

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: P226819

Luminaire Tested: **IST-AF-800-LED-E1-SL2-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226819
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-800-LED-E1-SL2-7030-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) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6118 lumens
Efficiency: N/A
Efficacy: 101.6 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): 60.2
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

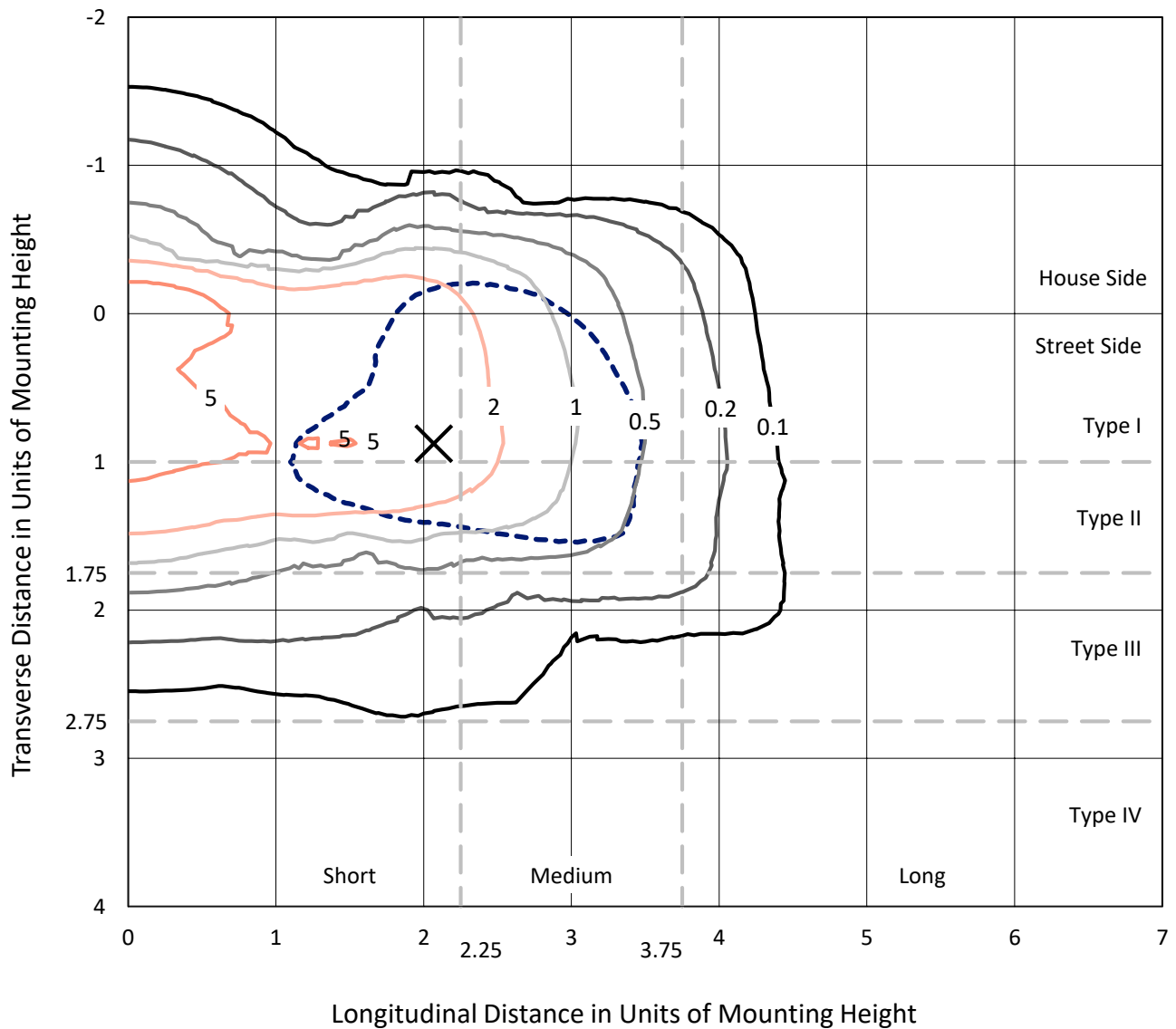


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Iso-Footcandle Lines of Horizontal Illumination

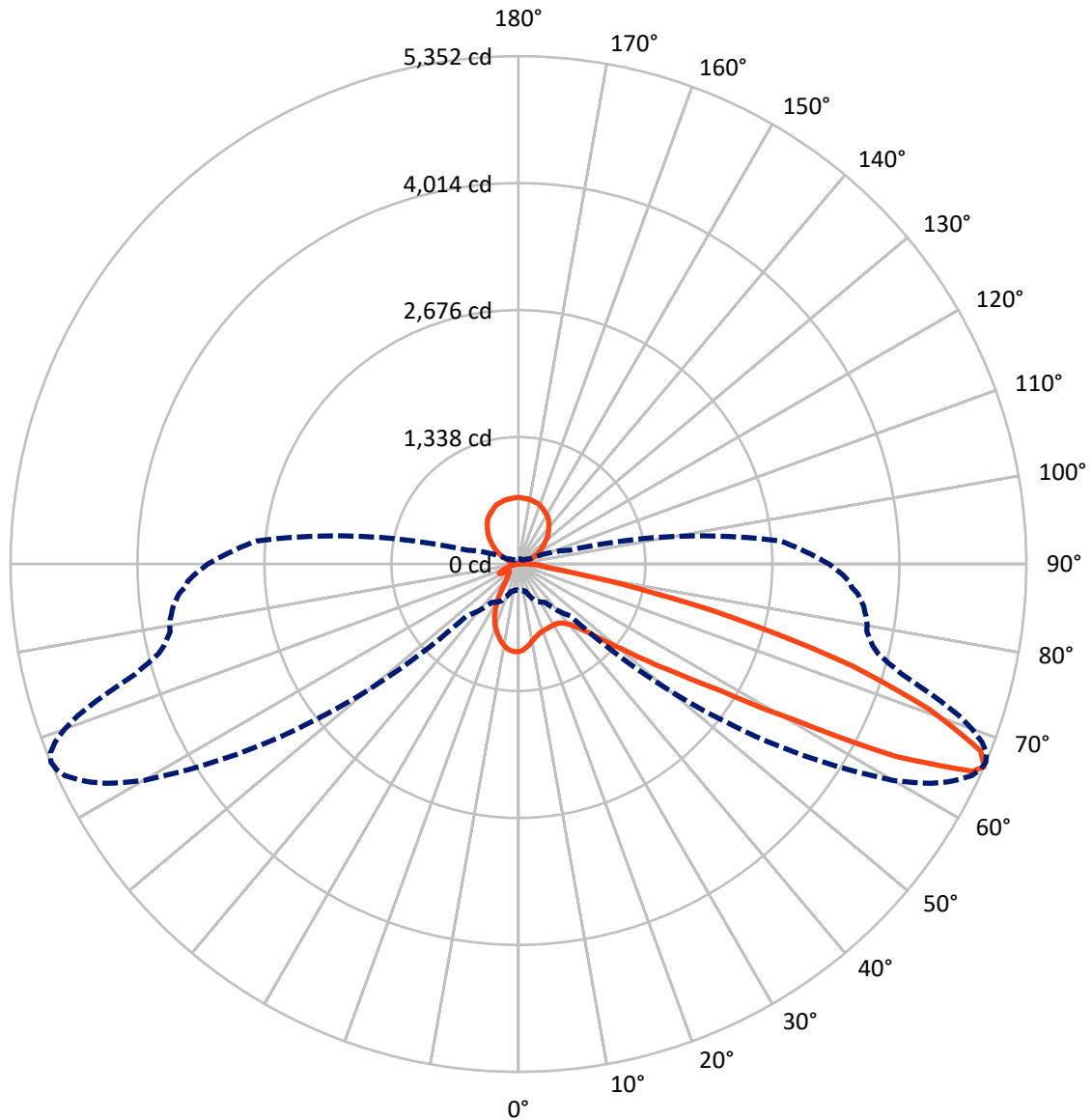
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 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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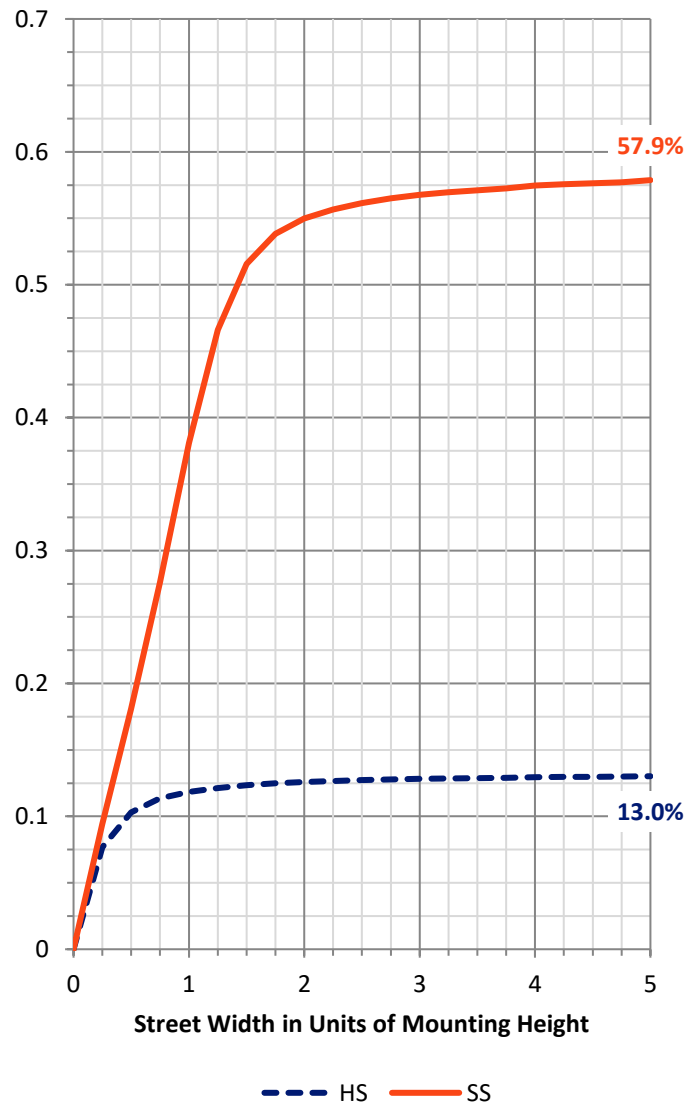
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.6	867.9	1677.5
	% Fixture	13.2	14.2	27.4
Street Side	Lumens	3571.7	868.8	4440.5
	% Fixture	58.4	14.2	72.6
Total	Lumens	4381.3	1736.7	6118.0
	% Fixture	71.6	28.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.3
10°-20°	190.4	3.1
20°-30°	261.0	4.3
30°-40°	372.9	6.1
40°-50°	604.7	9.9
50°-60°	958.1	15.7
60°-70°	1214.1	19.8
70°-80°	603.5	9.9
80°-90°	96.6	1.6
90°-100°	10.9	0.2
100°-110°	57.4	0.9
110°-120°	166.1	2.7
120°-130°	273.2	4.5
130°-140°	336.8	5.5
140°-150°	344.6	5.6
150°-160°	290.3	4.7
160°-170°	191.2	3.1
170°-180°	66.3	1.1
0°-90°	4381.3	71.6
0°-180°	6118.0	100.0



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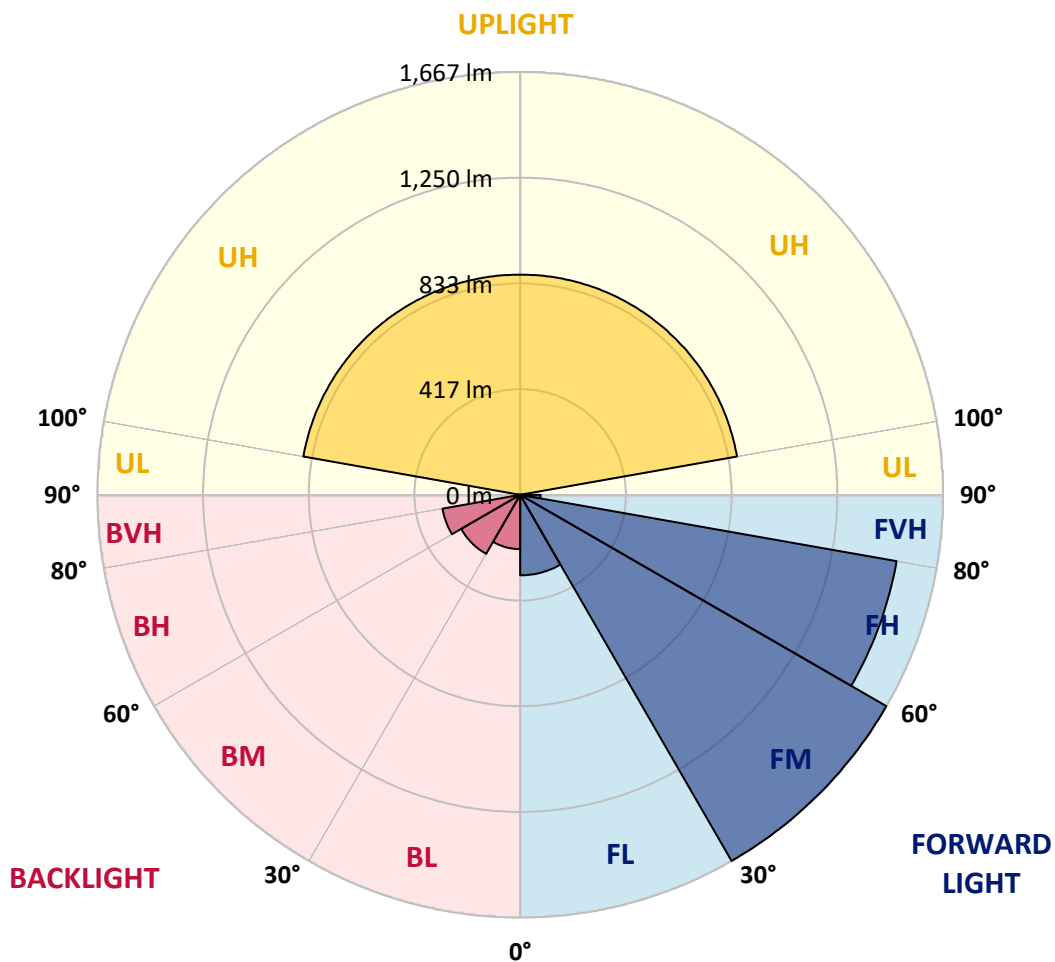
CATALOG NUMBER: IST-AF-800-LED-E1-SL2-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.5	5.2			
FM (30°-60°)	1666.9	27.2			
FH (60°-80°)	1506.7	24.6			G1/1800
FVH (80°-90°)	80.7	1.3			G1/100
BL (0°-30°)	213.9	3.5	B1/500		
BM (30°-60°)	268.8	4.4	B1/1000		
BH (60°-80°)	310.9	5.1	B1/500		G1/500
BVH (80°-90°)	15.9	0.3			G1/100
UL (90°-100°)	10.9	0.2		U2/50	
UH (100°-180°)	867.9	14.2		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°	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3
2.5°	857.2	859.1	870.3	876.2	884.8	887.4	897.3	901.3	904.6	903.9	903.9
5°	780.1	786.1	791.3	803.2	815.7	830.8	849.9	864.4	867.0	870.3	872.3
7.5°	721.5	725.5	734.7	743.3	759.1	780.1	807.1	825.6	829.5	830.8	835.4
10°	680.1	682.7	690.6	701.8	720.2	740.6	768.9	788.0	794.0	796.6	800.5
12.5°	647.8	651.8	659.0	670.8	690.6	711.7	741.3	760.4	764.3	767.6	773.5
15°	627.4	630.0	636.6	649.8	667.6	688.6	717.6	740.6	743.3	746.6	751.8
17.5°	623.4	625.4	629.4	639.2	653.1	673.5	703.1	722.2	726.8	731.4	736.7
20°	639.2	640.6	641.9	643.2	651.1	664.3	693.2	713.6	717.6	721.5	728.1
22.5°	673.5	675.5	672.2	667.6	661.6	664.3	688.6	709.7	712.3	716.3	721.5
25°	732.7	730.8	720.9	713.6	692.6	675.5	689.9	707.7	711.0	715.0	720.9
27.5°	802.5	799.9	794.0	774.2	739.3	704.4	697.8	711.0	713.0	716.3	721.5
30°	877.6	878.2	873.0	851.2	806.5	747.9	715.6	718.9	720.2	722.9	726.1
32.5°	945.4	955.2	954.6	953.3	889.4	806.5	749.8	736.7	734.7	736.7	738.0
35°	1023.7	1025.7	1044.1	1053.3	1001.3	892.0	799.9	770.9	763.0	763.7	762.4
37.5°	1108.0	1110.6	1142.2	1158.0	1117.9	989.5	866.4	821.6	814.4	807.1	801.9
40°	1230.4	1241.0	1257.4	1275.2	1255.4	1120.5	953.9	893.4	874.9	873.6	863.1
42.5°	1413.4	1410.2	1402.3	1416.7	1393.0	1267.3	1059.9	994.7	980.9	962.5	948.0
45°	1593.2	1600.4	1566.2	1572.8	1574.1	1437.1	1213.3	1121.8	1114.6	1092.8	1077.0
47.5°	1714.3	1706.4	1660.3	1693.9	1776.2	1635.3	1391.1	1294.9	1279.8	1268.6	1258.7
50°	1720.9	1714.3	1684.7	1743.9	1919.7	1987.5	1638.6	1526.7	1505.0	1485.2	1479.3
52.5°	1560.3	1551.0	1560.9	1681.4	1971.7	2282.4	1988.2	1814.4	1796.6	1780.1	1757.1
55°	1273.9	1284.4	1331.2	1504.3	1892.1	2491.8	2676.1	2258.7	2182.4	2181.7	2125.1
57.5°	951.3	940.8	975.7	1138.3	1690.6	2566.2	3308.1	3204.8	3034.3	2919.1	2780.1
60°	641.9	644.5	676.8	760.4	1176.4	2485.2	3731.4	4091.5	4031.6	4007.3	3969.8
62.5°	445.0	449.0	478.6	557.0	688.0	1999.4	3855.2	4588.6	4695.9	4784.8	4763.0
65°	311.4	312.1	341.7	462.8	515.5	1027.0	3582.0	4654.4	4814.4	4967.1	5104.1
66°	274.5	275.2	299.5	430.6	494.4	774.9	3345.0	4562.9	4745.3	4923.0	5064.6
67.5°	235.0	239.0	258.1	366.0	474.0	597.8	2763.0	4289.7	4480.6	4676.1	4863.1
70°	161.3	162.6	179.7	296.9	443.7	524.7	1574.7	3348.9	3612.9	3956.6	4155.4
72.5°	115.2	113.9	115.9	183.7	455.6	521.4	827.5	2204.1	2573.4	2874.9	3090.2
75°	102.7	99.4	90.9	113.9	332.5	569.5	554.3	1297.6	1578.7	1853.2	2073.8
77.5°	91.5	86.2	81.6	87.6	164.6	536.5	497.7	743.3	886.8	1091.5	1261.4
80°	69.8	66.5	69.1	75.7	98.8	493.8	494.4	494.4	533.3	600.4	667.6
82.5°	46.1	42.1	48.1	62.5	74.4	372.0	510.9	436.5	429.2	426.6	431.2
85°	29.0	25.0	33.6	46.7	57.3	194.2	524.0	460.8	427.3	395.0	362.7
87.5°	10.5	11.9	17.1	27.0	37.5	84.3	459.5	406.2	383.2	343.0	305.5
90°	7.6	7.0	10.3	15.9	16.6	22.8	77.4	120.6	75.4	42.0	35.6
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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CATALOG NUMBER: IST-AF-800-LED-E1-SL2-7030-ULG

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°	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3
2.5°	904.6	907.8	909.2	907.8	908.5	912.5	911.1	913.1	913.1	914.4	914.4
5°	874.9	877.6	882.8	882.2	887.4	889.4	891.4	894.0	897.3	899.3	903.2
7.5°	840.0	845.3	849.9	852.5	855.8	862.4	864.4	870.3	875.6	880.9	884.8
10°	806.5	813.7	819.0	820.9	828.2	831.5	838.7	843.3	849.9	856.5	862.4
12.5°	778.2	784.7	787.4	794.0	800.5	807.1	810.4	819.0	825.6	834.1	842.0
15°	757.1	763.7	768.9	773.5	780.1	786.7	792.0	800.5	808.4	817.0	824.2
17.5°	743.9	747.9	754.5	758.4	766.3	774.2	780.1	790.0	798.6	805.8	815.7
20°	734.0	738.7	744.6	750.5	757.7	767.6	772.9	783.4	792.6	801.2	810.4
22.5°	728.8	733.4	739.3	745.2	753.1	761.0	769.6	778.8	788.7	797.9	807.1
25°	726.8	730.8	736.0	741.9	750.5	759.1	766.3	776.8	785.4	795.3	806.5
27.5°	727.5	730.1	736.0	741.3	749.8	757.7	765.0	775.5	785.4	794.6	805.8
30°	730.1	732.1	738.0	742.6	749.8	757.7	764.3	775.5	784.1	794.0	805.8
32.5°	739.3	741.9	744.6	747.9	754.5	760.4	768.3	778.2	786.1	795.9	805.8
35°	761.0	759.1	761.0	762.4	767.0	772.9	778.8	787.4	794.6	803.2	813.7
37.5°	795.3	791.3	792.6	792.0	792.0	795.9	801.9	807.8	813.7	822.3	832.8
40°	858.5	848.6	846.0	838.7	836.7	840.0	844.0	844.6	851.9	863.1	867.7
42.5°	940.1	926.9	928.9	917.1	913.8	909.8	915.1	911.8	916.4	923.6	933.5
45°	1069.1	1056.6	1043.5	1024.4	1028.3	1013.8	1009.9	1011.2	1010.5	1013.2	1025.0
47.5°	1223.2	1206.7	1198.2	1190.9	1177.1	1168.5	1157.4	1140.9	1144.8	1150.1	1160.6
50°	1448.3	1443.1	1426.6	1402.9	1399.6	1387.1	1383.8	1369.3	1364.1	1363.4	1362.8
52.5°	1749.2	1715.0	1708.4	1686.0	1668.9	1657.0	1653.1	1632.7	1612.3	1624.1	1622.8
55°	2115.9	2087.6	2051.4	2031.6	2017.8	1989.5	1982.2	1956.6	1944.7	1938.1	1921.7
57.5°	2732.1	2632.7	2558.3	2521.4	2469.4	2416.7	2398.3	2345.6	2304.8	2275.9	2277.8
60°	3806.5	3629.4	3420.7	3327.2	3110.6	3079.0	2930.2	2894.0	2804.5	2745.3	2711.0
62.5°	4747.9	4699.8	4599.8	4463.5	4246.3	3996.1	3883.5	3659.7	3484.6	3408.2	3302.2
65°	5197.5	5265.4	5293.0	5267.3	5180.4	5027.7	4893.4	4674.8	4381.2	4215.3	4009.3
66°	5174.5	5275.2	5325.9	5352.3	5320.7	5230.5	5089.6	4909.9	4682.7	4429.9	4198.9
67.5°	5006.0	5104.1	5174.5	5254.8	5254.8	5226.5	5169.2	5049.4	4888.8	4668.2	4460.9
70°	4317.4	4450.3	4574.8	4599.1	4667.6	4646.5	4691.9	4615.6	4577.4	4485.2	4374.0
72.5°	3363.4	3474.7	3581.3	3688.0	3670.2	3647.2	3642.6	3658.4	3580.7	3608.3	3579.4
75°	2237.0	2428.6	2537.9	2527.3	2534.6	2540.5	2491.8	2383.2	2467.4	2360.8	2396.3
77.5°	1359.5	1448.3	1478.0	1445.0	1402.3	1347.0	1258.1	1206.1	1131.7	1137.6	1088.2
80°	713.0	724.2	700.5	634.0	597.8	564.9	463.5	418.0	375.9	360.1	324.6
82.5°	408.8	381.8	352.9	330.5	287.7	258.7	219.2	194.2	167.2	143.5	135.0
85°	331.1	294.9	267.9	242.9	214.0	188.3	155.4	129.7	109.9	95.5	92.2
87.5°	273.2	248.2	220.5	196.8	168.5	142.2	109.9	85.6	67.8	54.6	50.7
90°	33.2	41.9	32.7	22.2	28.8	19.5	14.9	15.6	14.3	14.3	14.9
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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CATALOG NUMBER: IST-AF-800-LED-E1-SL2-7030-ULG

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°	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3
2.5°	916.4	916.4	917.7	919.0	919.7	919.7	919.7	921.0	921.7	919.7	921.7
5°	905.2	908.5	911.1	913.1	913.8	915.7	917.7	919.0	921.0	921.0	922.3
7.5°	890.1	896.0	899.3	902.6	905.9	909.2	913.1	915.7	917.1	919.7	921.7
10°	871.0	878.2	884.8	890.1	894.7	901.3	906.5	910.5	916.4	917.1	921.7
12.5°	850.6	861.1	866.4	876.2	882.8	892.7	898.0	903.9	910.5	913.8	919.0
15°	836.1	845.3	855.2	864.4	874.9	886.8	893.4	901.3	910.5	917.7	924.3
17.5°	824.9	837.4	848.6	860.4	873.6	886.1	896.0	904.6	916.4	920.4	926.9
20°	821.6	835.4	846.6	859.1	873.0	889.4	901.3	910.5	922.3	928.9	934.8
22.5°	820.3	833.5	846.6	861.8	876.9	894.0	906.5	918.4	930.2	936.2	940.8
25°	819.0	832.8	847.3	864.4	880.9	898.6	913.1	924.3	935.5	941.4	945.4
27.5°	819.0	833.5	849.3	866.4	884.1	903.9	917.7	928.3	938.1	943.4	944.7
30°	818.3	833.5	848.6	867.7	886.8	907.2	922.3	932.2	940.8	944.1	942.7
32.5°	819.6	835.4	851.9	871.0	890.7	910.5	926.3	937.5	942.1	941.4	940.8
35°	826.2	840.7	859.8	878.9	899.3	917.7	932.9	940.8	944.7	943.4	940.1
37.5°	844.0	858.5	877.6	898.6	914.4	935.5	949.3	955.2	955.9	952.0	944.1
40°	880.9	895.3	912.5	935.5	954.6	969.1	982.2	988.8	984.9	977.6	969.1
42.5°	939.4	957.9	978.3	996.7	1019.1	1038.9	1042.1	1046.1	1039.5	1025.7	1015.2
45°	1033.6	1044.8	1071.1	1084.9	1113.9	1123.8	1131.0	1133.0	1118.5	1107.3	1088.9
47.5°	1169.2	1190.9	1209.4	1222.5	1243.6	1256.8	1271.2	1264.7	1253.5	1234.4	1210.0
50°	1382.5	1396.3	1420.0	1443.7	1466.1	1475.3	1475.3	1468.7	1461.5	1424.6	1395.0
52.5°	1644.5	1645.8	1680.1	1708.4	1727.5	1713.6	1730.1	1713.6	1709.0	1683.4	1659.0
55°	1948.0	1935.5	1977.0	2002.0	2019.1	2035.6	2032.3	2030.3	2013.2	1984.2	1954.6
57.5°	2236.4	2272.6	2292.3	2329.2	2337.7	2348.9	2344.3	2337.7	2327.9	2311.4	2298.2
60°	2652.4	2676.8	2694.6	2701.8	2726.2	2729.5	2745.9	2718.9	2725.5	2706.4	2664.9
62.5°	3218.6	3192.3	3206.1	3206.1	3198.8	3173.2	3187.0	3197.5	3179.8	3164.0	3157.4
65°	3852.6	3767.6	3686.0	3672.2	3634.7	3626.1	3615.6	3589.2	3578.0	3550.4	3528.0
66°	4042.2	3910.5	3833.5	3786.1	3740.7	3730.8	3716.3	3688.6	3666.3	3627.4	3589.9
67.5°	4254.8	4085.0	3969.1	3901.9	3846.0	3809.1	3780.2	3740.7	3705.1	3647.2	3587.3
70°	4241.0	4100.8	3961.2	3859.2	3774.9	3699.2	3654.4	3569.5	3497.1	3414.1	3345.7
72.5°	3563.6	3538.5	3457.6	3400.3	3296.9	3256.8	3138.3	3084.3	2984.2	2876.9	2844.0
75°	2477.3	2379.2	2337.7	2314.7	2269.3	2144.2	2062.6	2080.3	1963.2	1858.5	1798.6
77.5°	1083.0	1102.7	988.2	936.8	897.3	829.5	766.3	722.9	697.8	681.4	607.0
80°	299.5	261.4	258.1	239.6	235.7	210.0	213.3	194.9	182.4	179.7	173.8
82.5°	131.0	128.4	124.4	122.5	120.5	117.8	114.6	113.9	109.9	106.7	107.3
85°	86.9	86.2	84.3	82.3	79.0	74.4	71.1	68.5	69.1	65.8	65.2
87.5°	50.7	49.4	48.7	46.1	45.4	41.5	42.1	38.8	38.2	37.5	35.6
90°	16.2	16.7	18.5	17.6	14.8	20.5	18.3	16.8	17.3	15.1	14.9
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°	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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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	86°	
922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	110°	116.2
923.6	925.0	925.6	925.0	926.3	925.6	926.3	925.6	922.3	921.7	921.0	112.5°	147.0
925.0	927.6	928.3	928.9	927.6	928.9	926.3	915.7	903.9	890.7	880.2	115°	177.2
926.3	929.6	931.5	931.5	932.2	930.9	921.0	898.0	870.3	842.7	821.6	117.5°	208.2
925.6	930.2	932.2	932.9	932.9	930.2	906.5	869.7	827.5	785.4	742.6	120°	243.0
923.6	927.6	930.9	930.9	931.5	922.3	885.5	832.8	772.9	709.7	652.4	122.5°	276.2
927.6	931.5	931.5	931.5	930.9	915.1	863.1	786.7	706.4	620.8	535.9	125°	310.0
933.5	935.5	934.2	934.2	931.5	907.8	838.1	741.3	636.0	522.7	404.2	127.5°	345.4
938.8	940.1	939.4	936.2	932.9	899.9	812.4	693.2	551.7	404.2	286.4	130°	379.2
944.1	945.4	942.1	936.8	932.2	889.4	781.4	632.0	456.2	276.5	189.6	132.5°	414.2
944.7	946.0	940.1	932.9	926.3	873.6	743.9	566.8	351.6	179.1	148.1	135°	450.2
944.1	942.7	932.9	923.6	916.4	854.5	702.4	485.9	234.4	135.0	129.0	137.5°	481.2
939.4	933.5	925.6	915.1	904.6	833.5	661.0	395.7	148.1	117.2	117.2	140°	509.4
932.9	926.9	917.1	903.2	891.4	813.0	613.6	303.5	118.5	108.0	109.3	142.5°	534.4
930.2	923.6	909.2	894.7	879.5	794.6	563.5	204.1	106.7	102.0	102.7	145°	558.4
935.5	924.3	909.8	893.4	875.6	778.8	511.5	142.2	100.7	95.5	96.8	147.5°	583.4
953.3	942.7	925.6	904.6	885.5	769.6	456.2	117.8	94.8	90.2	90.2	150°	606.8
996.1	982.2	959.2	934.2	911.1	775.5	406.9	107.3	90.2	85.6	85.6	152.5°	624.0
1065.2	1048.7	1021.7	993.4	963.1	804.5	350.9	103.4	86.9	80.3	79.0	155°	638.6
1183.7	1162.0	1126.4	1092.8	1056.6	854.5	294.3	100.7	83.0	77.0	74.4	157.5°	651.0
1370.0	1337.7	1295.6	1251.5	1207.4	946.0	249.5	98.1	80.3	74.4	71.8	160°	661.2
1609.6	1587.9	1535.2	1477.3	1424.6	1128.4	223.8	96.1	78.3	71.1	69.1	162.5°	669.2
1915.1	1879.5	1838.1	1786.1	1723.5	1364.7	221.2	95.5	76.4	68.5	67.2	165°	678.8
2237.7	2223.9	2153.4	2121.2	2053.3	1679.4	269.3	96.8	75.1	66.5	64.5	167.5°	689.2
2605.7	2611.0	2545.1	2509.6	2453.6	2078.4	428.6	100.7	75.1	64.5	62.5	170°	697.0
3086.9	3095.5	3017.8	2975.7	2928.3	2525.4	673.5	107.3	77.0	62.5	60.6	172.5°	697.0
3481.3	3435.2	3385.2	3311.4	3251.5	2774.9	648.5	119.2	79.7	60.6	58.6	175°	695.0
3522.1	3489.2	3426.0	3346.3	3273.2	2776.2	566.2	123.1	80.3	59.9	57.9	177.5°	698.8
3516.8	3458.2	3386.5	3319.3	3247.6	2705.1	437.8	128.4	82.3	58.6	56.6	180°	700.0
3273.2	3190.9	3121.2	3028.3	2953.3	2420.7	269.3	127.7	79.7	54.6	53.3		
2699.2	2657.0	2574.1	2499.7	2421.4	1959.2	184.3	113.9	70.4	49.4	50.0		
1745.9	1697.8	1613.6	1571.4	1527.3	1253.5	143.5	92.8	59.9	44.1	46.1		
582.6	563.5	532.6	549.7	524.0	488.5	105.3	70.4	48.1	38.2	40.8		
174.5	170.5	176.4	165.9	175.8	148.8	69.1	49.4	36.9	32.9	36.2		
103.4	102.0	102.0	102.0	99.4	92.8	45.4	34.2	28.3	27.7	30.3		
63.2	61.9	62.5	61.9	63.2	56.6	30.9	23.7	21.1	20.4	24.4		
36.2	36.2	36.9	35.6	36.2	34.9	21.7	15.1	13.8	13.2	17.8		
15.6	15.6	13.6	12.9	13.6	16.2	14.9	13.6	11.0	10.3	13.9		
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		

'226819
 IST-AF-800-LED-E1-SL2-7030-ULG

REPORT NUMBER: P226819
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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°	922.3	922.3
147.0	147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	2.5°	915.7	911.1
177.4	177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	5°	863.7	851.2
208.4	208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	7.5°	788.7	774.2
243.0	243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	10°	703.1	681.4
276.4	276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	12.5°	593.8	551.0
310.0	310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	15°	467.4	410.1
345.8	346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	17.5°	321.9	275.8
379.4	379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	20°	225.8	208.7
414.4	414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	22.5°	174.5	175.1
450.4	450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	25°	144.8	151.4
481.4	481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	27.5°	127.7	134.3
509.8	510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	30°	117.2	123.1
534.8	535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	32.5°	109.9	112.6
558.8	559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	35°	101.4	102.7
583.8	584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	37.5°	94.1	94.1
607.6	608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	40°	87.6	86.9
625.0	626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	42.5°	81.6	81.0
639.2	639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	45°	75.7	76.4
652.0	653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	47.5°	72.4	73.1
662.4	663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	50°	69.1	69.8
670.4	671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	52.5°	66.5	66.5
679.6	680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	55°	63.9	63.2
690.4	691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	57.5°	61.9	60.6
698.0	699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	60°	59.9	58.6
698.0	699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	62.5°	58.6	56.6
696.0	697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	65°	57.3	56.0
699.6	700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	66°	56.6	55.3
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	56.0	54.6
										70°	53.3	52.0
										72.5°	49.4	48.7
										75°	45.4	44.1
										77.5°	40.2	39.5
										80°	34.2	33.6
										82.5°	29.0	27.7
										85°	23.0	21.7
										87.5°	15.8	14.5
										90°	12.0	11.6
										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°
922.3	922.3
907.2	913.1
847.3	845.3
762.4	763.0
659.7	661.0
526.7	518.8
377.2	380.5
262.7	262.0
210.7	212.0
180.4	180.4
160.6	160.6
141.5	142.2
128.4	129.7
116.5	117.2
104.7	105.3
94.8	94.8
88.2	88.9
83.6	83.6
79.0	79.0
75.1	76.4
71.1	71.8
67.2	67.8
63.2	63.2
59.9	59.9
57.3	56.6
55.3	54.0
53.3	52.7
52.7	52.0
52.0	51.4
50.7	50.0
48.7	48.1
44.8	43.5
40.8	39.5
37.5	35.6
31.6	30.3
23.0	21.7
13.8	13.8
8.3	8.3
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

İL2-7030-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

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