

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: P271693

Luminaire Tested: **IST-AF-350-LED-E1-SL3-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271693
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-SL3-7027-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) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3759.7 lumens
Efficiency: N/A
Efficacy: 102.2 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

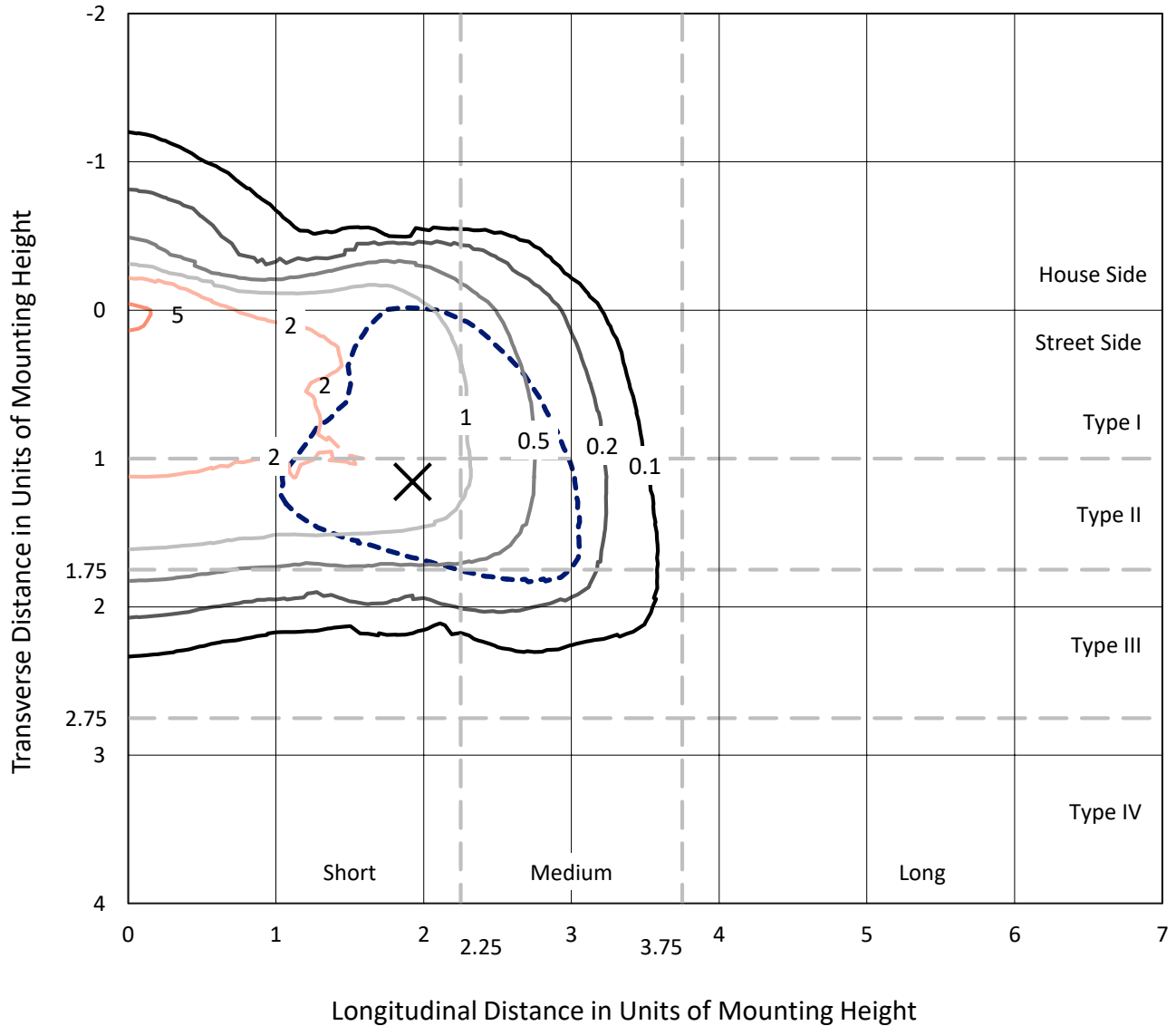
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

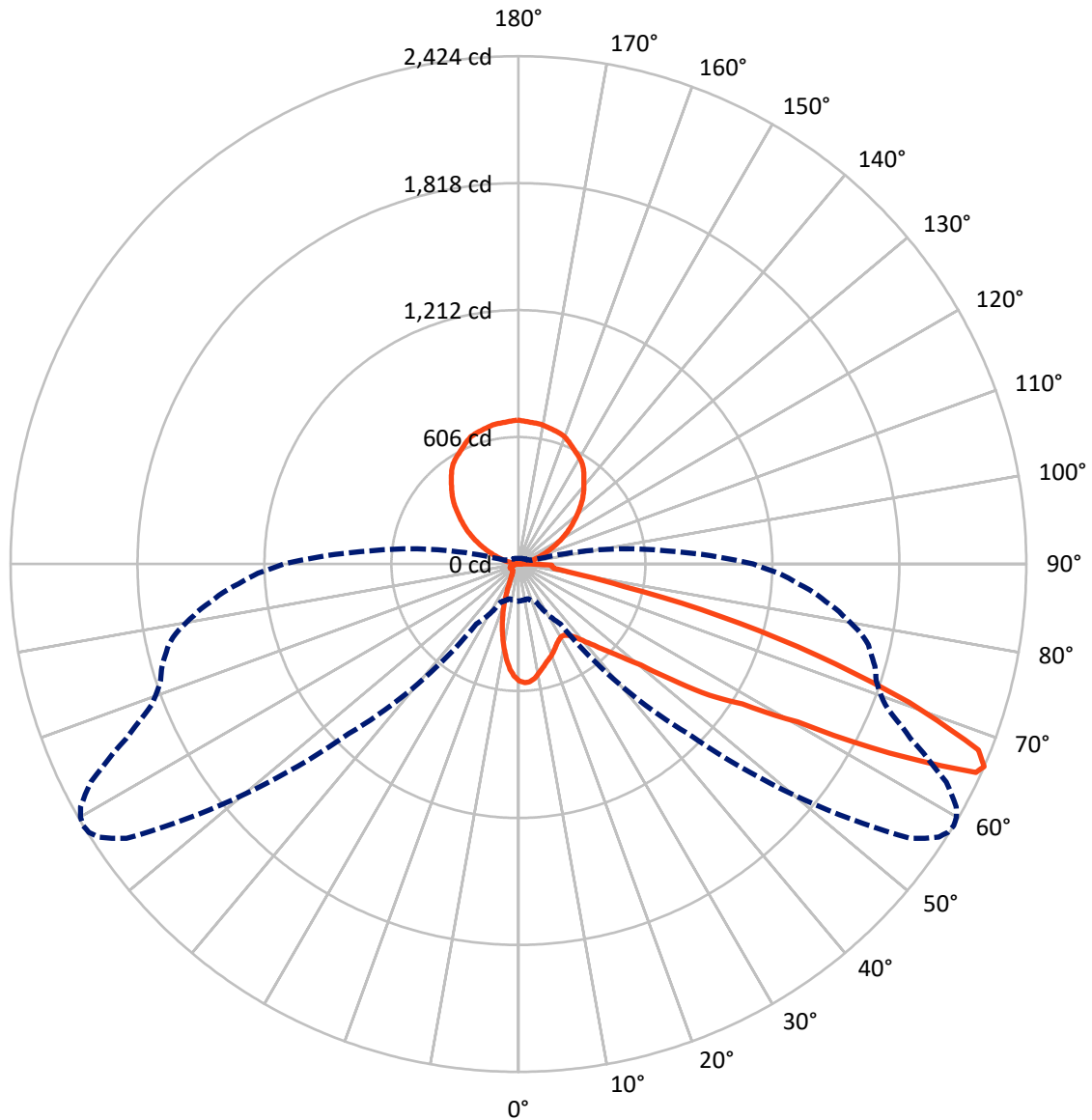
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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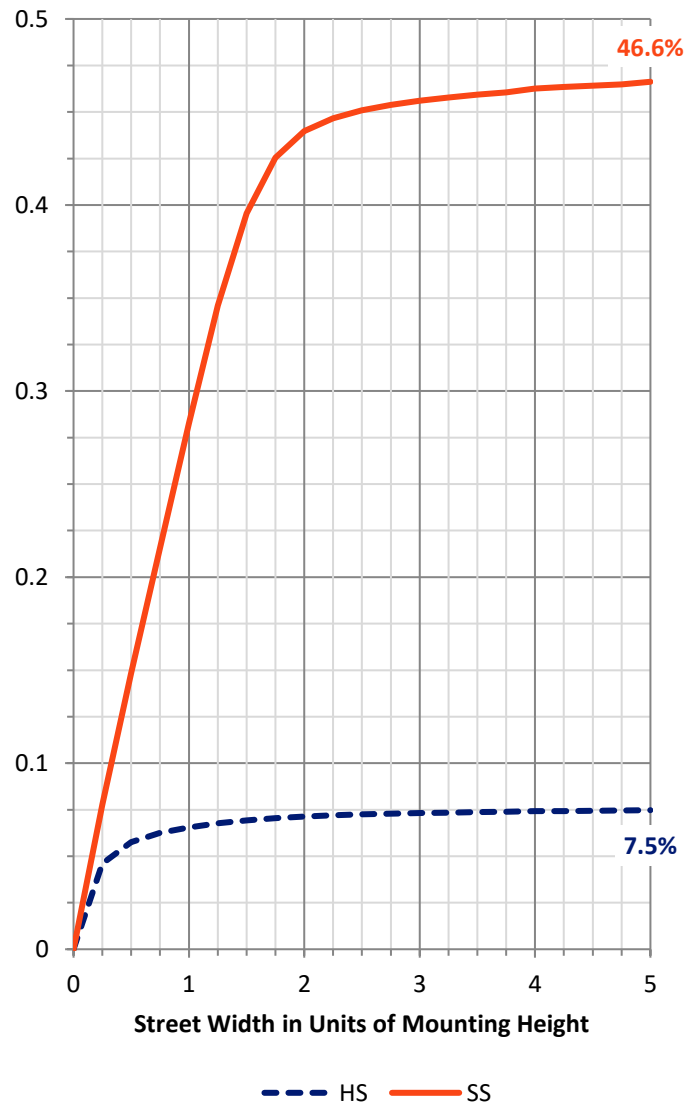
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	285.7	851.6	1137.3
	% Fixture	7.6	22.7	30.3
Street Side	Lumens	1770.1	852.2	2622.4
	% Fixture	47.1	22.7	69.7
Total	Lumens	2055.8	1703.9	3759.7
	% Fixture	54.7	45.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	1.3
10°-20°	100.6	2.7
20°-30°	126.1	3.4
30°-40°	172.6	4.6
40°-50°	277.6	7.4
50°-60°	482.4	12.8
60°-70°	586.2	15.6
70°-80°	218.7	5.8
80°-90°	44.0	1.2
90°-100°	9.9	0.3
100°-110°	56.3	1.5
110°-120°	163.0	4.3
120°-130°	268.1	7.1
130°-140°	330.6	8.8
140°-150°	338.2	9.0
150°-160°	284.9	7.6
160°-170°	187.6	5.0
170°-180°	65.0	1.7
0°-90°	2055.8	54.7
0°-180°	3759.7	100.0



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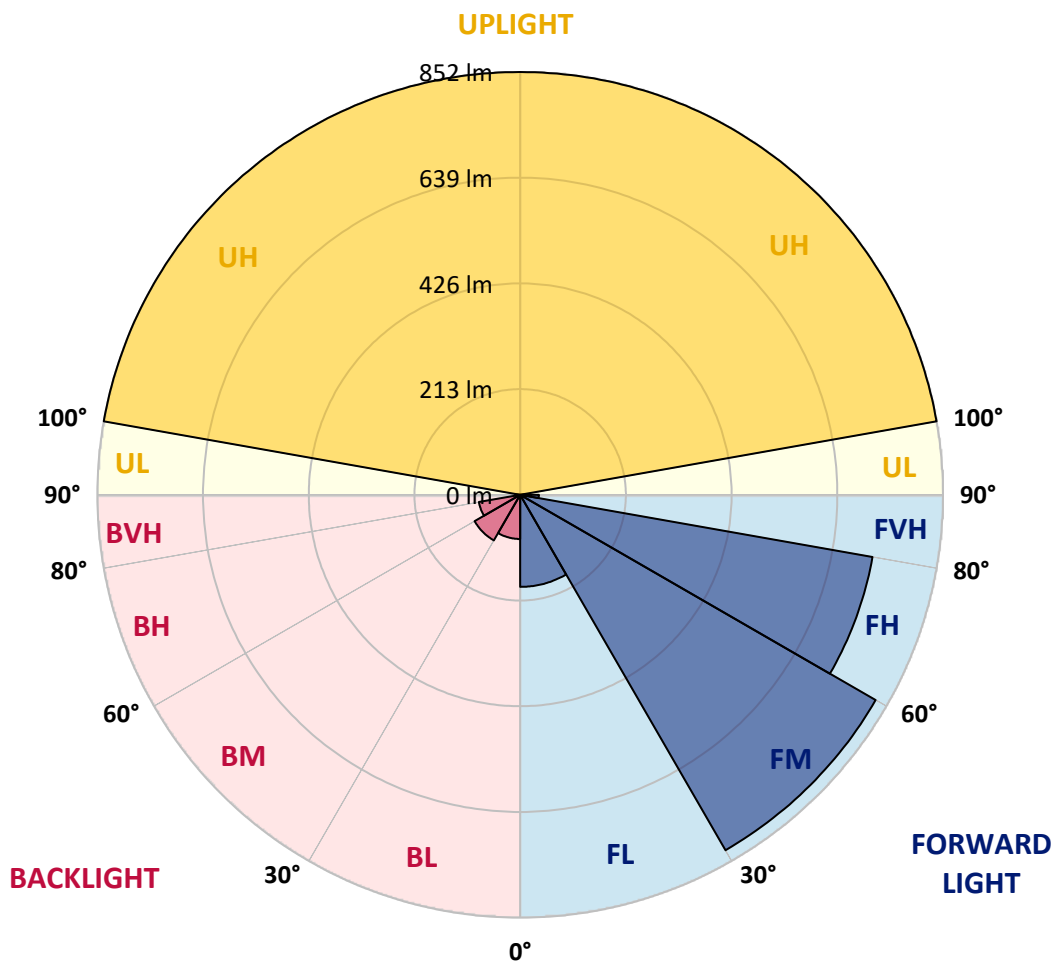
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.4	4.9			
FM (30°-60°)	826.6	22.0			
FH (60°-80°)	720.5	19.2			G1/1800
FVH (80°-90°)	37.6	1.0			G1/100
BL (0°-30°)	88.9	2.4	B0/110		
BM (30°-60°)	106.0	2.8	B0/220		
BH (60°-80°)	84.3	2.2	B0/110		G0/110
BVH (80°-90°)	6.4	0.2			G0/10
UL (90°-100°)	9.9	0.3		U1/10	
UH (100°-180°)	851.6	22.7		U4/1000	

BUG Rating: B0-U5-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5
2.5°	573.0	571.1	574.6	573.3	574.3	569.5	568.5	567.5	568.3	567.3	567.3
5°	559.5	558.5	562.6	564.8	566.7	566.0	565.8	565.8	566.0	563.9	564.1
7.5°	519.7	519.1	524.8	528.8	537.9	543.4	550.3	550.6	551.2	550.3	552.2
10°	477.4	479.3	484.5	491.0	504.6	512.8	526.0	528.6	529.6	529.8	530.1
12.5°	437.1	435.3	441.6	454.1	472.4	485.6	502.4	503.6	505.2	507.5	509.6
15°	401.3	403.4	408.5	421.8	440.9	459.6	481.2	482.5	485.6	487.6	490.7
17.5°	376.6	376.6	382.3	394.5	412.5	436.1	463.6	465.8	468.4	470.8	474.3
20°	364.4	364.4	366.6	373.8	389.5	412.2	445.3	447.9	452.3	455.1	459.8
22.5°	363.4	363.1	362.7	364.4	373.8	391.4	425.8	429.3	433.1	437.5	441.6
25°	373.4	374.4	370.6	368.1	369.0	377.3	407.2	409.1	416.4	419.1	424.2
27.5°	388.0	389.5	386.5	382.6	377.0	371.6	391.4	394.5	399.4	404.1	410.3
30°	408.8	408.5	408.1	405.7	394.5	377.8	386.7	389.0	393.0	396.8	402.1
32.5°	431.2	433.7	435.6	434.3	422.9	394.5	393.4	395.3	398.9	401.3	404.7
35°	460.1	461.4	468.6	468.6	457.2	424.4	412.0	413.5	415.4	416.4	418.9
37.5°	492.0	496.4	507.1	513.4	495.8	461.7	441.2	441.2	442.1	442.9	444.4
40°	528.8	535.2	549.9	561.9	550.6	508.0	479.6	482.5	481.6	480.3	483.7
42.5°	571.7	578.7	596.7	608.0	601.3	563.9	531.3	529.6	532.3	528.6	529.8
45°	621.4	626.8	645.2	657.1	662.5	632.2	599.1	595.4	595.4	587.1	590.6
47.5°	666.3	667.8	685.5	706.6	723.9	724.6	678.0	675.3	669.3	664.0	662.8
50°	707.9	712.5	723.9	746.9	783.2	814.8	786.4	778.5	771.8	752.0	758.0
52.5°	780.1	789.3	796.4	810.3	853.2	917.1	952.1	939.9	938.3	920.3	916.2
55°	793.7	794.6	818.4	898.6	999.5	1045.4	1112.6	1112.2	1117.2	1111.7	1106.3
57.5°	730.0	722.3	762.4	867.9	1070.6	1307.0	1286.6	1288.7	1282.2	1264.7	1259.4
60°	568.5	574.8	618.0	752.6	1019.3	1475.9	1611.1	1571.1	1599.8	1554.8	1530.4
62.5°	319.9	312.6	342.0	483.5	836.1	1484.8	2053.3	2057.7	2071.6	2046.4	1987.1
65°	206.4	203.3	200.4	244.6	501.2	1298.8	2297.9	2352.1	2384.6	2397.8	2398.7
66°	177.4	174.9	171.5	200.1	349.2	1144.4	2282.1	2340.2	2391.7	2416.4	2423.6
67.5°	150.9	147.2	146.5	165.7	243.0	887.9	2131.8	2222.9	2268.6	2332.2	2366.9
70°	115.3	113.5	119.1	143.1	186.6	417.9	1698.8	1817.6	1896.3	1946.2	1978.2
72.5°	96.7	96.1	104.0	130.8	176.8	237.1	1189.2	1316.7	1399.0	1446.6	1490.7
75°	75.6	76.3	86.7	124.9	175.9	206.4	690.9	812.4	860.4	935.5	992.8
77.5°	56.8	56.1	64.3	100.9	171.5	209.2	359.0	409.4	462.1	500.2	514.0
80°	39.7	40.3	46.0	69.3	133.7	215.2	223.8	235.4	246.4	258.7	261.2
82.5°	26.5	26.8	34.0	47.6	92.6	205.5	208.9	203.6	195.1	184.4	172.7
85°	16.1	16.7	24.3	32.2	71.9	185.9	216.2	202.0	189.1	174.9	160.8
87.5°	8.2	9.2	14.6	19.0	42.6	91.6	225.0	214.7	197.0	175.2	159.4
90°	7.1	7.1	10.0	12.6	16.3	25.4	63.6	58.1	32.8	56.1	31.6
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	7.0	7.1	7.2	7.3
97.5°	6.8	6.8	7.8	7.8	8.8	8.8	11.8	11.6	11.4	11.2	11.0
100°	7.8	7.8	8.8	9.8	11.8	20.6	28.5	28.2	27.8	27.6	27.3
102.5°	10.8	10.8	12.8	17.7	26.5	39.3	49.0	48.8	48.5	48.1	47.9
105°	20.6	21.6	26.5	35.3	47.1	61.8	70.7	70.4	70.2	70.1	69.9
107.5°	40.2	41.2	48.1	57.0	71.7	86.3	93.2	93.2	93.1	93.0	92.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	64.8	66.7	72.7	85.4	100.1	111.9	117.8	117.9	117.9	118.0	118.1
112.5°	97.2	97.2	104.0	118.8	131.5	140.3	145.3	145.4	145.6	145.9	146.1
115°	137.4	136.5	144.3	156.0	164.9	170.8	175.7	176.0	176.2	176.6	176.9
117.5°	180.6	180.6	185.5	193.3	198.3	201.2	207.1	207.5	207.9	208.2	208.7
120°	220.8	218.8	221.8	228.7	232.6	238.5	241.5	241.8	242.3	242.6	243.0
122.5°	258.2	255.2	256.2	262.0	266.0	271.8	273.8	274.3	274.6	275.0	275.4
125°	292.5	288.5	290.5	293.5	299.3	304.3	307.2	307.4	307.6	307.8	308.0
127.5°	323.9	322.9	322.9	326.8	332.7	333.7	338.6	338.8	338.8	338.9	339.0
130°	356.3	354.3	355.3	359.2	363.2	365.1	370.0	370.4	370.8	371.2	371.6
132.5°	388.7	386.7	385.7	393.5	396.5	397.5	403.4	403.9	404.3	404.9	405.3
135°	421.0	418.1	418.1	424.0	427.0	428.9	434.8	435.3	435.8	436.3	436.8
137.5°	451.5	448.5	450.5	451.5	455.4	459.3	464.2	464.4	464.6	464.9	465.1
140°	479.0	476.0	478.0	480.0	481.9	487.8	490.7	490.9	491.1	491.4	491.6
142.5°	508.4	505.5	507.5	508.4	511.3	515.3	517.2	517.9	518.4	519.0	519.6
145°	539.8	535.9	534.0	536.8	539.8	540.8	545.7	546.3	546.9	547.4	548.1
147.5°	564.3	561.4	560.5	563.3	563.3	564.3	569.3	569.7	570.2	570.7	571.2
150°	584.0	581.0	582.0	582.0	582.0	582.0	586.0	586.2	586.5	586.9	587.1
152.5°	599.7	596.7	596.7	597.7	598.7	598.7	599.7	600.0	600.2	600.6	600.9
155°	617.3	613.5	613.5	615.4	618.3	616.3	614.4	614.9	615.4	615.9	616.3
157.5°	634.0	631.1	631.1	632.0	634.0	633.0	632.0	632.5	632.9	633.2	633.7
160°	650.7	647.8	646.8	643.8	642.8	642.8	645.8	646.4	647.0	647.6	648.1
162.5°	660.5	656.6	656.6	652.7	648.8	650.7	654.7	655.0	655.4	655.9	656.2
165°	668.4	665.5	663.5	663.5	660.5	660.5	659.5	660.1	660.5	661.1	661.5
167.5°	677.2	674.3	671.3	673.3	675.3	672.3	665.5	666.0	666.6	667.2	667.8
170°	685.0	682.2	679.2	679.2	680.2	678.2	673.3	673.5	673.9	674.2	674.4
172.5°	686.0	684.1	682.2	680.2	677.2	677.2	676.2	676.5	676.9	677.1	677.4
175°	687.0	685.0	684.1	682.2	678.2	677.2	677.2	677.7	678.2	678.7	679.2
177.5°	693.9	692.0	687.0	686.0	684.1	682.2	681.2	681.6	682.2	682.6	683.1
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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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5
2.5°	567.0	567.5	567.0	566.0	567.0	566.0	565.8	565.4	565.8	565.1	564.8
5°	564.1	564.8	564.8	562.9	562.6	563.9	561.9	562.6	561.9	561.4	560.0
7.5°	550.6	550.9	551.2	549.9	550.9	550.9	550.3	550.3	549.7	549.9	548.8
10°	531.7	533.0	534.2	533.5	533.2	536.1	534.9	535.7	535.7	534.9	535.2
12.5°	511.1	513.4	515.0	515.0	516.3	519.4	519.1	519.7	522.3	522.3	521.3
15°	492.3	494.4	497.0	498.9	501.4	503.6	505.2	507.7	509.0	509.0	510.6
17.5°	477.4	480.6	483.5	484.5	487.9	491.6	492.6	495.8	497.6	498.6	500.4
20°	463.0	466.4	469.9	473.0	476.2	480.6	482.7	484.7	487.9	489.8	492.6
22.5°	446.0	451.3	455.7	459.6	464.9	468.6	473.0	476.2	480.1	482.7	485.1
25°	429.9	437.1	443.1	446.9	454.1	459.6	464.9	469.6	474.3	478.4	481.6
27.5°	415.1	423.3	430.5	436.5	444.4	452.8	458.2	466.1	472.4	478.1	481.9
30°	407.8	414.7	422.3	429.3	437.1	447.9	456.7	466.8	474.7	481.9	487.6
32.5°	409.4	415.6	422.3	428.3	436.5	448.4	457.7	469.3	481.0	490.5	497.6
35°	422.0	427.8	432.1	437.5	444.8	453.8	463.6	475.9	490.5	503.1	512.4
37.5°	448.4	450.1	454.5	458.6	462.4	470.8	480.1	490.5	507.1	520.4	533.5
40°	481.2	485.4	489.5	491.4	495.8	501.2	505.2	516.3	531.1	548.3	562.9
42.5°	530.1	531.7	532.3	533.0	534.5	538.4	544.4	554.3	568.9	584.3	600.3
45°	585.0	586.9	588.7	589.6	587.5	589.6	595.9	600.7	614.9	629.4	649.8
47.5°	661.0	655.2	652.3	656.2	654.2	659.0	661.8	664.7	681.7	699.0	716.4
50°	758.3	754.8	750.4	750.7	754.1	751.1	752.9	763.3	768.9	783.5	806.5
52.5°	913.9	903.2	886.5	879.4	883.4	880.9	881.9	884.0	880.2	893.8	913.4
55°	1106.3	1092.4	1081.3	1075.0	1051.7	1049.8	1034.4	1028.6	1016.4	1029.4	1025.0
57.5°	1243.3	1234.5	1228.8	1209.9	1199.1	1177.8	1171.5	1163.9	1146.9	1155.4	1162.9
60°	1508.1	1476.5	1465.9	1432.8	1421.7	1401.3	1375.0	1362.2	1353.4	1361.5	1356.5
62.5°	1950.0	1906.1	1897.6	1819.2	1799.9	1752.6	1703.5	1696.9	1669.1	1651.8	1647.7
65°	2381.4	2318.6	2271.7	2185.9	2128.1	2060.5	1985.5	1930.6	1874.3	1845.9	1808.5
66°	2413.6	2388.6	2341.4	2291.3	2206.8	2133.0	2048.0	1988.7	1925.3	1875.5	1843.4
67.5°	2358.7	2345.5	2328.8	2294.7	2241.8	2173.1	2092.4	2016.8	1940.5	1881.9	1830.5
70°	1993.8	2008.3	2027.1	2018.3	1988.1	1961.3	1890.0	1847.8	1790.4	1713.6	1682.1
72.5°	1504.9	1543.6	1530.4	1480.7	1457.3	1438.7	1412.9	1384.6	1302.3	1292.8	1255.7
75°	968.2	955.3	963.8	903.2	861.9	844.9	783.5	758.3	696.5	656.5	625.8
77.5°	510.2	485.1	465.5	412.2	374.1	351.8	321.9	286.5	232.3	229.1	179.6
80°	236.7	217.5	199.9	181.2	162.6	138.0	119.7	97.6	86.3	74.1	69.0
82.5°	160.8	148.4	137.7	125.4	111.3	94.2	81.3	69.0	58.9	52.9	48.1
85°	145.6	132.4	120.5	104.9	90.1	76.0	62.2	51.3	42.0	36.5	33.3
87.5°	141.6	125.1	112.5	95.8	81.3	66.8	53.6	41.6	32.5	26.5	22.6
90°	25.8	27.3	22.1	21.6	14.4	16.1	14.2	11.9	12.3	11.4	11.7
92.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.6	6.6	6.5	6.4
95°	7.4	7.5	7.5	7.6	7.7	7.8	7.7	7.6	7.5	7.5	7.4
97.5°	10.8	10.6	10.4	10.2	10.0	9.8	9.7	9.6	9.5	9.4	9.3
100°	26.9	26.7	26.4	26.1	25.8	25.5	25.2	25.0	24.6	24.3	24.1
102.5°	47.6	47.3	47.0	46.7	46.4	46.2	45.6	45.2	44.6	44.2	43.7
105°	69.7	69.5	69.3	69.1	68.9	68.7	68.2	67.7	67.2	66.7	66.3
107.5°	92.7	92.6	92.5	92.4	92.3	92.3	91.9	91.4	91.1	90.7	90.3



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CATALOG NUMBER: IST-AF-350-LED-E1-SL3-7027-ULG

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	118.3	118.4	118.5	118.6	118.7	118.8	118.6	118.4	118.1	117.9	117.8
112.5°	146.2	146.4	146.6	146.9	147.1	147.2	147.1	147.1	147.0	146.9	146.7
115°	177.1	177.4	177.8	178.0	178.3	178.7	178.3	178.0	177.8	177.4	177.1
117.5°	209.0	209.5	209.8	210.2	210.7	211.0	210.6	210.0	209.6	209.0	208.6
120°	243.4	243.8	244.2	244.6	245.0	245.3	244.9	244.4	243.9	243.4	242.9
122.5°	275.8	276.2	276.6	276.9	277.4	277.8	277.3	276.8	276.3	275.8	275.3
125°	308.2	308.4	308.6	308.7	308.9	309.2	308.7	308.2	307.7	307.2	306.7
127.5°	339.1	339.2	339.3	339.4	339.5	339.6	339.6	339.6	339.6	339.6	339.6
130°	372.0	372.3	372.8	373.2	373.5	374.0	374.0	374.0	374.0	374.0	374.0
132.5°	405.9	406.3	406.8	407.3	407.8	408.3	408.1	407.9	407.7	407.5	407.3
135°	437.3	437.7	438.2	438.7	439.2	439.7	439.6	439.5	439.5	439.3	439.2
137.5°	465.2	465.4	465.6	465.8	466.0	466.2	466.3	466.4	466.5	466.6	466.7
140°	491.7	491.9	492.1	492.3	492.5	492.7	492.9	493.1	493.3	493.5	493.7
142.5°	520.2	520.7	521.4	521.9	522.5	523.2	523.2	523.2	523.2	523.2	523.2
145°	548.7	549.2	549.9	550.4	551.0	551.6	551.5	551.4	551.3	551.2	551.1
147.5°	571.7	572.2	572.7	573.2	573.7	574.2	574.3	574.4	574.5	574.6	574.6
150°	587.4	587.7	588.0	588.3	588.6	588.9	589.2	589.5	589.7	590.1	590.4
152.5°	601.1	601.4	601.8	602.0	602.3	602.7	603.0	603.4	603.8	604.2	604.6
155°	616.9	617.3	617.9	618.3	618.8	619.3	619.8	620.3	620.8	621.3	621.8
157.5°	634.0	634.5	634.8	635.2	635.6	636.0	636.2	636.4	636.6	636.8	637.0
160°	648.8	649.4	649.9	650.6	651.1	651.7	651.5	651.1	650.8	650.6	650.2
162.5°	656.6	657.0	657.4	657.8	658.2	658.5	658.5	658.4	658.3	658.2	658.1
165°	662.1	662.5	662.9	663.5	663.9	664.5	664.7	665.0	665.4	665.6	665.9
167.5°	668.4	669.0	669.6	670.1	670.8	671.3	671.8	672.1	672.5	672.9	673.3
170°	674.8	675.1	675.3	675.6	676.0	676.2	676.7	677.2	677.7	678.2	678.7
172.5°	677.7	678.0	678.3	678.6	678.8	679.2	679.4	679.6	679.7	679.9	680.2
175°	679.7	680.2	680.6	681.2	681.6	682.2	682.3	682.4	682.4	682.5	682.6
177.5°	683.6	684.1	684.6	685.0	685.6	686.0	686.2	686.5	686.7	686.8	687.0
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-350-LED-E1-SL3-7027-ULG

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5
2.5°	564.1	563.1	564.1	563.9	562.6	562.9	563.1	561.9	561.4	561.4	561.0
5°	559.1	558.5	559.1	558.7	556.9	556.6	556.6	555.6	554.3	553.4	552.7
7.5°	547.2	547.8	547.4	546.5	545.5	545.5	544.6	542.4	541.2	539.9	538.6
10°	533.5	533.5	534.0	533.5	532.0	531.3	530.1	528.8	529.2	526.0	523.5
12.5°	521.6	521.6	521.3	520.7	519.7	519.4	519.4	515.5	514.7	513.7	510.9
15°	510.2	510.9	510.9	510.9	509.2	509.2	507.7	505.2	505.2	502.4	499.5
17.5°	501.4	502.4	502.1	502.4	502.7	500.9	498.0	496.4	494.4	492.9	489.1
20°	493.9	494.4	494.8	494.8	493.9	492.6	490.0	487.6	486.3	483.2	478.4
22.5°	486.9	488.2	488.5	488.5	487.2	486.3	483.7	480.1	477.4	473.7	469.3
25°	484.1	485.6	484.7	485.4	484.1	481.9	478.4	475.2	471.5	466.8	462.1
27.5°	485.1	487.2	486.6	486.3	484.7	483.2	478.8	474.9	470.5	464.9	458.9
30°	490.7	494.4	492.9	491.6	491.4	487.6	483.5	478.1	473.0	466.4	459.6
32.5°	501.4	503.3	503.6	502.7	501.2	498.0	492.3	485.4	479.6	471.8	463.6
35°	519.1	520.9	520.4	520.4	518.8	513.7	506.8	499.9	492.0	483.2	474.7
37.5°	543.7	547.2	546.5	545.2	543.4	537.4	532.0	523.5	514.7	503.1	493.2
40°	574.6	579.9	584.7	583.7	579.2	573.8	568.9	559.1	550.3	537.4	526.7
42.5°	616.1	623.4	629.4	633.8	631.9	625.0	616.1	612.0	599.5	586.2	575.2
45°	669.3	684.6	689.9	695.3	695.3	690.9	689.0	680.7	667.5	649.8	639.4
47.5°	739.8	759.9	765.9	775.0	780.4	775.7	772.1	758.3	749.5	725.2	722.7
50°	825.1	845.2	861.7	872.3	870.7	874.9	866.8	858.8	846.6	826.7	819.7
52.5°	934.1	950.2	965.0	971.3	978.0	977.1	975.1	969.8	954.3	943.6	926.0
55°	1046.1	1059.3	1077.2	1087.7	1096.1	1094.6	1087.3	1074.5	1077.2	1054.9	1045.1
57.5°	1173.4	1187.9	1207.4	1217.1	1221.0	1240.2	1235.5	1233.9	1228.5	1220.7	1210.6
60°	1392.5	1396.5	1412.6	1437.2	1467.4	1461.5	1469.0	1474.1	1477.8	1460.1	1458.8
62.5°	1653.4	1658.5	1672.3	1677.3	1681.8	1682.3	1672.3	1672.3	1654.9	1632.2	1614.6
65°	1795.8	1785.4	1775.9	1770.6	1758.9	1748.6	1733.4	1713.0	1683.6	1648.6	1617.1
66°	1816.4	1795.3	1782.9	1769.3	1750.8	1731.6	1713.6	1685.5	1651.2	1609.5	1567.9
67.5°	1796.4	1767.4	1738.8	1719.0	1693.0	1658.5	1626.9	1594.1	1561.6	1504.6	1465.9
70°	1615.2	1580.6	1549.0	1505.6	1464.6	1430.6	1376.3	1319.3	1272.3	1212.4	1174.4
72.5°	1199.6	1158.5	1117.6	1056.5	996.8	988.0	920.0	852.9	816.9	768.7	730.0
75°	592.5	540.8	467.4	434.6	387.0	363.7	350.8	302.2	290.6	243.0	242.4
77.5°	167.4	143.7	127.6	111.3	104.3	99.4	81.9	78.5	71.2	70.0	65.8
80°	63.3	59.8	58.3	56.8	55.2	54.2	53.6	51.0	49.8	47.9	46.9
82.5°	45.7	44.5	41.6	40.6	39.3	37.5	37.2	35.7	34.7	32.8	32.2
85°	30.9	29.4	27.8	26.2	25.5	25.2	24.3	23.6	23.0	22.1	21.8
87.5°	20.8	19.2	17.3	16.7	16.3	16.7	17.0	16.3	16.1	15.5	15.1
90°	11.4	12.3	11.9	11.9	12.7	11.8	11.6	11.7	11.2	11.0	10.5
92.5°	6.3	6.2	6.1	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	7.3	7.2	7.1	7.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	9.3	9.2	9.1	8.9	8.8	8.7	8.6	8.5	8.4	8.4	8.3
100°	23.7	23.4	23.2	22.9	22.5	22.2	21.8	21.4	21.0	20.6	20.2
102.5°	43.2	42.7	42.2	41.7	41.2	41.0	40.6	40.3	40.1	39.7	39.4
105°	65.8	65.3	64.8	64.3	63.8	63.4	63.0	62.6	62.3	61.8	61.4
107.5°	89.9	89.5	89.1	88.8	88.3	88.0	87.8	87.5	87.1	86.9	86.6



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	117.6	117.4	117.2	117.0	116.8	116.5	116.2	115.9	115.6	115.3	115.1	0°
112.5°	146.6	146.5	146.4	146.3	146.2	146.1	145.9	145.6	145.4	145.3	145.1	2.5°
115°	176.9	176.6	176.2	176.0	175.7	175.5	175.3	175.1	174.9	174.7	174.5	5°
117.5°	208.0	207.6	207.1	206.6	206.1	205.9	205.7	205.5	205.4	205.2	204.9	7.5°
120°	242.5	241.9	241.5	240.9	240.5	240.3	240.0	239.8	239.7	239.5	239.3	10°
122.5°	274.8	274.3	273.8	273.4	272.8	272.6	272.5	272.3	272.1	271.8	271.6	12.5°
125°	306.2	305.7	305.2	304.7	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°
127.5°	339.6	339.6	339.6	339.6	339.6	339.5	339.4	339.3	339.2	339.1	339.0	17.5°
130°	374.0	374.0	374.0	374.0	374.0	373.8	373.5	373.3	373.2	373.0	372.8	20°
132.5°	407.1	406.9	406.8	406.6	406.3	406.3	406.3	406.3	406.3	406.3	406.3	22.5°
135°	439.1	439.0	438.9	438.8	438.7	439.0	439.3	439.6	439.9	440.2	440.5	25°
137.5°	466.8	466.8	467.0	467.1	467.2	467.7	468.2	468.6	469.2	469.6	470.2	27.5°
140°	493.9	494.1	494.2	494.4	494.7	495.1	495.7	496.1	496.7	497.1	497.6	30°
142.5°	523.2	523.2	523.2	523.2	523.2	523.3	523.4	523.4	523.5	523.6	523.7	32.5°
145°	551.0	550.9	550.8	550.8	550.6	550.3	550.0	549.8	549.4	549.1	548.9	35°
147.5°	574.7	574.8	574.9	575.1	575.2	574.8	574.6	574.3	573.9	573.7	573.4	37.5°
150°	590.6	590.9	591.3	591.5	591.8	592.2	592.4	592.7	593.0	593.3	593.6	40°
152.5°	605.0	605.4	605.7	606.2	606.5	607.1	607.5	608.1	608.5	609.1	609.5	42.5°
155°	622.3	622.7	623.2	623.7	624.2	624.4	624.6	624.8	625.0	625.2	625.4	45°
157.5°	637.2	637.3	637.5	637.8	638.0	638.0	638.0	638.0	638.0	638.0	638.0	47.5°
160°	649.9	649.7	649.4	649.0	648.8	648.7	648.6	648.5	648.4	648.3	648.1	50°
162.5°	658.0	657.9	657.8	657.6	657.6	657.4	657.2	657.0	656.8	656.6	656.4	52.5°
165°	666.3	666.5	666.8	667.1	667.4	667.2	667.0	666.8	666.6	666.5	666.3	55°
167.5°	673.7	674.1	674.4	674.9	675.3	675.3	675.3	675.3	675.3	675.3	675.3	57.5°
170°	679.2	679.7	680.2	680.6	681.2	681.4	681.5	681.7	681.9	682.2	682.4	60°
172.5°	680.4	680.6	680.7	680.9	681.2	681.4	681.5	681.7	681.9	682.2	682.4	62.5°
175°	682.7	682.8	682.9	683.0	683.1	682.9	682.7	682.5	682.4	682.2	681.9	65°
177.5°	687.2	687.5	687.7	687.8	688.0	687.7	687.5	687.1	686.8	686.6	686.2	66°
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	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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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	110°	114.7
560.4	559.5	559.7	558.5	558.2	558.7	559.1	559.1	558.2	552.5	545.9	112.5°	144.9
552.2	550.3	549.9	549.0	547.4	549.3	548.3	546.8	544.9	538.4	525.4	115°	174.3
537.1	535.7	534.2	533.0	532.0	531.3	531.1	529.6	526.0	513.7	492.0	117.5°	204.7
522.5	520.9	519.1	516.3	515.0	513.1	513.1	509.2	506.8	491.4	459.2	120°	239.1
508.4	505.6	504.6	502.7	499.2	497.6	495.4	491.6	487.9	469.3	427.1	122.5°	271.5
497.6	494.8	490.7	489.5	485.6	482.2	479.3	474.3	470.3	445.6	393.4	125°	304.3
486.1	483.7	479.3	476.6	472.4	468.4	463.6	457.2	454.5	423.3	361.2	127.5°	338.9
476.6	471.5	466.4	464.0	458.9	454.1	449.4	441.9	436.1	401.3	327.2	130°	372.5
465.5	461.1	455.7	451.3	444.4	439.0	433.7	425.8	418.9	378.8	292.8	132.5°	406.3
458.0	451.7	446.0	440.9	433.1	426.8	419.1	410.6	403.7	357.3	255.0	135°	440.8
453.6	447.3	440.0	433.7	424.4	417.4	409.1	399.7	390.9	340.1	219.4	137.5°	470.6
452.3	444.8	437.1	429.3	419.8	410.6	400.9	391.4	380.2	323.4	180.6	140°	498.1
456.1	446.9	438.5	428.9	417.9	407.5	397.7	385.5	374.1	308.8	142.4	142.5°	523.8
466.4	455.4	445.6	435.3	422.7	411.3	399.7	385.7	373.2	298.8	109.1	145°	548.5
482.7	472.4	461.1	450.7	436.1	423.6	410.6	395.8	380.7	294.6	82.3	147.5°	573.1
516.0	502.1	490.5	479.3	462.6	449.7	434.9	416.9	399.9	298.5	68.7	150°	593.9
562.2	544.9	534.2	524.4	503.6	489.5	472.4	451.9	432.7	309.2	60.5	152.5°	609.9
626.3	613.0	593.8	578.7	557.6	541.8	522.8	498.3	476.8	324.3	56.4	155°	625.6
706.2	689.0	670.0	654.7	631.6	604.2	584.3	554.7	530.4	347.9	54.5	157.5°	638.0
804.3	783.5	758.0	745.1	713.3	691.8	665.4	633.5	602.7	384.6	55.4	160°	648.0
910.8	888.4	868.6	844.0	815.0	791.0	765.9	732.1	693.4	453.8	59.3	162.5°	656.2
1023.3	1008.9	989.9	958.1	942.3	912.0	880.0	842.8	814.8	543.9	68.5	165°	666.0
1187.2	1171.5	1169.2	1138.1	1114.1	1086.7	1061.4	1030.5	997.5	704.1	89.8	167.5°	675.3
1439.4	1422.9	1404.4	1380.2	1351.8	1317.7	1286.6	1244.9	1208.0	864.5	99.9	170°	682.5
1588.7	1558.5	1525.1	1488.2	1446.9	1404.7	1362.8	1309.5	1255.9	874.3	90.1	172.5°	682.5
1576.2	1538.7	1496.0	1446.0	1402.5	1350.5	1305.5	1236.8	1187.9	778.5	73.4	175°	681.7
1529.5	1478.1	1438.1	1392.1	1337.6	1291.0	1243.3	1175.6	1119.7	713.8	67.1	177.5°	685.9
1410.1	1366.2	1310.8	1266.7	1226.4	1170.5	1125.8	1062.4	1024.0	619.0	60.2	180°	687.0
1127.0	1066.5	1019.6	985.2	939.4	889.1	849.3	796.1	762.1	409.6	52.0		
656.5	641.4	588.7	559.1	531.3	490.5	458.9	433.3	388.6	198.5	46.0		
202.4	188.1	186.3	158.2	167.4	143.1	139.2	126.8	126.8	76.3	36.2		
64.6	63.3	60.8	57.3	56.1	56.1	54.5	54.2	51.7	41.0	27.1		
45.7	44.7	43.7	42.8	42.2	42.6	41.3	40.6	40.1	29.6	21.4		
31.5	30.5	28.7	28.7	28.0	27.8	28.0	26.8	26.5	20.8	18.0		
21.4	21.1	20.8	20.5	20.2	19.9	19.5	18.5	18.0	14.6	12.6		
14.2	11.9	11.7	10.2	9.8	9.4	8.8	9.4	10.4	10.4	8.2		
10.6	10.2	10.2	10.0	9.4	9.7	9.7	9.1	9.1	10.0	11.7		
5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9		
6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8		
8.2	8.1	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.8		
19.9	19.4	19.0	18.7	18.7	18.7	18.7	18.7	18.7	18.7	22.5		
39.2	38.9	38.5	38.3	38.1	37.9	37.7	37.5	37.3	38.3	41.2		
61.1	60.6	60.3	59.8	59.8	59.8	59.8	59.8	59.8	59.8	63.8		
86.2	86.0	85.7	85.4	85.2	85.0	84.8	84.6	84.4	85.4	88.3		

'271693
 IST-AF-350-LED-E1-SL3-7027-ULG

REPORT NUMBER: P271693
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TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
114.4	114.2	113.8	114.1	114.3	114.4	114.6	114.8	113.8	116.8	0°	558.5	558.5
144.6	144.4	144.3	144.3	144.3	144.3	144.3	144.3	144.3	146.2	2.5°	540.2	535.2
174.1	173.9	173.7	173.9	174.1	174.3	174.5	174.7	173.7	175.7	5°	511.6	500.2
204.5	204.4	204.2	204.4	204.5	204.7	204.9	205.2	204.2	206.1	7.5°	472.8	450.7
238.9	238.7	238.5	238.5	238.5	238.5	238.5	238.5	238.5	240.5	10°	428.3	396.5
271.3	271.1	270.9	271.1	271.3	271.5	271.6	271.8	270.9	272.8	12.5°	382.3	341.6
304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°	339.4	285.5
338.8	338.8	338.6	339.0	339.4	339.8	340.2	340.5	338.6	339.6	17.5°	294.4	227.9
372.3	372.2	372.0	372.2	372.3	372.5	372.8	373.0	372.0	374.0	20°	251.2	172.0
406.3	406.3	406.3	406.6	406.8	406.9	407.1	407.3	406.3	406.3	22.5°	202.4	120.7
441.1	441.3	441.7	441.9	442.1	442.2	442.4	442.7	441.7	438.7	25°	148.4	87.7
471.1	471.6	472.1	472.3	472.5	472.7	472.9	473.0	472.1	467.2	27.5°	105.9	70.0
498.6	499.1	499.5	500.0	500.4	500.7	501.2	501.5	499.5	494.7	30°	79.1	58.9
523.9	524.0	524.1	524.5	524.9	525.3	525.7	526.0	524.1	523.2	32.5°	63.3	51.0
548.2	548.0	547.7	548.1	548.4	548.9	549.2	549.7	547.7	550.6	35°	53.9	46.4
572.8	572.5	572.2	572.6	573.0	573.4	573.7	574.2	572.2	575.2	37.5°	48.1	43.2
594.2	594.5	594.8	595.6	596.4	597.1	597.9	598.7	594.8	591.8	40°	45.1	41.6
610.5	610.9	611.5	612.5	613.5	614.4	615.4	616.3	611.5	606.5	42.5°	43.2	40.1
625.8	626.0	626.2	626.7	627.4	627.9	628.5	629.2	626.2	624.2	45°	42.2	39.1
638.0	638.0	638.0	639.0	640.0	640.9	641.9	642.8	638.0	638.0	47.5°	41.6	37.8
647.9	647.9	647.8	648.9	650.1	651.3	652.5	653.7	647.8	648.8	50°	41.0	37.8
656.0	655.9	655.7	656.8	658.0	659.2	660.3	661.5	655.7	657.6	52.5°	41.3	38.4
665.8	665.6	665.5	666.3	667.0	667.8	668.6	669.3	665.5	667.4	55°	42.8	38.4
675.3	675.3	675.3	676.4	677.6	678.8	679.9	681.2	675.3	675.3	57.5°	45.4	38.4
682.7	682.9	683.1	684.1	685.0	686.0	687.0	688.0	683.1	681.2	60°	47.3	39.1
682.7	682.9	683.1	684.1	685.0	686.0	687.0	688.0	683.1	681.2	62.5°	47.9	40.3
681.5	681.4	681.2	682.2	683.1	684.1	685.0	686.0	681.2	683.1	65°	47.3	41.0
685.7	685.4	685.0	685.9	686.7	687.5	688.2	689.0	685.0	688.0	66°	46.6	41.0
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	45.7	40.3
										70°	43.5	37.8
										72.5°	39.1	34.0
										75°	33.3	27.4
										77.5°	27.1	22.1
										80°	20.2	16.7
										82.5°	14.8	12.9
										85°	10.4	9.2
										87.5°	6.3	5.7
										90°	10.4	8.4
										92.5°	6.8	6.8
										95°	7.8	6.8
										97.5°	9.8	11.8
										100°	25.5	28.5
										102.5°	46.2	49.0
										105°	68.7	70.7
										107.5°	92.3	93.2



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tinued):

135°	145°	155°	165°	175°	180°
558.5	558.5	558.5	558.5	558.5	558.5
531.7	531.3	523.5	521.9	516.5	519.4
486.6	481.2	467.1	464.2	458.2	456.7
432.7	417.9	406.6	394.0	382.0	388.0
369.7	344.8	319.9	303.4	296.9	294.6
309.8	265.1	233.9	201.7	190.4	194.4
237.3	186.3	144.6	126.0	115.3	113.5
167.4	119.5	100.3	95.5	93.2	93.2
113.5	91.1	83.8	81.7	81.7	81.9
86.3	76.5	73.4	73.8	75.0	75.3
71.5	67.7	66.1	68.5	71.0	71.2
61.7	60.8	61.2	64.0	66.6	66.8
54.2	55.2	56.4	58.9	61.2	61.7
48.9	50.5	51.3	52.9	54.2	54.5
45.1	46.9	46.6	47.6	48.6	48.9
42.8	43.7	42.8	43.5	43.5	44.2
41.0	41.3	39.7	40.1	40.6	40.6
39.1	38.8	37.2	37.8	38.8	39.1
37.2	36.5	35.3	36.5	38.2	38.4
35.7	34.9	34.3	35.9	37.8	38.2
34.9	34.3	33.8	35.9	37.8	38.2
34.9	34.3	33.8	35.3	37.2	37.5
35.3	34.7	33.3	34.9	36.2	36.5
35.7	34.9	32.8	33.8	34.3	34.7
35.7	34.3	32.2	32.5	32.5	32.8
34.9	33.3	30.9	30.9	30.5	30.5
34.9	32.2	29.6	28.9	28.4	28.4
34.7	31.8	29.4	28.4	27.4	27.4
34.0	31.2	28.7	27.4	26.5	26.5
31.8	29.9	27.1	25.8	25.0	24.5
28.4	27.4	25.2	24.3	23.4	23.0
24.0	24.3	23.0	22.4	21.4	21.1
20.2	20.8	20.2	19.9	19.2	19.0
16.1	17.3	16.7	16.7	17.0	16.3
12.3	13.8	13.3	13.8	14.6	13.6
8.5	10.2	10.2	10.4	10.7	10.2
5.4	6.6	6.3	6.6	6.6	6.3
8.2	10.0	9.2	8.7	6.5	6.2
5.9	5.9	5.9	4.9	4.0	4.0
6.8	6.8	6.8	5.9	4.9	4.9
8.8	8.8	7.8	7.8	6.8	6.8
20.6	11.8	9.8	8.8	7.8	7.8
39.3	26.5	17.7	12.8	10.8	10.8
61.8	47.1	35.3	26.5	21.6	20.6
86.3	71.7	57.0	48.1	41.2	40.2

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	118.8	117.8	111.9
112.5°	147.2	145.3	140.3
115°	178.7	175.7	170.8
117.5°	211.0	207.1	201.2
120°	245.3	241.5	238.5
122.5°	277.8	273.8	271.8
125°	309.2	307.2	304.3
127.5°	339.6	338.6	333.7
130°	374.0	370.0	365.1
132.5°	408.3	403.4	397.5
135°	439.7	434.8	428.9
137.5°	466.2	464.2	459.3
140°	492.7	490.7	487.8
142.5°	523.2	517.2	515.3
145°	551.6	545.7	540.8
147.5°	574.2	569.3	564.3
150°	588.9	586.0	582.0
152.5°	602.7	599.7	598.7
155°	619.3	614.4	616.3
157.5°	636.0	632.0	633.0
160°	651.7	645.8	642.8
162.5°	658.5	654.7	650.7
165°	664.5	659.5	660.5
167.5°	671.3	665.5	672.3
170°	676.2	673.3	678.2
172.5°	679.2	676.2	677.2
175°	682.2	677.2	677.2
177.5°	686.0	681.2	682.2
180°	687.0	687.0	687.0



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145°	155°	165°	175°	180°
100.1	85.4	72.7	66.7	64.8
131.5	118.8	104.0	97.2	97.2
164.9	156.0	144.3	136.5	137.4
198.3	193.3	185.5	180.6	180.6
232.6	228.7	221.8	218.8	220.8
266.0	262.0	256.2	255.2	258.2
299.3	293.5	290.5	288.5	292.5
332.7	326.8	322.9	322.9	323.9
363.2	359.2	355.3	354.3	356.3
396.5	393.5	385.7	386.7	388.7
427.0	424.0	418.1	418.1	421.0
455.4	451.5	450.5	448.5	451.5
481.9	480.0	478.0	476.0	479.0
511.3	508.4	507.5	505.5	508.4
539.8	536.8	534.0	535.9	539.8
563.3	563.3	560.5	561.4	564.3
582.0	582.0	582.0	581.0	584.0
598.7	597.7	596.7	596.7	599.7
618.3	615.4	613.5	613.5	617.3
634.0	632.0	631.1	631.1	634.0
642.8	643.8	646.8	647.8	650.7
648.8	652.7	656.6	656.6	660.5
660.5	663.5	663.5	665.5	668.4
675.3	673.3	671.3	674.3	677.2
680.2	679.2	679.2	682.2	685.0
677.2	680.2	682.2	684.1	686.0
678.2	682.2	684.1	685.0	687.0
684.1	686.0	687.0	692.0	693.9
687.0	687.0	687.0	687.0	687.0

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