

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: P226832

Luminaire Tested: **IST-AF-350-LED-E1-SL2-7060-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226832  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)-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-SL2-7060-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 5700K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4150.4 lumens  
Efficiency: N/A  
Efficacy: 112.8 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: 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

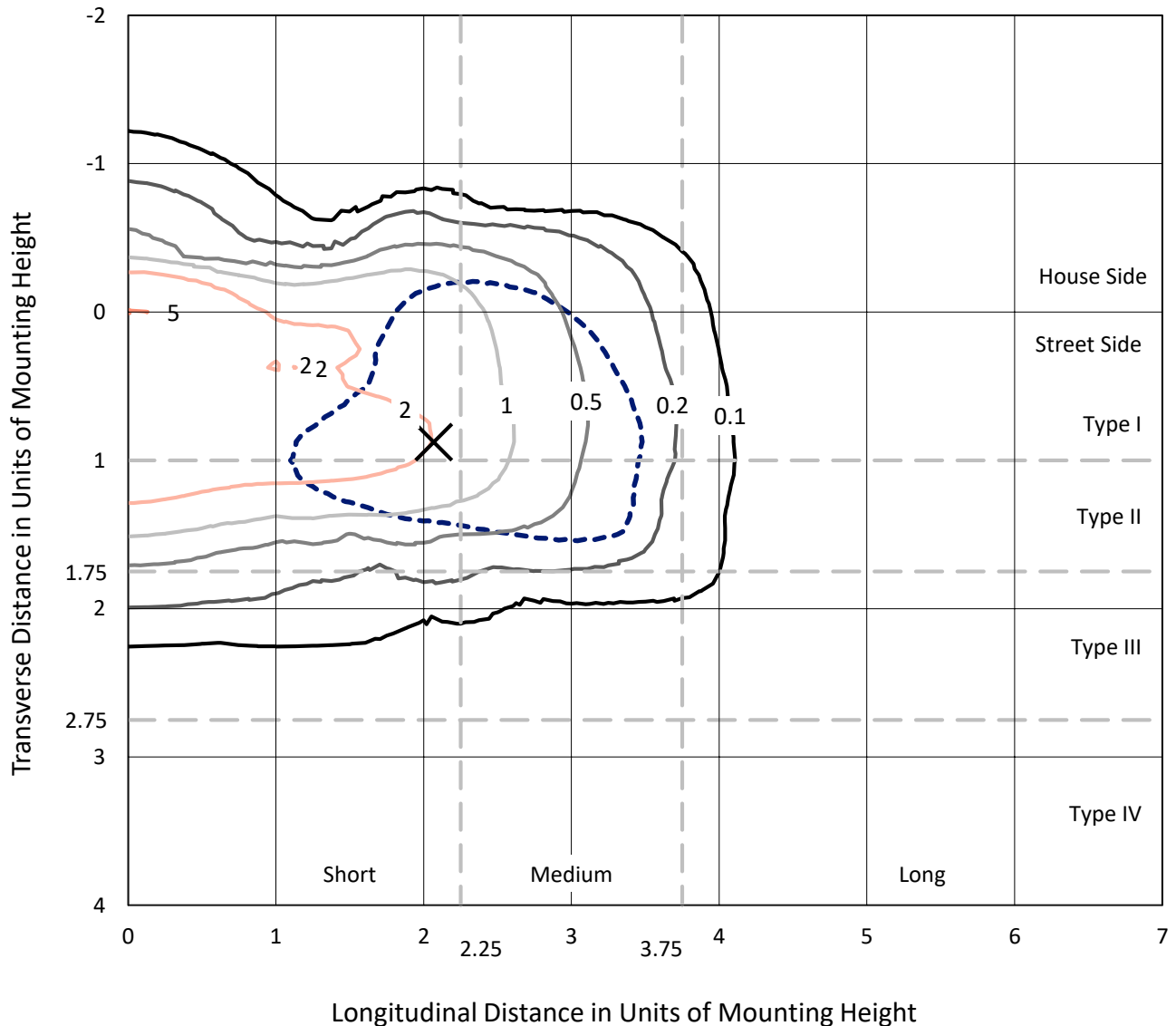


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

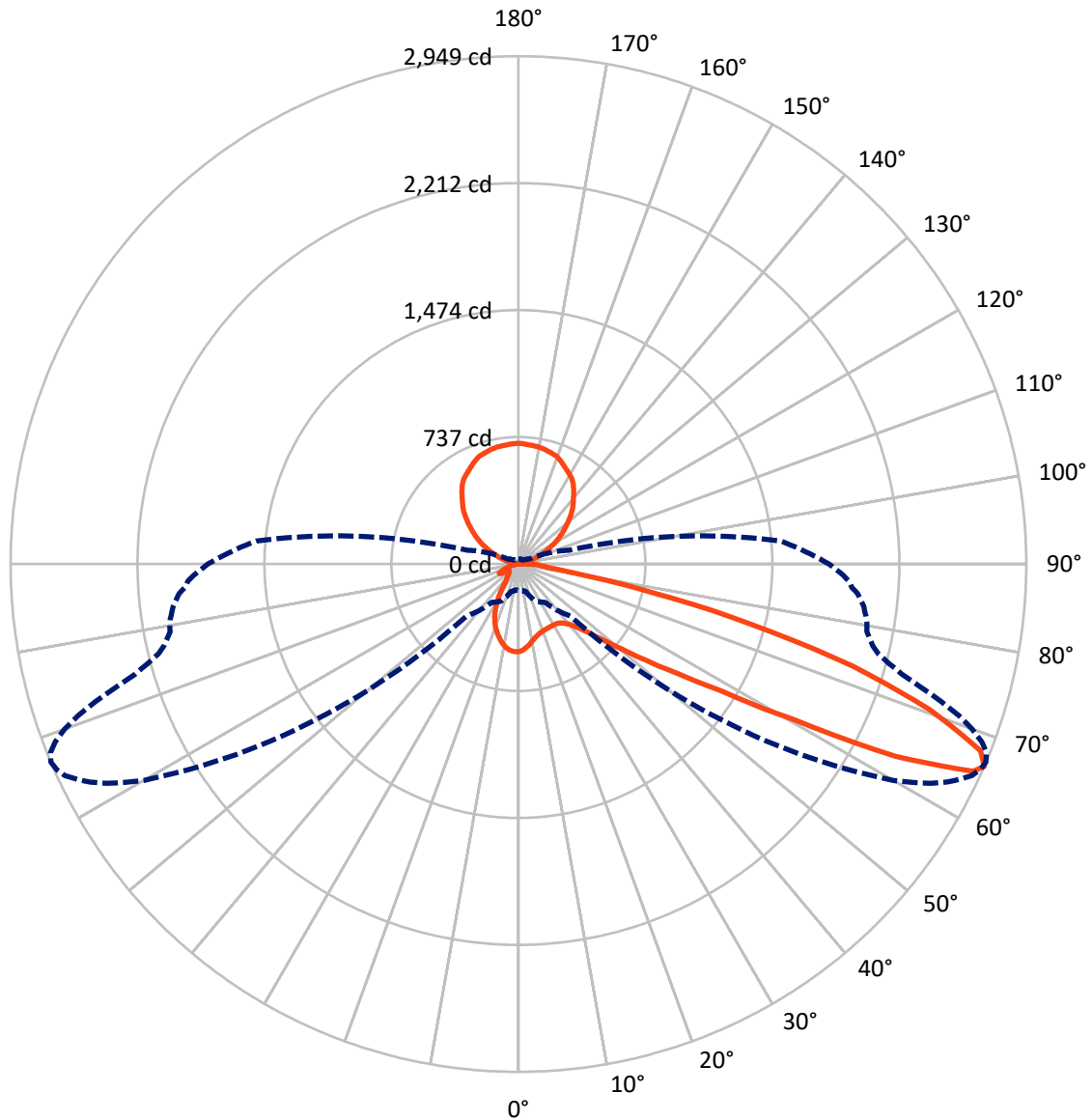


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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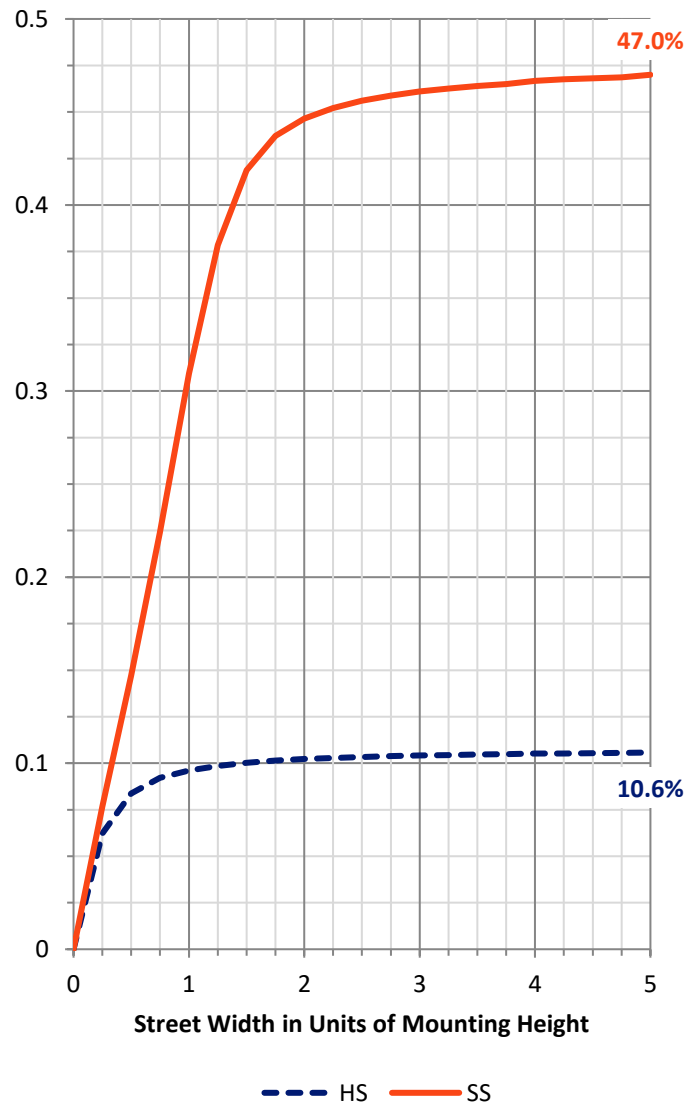
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	446.3	867.8	1314.0
	% Fixture	10.8	20.9	31.7
<b>Street Side</b>	Lumens	1968.1	868.3	2836.4
	% Fixture	47.4	20.9	68.3
<b>Total</b>	Lumens	2414.4	1736.0	4150.4
	% Fixture	58.2	41.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	1.1
10°-20°	104.9	2.5
20°-30°	143.8	3.5
30°-40°	205.5	5.0
40°-50°	333.2	8.0
50°-60°	527.9	12.7
60°-70°	668.9	16.1
70°-80°	332.5	8.0
80°-90°	53.7	1.3
90°-100°	10.1	0.2
100°-110°	57.4	1.4
110°-120°	166.1	4.0
120°-130°	273.2	6.6
130°-140°	336.8	8.1
140°-150°	344.6	8.3
150°-160°	290.3	7.0
160°-170°	191.2	4.6
170°-180°	66.3	1.6
0°-90°	2414.4	58.2
0°-180°	4150.4	100.0



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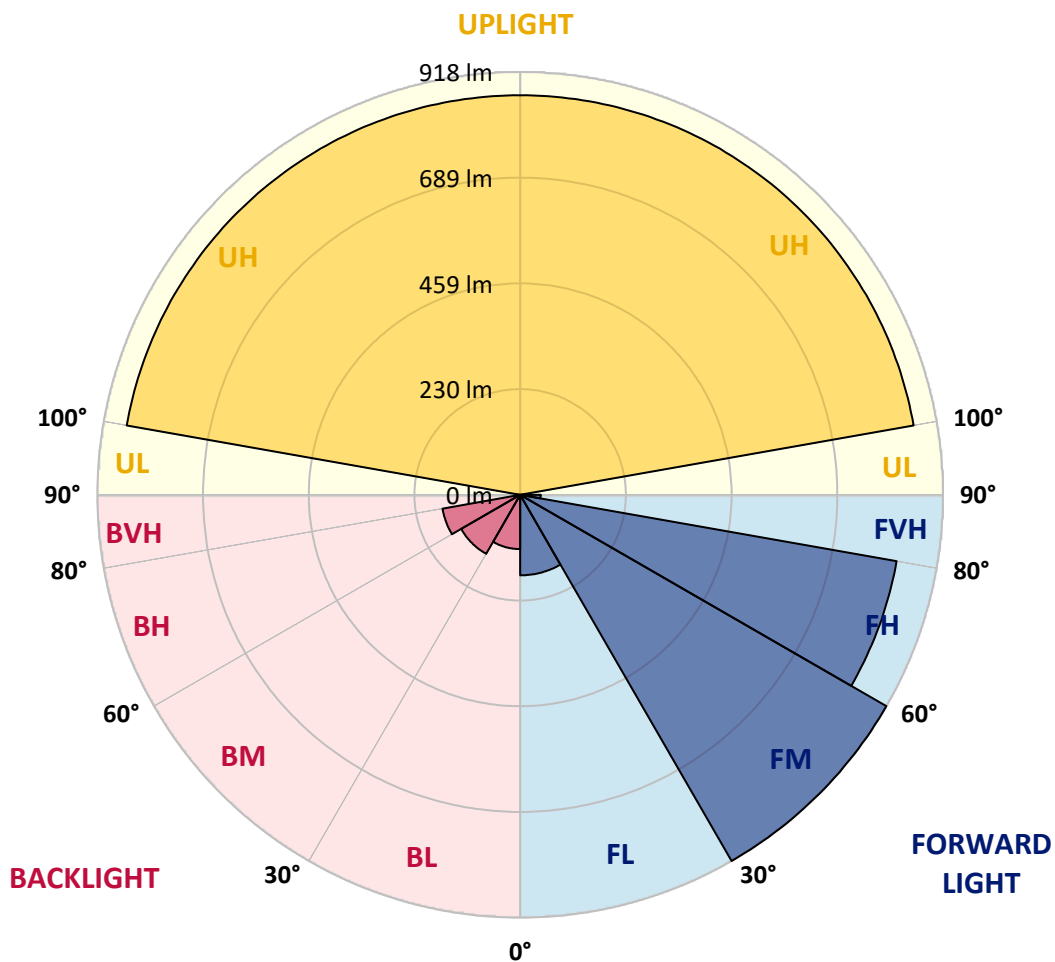
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.9	4.2			
FM (30°-60°)	918.4	22.1			
FH (60°-80°)	830.1	20.0			G1/1800
FVH (80°-90°)	44.7	1.1			G1/100
BL (0°-30°)	117.9	2.8	B1/500		
BM (30°-60°)	148.1	3.6	B0/220		
BH (60°-80°)	171.3	4.1	B1/500		G1/500
BVH (80°-90°)	9.0	0.2			G0/10
UL (90°-100°)	10.1	0.2		U2/50	
UH (100°-180°)	867.8	20.9		U4/1000	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2
2.5°	472.3	473.3	479.5	482.8	487.5	488.9	494.4	496.6	498.4	498.0	498.0
5°	429.8	433.1	436.0	442.5	449.4	457.7	468.3	476.2	477.7	479.5	480.6
7.5°	397.5	399.7	404.8	409.5	418.2	429.8	444.7	454.8	457.0	457.7	460.3
10°	374.7	376.1	380.5	386.7	396.8	408.1	423.7	434.2	437.4	438.9	441.1
12.5°	356.9	359.1	363.1	369.6	380.5	392.1	408.4	418.9	421.1	422.9	426.2
15°	345.7	347.1	350.7	358.0	367.8	379.4	395.4	408.1	409.5	411.3	414.2
17.5°	343.5	344.6	346.8	352.2	359.8	371.1	387.4	397.9	400.4	403.0	405.9
20°	352.2	352.9	353.6	354.4	358.7	366.0	381.9	393.2	395.4	397.5	401.2
22.5°	371.1	372.1	370.3	367.8	364.5	366.0	379.4	391.0	392.5	394.6	397.5
25°	403.7	402.6	397.2	393.2	381.6	372.1	380.1	389.9	391.7	393.9	397.2
27.5°	442.2	440.7	437.4	426.6	407.3	388.1	384.5	391.7	392.8	394.6	397.5
30°	483.5	483.9	481.0	469.0	444.3	412.0	394.3	396.1	396.8	398.3	400.1
32.5°	520.9	526.3	525.9	525.2	490.0	444.3	413.1	405.9	404.8	405.9	406.6
35°	564.0	565.1	575.3	580.3	551.7	491.5	440.7	424.7	420.4	420.7	420.0
37.5°	610.4	611.9	629.3	638.0	615.9	545.2	477.3	452.7	448.7	444.7	441.8
40°	677.9	683.7	692.8	702.6	691.7	617.3	525.6	492.2	482.0	481.3	475.5
42.5°	778.7	776.9	772.6	780.6	767.5	698.2	584.0	548.1	540.4	530.3	522.3
45°	877.8	881.8	862.9	866.5	867.3	791.8	668.5	618.1	614.1	602.1	593.4
47.5°	944.5	940.2	914.8	933.3	978.6	901.0	766.4	713.5	705.1	699.0	693.5
50°	948.1	944.5	928.2	960.8	1057.7	1095.0	902.8	841.1	829.2	818.3	815.0
52.5°	859.6	854.6	860.0	926.4	1086.3	1257.5	1095.4	999.6	989.9	980.8	968.1
55°	701.9	707.7	733.4	828.8	1042.4	1372.9	1474.4	1244.5	1202.4	1202.0	1170.8
57.5°	524.1	518.3	537.5	627.1	931.5	1413.9	1822.6	1765.7	1671.8	1608.3	1531.7
60°	353.6	355.1	372.9	418.9	648.2	1369.3	2055.9	2254.3	2221.3	2207.8	2187.2
62.5°	245.2	247.4	263.7	306.9	379.0	1101.6	2124.1	2528.1	2587.2	2636.2	2624.2
65°	171.6	171.9	188.2	255.0	284.0	565.8	1973.5	2564.4	2652.5	2736.7	2812.1
66°	151.3	151.6	165.0	237.2	272.4	426.9	1843.0	2514.0	2614.5	2712.4	2790.4
67.5°	129.5	131.7	142.2	201.7	261.2	329.3	1522.3	2363.5	2468.6	2576.4	2679.4
70°	88.9	89.6	99.0	163.6	244.5	289.1	867.6	1845.1	1990.6	2179.9	2289.5
72.5°	63.5	62.7	63.8	101.2	251.0	287.3	455.9	1214.4	1417.9	1584.0	1702.6
75°	56.6	54.8	50.1	62.7	183.2	313.7	305.4	714.9	869.8	1021.0	1142.6
77.5°	50.4	47.5	45.0	48.2	90.7	295.6	274.2	409.5	488.6	601.4	695.0
80°	38.4	36.6	38.1	41.7	54.4	272.0	272.4	272.4	293.8	330.8	367.8
82.5°	25.4	23.2	26.5	34.5	41.0	204.9	281.5	240.5	236.5	235.0	237.6
85°	16.0	13.8	18.5	25.8	31.6	107.0	288.7	253.9	235.4	217.6	199.9
87.5°	5.8	6.5	9.4	14.9	20.7	46.4	253.2	223.8	211.1	189.0	168.3
90°	6.5	6.1	8.8	12.4	12.7	15.7	45.8	70.0	45.2	26.9	23.5
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	7.8
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.0	10.8	10.6	10.4
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	27.5	27.2	26.9	26.6
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	48.5	48.2	47.9	47.6
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.0	70.8	70.6	70.4
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.5	94.4	94.3	94.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.5	120.6	120.7	120.8
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	149.0	149.2	149.4	149.6
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	180.5	180.8	181.1	181.4
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	213.0	213.4	213.8	214.2
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	248.0	248.4	248.8	249.2
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	281.0	281.4	281.8	282.2
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	314.0	314.2	314.4	314.6
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.5	345.6	345.7	345.8
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	379.0	379.4	379.8	380.2
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	413.5	414.0	414.5	415.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	445.5	446.0	446.5	447.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	474.0	474.2	474.4	474.6
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	501.0	501.2	501.4	501.6
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	530.0	530.6	531.2	531.8
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	559.0	559.6	560.2	560.8
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	582.5	583.0	583.5	584.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	598.5	598.8	599.1	599.4
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	612.5	612.8	613.1	613.4
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	628.5	629.0	629.5	630.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	646.0	646.4	646.8	647.2
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	661.0	661.6	662.2	662.8
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	669.0	669.4	669.8	670.2
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	674.5	675.0	675.5	676.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	681.0	681.6	682.2	682.8
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	687.5	687.8	688.1	688.4
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	690.5	690.8	691.1	691.4
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	692.5	693.0	693.5	694.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	696.5	697.0	697.5	698.0
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):**

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2
2.5°	498.4	500.2	500.9	500.2	500.5	502.7	502.0	503.1	503.1	503.8	503.8
5°	482.0	483.5	486.4	486.0	488.9	490.0	491.1	492.6	494.4	495.5	497.6
7.5°	462.8	465.7	468.3	469.7	471.5	475.2	476.2	479.5	482.4	485.3	487.5
10°	444.3	448.3	451.2	452.3	456.3	458.1	462.1	464.6	468.3	471.9	475.2
12.5°	428.7	432.4	433.8	437.4	441.1	444.7	446.5	451.2	454.8	459.6	463.9
15°	417.1	420.7	423.7	426.2	429.8	433.4	436.3	441.1	445.4	450.1	454.1
17.5°	409.9	412.0	415.7	417.8	422.2	426.6	429.8	435.3	440.0	444.0	449.4
20°	404.4	407.0	410.2	413.5	417.5	422.9	425.8	431.6	436.7	441.4	446.5
22.5°	401.5	404.1	407.3	410.6	414.9	419.3	424.0	429.1	434.5	439.6	444.7
25°	400.4	402.6	405.5	408.8	413.5	418.2	422.2	428.0	432.7	438.2	444.3
27.5°	400.8	402.3	405.5	408.4	413.1	417.5	421.5	427.3	432.7	437.8	444.0
30°	402.3	403.3	406.6	409.1	413.1	417.5	421.1	427.3	432.0	437.4	444.0
32.5°	407.3	408.8	410.2	412.0	415.7	418.9	423.3	428.7	433.1	438.5	444.0
35°	419.3	418.2	419.3	420.0	422.6	425.8	429.1	433.8	437.8	442.5	448.3
37.5°	438.2	436.0	436.7	436.3	436.3	438.5	441.8	445.1	448.3	453.0	458.8
40°	473.0	467.5	466.1	462.1	461.0	462.8	465.0	465.4	469.4	475.5	478.1
42.5°	518.0	510.7	511.8	505.3	503.4	501.3	504.2	502.4	504.9	508.9	514.3
45°	589.0	582.2	574.9	564.4	566.6	558.6	556.4	557.1	556.8	558.2	564.7
47.5°	673.9	664.9	660.1	656.2	648.5	643.8	637.7	628.6	630.8	633.7	639.5
50°	798.0	795.1	786.0	772.9	771.1	764.2	762.4	754.4	751.5	751.2	750.8
52.5°	963.7	944.9	941.2	928.9	919.5	913.0	910.8	899.5	888.3	894.8	894.1
55°	1165.8	1150.2	1130.2	1119.3	1111.7	1096.1	1092.1	1078.0	1071.5	1067.8	1058.8
57.5°	1505.3	1450.5	1409.5	1389.2	1360.5	1331.5	1321.4	1292.4	1269.9	1253.9	1255.0
60°	2097.2	1999.6	1884.7	1833.2	1713.8	1696.4	1614.4	1594.5	1545.2	1512.5	1493.7
62.5°	2615.9	2589.4	2534.3	2459.2	2339.5	2201.7	2139.7	2016.3	1919.9	1877.8	1819.4
65°	2863.6	2901.0	2916.2	2902.1	2854.2	2770.1	2696.1	2575.6	2413.9	2322.5	2208.9
66°	2850.9	2906.4	2934.4	2948.9	2931.5	2881.8	2804.2	2705.1	2580.0	2440.7	2313.4
67.5°	2758.1	2812.1	2850.9	2895.2	2895.2	2879.6	2848.0	2782.0	2693.5	2572.0	2457.8
70°	2378.7	2452.0	2520.5	2533.9	2571.7	2560.0	2585.1	2543.0	2522.0	2471.2	2409.9
72.5°	1853.1	1914.4	1973.2	2031.9	2022.1	2009.4	2006.9	2015.6	1972.8	1988.0	1972.1
75°	1232.5	1338.1	1398.3	1392.5	1396.5	1399.7	1372.9	1313.0	1359.5	1300.7	1320.3
77.5°	749.0	798.0	814.3	796.2	772.6	742.1	693.1	664.5	623.5	626.8	599.6
80°	392.8	399.0	385.9	349.3	329.3	311.2	255.4	230.3	207.1	198.4	178.8
82.5°	225.2	210.4	194.4	182.1	158.5	142.5	120.8	107.0	92.1	79.1	74.4
85°	182.4	162.5	147.6	133.8	117.9	103.7	85.6	71.5	60.6	52.6	50.8
87.5°	150.5	136.7	121.5	108.5	92.9	78.3	60.6	47.2	37.4	30.1	27.9
90°	22.2	27.1	22.1	16.3	19.9	14.8	12.3	12.6	11.9	11.9	12.3
92.5°	7.0	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1
95°	7.9	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1
97.5°	10.2	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1
100°	26.3	26.0	25.7	25.4	25.1	24.8	24.5	24.2	23.9	23.6	23.3
102.5°	47.3	47.0	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0	42.5
105°	70.2	70.0	69.5	69.0	68.5	68.0	67.5	67.0	66.5	66.0	65.5
107.5°	94.1	94.0	93.6	93.2	92.8	92.4	92.0	91.6	91.2	90.8	90.4



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**CANDELA DISTRIBUTION (continued):**

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	120.9	121.0	120.8	120.6	120.4	120.2	120.0	119.8	119.6	119.4	119.2
112.5°	149.8	150.0	149.9	149.8	149.7	149.6	149.5	149.4	149.3	149.2	149.1
115°	181.7	182.0	181.7	181.4	181.1	180.8	180.5	180.2	179.9	179.6	179.3
117.5°	214.6	215.0	214.5	214.0	213.5	213.0	212.5	212.0	211.5	211.0	210.5
120°	249.6	250.0	249.5	249.0	248.5	248.0	247.5	247.0	246.5	246.0	245.5
122.5°	282.6	283.0	282.5	282.0	281.5	281.0	280.5	280.0	279.5	279.0	278.5
125°	314.8	315.0	314.5	314.0	313.5	313.0	312.5	312.0	311.5	311.0	310.5
127.5°	345.9	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
130°	380.6	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	415.5	416.0	415.8	415.6	415.4	415.2	415.0	414.8	414.6	414.4	414.2
135°	447.5	448.0	447.9	447.8	447.7	447.6	447.5	447.4	447.3	447.2	447.1
137.5°	474.8	475.0	475.1	475.2	475.3	475.4	475.5	475.6	475.7	475.8	475.9
140°	501.8	502.0	502.2	502.4	502.6	502.8	503.0	503.2	503.4	503.6	503.8
142.5°	532.4	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
145°	561.4	562.0	561.9	561.8	561.7	561.6	561.5	561.4	561.3	561.2	561.1
147.5°	584.5	585.0	585.1	585.2	585.3	585.4	585.5	585.6	585.7	585.8	585.9
150°	599.7	600.0	600.3	600.6	600.9	601.2	601.5	601.8	602.1	602.4	602.7
152.5°	613.7	614.0	614.4	614.8	615.2	615.6	616.0	616.4	616.8	617.2	617.6
155°	630.5	631.0	631.5	632.0	632.5	633.0	633.5	634.0	634.5	635.0	635.5
157.5°	647.6	648.0	648.2	648.4	648.6	648.8	649.0	649.2	649.4	649.6	649.8
160°	663.4	664.0	663.7	663.4	663.1	662.8	662.5	662.2	661.9	661.6	661.3
162.5°	670.6	671.0	670.9	670.8	670.7	670.6	670.5	670.4	670.3	670.2	670.1
165°	676.5	677.0	677.3	677.6	677.9	678.2	678.5	678.8	679.1	679.4	679.7
167.5°	683.4	684.0	684.4	684.8	685.2	685.6	686.0	686.4	686.8	687.2	687.6
170°	688.7	689.0	689.5	690.0	690.5	691.0	691.5	692.0	692.5	693.0	693.5
172.5°	691.7	692.0	692.2	692.4	692.6	692.8	693.0	693.2	693.4	693.6	693.8
175°	694.5	695.0	695.1	695.2	695.3	695.4	695.5	695.6	695.7	695.8	695.9
177.5°	698.5	699.0	699.2	699.4	699.6	699.8	700.0	700.2	700.4	700.6	700.8
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):**

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2
2.5°	504.9	504.9	505.6	506.4	506.7	506.7	506.7	507.4	507.8	506.7	507.8
5°	498.7	500.5	502.0	503.1	503.4	504.5	505.6	506.4	507.4	507.4	508.2
7.5°	490.4	493.7	495.5	497.3	499.1	500.9	503.1	504.5	505.3	506.7	507.8
10°	479.9	483.9	487.5	490.4	492.9	496.6	499.5	501.6	504.9	505.3	507.8
12.5°	468.6	474.4	477.3	482.8	486.4	491.8	494.7	498.0	501.6	503.4	506.4
15°	460.6	465.7	471.2	476.2	482.0	488.6	492.2	496.6	501.6	505.6	509.3
17.5°	454.5	461.4	467.5	474.1	481.3	488.2	493.7	498.4	504.9	507.1	510.7
20°	452.7	460.3	466.5	473.3	481.0	490.0	496.6	501.6	508.2	511.8	515.1
22.5°	451.9	459.2	466.5	474.8	483.1	492.6	499.5	506.0	512.5	515.8	518.3
25°	451.2	458.8	466.8	476.2	485.3	495.1	503.1	509.3	515.4	518.7	520.9
27.5°	451.2	459.2	467.9	477.3	487.1	498.0	505.6	511.4	516.9	519.8	520.5
30°	450.9	459.2	467.5	478.1	488.6	499.8	508.2	513.6	518.3	520.1	519.4
32.5°	451.6	460.3	469.4	479.9	490.8	501.6	510.3	516.5	519.0	518.7	518.3
35°	455.2	463.2	473.7	484.2	495.5	505.6	514.0	518.3	520.5	519.8	518.0
37.5°	465.0	473.0	483.5	495.1	503.8	515.4	523.0	526.3	526.7	524.5	520.1
40°	485.3	493.3	502.7	515.4	525.9	533.9	541.2	544.8	542.6	538.6	533.9
42.5°	517.6	527.8	539.0	549.2	561.5	572.4	574.2	576.4	572.7	565.1	559.3
45°	569.5	575.6	590.1	597.8	613.7	619.2	623.1	624.2	616.3	610.1	599.9
47.5°	644.2	656.2	666.3	673.6	685.2	692.4	700.4	696.8	690.6	680.1	666.7
50°	761.7	769.3	782.4	795.4	807.8	812.8	812.8	809.2	805.2	784.9	768.6
52.5°	906.1	906.8	925.6	941.2	951.8	944.1	953.2	944.1	941.6	927.5	914.0
55°	1073.3	1066.4	1089.2	1103.0	1112.4	1121.5	1119.7	1118.6	1109.2	1093.2	1076.9
57.5°	1232.1	1252.1	1263.0	1283.3	1288.0	1294.2	1291.6	1288.0	1282.6	1273.5	1266.2
60°	1461.4	1474.8	1484.6	1488.6	1502.0	1503.8	1512.9	1498.0	1501.6	1491.1	1468.3
62.5°	1773.3	1758.8	1766.4	1766.4	1762.4	1748.3	1755.9	1761.7	1751.9	1743.2	1739.6
65°	2122.6	2075.8	2030.8	2023.2	2002.6	1997.8	1992.0	1977.5	1971.4	1956.1	1943.8
66°	2227.1	2154.5	2112.1	2086.0	2060.9	2055.5	2047.5	2032.3	2020.0	1998.6	1977.9
67.5°	2344.2	2250.6	2186.8	2149.8	2119.0	2098.7	2082.7	2060.9	2041.4	2009.4	1976.4
70°	2336.6	2259.4	2182.5	2126.2	2079.8	2038.1	2013.4	1966.6	1926.7	1881.0	1843.3
72.5°	1963.4	1949.6	1905.0	1873.4	1816.5	1794.4	1729.1	1699.3	1644.2	1585.1	1566.9
75°	1364.9	1310.9	1288.0	1275.3	1250.3	1181.4	1136.4	1146.2	1081.6	1023.9	990.9
77.5°	596.7	607.5	544.4	516.1	494.4	457.0	422.2	398.3	384.5	375.4	334.4
80°	165.0	144.0	142.2	132.0	129.9	115.7	117.5	107.4	100.5	99.0	95.8
82.5°	72.2	70.7	68.6	67.5	66.4	64.9	63.1	62.7	60.6	58.8	59.1
85°	47.9	47.5	46.4	45.3	43.5	41.0	39.2	37.7	38.1	36.3	35.9
87.5°	27.9	27.2	26.8	25.4	25.0	22.9	23.2	21.4	21.0	20.7	19.6
90°	13.0	13.2	14.0	13.5	11.8	14.9	13.6	12.7	12.8	11.6	11.4
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°	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.0
100°	23.0	22.6	22.2	21.8	21.4	21.0	20.6	20.2	19.8	19.4	19.0
102.5°	42.0	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.6	39.3	39.0
105°	65.0	64.6	64.2	63.8	63.4	63.0	62.6	62.2	61.8	61.4	61.0
107.5°	90.0	89.7	89.4	89.1	88.8	88.5	88.2	87.9	87.6	87.3	87.0



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	119.0	118.7	118.4	118.1	117.8	117.5	117.2	116.9	116.6	116.3	116.0	0°
112.5°	149.0	148.8	148.6	148.4	148.2	148.0	147.8	147.6	147.4	147.2	147.0	2.5°
115°	179.0	178.8	178.6	178.4	178.2	178.0	177.8	177.6	177.4	177.2	177.0	5°
117.5°	210.0	209.8	209.6	209.4	209.2	209.0	208.8	208.6	208.4	208.2	208.0	7.5°
120°	245.0	244.8	244.6	244.4	244.2	244.0	243.8	243.6	243.4	243.2	243.0	10°
122.5°	278.0	277.8	277.6	277.4	277.2	277.0	276.8	276.6	276.4	276.2	276.0	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°	346.0	345.9	345.8	345.7	345.6	345.5	345.4	345.3	345.2	345.1	345.0	17.5°
130°	381.0	380.8	380.6	380.4	380.2	380.0	379.8	379.6	379.4	379.2	379.0	20°
132.5°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	22.5°
135°	447.0	447.3	447.6	447.9	448.2	448.5	448.8	449.1	449.4	449.7	450.0	25°
137.5°	476.0	476.5	477.0	477.5	478.0	478.5	479.0	479.5	480.0	480.5	481.0	27.5°
140°	504.0	504.5	505.0	505.5	506.0	506.5	507.0	507.5	508.0	508.5	509.0	30°
142.5°	533.0	533.1	533.2	533.3	533.4	533.5	533.6	533.7	533.8	533.9	534.0	32.5°
145°	561.0	560.7	560.4	560.1	559.8	559.5	559.2	558.9	558.6	558.3	558.0	35°
147.5°	586.0	585.7	585.4	585.1	584.8	584.5	584.2	583.9	583.6	583.3	583.0	37.5°
150°	603.0	603.3	603.6	603.9	604.2	604.5	604.8	605.1	605.4	605.7	606.0	40°
152.5°	618.0	618.5	619.0	619.5	620.0	620.5	621.0	621.5	622.0	622.5	623.0	42.5°
155°	636.0	636.2	636.4	636.6	636.8	637.0	637.2	637.4	637.6	637.8	638.0	45°
157.5°	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	47.5°
160°	661.0	660.9	660.8	660.7	660.6	660.5	660.4	660.3	660.2	660.1	660.0	50°
162.5°	670.0	669.8	669.6	669.4	669.2	669.0	668.8	668.6	668.4	668.2	668.0	52.5°
165°	680.0	679.8	679.6	679.4	679.2	679.0	678.8	678.6	678.4	678.2	678.0	55°
167.5°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	57.5°
170°	694.0	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	60°
172.5°	694.0	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	62.5°
175°	696.0	695.8	695.6	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	65°
177.5°	701.0	700.7	700.4	700.1	699.8	699.5	699.2	698.9	698.6	698.3	698.0	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°

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 NUMBER: IST-AF-350-LED-E1-SL2-7060-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	86°	
508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	110°	116.2
508.9	509.6	510.0	509.6	510.3	510.0	510.3	510.0	508.2	507.8	507.4	112.5°	147.0
509.6	511.1	511.4	511.8	511.1	511.8	510.3	504.5	498.0	490.8	485.0	115°	177.2
510.3	512.2	513.2	513.2	513.6	512.9	507.4	494.7	479.5	464.3	452.7	117.5°	208.2
510.0	512.5	513.6	514.0	514.0	512.5	499.5	479.1	455.9	432.7	409.1	120°	243.0
508.9	511.1	512.9	512.9	513.2	508.2	487.9	458.8	425.8	391.0	359.5	122.5°	276.2
511.1	513.2	513.2	513.2	512.9	504.2	475.5	433.4	389.2	342.0	295.3	125°	310.0
514.3	515.4	514.7	514.7	513.2	500.2	461.7	408.4	350.4	288.0	222.7	127.5°	345.4
517.2	518.0	517.6	515.8	514.0	495.8	447.6	381.9	304.0	222.7	157.8	130°	379.2
520.1	520.9	519.0	516.1	513.6	490.0	430.5	348.2	251.4	152.3	104.5	132.5°	414.2
520.5	521.2	518.0	514.0	510.3	481.3	409.9	312.3	193.7	98.7	81.6	135°	450.2
520.1	519.4	514.0	508.9	504.9	470.8	387.0	267.7	129.1	74.4	71.1	137.5°	481.2
517.6	514.3	510.0	504.2	498.4	459.2	364.2	218.0	81.6	64.6	64.6	140°	509.4
514.0	510.7	505.3	497.6	491.1	448.0	338.1	167.2	65.3	59.5	60.2	142.5°	534.4
512.5	508.9	500.9	492.9	484.6	437.8	310.5	112.4	58.8	56.2	56.6	145°	558.4
515.4	509.3	501.3	492.2	482.4	429.1	281.8	78.3	55.5	52.6	53.3	147.5°	583.4
525.2	519.4	510.0	498.4	487.9	424.0	251.4	64.9	52.2	49.7	49.7	150°	606.8
548.8	541.2	528.5	514.7	502.0	427.3	224.2	59.1	49.7	47.2	47.2	152.5°	624.0
586.9	577.8	562.9	547.3	530.7	443.2	193.3	56.9	47.9	44.3	43.5	155°	638.6
652.2	640.2	620.6	602.1	582.2	470.8	162.1	55.5	45.7	42.4	41.0	157.5°	651.0
754.8	737.0	713.8	689.5	665.2	521.2	137.5	54.0	44.3	41.0	39.5	160°	661.2
886.8	874.9	845.9	813.9	784.9	621.7	123.3	53.0	43.2	39.2	38.1	162.5°	669.2
1055.1	1035.6	1012.7	984.0	949.6	751.9	121.9	52.6	42.1	37.7	37.0	165°	678.8
1232.9	1225.3	1186.4	1168.7	1131.3	925.3	148.4	53.3	41.3	36.6	35.5	167.5°	689.2
1435.6	1438.5	1402.3	1382.7	1351.8	1145.1	236.1	55.5	41.3	35.5	34.5	170°	697.0
1700.8	1705.5	1662.7	1639.5	1613.4	1391.4	371.1	59.1	42.4	34.5	33.4	172.5°	697.0
1918.0	1892.6	1865.1	1824.5	1791.5	1528.8	357.3	65.7	43.9	33.4	32.3	175°	695.0
1940.5	1922.4	1887.6	1843.7	1803.4	1529.6	311.9	67.8	44.3	33.0	31.9	177.5°	698.8
1937.6	1905.3	1865.8	1828.8	1789.3	1490.4	241.2	70.7	45.3	32.3	31.2	180°	700.0
1803.4	1758.1	1719.6	1668.5	1627.1	1333.7	148.4	70.4	43.9	30.1	29.4		
1487.1	1463.9	1418.2	1377.2	1334.1	1079.4	101.6	62.7	38.8	27.2	27.6		
961.9	935.4	889.0	865.8	841.5	690.6	79.1	51.1	33.0	24.3	25.4		
321.0	310.5	293.4	302.9	288.7	269.1	58.0	38.8	26.5	21.0	22.5		
96.1	93.9	97.2	91.4	96.8	82.0	38.1	27.2	20.3	18.1	19.9		
56.9	56.2	56.2	56.2	54.8	51.1	25.0	18.9	15.6	15.2	16.7		
34.8	34.1	34.5	34.1	34.8	31.2	17.0	13.1	11.6	11.2	13.4		
19.9	19.9	20.3	19.6	19.9	19.2	12.0	8.3	7.6	7.3	9.8		
11.7	11.7	10.6	10.3	10.6	12.1	12.3	11.5	9.2	8.8	11.3		
6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0		
8.0	8.0	8.0	8.0	8.0	8.0	9.0	10.0	12.0	9.0	9.0		
19.0	19.0	19.0	19.0	19.0	19.0	23.0	26.0	29.0	21.0	12.0		
38.8	38.6	38.4	38.2	38.0	39.0	42.0	47.0	50.0	40.0	27.0		
61.0	61.0	61.0	61.0	61.0	61.0	65.0	70.0	72.0	63.0	48.0		
86.8	86.6	86.4	86.2	86.0	87.0	90.0	94.0	95.0	88.0	73.0		

'226832  
 IST-AF-350-LED-E1-SL2-7060-ULG

REPORT NUMBER: P226832  
 CATALOG NUMBER: IST-AF-350

**TION (continued):**

**CANDELA DISTRIBUTION (con**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
116.4	116.6	116.8	117.0	116.0	119.0	121.0	120.0	114.0	102.0	0°	508.2	508.2
147.0	147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	2.5°	504.5	502.0
177.4	177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	5°	475.9	469.0
208.4	208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	7.5°	434.5	426.6
243.0	243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	10°	387.4	375.4
276.4	276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	12.5°	327.2	303.6
310.0	310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	15°	257.5	226.0
345.8	346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	17.5°	177.4	152.0
379.4	379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	20°	124.4	115.0
414.4	414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	22.5°	96.1	96.5
450.4	450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	25°	79.8	83.4
481.4	481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	27.5°	70.4	74.0
509.8	510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	30°	64.6	67.8
534.8	535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	32.5°	60.6	62.0
558.8	559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	35°	55.9	56.6
583.8	584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	37.5°	51.9	51.9
607.6	608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	40°	48.2	47.9
625.0	626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	42.5°	45.0	44.6
639.2	639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	45°	41.7	42.1
652.0	653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	47.5°	39.9	40.3
662.4	663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	50°	38.1	38.4
670.4	671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	52.5°	36.6	36.6
679.6	680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	55°	35.2	34.8
690.4	691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	57.5°	34.1	33.4
698.0	699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	60°	33.0	32.3
698.0	699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	62.5°	32.3	31.2
696.0	697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	65°	31.6	30.8
699.6	700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	66°	31.2	30.5
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	30.8	30.1
										70°	29.4	28.7
										72.5°	27.2	26.8
										75°	25.0	24.3
										77.5°	22.1	21.8
										80°	18.9	18.5
										82.5°	16.0	15.2
										85°	12.7	12.0
										87.5°	8.7	8.0
										90°	10.2	9.5
										92.5°	6.0	5.0
										95°	7.0	6.0
										97.5°	8.0	8.0
										100°	10.0	9.0
										102.5°	18.0	13.0
										105°	36.0	27.0
										107.5°	58.0	49.0



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**tinued):**

175°	180°
508.2	508.2
499.8	503.1
466.8	465.7
420.0	420.4
363.4	364.2
290.2	285.8
207.8	209.6
144.7	144.4
116.1	116.8
99.4	99.4
88.5	88.5
78.0	78.3
70.7	71.5
64.2	64.6
57.7	58.0
52.2	52.2
48.6	49.0
46.1	46.1
43.5	43.5
41.3	42.1
39.2	39.5
37.0	37.4
34.8	34.8
33.0	33.0
31.6	31.2
30.5	29.7
29.4	29.0
29.0	28.7
28.7	28.3
27.9	27.6
26.8	26.5
24.7	23.9
22.5	21.8
20.7	19.6
17.4	16.7
12.7	12.0
7.6	7.6
6.8	6.8
4.0	4.0
5.0	5.0
7.0	7.0
8.0	8.0
11.0	11.0
22.0	21.0
42.0	41.0

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°
110°	87.0	74.0	68.0
112.5°	121.0	106.0	99.0
115°	159.0	147.0	139.0
117.5°	197.0	189.0	184.0
120°	233.0	226.0	223.0
122.5°	267.0	261.0	260.0
125°	299.0	296.0	294.0
127.5°	333.0	329.0	329.0
130°	366.0	362.0	361.0
132.5°	401.0	393.0	394.0
135°	432.0	426.0	426.0
137.5°	460.0	459.0	457.0
140°	489.0	487.0	485.0
142.5°	518.0	517.0	515.0
145°	547.0	544.0	546.0
147.5°	574.0	571.0	572.0
150°	593.0	593.0	592.0
152.5°	609.0	608.0	608.0
155°	627.0	625.0	625.0
157.5°	644.0	643.0	643.0
160°	656.0	659.0	660.0
162.5°	665.0	669.0	669.0
165°	676.0	676.0	678.0
167.5°	686.0	684.0	687.0
170°	692.0	692.0	695.0
172.5°	693.0	695.0	697.0
175°	695.0	697.0	698.0
177.5°	699.0	700.0	705.0
180°	700.0	700.0	700.0



İL2-7060-ULG

180°
66.0
99.0
140.0
184.0
225.0
263.0
298.0
330.0
363.0
396.0
429.0
460.0
488.0
518.0
550.0
575.0
595.0
611.0
629.0
646.0
663.0
673.0
681.0
690.0
698.0
699.0
700.0
707.0
700.0

(END OF REPORT)