
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	48.5	48.2	47.9	47.3
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.0	70.8	70.6	70.2
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.5	94.4	94.3	94.1

REPORT NUMBER: P226319

CATALOG NUMBER: IST-AF-350-LED-E1-T2-7030-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.5	120.6	120.7	120.9
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	149.0	149.2	149.4	149.8
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	180.5	180.8	181.1	181.7
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	213.0	213.4	213.8	214.6
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	248.0	248.4	248.8	249.6
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	281.0	281.4	281.8	282.6
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	314.0	314.2	314.4	314.8
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.5	345.6	345.7	345.9
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	379.0	379.4	379.8	380.6
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	413.5	414.0	414.5	415.5
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	445.5	446.0	446.5	447.5
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	474.0	474.2	474.4	474.8
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	501.0	501.2	501.4	501.8
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	530.0	530.6	531.2	532.4
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	559.0	559.6	560.2	561.4
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	582.5	583.0	583.5	584.5
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	598.5	598.8	599.1	599.7
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	612.5	612.8	613.1	613.7
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	628.5	629.0	629.5	630.5
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	646.0	646.4	646.8	647.6
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	661.0	661.6	662.2	663.4
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	669.0	669.4	669.8	670.6
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	674.5	675.0	675.5	676.5
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	681.0	681.6	682.2	683.4
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	687.5	687.8	688.1	688.7
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	690.5	690.8	691.1	691.7
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	692.5	693.0	693.5	694.5
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	696.5	697.0	697.5	698.5
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P226319

CATALOG NUMBER: IST-AF-350-LED-E1-T2-7030-ULG

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7
2.5°	318.6	317.6	316.3	316.6	316.0	315.0	315.4	315.0	315.4	314.7	314.1
5°	327.9	327.2	325.3	325.0	324.4	323.7	322.7	321.8	321.5	320.8	319.5
7.5°	338.5	336.6	335.6	334.3	332.7	330.1	329.8	328.5	327.6	326.9	325.3
10°	349.4	347.2	345.9	344.3	342.7	341.1	339.4	337.2	335.0	334.3	332.4
12.5°	365.8	362.9	360.3	357.8	356.1	353.3	351.0	348.1	345.9	344.9	341.7
15°	383.8	379.9	377.3	375.4	372.8	370.3	367.4	364.8	361.3	358.4	355.5
17.5°	405.0	401.4	399.5	396.0	392.8	389.9	387.6	384.4	381.5	376.4	373.8
20°	432.9	430.0	427.8	423.9	420.4	417.5	415.6	408.8	405.0	400.5	396.3
22.5°	458.9	459.2	457.0	454.4	452.2	448.3	445.1	440.3	435.5	430.0	424.2
25°	487.2	489.7	490.1	489.4	488.1	483.6	482.0	477.2	473.4	464.4	461.8
27.5°	518.6	521.5	525.1	529.6	530.5	525.7	528.0	523.1	516.4	512.5	504.2
30°	549.2	557.2	564.6	569.7	572.9	575.2	573.6	572.0	567.5	561.0	553.7
32.5°	588.3	596.7	604.1	615.3	621.1	628.2	626.9	627.5	625.9	619.5	610.8
35°	627.8	635.2	644.9	652.2	666.4	674.1	680.5	680.2	680.2	676.3	668.0
37.5°	662.8	667.0	675.0	687.2	696.6	708.8	719.0	723.2	730.0	730.3	721.3
40°	699.4	703.6	709.7	718.7	729.0	743.4	757.3	770.7	777.2	783.9	780.4
42.5°	738.9	743.4	747.9	753.7	768.5	779.7	798.4	816.7	829.8	843.6	842.0
45°	778.1	783.3	789.7	798.4	811.5	829.8	847.8	868.4	898.6	914.9	926.2
47.5°	822.4	830.8	842.7	856.5	867.1	886.0	908.8	940.6	971.1	999.4	1017.1
50°	889.2	892.5	911.7	925.2	945.4	964.7	987.5	1015.5	1055.0	1083.9	1112.1
52.5°	967.9	980.1	999.4	1014.8	1030.9	1050.1	1073.6	1098.6	1137.8	1170.2	1206.9
55°	1069.4	1086.7	1103.4	1111.8	1134.3	1151.6	1170.6	1195.3	1237.4	1272.7	1315.7
57.5°	1190.5	1207.8	1215.8	1228.1	1237.7	1257.0	1282.6	1299.3	1336.6	1373.2	1418.8
60°	1439.0	1428.1	1437.8	1418.8	1415.9	1417.5	1423.0	1435.8	1456.7	1490.7	1538.9
62.5°	1887.7	1871.9	1830.2	1815.1	1785.9	1746.4	1709.1	1704.0	1693.1	1718.8	1748.9
65°	2149.7	2206.9	2213.0	2229.1	2217.5	2186.7	2143.0	2128.9	2093.5	2068.8	2067.2
67.5°	2086.8	2172.5	2226.2	2293.9	2331.5	2368.1	2377.7	2390.3	2367.5	2356.2	2359.4
69°	1911.8	1975.3	2095.5	2141.7	2201.1	2249.9	2314.2	2325.4	2347.6	2350.8	2393.5
70°	1738.3	1831.8	1900.5	1969.9	2052.1	2105.7	2134.6	2182.2	2237.1	2264.1	2310.3
72.5°	1249.9	1280.4	1329.2	1419.1	1441.9	1497.5	1554.3	1594.8	1659.3	1704.9	1813.8
75°	674.4	692.7	769.5	820.5	834.0	852.3	894.1	904.0	928.1	942.9	1047.6
77.5°	308.0	335.9	345.9	373.8	358.1	365.8	375.7	373.5	380.2	412.3	449.0
80°	141.9	147.4	151.3	162.8	163.5	160.9	161.9	160.3	159.0	164.1	168.0
82.5°	69.0	77.4	77.4	84.5	88.0	87.0	89.0	88.3	89.6	88.3	92.5
85°	40.5	40.5	43.7	47.5	46.9	48.2	48.2	50.7	51.1	51.7	51.7
87.5°	18.9	20.9	21.8	23.4	24.1	25.0	25.7	25.7	26.0	25.4	26.0
90°	13.8	13.8	17.0	17.0	17.7	18.6	17.3	18.0	20.2	17.3	19.6
92.5°	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0
95°	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1	7.0
97.5°	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0
100°	26.0	25.7	25.4	25.1	24.8	24.5	24.2	23.9	23.6	23.3	23.0
102.5°	47.0	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0	42.5	42.0
105°	70.0	69.5	69.0	68.5	68.0	67.5	67.0	66.5	66.0	65.5	65.0
107.5°	94.0	93.6	93.2	92.8	92.4	92.0	91.6	91.2	90.8	90.4	90.0



REPORT NUMBER: P226319

CATALOG NUMBER: IST-AF-350-LED-E1-T2-7030-ULG

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	121.0	120.8	120.6	120.4	120.2	120.0	119.8	119.6	119.4	119.2	119.0
112.5°	150.0	149.9	149.8	149.7	149.6	149.5	149.4	149.3	149.2	149.1	149.0
115°	182.0	181.7	181.4	181.1	180.8	180.5	180.2	179.9	179.6	179.3	179.0
117.5°	215.0	214.5	214.0	213.5	213.0	212.5	212.0	211.5	211.0	210.5	210.0
120°	250.0	249.5	249.0	248.5	248.0	247.5	247.0	246.5	246.0	245.5	245.0
122.5°	283.0	282.5	282.0	281.5	281.0	280.5	280.0	279.5	279.0	278.5	278.0
125°	315.0	314.5	314.0	313.5	313.0	312.5	312.0	311.5	311.0	310.5	310.0
127.5°	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
130°	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	416.0	415.8	415.6	415.4	415.2	415.0	414.8	414.6	414.4	414.2	414.0
135°	448.0	447.9	447.8	447.7	447.6	447.5	447.4	447.3	447.2	447.1	447.0
137.5°	475.0	475.1	475.2	475.3	475.4	475.5	475.6	475.7	475.8	475.9	476.0
140°	502.0	502.2	502.4	502.6	502.8	503.0	503.2	503.4	503.6	503.8	504.0
142.5°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
145°	562.0	561.9	561.8	561.7	561.6	561.5	561.4	561.3	561.2	561.1	561.0
147.5°	585.0	585.1	585.2	585.3	585.4	585.5	585.6	585.7	585.8	585.9	586.0
150°	600.0	600.3	600.6	600.9	601.2	601.5	601.8	602.1	602.4	602.7	603.0
152.5°	614.0	614.4	614.8	615.2	615.6	616.0	616.4	616.8	617.2	617.6	618.0
155°	631.0	631.5	632.0	632.5	633.0	633.5	634.0	634.5	635.0	635.5	636.0
157.5°	648.0	648.2	648.4	648.6	648.8	649.0	649.2	649.4	649.6	649.8	650.0
160°	664.0	663.7	663.4	663.1	662.8	662.5	662.2	661.9	661.6	661.3	661.0
162.5°	671.0	670.9	670.8	670.7	670.6	670.5	670.4	670.3	670.2	670.1	670.0
165°	677.0	677.3	677.6	677.9	678.2	678.5	678.8	679.1	679.4	679.7	680.0
167.5°	684.0	684.4	684.8	685.2	685.6	686.0	686.4	686.8	687.2	687.6	688.0
170°	689.0	689.5	690.0	690.5	691.0	691.5	692.0	692.5	693.0	693.5	694.0
172.5°	692.0	692.2	692.4	692.6	692.8	693.0	693.2	693.4	693.6	693.8	694.0
175°	695.0	695.1	695.2	695.3	695.4	695.5	695.6	695.7	695.8	695.9	696.0
177.5°	699.0	699.2	699.4	699.6	699.8	700.0	700.2	700.4	700.6	700.8	701.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P226319

CATALOG NUMBER: IST-AF-350-LED-E1-T2-7030-ULG

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7
2.5°	313.4	314.1	313.8	312.5	312.2	312.2	311.5	311.2	310.5	310.2	310.9
5°	319.2	319.2	318.3	317.0	315.7	315.4	315.0	313.4	312.8	312.2	311.5
7.5°	324.7	324.0	322.7	320.5	319.2	318.9	317.6	316.0	314.4	313.1	312.5
10°	330.5	329.8	327.2	325.6	323.1	322.7	320.5	318.6	317.0	315.4	314.1
12.5°	338.8	338.2	335.3	331.4	329.5	328.2	325.3	323.1	320.8	318.9	316.6
15°	351.7	349.1	347.2	343.3	340.4	337.8	334.3	331.1	327.9	324.7	322.7
17.5°	369.6	366.1	361.0	358.7	354.9	350.7	345.9	343.6	339.4	335.6	331.7
20°	393.1	389.5	381.5	378.6	373.2	367.1	363.2	358.4	354.9	348.8	344.6
22.5°	419.1	415.9	408.2	400.5	395.3	390.5	384.4	378.3	371.6	365.8	361.3
25°	452.8	448.0	441.3	433.5	425.8	419.1	410.7	402.1	396.3	388.3	381.8
27.5°	498.7	490.4	479.1	470.8	464.7	454.4	444.1	436.4	427.4	416.8	409.8
30°	548.5	539.2	530.8	521.2	510.9	501.0	486.9	475.6	466.0	454.7	443.2
32.5°	603.7	595.7	583.8	571.3	560.1	547.5	537.3	525.4	508.7	496.8	484.6
35°	659.3	650.0	637.8	627.2	614.3	601.5	589.9	574.2	559.1	542.1	525.1
37.5°	712.9	704.9	691.4	675.4	664.1	650.3	638.4	621.7	603.7	584.8	572.0
40°	772.7	759.8	750.5	731.9	720.3	704.9	687.9	675.0	657.7	637.1	618.8
42.5°	841.1	832.1	822.1	807.0	794.8	776.5	755.0	738.6	722.6	698.2	672.8
45°	927.8	922.0	905.6	893.4	877.0	857.8	839.1	819.2	793.9	765.6	742.5
47.5°	1031.8	1027.3	1012.6	995.2	973.7	947.7	930.4	903.1	881.5	846.2	818.6
50°	1126.2	1128.5	1120.5	1093.8	1074.5	1048.5	1021.2	997.5	964.4	927.8	892.5
52.5°	1239.0	1236.7	1216.5	1201.7	1178.9	1147.4	1117.6	1087.1	1050.8	1012.9	968.9
55°	1346.9	1353.6	1339.5	1318.6	1291.0	1247.0	1216.8	1177.3	1139.1	1097.3	1046.6
57.5°	1451.6	1473.1	1462.2	1437.4	1409.2	1377.4	1337.6	1293.2	1253.7	1199.1	1142.0
60°	1581.9	1610.5	1615.0	1599.0	1568.1	1531.2	1478.9	1444.2	1389.9	1339.5	1295.5
62.5°	1782.7	1847.5	1843.7	1851.4	1829.6	1806.7	1745.4	1708.2	1637.5	1601.2	1539.9
65°	2117.9	2165.8	2223.3	2221.3	2206.3	2151.7	2088.1	2025.8	1979.2	1907.6	1843.7
67.5°	2399.3	2438.8	2472.8	2455.1	2420.5	2359.1	2284.6	2197.9	2126.9	2047.9	1964.1
69°	2425.6	2473.8	2493.7	2471.8	2409.5	2329.6	2256.7	2176.1	2078.4	2010.7	1908.6
70°	2354.9	2402.5	2442.6	2386.4	2329.2	2251.2	2171.6	2087.7	2000.4	1927.5	1824.4
72.5°	1870.7	1924.3	1918.8	1912.7	1867.1	1789.1	1715.9	1670.9	1609.6	1521.6	1447.1
75°	1087.7	1112.4	1069.1	1114.7	1060.1	981.4	991.7	940.9	896.0	845.2	806.1
77.5°	427.1	449.0	426.2	418.8	394.4	388.9	348.1	352.9	332.7	292.9	274.6
80°	161.9	164.7	160.9	152.9	151.3	141.9	139.4	130.4	126.2	113.0	108.2
82.5°	87.0	88.6	86.1	83.5	81.6	76.1	72.6	65.8	62.0	57.8	57.5
85°	50.1	48.8	47.5	46.2	43.4	40.1	37.6	35.0	32.1	29.9	27.6
87.5°	26.3	26.7	27.0	25.7	23.8	21.2	19.6	18.6	16.4	15.4	14.5
90°	17.5	15.0	15.8	17.5	16.7	14.9	14.3	13.2	12.0	11.8	10.9
92.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.0	8.0
100°	22.6	22.2	21.8	21.4	21.0	20.6	20.2	19.8	19.4	19.0	19.0
102.5°	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.6	39.3	39.0	38.8
105°	64.6	64.2	63.8	63.4	63.0	62.6	62.2	61.8	61.4	61.0	61.0
107.5°	89.7	89.4	89.1	88.8	88.5	88.2	87.9	87.6	87.3	87.0	86.8



REPORT NUMBER: P226319
 CATALOG NUMBER: IST-AF-350-LED-E1-T2-7030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	118.7	118.4	118.1	117.8	117.5	117.2	116.9	116.6	116.3	116.0	116.2	0°
112.5°	148.8	148.6	148.4	148.2	148.0	147.8	147.6	147.4	147.2	147.0	147.0	2.5°
115°	178.8	178.6	178.4	178.2	178.0	177.8	177.6	177.4	177.2	177.0	177.2	5°
117.5°	209.8	209.6	209.4	209.2	209.0	208.8	208.6	208.4	208.2	208.0	208.2	7.5°
120°	244.8	244.6	244.4	244.2	244.0	243.8	243.6	243.4	243.2	243.0	243.0	10°
122.5°	277.8	277.6	277.4	277.2	277.0	276.8	276.6	276.4	276.2	276.0	276.2	12.5°
125°	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°
127.5°	345.9	345.8	345.7	345.6	345.5	345.4	345.3	345.2	345.1	345.0	345.4	17.5°
130°	380.8	380.6	380.4	380.2	380.0	379.8	379.6	379.4	379.2	379.0	379.2	20°
132.5°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.2	22.5°
135°	447.3	447.6	447.9	448.2	448.5	448.8	449.1	449.4	449.7	450.0	450.2	25°
137.5°	476.5	477.0	477.5	478.0	478.5	479.0	479.5	480.0	480.5	481.0	481.2	27.5°
140°	504.5	505.0	505.5	506.0	506.5	507.0	507.5	508.0	508.5	509.0	509.4	30°
142.5°	533.1	533.2	533.3	533.4	533.5	533.6	533.7	533.8	533.9	534.0	534.4	32.5°
145°	560.7	560.4	560.1	559.8	559.5	559.2	558.9	558.6	558.3	558.0	558.4	35°
147.5°	585.7	585.4	585.1	584.8	584.5	584.2	583.9	583.6	583.3	583.0	583.4	37.5°
150°	603.3	603.6	603.9	604.2	604.5	604.8	605.1	605.4	605.7	606.0	606.8	40°
152.5°	618.5	619.0	619.5	620.0	620.5	621.0	621.5	622.0	622.5	623.0	624.0	42.5°
155°	636.2	636.4	636.6	636.8	637.0	637.2	637.4	637.6	637.8	638.0	638.6	45°
157.5°	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	651.0	47.5°
160°	660.9	660.8	660.7	660.6	660.5	660.4	660.3	660.2	660.1	660.0	661.2	50°
162.5°	669.8	669.6	669.4	669.2	669.0	668.8	668.6	668.4	668.2	668.0	669.2	52.5°
165°	679.8	679.6	679.4	679.2	679.0	678.8	678.6	678.4	678.2	678.0	678.8	55°
167.5°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	689.2	57.5°
170°	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	697.0	60°
172.5°	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	697.0	62.5°
175°	695.8	695.6	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	695.0	65°
177.5°	700.7	700.4	700.1	699.8	699.5	699.2	698.9	698.6	698.3	698.0	698.8	67.5°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	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: P226319
 NUMBER: IST-AF-350-LED-E1-T2-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	110°	116.4
309.9	309.9	308.9	308.3	306.0	302.2	298.3	294.8	290.0	288.1	285.5	112.5°	147.0
310.9	310.2	309.3	308.0	303.5	294.5	285.2	275.2	264.9	255.6	244.7	115°	177.4
311.5	310.2	308.9	307.3	300.9	287.1	268.5	248.9	230.6	216.8	211.0	117.5°	208.4
311.8	310.9	309.3	307.0	298.0	277.5	247.6	219.3	203.3	197.8	196.9	120°	243.0
315.4	313.8	311.2	308.6	296.7	266.9	224.2	197.2	190.8	193.3	197.8	122.5°	276.4
319.9	317.9	314.7	312.2	296.1	253.1	201.4	184.7	186.9	194.0	201.4	125°	310.0
327.9	324.7	321.1	318.6	297.4	236.0	183.1	178.2	185.0	194.0	203.9	127.5°	345.8
339.8	335.3	331.1	326.6	299.3	214.8	172.1	174.1	182.1	191.7	202.6	130°	379.4
354.5	349.4	343.6	336.9	301.6	196.5	166.0	169.6	176.9	185.3	194.3	132.5°	414.4
374.5	367.4	360.0	351.7	304.8	176.6	160.6	164.4	168.9	173.7	178.2	135°	450.4
399.5	389.9	381.8	370.6	308.0	163.1	156.1	157.4	158.3	159.0	158.6	137.5°	481.4
432.9	418.1	408.8	395.0	311.5	156.1	150.9	149.3	147.7	145.5	142.9	140°	509.8
468.2	456.0	441.3	423.6	313.8	151.3	146.1	141.0	136.5	134.2	134.2	142.5°	534.8
509.3	494.2	475.6	453.5	310.9	146.1	139.7	133.0	130.4	133.3	132.3	145°	558.8
550.4	529.6	509.0	483.6	303.8	140.3	132.6	129.1	131.0	127.2	124.9	147.5°	583.8
595.7	572.6	544.0	514.5	293.5	134.2	129.1	131.0	124.3	119.8	121.7	150°	607.6
646.5	619.2	588.3	548.2	286.8	130.4	123.6	125.2	119.5	116.3	115.3	152.5°	625.0
715.5	676.6	639.1	591.9	291.9	124.3	113.0	119.5	116.3	113.4	110.8	155°	639.2
783.3	741.8	697.5	642.0	300.9	119.8	104.7	113.4	115.6	110.8	106.0	157.5°	652.0
851.3	807.4	755.6	693.7	311.8	116.9	98.3	106.0	114.0	108.2	104.4	160°	662.4
923.0	867.4	814.4	747.6	326.0	114.0	93.1	99.6	111.1	108.2	102.4	162.5°	670.4
998.1	932.6	879.6	807.4	350.7	109.8	86.7	94.4	108.2	107.9	100.5	165°	679.6
1085.5	1027.0	958.9	885.4	385.1	105.0	80.9	90.6	105.7	106.6	98.3	167.5°	690.4
1234.2	1173.8	1091.6	1021.6	453.1	98.6	77.4	86.7	101.5	104.1	96.3	170°	698.0
1475.3	1393.1	1317.6	1252.1	569.7	89.6	74.8	82.5	97.0	100.8	94.7	172.5°	698.0
1751.8	1671.5	1580.3	1470.2	634.6	81.2	71.3	77.4	92.5	97.6	93.1	175°	696.0
1869.4	1764.4	1653.6	1522.9	572.6	74.5	67.4	72.6	87.4	93.1	90.9	177.5°	699.6
1815.4	1709.1	1580.3	1452.2	498.1	71.0	65.2	70.0	83.5	90.2	88.6	180°	700.0
1721.6	1614.7	1499.7	1345.9	444.8	69.0	63.6	68.4	81.9	88.6	87.4		
1361.6	1266.3	1160.3	1043.1	303.2	62.6	58.4	63.6	75.5	82.9	82.5		
721.6	693.7	615.3	546.6	157.0	55.9	53.0	58.1	69.7	77.4	77.4		
259.8	235.7	225.4	187.2	83.5	48.8	47.5	51.4	63.3	70.7	70.3		
98.3	95.7	85.7	80.3	53.0	39.8	40.1	44.0	55.6	62.6	62.3		
55.6	50.4	48.8	47.2	33.7	31.5	33.1	36.9	47.5	53.6	54.6		
26.7	24.7	24.1	22.5	22.2	24.1	26.0	29.2	37.9	45.3	44.3		
12.8	12.2	11.9	11.6	15.7	15.4	18.9	20.2	25.4	36.0	32.4		
11.2	11.2	10.9	10.2	11.5	14.1	15.1	15.7	17.6	28.9	25.0		
6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0	7.0		
8.0	8.0	8.0	8.0	8.0	9.0	10.0	12.0	9.0	9.0	8.0		
19.0	19.0	19.0	19.0	19.0	23.0	26.0	29.0	21.0	12.0	10.0		
38.6	38.4	38.2	38.0	39.0	42.0	47.0	50.0	40.0	27.0	18.0		
61.0	61.0	61.0	61.0	61.0	65.0	70.0	72.0	63.0	48.0	36.0		
86.6	86.4	86.2	86.0	87.0	90.0	94.0	95.0	88.0	73.0	58.0		

'226319
 IST-AF-350-LED-E1-T2-7030-ULG

REPORT NUMBER: P226319
 CATALOG NUMBER: IST-AF-350

TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
116.6	116.8	117.0	116.0	119.0	121.0	120.0	114.0	102.0	87.0	0°	307.7	307.7
147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	2.5°	283.2	278.8
177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	5°	236.7	236.0
208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	7.5°	207.5	203.3
243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	10°	197.8	197.5
276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	12.5°	202.0	203.0
310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	15°	207.5	209.4
346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	17.5°	211.0	214.5
379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	20°	210.0	214.2
414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	22.5°	199.4	201.4
450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	25°	180.5	181.1
481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	27.5°	157.7	157.0
510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	30°	141.6	137.4
535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	32.5°	134.2	131.7
559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	35°	129.1	124.9
584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	37.5°	133.9	133.6
608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	40°	138.4	137.8
626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	42.5°	130.7	124.9
639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	45°	116.6	109.8
653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	47.5°	106.9	103.1
663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	50°	102.4	101.2
671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	52.5°	101.2	104.4
680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	55°	100.5	104.1
691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	57.5°	96.0	102.1
699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	60°	92.8	100.2
699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	62.5°	90.9	99.2
697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	65°	89.3	99.9
700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	67.5°	86.7	101.8
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°	85.4	101.5
										70°	84.1	100.5
										72.5°	79.6	92.8
										75°	74.2	81.9
										77.5°	67.1	70.3
										80°	59.4	61.3
										82.5°	51.7	59.1
										85°	40.5	50.1
										87.5°	29.9	27.6
										90°	24.0	17.5
										92.5°	5.0	4.0
										95°	6.0	5.0
										97.5°	8.0	7.0
										100°	9.0	8.0
										102.5°	13.0	11.0
										105°	27.0	22.0
										107.5°	49.0	42.0



REPORT NUMBER: P226319

CATALOG NUMBER: IST-AF-350-LED-E1-1

0-LED-E1-T2-7030-ULG

tinued):

180°
307.7
279.7
234.1
203.6
198.5
202.3
210.0
215.8
215.2
203.0
181.8
159.6
140.7
134.6
126.9
135.2
139.1
126.2
109.8
102.4
100.5
105.3
103.7
102.4
100.5
98.9
98.6
99.2
97.9
96.3
86.7
78.0
70.3
62.0
52.3
39.2
29.9
15.6
4.0
5.0
7.0
8.0
11.0
21.0
41.0

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
110°	74.0	68.0	66.0
112.5°	106.0	99.0	99.0
115°	147.0	139.0	140.0
117.5°	189.0	184.0	184.0
120°	226.0	223.0	225.0
122.5°	261.0	260.0	263.0
125°	296.0	294.0	298.0
127.5°	329.0	329.0	330.0
130°	362.0	361.0	363.0
132.5°	393.0	394.0	396.0
135°	426.0	426.0	429.0
137.5°	459.0	457.0	460.0
140°	487.0	485.0	488.0
142.5°	517.0	515.0	518.0
145°	544.0	546.0	550.0
147.5°	571.0	572.0	575.0
150°	593.0	592.0	595.0
152.5°	608.0	608.0	611.0
155°	625.0	625.0	629.0
157.5°	643.0	643.0	646.0
160°	659.0	660.0	663.0
162.5°	669.0	669.0	673.0
165°	676.0	678.0	681.0
167.5°	684.0	687.0	690.0
170°	692.0	695.0	698.0
172.5°	695.0	697.0	699.0
175°	697.0	698.0	700.0
177.5°	700.0	705.0	707.0
180°	700.0	700.0	700.0

(END OF F

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

Scaled Data Report

