

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: P226964

Luminaire Tested: **IST-AF-350-LED-E1-SL3-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226964  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-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-SL3-7030-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, 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: 3830.6 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - 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

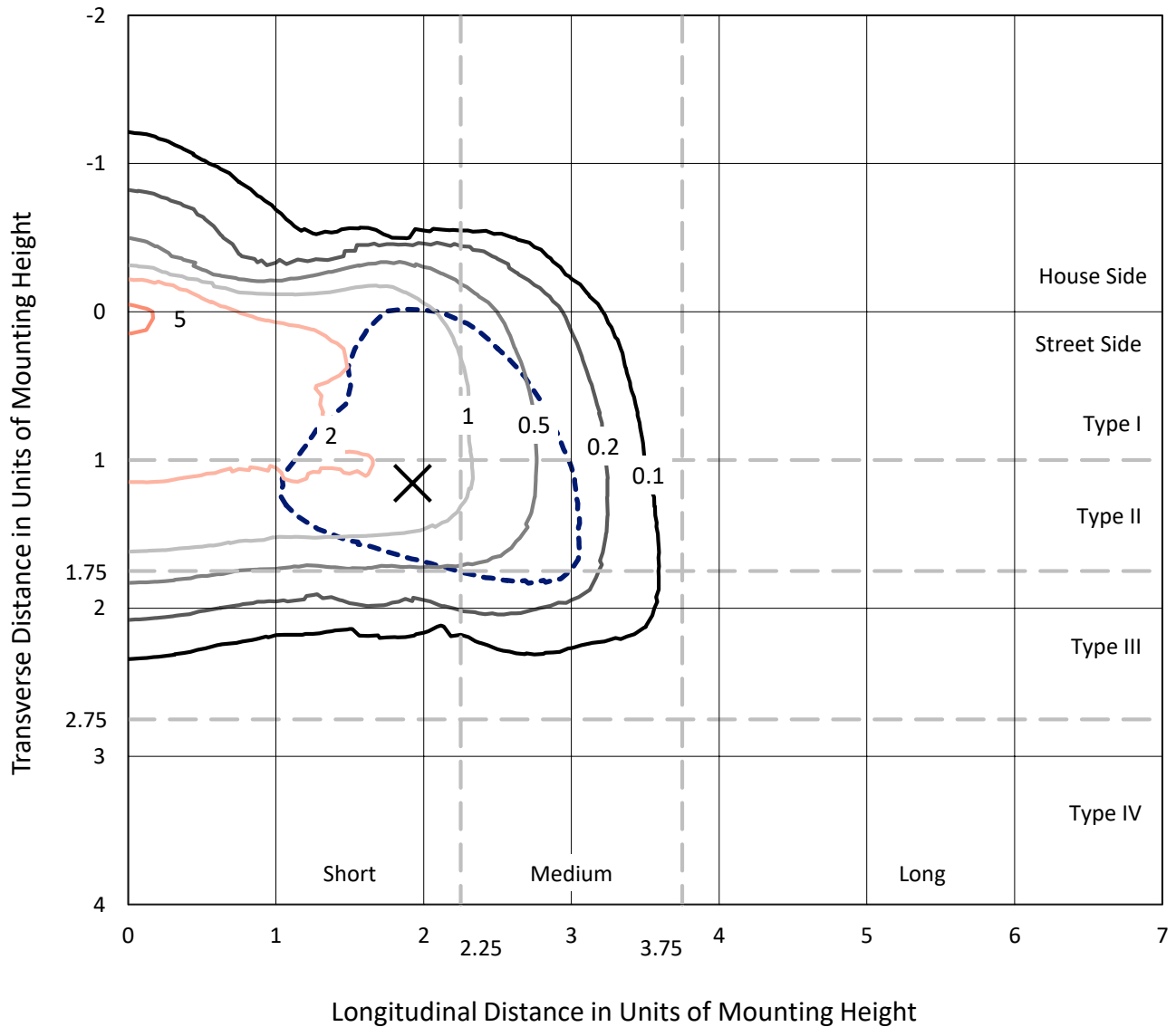


REPORT NUMBER: P226964

CATALOG NUMBER: IST-AF-350-LED-E1-SL3-7030-ULG

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

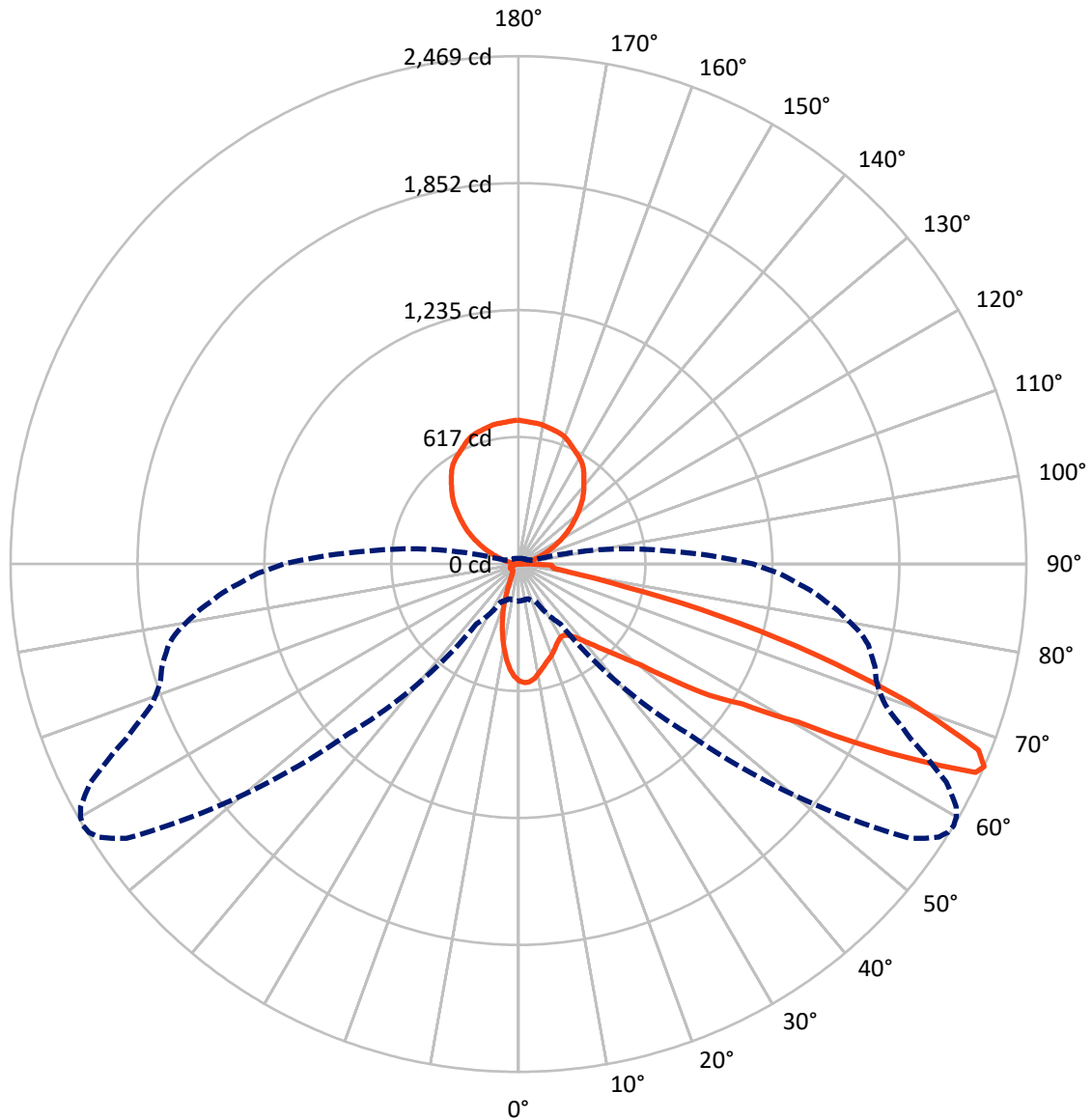


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P226964

CATALOG NUMBER: IST-AF-350-LED-E1-SL3-7030-ULG

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P226964

CATALOG NUMBER: IST-AF-350-LED-E1-SL3-7030-ULG

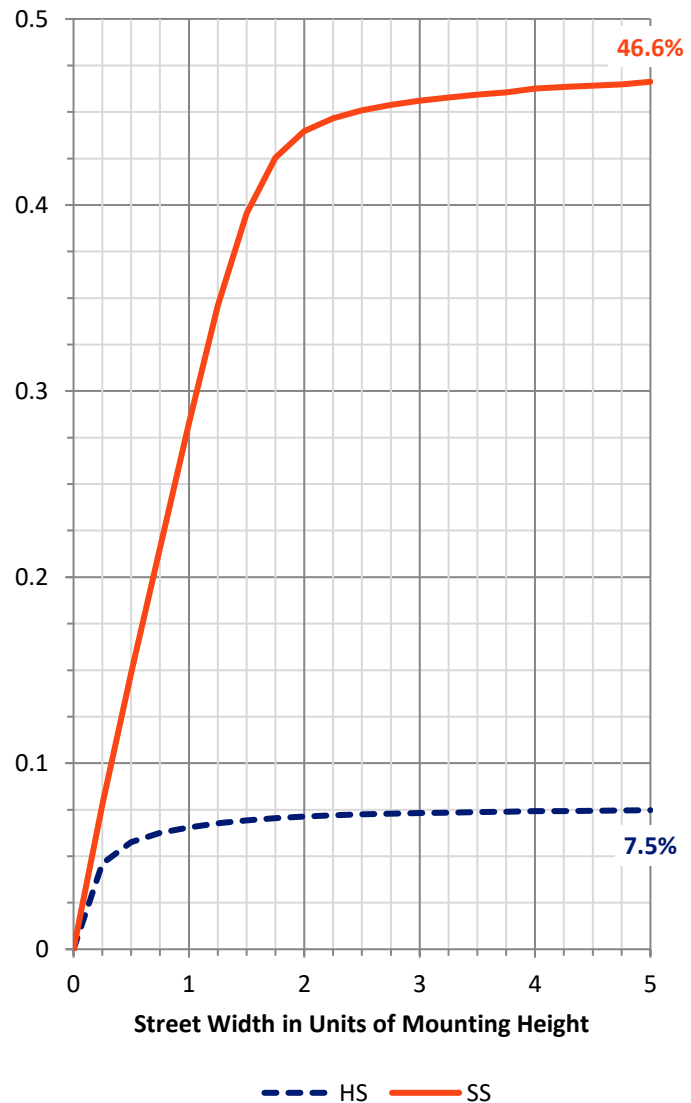
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	291.1	867.7	1158.8
	% Fixture	7.6	22.7	30.3
<b>Street Side</b>	Lumens	1803.5	868.3	2671.8
	% Fixture	47.1	22.7	69.7
<b>Total</b>	Lumens	2094.6	1736.0	3830.6
	% Fixture	54.7	45.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.5	1.3
10°-20°	102.5	2.7
20°-30°	128.5	3.4
30°-40°	175.8	4.6
40°-50°	282.9	7.4
50°-60°	491.5	12.8
60°-70°	597.2	15.6
70°-80°	222.8	5.8
80°-90°	44.8	1.2
90°-100°	10.2	0.3
100°-110°	57.4	1.5
110°-120°	166.1	4.3
120°-130°	273.2	7.1
130°-140°	336.8	8.8
140°-150°	344.6	9.0
150°-160°	290.3	7.6
160°-170°	191.2	5.0
170°-180°	66.3	1.7
0°-90°	2094.6	54.7
0°-180°	3830.6	100.0



REPORT NUMBER: P226964

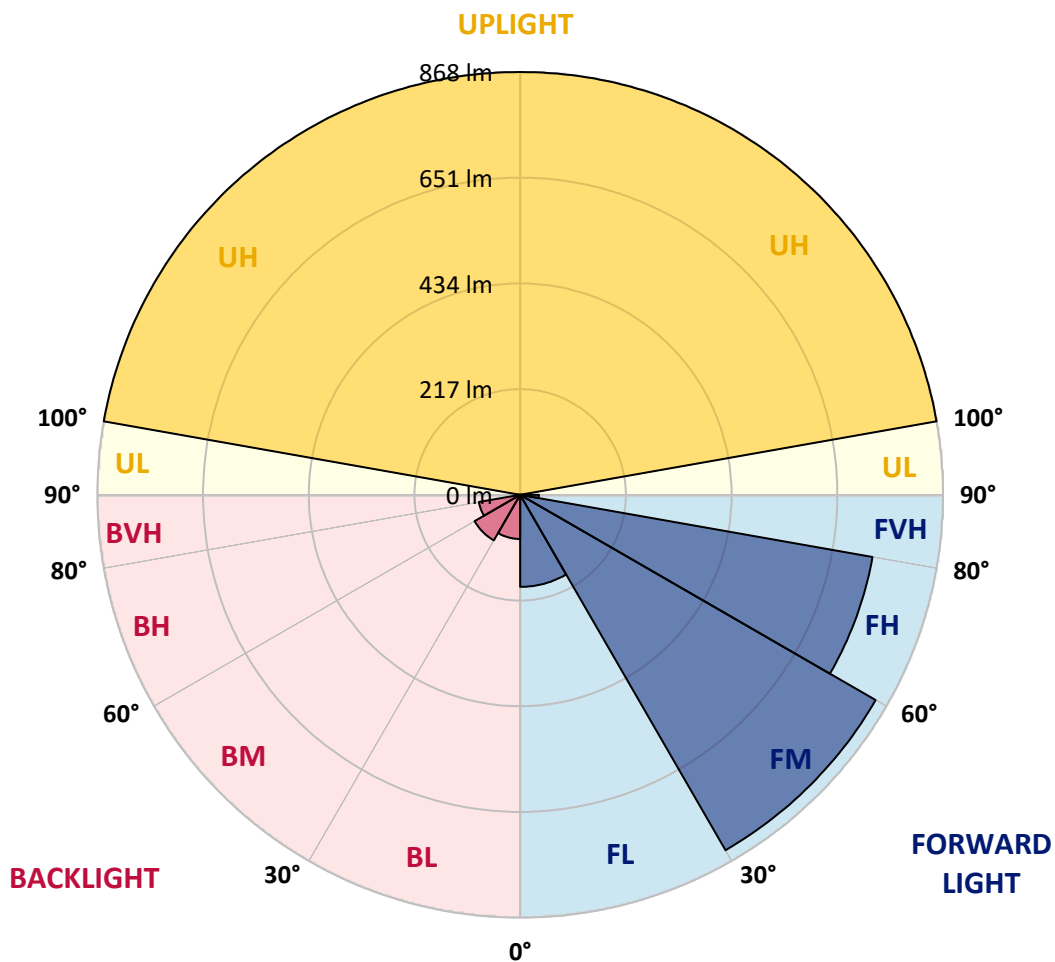
CATALOG NUMBER: IST-AF-350-LED-E1-SL3-7030-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	188.9	4.9			
FM (30°-60°)	842.2	22.0			
FH (60°-80°)	734.1	19.2			G1/1800
FVH (80°-90°)	38.3	1.0			G1/100
BL (0°-30°)	90.6	2.4	B0/110		
BM (30°-60°)	108.0	2.8	B0/220		
BH (60°-80°)	85.9	2.2	B0/110		G0/110
BVH (80°-90°)	6.5	0.2			G0/10
UL (90°-100°)	10.2	0.3		U2/50	
UH (100°-180°)	867.7	22.7		U4/1000	

**BUG Rating: B0-U5-G1**

Type II Short





REPORT NUMBER: P226964

CATALOG NUMBER: IST-AF-350-LED-E1-SL3-7030-ULG

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
2.5°	583.8	581.9	585.4	584.1	585.1	580.3	579.3	578.3	579.0	578.0	578.0
5°	570.0	569.0	573.2	575.4	577.4	576.7	576.4	576.4	576.7	574.5	574.8
7.5°	529.5	528.9	534.7	538.8	548.1	553.6	560.7	561.0	561.6	560.7	562.6
10°	486.5	488.4	493.6	500.3	514.1	522.5	535.9	538.5	539.5	539.8	540.1
12.5°	445.4	443.5	449.9	462.7	481.3	494.8	511.9	513.1	514.7	517.0	519.2
15°	408.8	411.0	416.2	429.7	449.2	468.2	490.3	491.6	494.8	496.8	500.0
17.5°	383.7	383.7	389.5	402.0	420.3	444.4	472.4	474.6	477.2	479.7	483.3
20°	371.2	371.2	373.5	380.8	396.9	420.0	453.7	456.3	460.8	463.7	468.5
22.5°	370.2	369.9	369.6	371.2	380.8	398.8	433.8	437.4	441.2	445.7	449.9
25°	380.5	381.5	377.6	375.1	376.0	384.4	414.9	416.8	424.2	427.1	432.2
27.5°	395.3	396.9	393.7	389.8	384.1	378.6	398.8	402.0	406.9	411.7	418.1
30°	416.5	416.2	415.8	413.3	402.0	385.0	394.0	396.3	400.4	404.3	409.7
32.5°	439.3	441.9	443.8	442.5	430.9	402.0	400.8	402.7	406.5	408.8	412.3
35°	468.8	470.1	477.5	477.5	465.9	432.5	419.7	421.3	423.2	424.2	426.8
37.5°	501.3	505.8	516.7	523.1	505.1	470.4	449.6	449.6	450.5	451.2	452.8
40°	538.8	545.3	560.3	572.5	561.0	517.6	488.7	491.6	490.7	489.4	492.9
42.5°	582.5	589.6	607.9	619.4	612.7	574.5	541.4	539.5	542.4	538.5	539.8
45°	633.2	638.7	657.3	669.5	675.0	644.2	610.4	606.6	606.6	598.2	601.8
47.5°	678.8	680.4	698.4	719.9	737.6	738.2	690.7	688.1	682.0	676.6	675.3
50°	721.2	726.0	737.6	761.0	798.0	830.1	801.2	793.2	786.4	766.2	772.3
52.5°	794.8	804.1	811.5	825.6	869.3	934.4	970.1	957.6	956.0	937.7	933.5
55°	808.6	809.5	833.9	915.5	1018.3	1065.1	1133.5	1133.2	1138.3	1132.6	1127.1
57.5°	743.7	736.0	776.8	884.3	1090.8	1331.7	1310.8	1313.0	1306.3	1288.6	1283.2
60°	579.3	585.7	629.7	766.8	1038.5	1503.8	1641.5	1600.8	1630.0	1584.1	1559.3
62.5°	325.9	318.5	348.4	492.6	851.9	1512.8	2092.1	2096.6	2110.7	2085.0	2024.6
65°	210.3	207.1	204.2	249.2	510.6	1323.3	2341.2	2396.5	2429.5	2443.0	2444.0
66°	180.8	178.2	174.7	203.9	355.8	1166.0	2325.2	2384.3	2436.9	2462.0	2469.4
67.5°	153.8	150.0	149.3	168.9	247.6	904.6	2172.0	2264.8	2311.4	2376.2	2411.6
70°	117.5	115.6	121.4	145.8	190.1	425.8	1730.8	1851.9	1932.1	1982.9	2015.6
72.5°	98.6	97.9	106.0	133.3	180.1	241.5	1211.6	1341.6	1425.4	1473.9	1518.9
75°	77.1	77.7	88.3	127.2	179.2	210.3	703.9	827.8	876.6	953.1	1011.5
77.5°	57.8	57.2	65.5	102.8	174.7	213.2	365.7	417.1	470.8	509.6	523.7
80°	40.5	41.1	46.9	70.6	136.2	219.3	228.0	239.9	251.1	263.6	266.2
82.5°	27.0	27.3	34.7	48.5	94.4	209.4	212.9	207.4	198.8	187.9	176.0
85°	16.4	17.0	24.7	32.8	73.2	189.5	220.3	205.8	192.7	178.2	163.8
87.5°	8.3	9.3	14.8	19.3	43.4	93.4	229.3	218.7	200.7	178.5	162.5
90°	7.2	7.2	10.2	12.8	16.7	25.9	64.8	59.2	33.4	57.1	32.2
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	7.1	7.2	7.3	7.4
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.8	11.6	11.4	11.2
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	28.7	28.4	28.1	27.8
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	49.7	49.4	49.1	48.8
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.8	71.6	71.4	71.2
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.9	94.8	94.7	94.6



REPORT NUMBER: P226964

CATALOG NUMBER: IST-AF-350-LED-E1-SL3-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.1	120.2	120.3	120.4
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	148.2	148.4	148.6	148.8
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	179.3	179.6	179.9	180.2
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	211.4	211.8	212.2	212.6
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	246.4	246.8	247.2	247.6
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	279.4	279.8	280.2	280.6
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	313.2	313.4	313.6	313.8
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.1	345.2	345.3	345.4
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	377.4	377.8	378.2	378.6
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	411.5	412.0	412.5	413.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	443.5	444.0	444.5	445.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	473.2	473.4	473.6	473.8
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	500.2	500.4	500.6	500.8
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	527.6	528.2	528.8	529.4
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	556.6	557.2	557.8	558.4
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	580.5	581.0	581.5	582.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	597.3	597.6	597.9	598.2
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	611.3	611.6	611.9	612.2
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	626.5	627.0	627.5	628.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	644.4	644.8	645.2	645.6
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	658.6	659.2	659.8	660.4
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	667.4	667.8	668.2	668.6
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	672.5	673.0	673.5	674.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	678.6	679.2	679.8	680.4
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	686.3	686.6	686.9	687.2
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	689.3	689.6	689.9	690.2
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	690.5	691.0	691.5	692.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	694.5	695.0	695.5	696.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0





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**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
2.5°	577.7	578.3	577.7	576.7	577.7	576.7	576.4	576.1	576.4	575.8	575.4
5°	574.8	575.4	575.4	573.5	573.2	574.5	572.5	573.2	572.5	571.9	570.6
7.5°	561.0	561.3	561.6	560.3	561.3	561.3	560.7	560.7	560.0	560.3	559.1
10°	541.7	543.0	544.3	543.6	543.3	546.2	544.9	545.9	545.9	544.9	545.3
12.5°	520.8	523.1	524.7	524.7	526.0	529.2	528.9	529.5	532.1	532.1	531.1
15°	501.6	503.8	506.4	508.3	510.9	513.1	514.7	517.3	518.6	518.6	520.2
17.5°	486.5	489.7	492.6	493.6	497.1	500.9	501.9	505.1	507.0	508.0	509.9
20°	471.7	475.2	478.8	482.0	485.2	489.7	491.9	493.9	497.1	499.0	501.9
22.5°	454.4	459.8	464.3	468.2	473.6	477.5	482.0	485.2	489.1	491.9	494.2
25°	438.0	445.4	451.5	455.3	462.7	468.2	473.6	478.5	483.3	487.5	490.7
27.5°	422.9	431.3	438.6	444.7	452.8	461.4	466.9	474.9	481.3	487.1	491.0
30°	415.5	422.6	430.3	437.4	445.4	456.3	465.3	475.6	483.6	491.0	496.8
32.5°	417.1	423.5	430.3	436.4	444.7	456.9	466.3	478.1	490.0	499.7	507.0
35°	430.0	435.8	440.2	445.7	453.1	462.4	472.4	484.9	499.7	512.5	522.1
37.5°	456.9	458.6	463.0	467.2	471.1	479.7	489.1	499.7	516.7	530.2	543.6
40°	490.3	494.5	498.7	500.6	505.1	510.6	514.7	526.0	541.1	558.7	573.5
42.5°	540.1	541.7	542.4	543.0	544.6	548.5	554.6	564.8	579.6	595.3	611.7
45°	596.0	597.9	599.8	600.8	598.6	600.8	607.2	612.0	626.5	641.3	662.1
47.5°	673.4	667.6	664.7	668.6	666.6	671.4	674.3	677.2	694.6	712.2	729.9
50°	772.6	769.1	764.6	764.9	768.4	765.2	767.1	777.7	783.5	798.3	821.7
52.5°	931.2	920.3	903.3	895.9	900.1	897.5	898.5	900.7	896.9	910.7	930.6
55°	1127.1	1113.0	1101.7	1095.3	1071.6	1069.6	1053.9	1048.1	1035.6	1048.8	1044.3
57.5°	1266.8	1257.8	1252.0	1232.8	1221.8	1200.0	1193.6	1185.9	1168.5	1177.2	1184.9
60°	1536.5	1504.4	1493.5	1459.8	1448.5	1427.7	1401.0	1387.9	1378.9	1387.2	1382.1
62.5°	1986.7	1942.1	1933.4	1853.5	1833.9	1785.7	1735.6	1728.9	1700.6	1683.0	1678.8
65°	2426.3	2362.4	2314.6	2227.2	2168.2	2099.4	2023.0	1967.1	1909.7	1880.8	1842.6
66°	2459.1	2433.7	2385.6	2334.5	2248.4	2173.3	2086.6	2026.2	1961.7	1910.9	1878.2
67.5°	2403.2	2389.7	2372.7	2338.0	2284.1	2214.1	2131.9	2054.8	1977.1	1917.4	1865.0
70°	2031.4	2046.1	2065.4	2056.4	2025.6	1998.3	1925.7	1882.7	1824.2	1745.9	1713.8
72.5°	1533.3	1572.8	1559.3	1508.6	1484.8	1465.9	1439.6	1410.7	1326.8	1317.2	1279.3
75°	986.5	973.3	982.0	920.3	878.2	860.9	798.3	772.6	709.7	668.9	637.7
77.5°	519.9	494.2	474.3	420.0	381.2	358.4	327.9	291.9	236.7	233.4	183.0
80°	241.2	221.6	203.6	184.6	165.7	140.6	122.0	99.5	88.0	75.5	70.3
82.5°	163.8	151.2	140.3	127.8	113.4	96.0	82.8	70.3	60.0	53.9	49.1
85°	148.4	134.9	122.7	106.9	91.8	77.4	63.3	52.3	42.7	37.2	34.0
87.5°	144.2	127.5	114.6	97.6	82.8	68.1	54.6	42.4	33.1	27.0	23.1
90°	26.3	27.8	22.5	22.1	14.6	16.4	14.5	12.2	12.5	11.6	11.9
92.5°	7.0	7.0	7.0	7.0	7.0	7.0	6.9	6.8	6.7	6.6	6.5
95°	7.5	7.6	7.7	7.8	7.9	8.0	7.9	7.8	7.7	7.6	7.5
97.5°	11.0	10.8	10.6	10.4	10.2	10.0	9.9	9.8	9.7	9.6	9.5
100°	27.5	27.2	26.9	26.6	26.3	26.0	25.7	25.4	25.1	24.8	24.5
102.5°	48.5	48.2	47.9	47.6	47.3	47.0	46.5	46.0	45.5	45.0	44.5
105°	71.0	70.8	70.6	70.4	70.2	70.0	69.5	69.0	68.5	68.0	67.5
107.5°	94.5	94.4	94.3	94.2	94.1	94.0	93.6	93.2	92.8	92.4	92.0



REPORT NUMBER: P226964

CATALOG NUMBER: IST-AF-350-LED-E1-SL3-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	120.5	120.6	120.7	120.8	120.9	121.0	120.8	120.6	120.4	120.2	120.0
112.5°	149.0	149.2	149.4	149.6	149.8	150.0	149.9	149.8	149.7	149.6	149.5
115°	180.5	180.8	181.1	181.4	181.7	182.0	181.7	181.4	181.1	180.8	180.5
117.5°	213.0	213.4	213.8	214.2	214.6	215.0	214.5	214.0	213.5	213.0	212.5
120°	248.0	248.4	248.8	249.2	249.6	250.0	249.5	249.0	248.5	248.0	247.5
122.5°	281.0	281.4	281.8	282.2	282.6	283.0	282.5	282.0	281.5	281.0	280.5
125°	314.0	314.2	314.4	314.6	314.8	315.0	314.5	314.0	313.5	313.0	312.5
127.5°	345.5	345.6	345.7	345.8	345.9	346.0	346.0	346.0	346.0	346.0	346.0
130°	379.0	379.4	379.8	380.2	380.6	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	413.5	414.0	414.5	415.0	415.5	416.0	415.8	415.6	415.4	415.2	415.0
135°	445.5	446.0	446.5	447.0	447.5	448.0	447.9	447.8	447.7	447.6	447.5
137.5°	474.0	474.2	474.4	474.6	474.8	475.0	475.1	475.2	475.3	475.4	475.5
140°	501.0	501.2	501.4	501.6	501.8	502.0	502.2	502.4	502.6	502.8	503.0
142.5°	530.0	530.6	531.2	531.8	532.4	533.0	533.0	533.0	533.0	533.0	533.0
145°	559.0	559.6	560.2	560.8	561.4	562.0	561.9	561.8	561.7	561.6	561.5
147.5°	582.5	583.0	583.5	584.0	584.5	585.0	585.1	585.2	585.3	585.4	585.5
150°	598.5	598.8	599.1	599.4	599.7	600.0	600.3	600.6	600.9	601.2	601.5
152.5°	612.5	612.8	613.1	613.4	613.7	614.0	614.4	614.8	615.2	615.6	616.0
155°	628.5	629.0	629.5	630.0	630.5	631.0	631.5	632.0	632.5	633.0	633.5
157.5°	646.0	646.4	646.8	647.2	647.6	648.0	648.2	648.4	648.6	648.8	649.0
160°	661.0	661.6	662.2	662.8	663.4	664.0	663.7	663.4	663.1	662.8	662.5
162.5°	669.0	669.4	669.8	670.2	670.6	671.0	670.9	670.8	670.7	670.6	670.5
165°	674.5	675.0	675.5	676.0	676.5	677.0	677.3	677.6	677.9	678.2	678.5
167.5°	681.0	681.6	682.2	682.8	683.4	684.0	684.4	684.8	685.2	685.6	686.0
170°	687.5	687.8	688.1	688.4	688.7	689.0	689.5	690.0	690.5	691.0	691.5
172.5°	690.5	690.8	691.1	691.4	691.7	692.0	692.2	692.4	692.6	692.8	693.0
175°	692.5	693.0	693.5	694.0	694.5	695.0	695.1	695.2	695.3	695.4	695.5
177.5°	696.5	697.0	697.5	698.0	698.5	699.0	699.2	699.4	699.6	699.8	700.0
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: P226964

CATALOG NUMBER: IST-AF-350-LED-E1-SL3-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
2.5°	574.8	573.8	574.8	574.5	573.2	573.5	573.8	572.5	571.9	571.9	571.6
5°	569.7	569.0	569.7	569.3	567.4	567.1	567.1	566.1	564.8	563.9	563.2
7.5°	557.5	558.1	557.8	556.8	555.8	555.8	554.9	552.6	551.4	550.1	548.8
10°	543.6	543.6	544.0	543.6	542.0	541.4	540.1	538.8	539.2	535.9	533.4
12.5°	531.4	531.4	531.1	530.5	529.5	529.2	529.2	525.3	524.4	523.4	520.5
15°	519.9	520.5	520.5	520.5	518.9	518.9	517.3	514.7	514.7	511.9	509.0
17.5°	510.9	511.9	511.5	511.9	512.2	510.3	507.4	505.8	503.8	502.2	498.4
20°	503.2	503.8	504.1	504.1	503.2	501.9	499.3	496.8	495.5	492.3	487.5
22.5°	496.1	497.4	497.7	497.7	496.4	495.5	492.9	489.1	486.5	482.6	478.1
25°	493.2	494.8	493.9	494.5	493.2	491.0	487.5	484.2	480.4	475.6	470.8
27.5°	494.2	496.4	495.8	495.5	493.9	492.3	487.8	483.9	479.4	473.6	467.5
30°	500.0	503.8	502.2	500.9	500.6	496.8	492.6	487.1	482.0	475.2	468.2
32.5°	510.9	512.8	513.1	512.2	510.6	507.4	501.6	494.5	488.7	480.7	472.4
35°	528.9	530.8	530.2	530.2	528.6	523.4	516.4	509.3	501.3	492.3	483.6
37.5°	553.9	557.5	556.8	555.5	553.6	547.5	542.0	533.4	524.4	512.5	502.5
40°	585.4	590.8	595.7	594.7	590.2	584.7	579.6	569.7	560.7	547.5	536.6
42.5°	627.8	635.2	641.3	645.8	643.8	636.8	627.8	623.6	610.8	597.3	586.0
45°	682.0	697.5	702.9	708.4	708.4	703.9	702.0	693.6	680.1	662.1	651.5
47.5°	753.7	774.2	780.3	789.6	795.1	790.3	786.7	772.6	763.6	738.9	736.3
50°	840.7	861.2	877.9	888.8	887.2	891.4	883.1	875.0	862.5	842.3	835.2
52.5°	951.8	968.2	983.3	989.7	996.4	995.5	993.5	988.1	972.3	961.4	943.4
55°	1065.8	1079.3	1097.6	1108.2	1116.8	1115.2	1107.8	1094.7	1097.6	1074.8	1064.8
57.5°	1195.5	1210.3	1230.2	1240.1	1244.0	1263.6	1258.8	1257.2	1251.7	1243.7	1233.4
60°	1418.7	1422.9	1439.2	1464.3	1495.1	1489.0	1496.7	1501.9	1505.7	1487.7	1486.4
62.5°	1684.6	1689.7	1703.8	1709.0	1713.5	1714.1	1703.8	1703.8	1686.2	1663.0	1645.1
65°	1829.7	1819.1	1809.5	1804.0	1792.1	1781.5	1766.1	1745.3	1715.4	1679.7	1647.6
66°	1850.6	1829.1	1816.5	1802.7	1783.8	1764.2	1745.9	1717.3	1682.3	1639.9	1597.5
67.5°	1830.3	1800.8	1771.6	1751.4	1725.0	1689.7	1657.6	1624.2	1591.1	1533.0	1493.5
70°	1645.7	1610.4	1578.3	1534.0	1492.2	1457.5	1402.3	1344.2	1296.3	1235.3	1196.5
72.5°	1222.2	1180.4	1138.7	1076.4	1015.7	1006.7	937.3	868.9	832.3	783.2	743.7
75°	603.7	551.0	476.2	442.8	394.3	370.6	357.4	307.9	296.1	247.6	246.9
77.5°	170.5	146.4	130.1	113.4	106.3	101.2	83.5	80.0	72.6	71.3	67.1
80°	64.5	61.0	59.4	57.8	56.2	55.2	54.6	52.0	50.7	48.8	47.8
82.5°	46.6	45.3	42.4	41.4	40.1	38.2	37.9	36.3	35.3	33.4	32.8
85°	31.5	29.9	28.3	26.7	26.0	25.7	24.7	24.1	23.4	22.5	22.2
87.5°	21.2	19.6	17.7	17.0	16.7	17.0	17.3	16.7	16.4	15.7	15.4
90°	11.6	12.5	12.2	12.2	12.9	12.0	11.8	11.9	11.4	11.2	10.7
92.5°	6.4	6.3	6.2	6.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.4	7.3	7.2	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4
100°	24.2	23.9	23.6	23.3	23.0	22.6	22.2	21.8	21.4	21.0	20.6
102.5°	44.0	43.5	43.0	42.5	42.0	41.7	41.4	41.1	40.8	40.5	40.2
105°	67.0	66.5	66.0	65.5	65.0	64.6	64.2	63.8	63.4	63.0	62.6
107.5°	91.6	91.2	90.8	90.4	90.0	89.7	89.4	89.1	88.8	88.5	88.2



REPORT NUMBER: P226964  
 CATALOG NUMBER: IST-AF-350-LED-E1-SL3-7030-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	119.8	119.6	119.4	119.2	119.0	118.7	118.4	118.1	117.8	117.5	117.2	0°
112.5°	149.4	149.3	149.2	149.1	149.0	148.8	148.6	148.4	148.2	148.0	147.8	2.5°
115°	180.2	179.9	179.6	179.3	179.0	178.8	178.6	178.4	178.2	178.0	177.8	5°
117.5°	212.0	211.5	211.0	210.5	210.0	209.8	209.6	209.4	209.2	209.0	208.8	7.5°
120°	247.0	246.5	246.0	245.5	245.0	244.8	244.6	244.4	244.2	244.0	243.8	10°
122.5°	280.0	279.5	279.0	278.5	278.0	277.8	277.6	277.4	277.2	277.0	276.8	12.5°
125°	312.0	311.5	311.0	310.5	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°
127.5°	346.0	346.0	346.0	346.0	346.0	345.9	345.8	345.7	345.6	345.5	345.4	17.5°
130°	381.0	381.0	381.0	381.0	381.0	380.8	380.6	380.4	380.2	380.0	379.8	20°
132.5°	414.8	414.6	414.4	414.2	414.0	414.0	414.0	414.0	414.0	414.0	414.0	22.5°
135°	447.4	447.3	447.2	447.1	447.0	447.3	447.6	447.9	448.2	448.5	448.8	25°
137.5°	475.6	475.7	475.8	475.9	476.0	476.5	477.0	477.5	478.0	478.5	479.0	27.5°
140°	503.2	503.4	503.6	503.8	504.0	504.5	505.0	505.5	506.0	506.5	507.0	30°
142.5°	533.0	533.0	533.0	533.0	533.0	533.1	533.2	533.3	533.4	533.5	533.6	32.5°
145°	561.4	561.3	561.2	561.1	561.0	560.7	560.4	560.1	559.8	559.5	559.2	35°
147.5°	585.6	585.7	585.8	585.9	586.0	585.7	585.4	585.1	584.8	584.5	584.2	37.5°
150°	601.8	602.1	602.4	602.7	603.0	603.3	603.6	603.9	604.2	604.5	604.8	40°
152.5°	616.4	616.8	617.2	617.6	618.0	618.5	619.0	619.5	620.0	620.5	621.0	42.5°
155°	634.0	634.5	635.0	635.5	636.0	636.2	636.4	636.6	636.8	637.0	637.2	45°
157.5°	649.2	649.4	649.6	649.8	650.0	650.0	650.0	650.0	650.0	650.0	650.0	47.5°
160°	662.2	661.9	661.6	661.3	661.0	660.9	660.8	660.7	660.6	660.5	660.4	50°
162.5°	670.4	670.3	670.2	670.1	670.0	669.8	669.6	669.4	669.2	669.0	668.8	52.5°
165°	678.8	679.1	679.4	679.7	680.0	679.8	679.6	679.4	679.2	679.0	678.8	55°
167.5°	686.4	686.8	687.2	687.6	688.0	688.0	688.0	688.0	688.0	688.0	688.0	57.5°
170°	692.0	692.5	693.0	693.5	694.0	694.2	694.4	694.6	694.8	695.0	695.2	60°
172.5°	693.2	693.4	693.6	693.8	694.0	694.2	694.4	694.6	694.8	695.0	695.2	62.5°
175°	695.6	695.7	695.8	695.9	696.0	695.8	695.6	695.4	695.2	695.0	694.8	65°
177.5°	700.2	700.4	700.6	700.8	701.0	700.7	700.4	700.1	699.8	699.5	699.2	66°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°
												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: P226964  
 NUMBER: IST-AF-350-LED-E1-SL3-7030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	110°	116.9
570.9	570.0	570.3	569.0	568.7	569.3	569.7	569.7	568.7	562.9	556.2	112.5°	147.6
562.6	560.7	560.3	559.4	557.8	559.7	558.7	557.1	555.2	548.5	535.3	115°	177.6
547.2	545.9	544.3	543.0	542.0	541.4	541.1	539.5	535.9	523.4	501.3	117.5°	208.6
532.4	530.8	528.9	526.0	524.7	522.8	522.8	518.9	516.4	500.6	467.9	120°	243.6
518.0	515.1	514.1	512.2	508.6	507.0	504.8	500.9	497.1	478.1	435.1	122.5°	276.6
507.0	504.1	500.0	498.7	494.8	491.3	488.4	483.3	479.1	454.1	400.8	125°	310.0
495.2	492.9	488.4	485.5	481.3	477.2	472.4	465.9	463.0	431.3	368.0	127.5°	345.3
485.5	480.4	475.2	472.7	467.5	462.7	457.9	450.2	444.4	408.8	333.3	130°	379.6
474.3	469.8	464.3	459.8	452.8	447.3	441.9	433.8	426.8	386.0	298.3	132.5°	414.0
466.6	460.2	454.4	449.2	441.2	434.8	427.1	418.4	411.3	364.1	259.8	135°	449.1
462.1	455.7	448.3	441.9	432.5	425.2	416.8	407.2	398.2	346.5	223.5	137.5°	479.5
460.8	453.1	445.4	437.4	427.7	418.4	408.5	398.8	387.3	329.5	184.0	140°	507.5
464.7	455.3	446.7	437.0	425.8	415.2	405.2	392.7	381.2	314.7	145.1	142.5°	533.7
475.2	464.0	454.1	443.5	430.6	419.1	407.2	393.0	380.2	304.4	111.1	145°	558.9
491.9	481.3	469.8	459.2	444.4	431.6	418.4	403.3	387.9	300.2	83.8	147.5°	583.9
525.7	511.5	499.7	488.4	471.4	458.2	443.1	424.8	407.5	304.1	70.0	150°	605.1
572.9	555.2	544.3	534.3	513.1	498.7	481.3	460.5	440.9	315.0	61.7	152.5°	621.5
638.1	624.6	605.0	589.6	568.1	552.0	532.7	507.7	485.8	330.4	57.5	155°	637.4
719.6	702.0	682.7	667.0	643.5	615.6	595.3	565.2	540.4	354.5	55.6	157.5°	650.0
819.5	798.3	772.3	759.1	726.7	704.8	677.9	645.4	614.0	391.8	56.5	160°	660.3
928.0	905.2	885.0	859.9	830.4	806.0	780.3	745.9	706.5	462.4	60.4	162.5°	668.6
1042.7	1027.9	1008.6	976.2	960.1	929.3	896.6	858.7	830.1	554.2	69.7	165°	678.6
1209.6	1193.6	1191.3	1159.5	1135.1	1107.2	1081.5	1050.0	1016.3	717.4	91.5	167.5°	688.0
1466.5	1449.8	1430.9	1406.2	1377.3	1342.6	1310.8	1268.4	1230.8	880.8	101.8	170°	695.4
1618.7	1587.9	1553.9	1516.3	1474.2	1431.2	1388.5	1334.2	1279.6	890.8	91.8	172.5°	695.4
1605.9	1567.7	1524.3	1473.3	1429.0	1376.0	1330.1	1260.1	1210.3	793.2	74.8	175°	694.6
1558.4	1506.0	1465.2	1418.4	1362.8	1315.3	1266.8	1197.8	1140.9	727.3	68.4	177.5°	698.9
1436.7	1392.0	1335.5	1290.6	1249.5	1192.6	1147.0	1082.5	1043.3	630.7	61.3	180°	700.0
1148.3	1086.6	1038.8	1003.8	957.2	905.9	865.4	811.1	776.5	417.4	53.0		
668.9	653.5	599.8	569.7	541.4	499.7	467.5	441.5	395.9	202.3	46.9		
206.2	191.7	189.8	161.2	170.5	145.8	141.9	129.1	129.1	77.7	36.9		
65.8	64.5	62.0	58.4	57.2	57.2	55.6	55.2	52.7	41.7	27.6		
46.6	45.6	44.6	43.7	43.0	43.4	42.1	41.4	40.8	30.2	21.8		
32.1	31.1	29.2	29.2	28.6	28.3	28.6	27.3	27.0	21.2	18.3		
21.8	21.5	21.2	20.9	20.6	20.2	19.9	18.9	18.3	14.8	12.8		
14.5	12.2	11.9	10.3	10.0	9.6	9.0	9.6	10.6	10.6	8.3		
10.8	10.3	10.4	10.2	9.6	9.9	9.9	9.2	9.2	10.2	11.9		
6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		
8.3	8.2	8.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0		
20.2	19.8	19.4	19.0	19.0	19.0	19.0	19.0	19.0	19.0	23.0		
39.9	39.6	39.3	39.0	38.8	38.6	38.4	38.2	38.0	39.0	42.0		
62.2	61.8	61.4	61.0	61.0	61.0	61.0	61.0	61.0	61.0	65.0		
87.9	87.6	87.3	87.0	86.8	86.6	86.4	86.2	86.0	87.0	90.0		

'226964  
 IST-AF-350-LED-E1-SL3-7030-ULG

REPORT NUMBER: P226964  
 CATALOG NUMBER: IST-AF-350

**TION (continued):**

**CANDELA DISTRIBUTION (con**

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
116.6	116.3	116.0	116.2	116.4	116.6	116.8	117.0	116.0	119.0	0°	569.0	569.0
147.4	147.2	147.0	147.0	147.0	147.0	147.0	147.0	147.0	149.0	2.5°	550.4	545.3
177.4	177.2	177.0	177.2	177.4	177.6	177.8	178.0	177.0	179.0	5°	521.2	509.6
208.4	208.2	208.0	208.2	208.4	208.6	208.8	209.0	208.0	210.0	7.5°	481.7	459.2
243.4	243.2	243.0	243.0	243.0	243.0	243.0	243.0	243.0	245.0	10°	436.4	404.0
276.4	276.2	276.0	276.2	276.4	276.6	276.8	277.0	276.0	278.0	12.5°	389.5	348.1
310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°	345.8	290.9
345.2	345.1	345.0	345.4	345.8	346.2	346.6	347.0	345.0	346.0	17.5°	299.9	232.2
379.4	379.2	379.0	379.2	379.4	379.6	379.8	380.0	379.0	381.0	20°	255.9	175.3
414.0	414.0	414.0	414.2	414.4	414.6	414.8	415.0	414.0	414.0	22.5°	206.2	123.0
449.4	449.7	450.0	450.2	450.4	450.6	450.8	451.0	450.0	447.0	25°	151.2	89.3
480.0	480.5	481.0	481.2	481.4	481.6	481.8	482.0	481.0	476.0	27.5°	107.9	71.3
508.0	508.5	509.0	509.4	509.8	510.2	510.6	511.0	509.0	504.0	30°	80.6	60.0
533.8	533.9	534.0	534.4	534.8	535.2	535.6	536.0	534.0	533.0	32.5°	64.5	52.0
558.6	558.3	558.0	558.4	558.8	559.2	559.6	560.0	558.0	561.0	35°	54.9	47.2
583.6	583.3	583.0	583.4	583.8	584.2	584.6	585.0	583.0	586.0	37.5°	49.1	44.0
605.4	605.7	606.0	606.8	607.6	608.4	609.2	610.0	606.0	603.0	40°	45.9	42.4
622.0	622.5	623.0	624.0	625.0	626.0	627.0	628.0	623.0	618.0	42.5°	44.0	40.8
637.6	637.8	638.0	638.6	639.2	639.8	640.4	641.0	638.0	636.0	45°	43.0	39.8
650.0	650.0	650.0	651.0	652.0	653.0	654.0	655.0	650.0	650.0	47.5°	42.4	38.5
660.2	660.1	660.0	661.2	662.4	663.6	664.8	666.0	660.0	661.0	50°	41.7	38.5
668.4	668.2	668.0	669.2	670.4	671.6	672.8	674.0	668.0	670.0	52.5°	42.1	39.2
678.4	678.2	678.0	678.8	679.6	680.4	681.2	682.0	678.0	680.0	55°	43.7	39.2
688.0	688.0	688.0	689.2	690.4	691.6	692.8	694.0	688.0	688.0	57.5°	46.2	39.2
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	60°	48.2	39.8
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	62.5°	48.8	41.1
694.4	694.2	694.0	695.0	696.0	697.0	698.0	699.0	694.0	696.0	65°	48.2	41.7
698.6	698.3	698.0	698.8	699.6	700.4	701.2	702.0	698.0	701.0	66°	47.5	41.7
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	46.6	41.1
										70°	44.3	38.5
										72.5°	39.8	34.7
										75°	34.0	27.9
										77.5°	27.6	22.5
										80°	20.6	17.0
										82.5°	15.1	13.2
										85°	10.6	9.3
										87.5°	6.4	5.8
										90°	10.6	8.6
										92.5°	7.0	7.0
										95°	8.0	7.0
										97.5°	10.0	12.0
										100°	26.0	29.0
										102.5°	47.0	50.0
										105°	70.0	72.0
										107.5°	94.0	95.0



REPORT NUMBER: P226964

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

0-LED-E1-SL3-7030-ULG

**tinued):**

135°	145°	155°	165°	175°	180°
569.0	569.0	569.0	569.0	569.0	569.0
541.7	541.4	533.4	531.8	526.3	529.2
495.8	490.3	475.9	473.0	466.9	465.3
440.9	425.8	414.2	401.4	389.2	395.3
376.7	351.3	325.9	309.2	302.5	300.2
315.7	270.1	238.3	205.5	194.0	198.1
241.8	189.8	147.4	128.4	117.5	115.6
170.5	121.7	102.1	97.3	95.0	95.0
115.6	92.8	85.4	83.2	83.2	83.5
88.0	78.0	74.8	75.1	76.4	76.7
72.9	69.0	67.4	69.7	72.3	72.6
62.9	62.0	62.3	65.2	67.8	68.1
55.2	56.2	57.5	60.0	62.3	62.9
49.8	51.4	52.3	53.9	55.2	55.6
45.9	47.8	47.5	48.5	49.5	49.8
43.7	44.6	43.7	44.3	44.3	45.0
41.7	42.1	40.5	40.8	41.4	41.4
39.8	39.5	37.9	38.5	39.5	39.8
37.9	37.2	36.0	37.2	38.9	39.2
36.3	35.6	35.0	36.6	38.5	38.9
35.6	35.0	34.4	36.6	38.5	38.9
35.6	35.0	34.4	36.0	37.9	38.2
36.0	35.3	34.0	35.6	36.9	37.2
36.3	35.6	33.4	34.4	35.0	35.3
36.3	35.0	32.8	33.1	33.1	33.4
35.6	34.0	31.5	31.5	31.1	31.1
35.6	32.8	30.2	29.5	28.9	28.9
35.3	32.4	29.9	28.9	27.9	27.9
34.7	31.8	29.2	27.9	27.0	27.0
32.4	30.5	27.6	26.3	25.4	25.0
28.9	27.9	25.7	24.7	23.8	23.4
24.4	24.7	23.4	22.8	21.8	21.5
20.6	21.2	20.6	20.2	19.6	19.3
16.4	17.7	17.0	17.0	17.3	16.7
12.5	14.1	13.5	14.1	14.8	13.8
8.7	10.3	10.3	10.6	10.9	10.3
5.5	6.7	6.4	6.7	6.7	6.4
8.3	10.2	9.3	8.9	6.6	6.3
6.0	6.0	6.0	5.0	4.0	4.0
7.0	7.0	7.0	6.0	5.0	5.0
9.0	9.0	8.0	8.0	7.0	7.0
21.0	12.0	10.0	9.0	8.0	8.0
40.0	27.0	18.0	13.0	11.0	11.0
63.0	48.0	36.0	27.0	22.0	21.0
88.0	73.0	58.0	49.0	42.0	41.0

**CANDELA DISTRIBUTION (continued):**

	115°	125°	135°
110°	121.0	120.0	114.0
112.5°	150.0	148.0	143.0
115°	182.0	179.0	174.0
117.5°	215.0	211.0	205.0
120°	250.0	246.0	243.0
122.5°	283.0	279.0	277.0
125°	315.0	313.0	310.0
127.5°	346.0	345.0	340.0
130°	381.0	377.0	372.0
132.5°	416.0	411.0	405.0
135°	448.0	443.0	437.0
137.5°	475.0	473.0	468.0
140°	502.0	500.0	497.0
142.5°	533.0	527.0	525.0
145°	562.0	556.0	551.0
147.5°	585.0	580.0	575.0
150°	600.0	597.0	593.0
152.5°	614.0	611.0	610.0
155°	631.0	626.0	628.0
157.5°	648.0	644.0	645.0
160°	664.0	658.0	655.0
162.5°	671.0	667.0	663.0
165°	677.0	672.0	673.0
167.5°	684.0	678.0	685.0
170°	689.0	686.0	691.0
172.5°	692.0	689.0	690.0
175°	695.0	690.0	690.0
177.5°	699.0	694.0	695.0
180°	700.0	700.0	700.0



İL3-7030-ULG

145°	155°	165°	175°	180°
102.0	87.0	74.0	68.0	66.0
134.0	121.0	106.0	99.0	99.0
168.0	159.0	147.0	139.0	140.0
202.0	197.0	189.0	184.0	184.0
237.0	233.0	226.0	223.0	225.0
271.0	267.0	261.0	260.0	263.0
305.0	299.0	296.0	294.0	298.0
339.0	333.0	329.0	329.0	330.0
370.0	366.0	362.0	361.0	363.0
404.0	401.0	393.0	394.0	396.0
435.0	432.0	426.0	426.0	429.0
464.0	460.0	459.0	457.0	460.0
491.0	489.0	487.0	485.0	488.0
521.0	518.0	517.0	515.0	518.0
550.0	547.0	544.0	546.0	550.0
574.0	574.0	571.0	572.0	575.0
593.0	593.0	593.0	592.0	595.0
610.0	609.0	608.0	608.0	611.0
630.0	627.0	625.0	625.0	629.0
646.0	644.0	643.0	643.0	646.0
655.0	656.0	659.0	660.0	663.0
661.0	665.0	669.0	669.0	673.0
673.0	676.0	676.0	678.0	681.0
688.0	686.0	684.0	687.0	690.0
693.0	692.0	692.0	695.0	698.0
690.0	693.0	695.0	697.0	699.0
691.0	695.0	697.0	698.0	700.0
697.0	699.0	700.0	705.0	707.0
700.0	700.0	700.0	700.0	700.0

(END OF REPORT)