

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: P227339

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227339  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-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-SLR-7030-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, 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: 5646.7 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
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

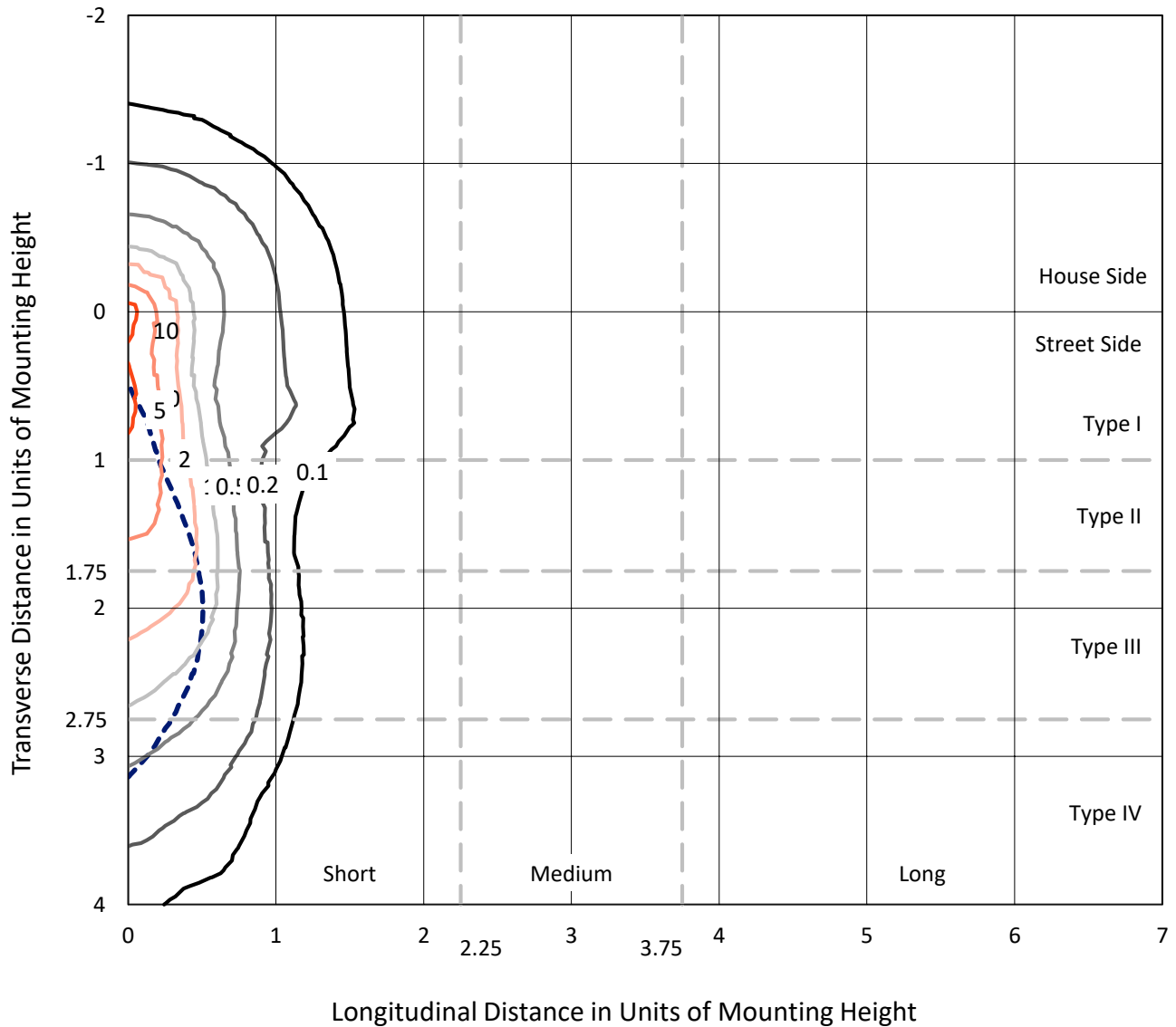


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

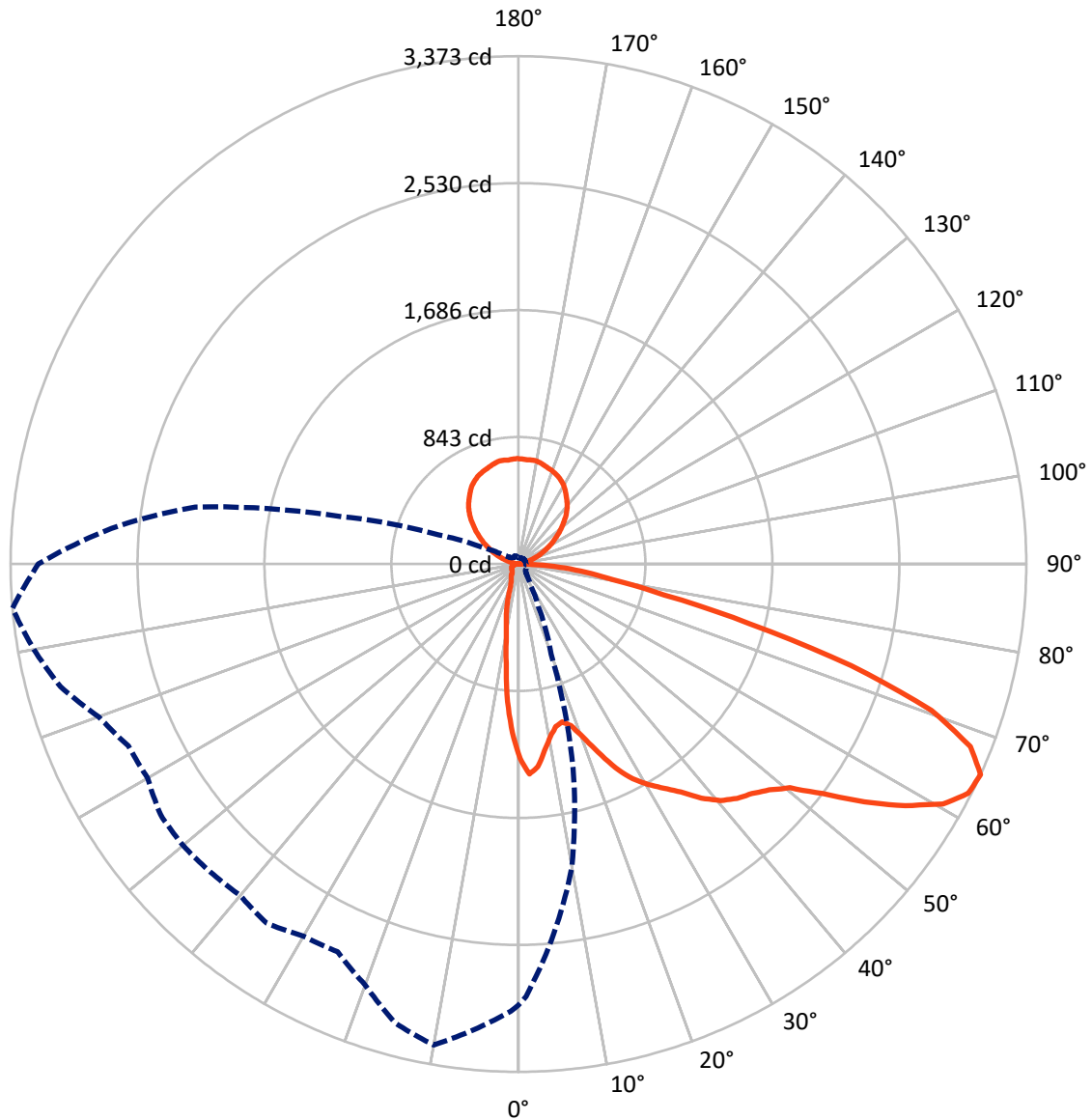


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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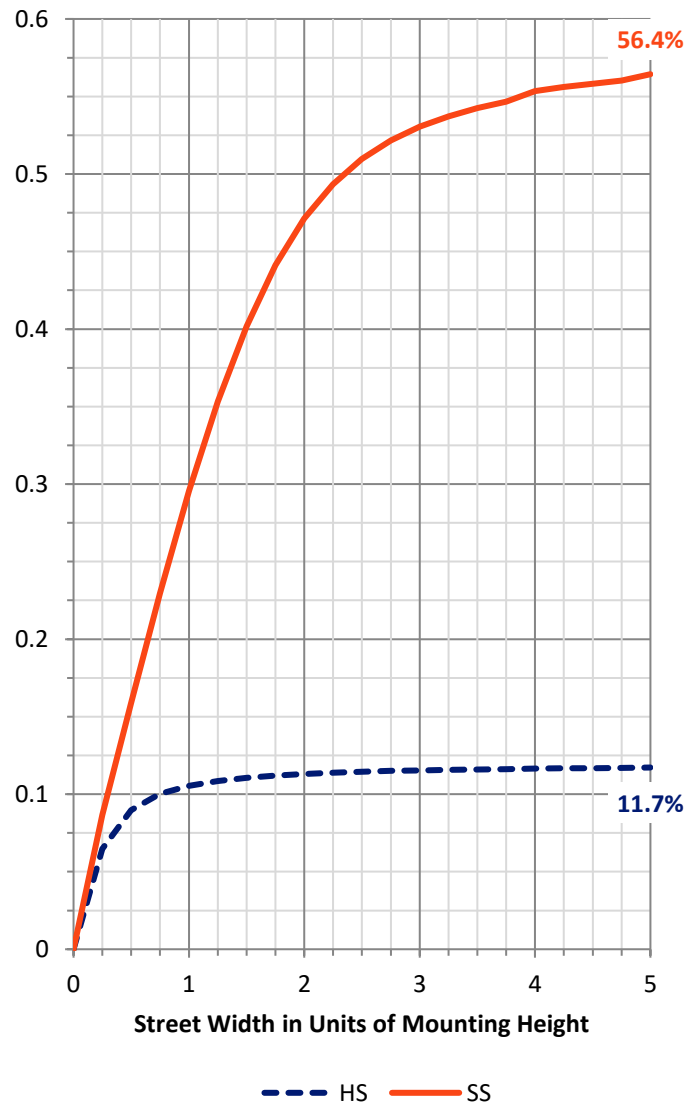
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	671.3	867.6	1538.9
	% Fixture	11.9	15.4	27.3
<b>Street Side</b>	Lumens	3240.1	867.7	4107.8
	% Fixture	57.4	15.4	72.7
<b>Total</b>	Lumens	3911.4	1735.3	5646.7
	% Fixture	69.3	30.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.7	1.7
10°-20°	184.2	3.3
20°-30°	262.6	4.7
30°-40°	381.0	6.7
40°-50°	545.0	9.7
50°-60°	836.8	14.8
60°-70°	968.5	17.2
70°-80°	494.1	8.8
80°-90°	143.6	2.5
90°-100°	9.4	0.2
100°-110°	57.4	1.0
110°-120°	166.1	2.9
120°-130°	273.2	4.8
130°-140°	336.8	6.0
140°-150°	344.6	6.1
150°-160°	290.3	5.1
160°-170°	191.2	3.4
170°-180°	66.3	1.2
0°-90°	3911.4	69.3
0°-180°	5646.7	100.0



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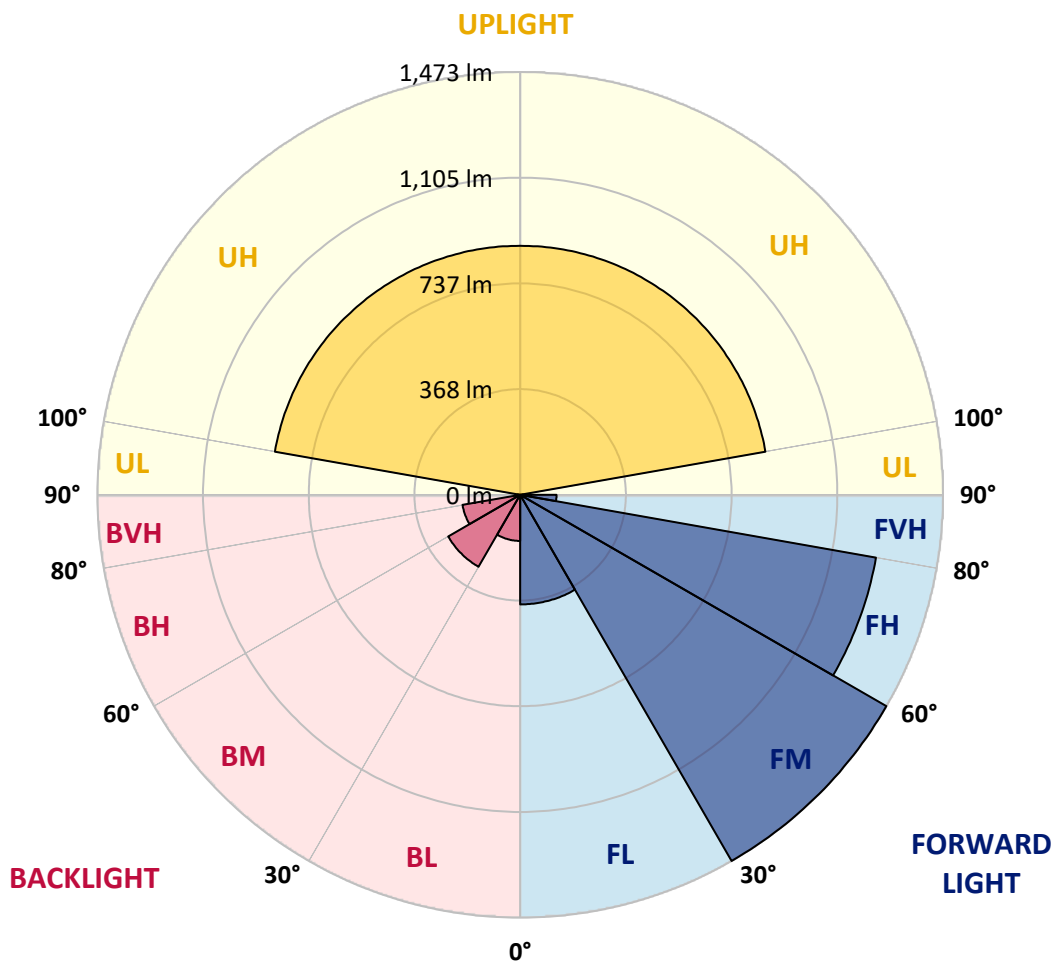
CATALOG NUMBER: IST-AF-800-LED-E1-SLR-7030-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.9	6.8			
FM (30°-60°)	1473.1	26.1			
FH (60°-80°)	1258.6	22.3			G1/1800
FVH (80°-90°)	126.5	2.2			G2/225
BL (0°-30°)	160.6	2.8	B1/500		
BM (30°-60°)	289.6	5.1	B1/1000		
BH (60°-80°)	204.0	3.6	B1/500		G1/500
BVH (80°-90°)	17.1	0.3			G1/100
UL (90°-100°)	9.4	0.2		U1/10	
UH (100°-180°)	867.6	15.4		U4/1000	

**BUG Rating: B1-U5-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9
2.5°	1337.3	1329.4	1319.5	1302.4	1287.3	1265.6	1260.3	1233.3	1216.2	1220.2	1189.2
5°	1255.7	1251.1	1226.7	1188.6	1163.6	1114.2	1085.9	1071.4	1030.6	1025.3	1014.2
7.5°	1141.2	1127.4	1087.9	1040.5	997.7	961.5	916.1	881.2	850.3	831.2	797.6
10°	1043.1	1028.6	985.9	927.9	876.6	825.9	789.1	743.7	699.6	665.4	638.4
12.5°	995.7	979.9	929.9	862.8	805.5	742.4	690.4	645.6	621.3	604.2	581.8
15°	1014.2	991.1	931.2	850.9	779.9	712.7	657.5	609.4	580.5	554.1	527.8
17.5°	1088.5	1060.2	991.8	895.0	796.3	709.5	630.5	575.9	529.8	490.3	454.8
20°	1216.2	1195.1	1095.8	960.2	831.9	711.4	607.4	535.7	479.8	429.8	382.4
22.5°	1365.6	1334.0	1236.6	1048.4	877.3	723.3	593.0	502.1	435.7	368.5	317.2
25°	1522.2	1497.9	1368.9	1166.8	947.0	747.6	581.8	472.5	383.7	309.3	252.7
27.5°	1648.6	1626.9	1499.2	1280.7	1010.9	768.7	565.3	444.2	342.2	252.7	190.2
30°	1751.9	1733.5	1599.9	1374.2	1088.5	775.9	542.3	411.3	296.2	204.0	157.3
32.5°	1867.7	1847.3	1696.6	1439.3	1123.4	769.3	516.0	380.4	259.3	180.3	134.9
35°	1994.8	1971.1	1804.6	1509.7	1152.4	746.3	493.6	358.0	241.5	163.9	119.8
37.5°	2108.0	2092.8	1902.0	1579.5	1185.3	708.1	471.9	333.7	229.7	152.0	107.9
40°	2196.1	2192.2	2009.9	1637.4	1210.9	680.5	454.1	314.6	214.5	147.4	104.0
42.5°	2267.2	2265.9	2098.1	1689.4	1217.5	656.1	440.3	297.5	200.7	136.2	106.0
45°	2335.7	2335.0	2183.6	1761.8	1222.1	657.5	429.8	286.9	188.9	129.0	100.0
47.5°	2400.8	2410.7	2273.1	1862.5	1270.8	679.8	425.8	277.1	179.7	121.1	94.8
50°	2510.1	2500.2	2414.6	1998.7	1349.1	723.3	419.2	268.5	171.1	113.9	89.5
52.5°	2717.4	2706.2	2629.8	2181.0	1434.7	768.0	410.7	256.7	161.2	106.0	83.6
55°	2970.7	2985.9	2879.9	2402.8	1551.2	805.5	401.5	240.9	148.1	96.7	79.6
57.5°	3119.5	3107.0	2985.9	2530.5	1622.9	824.6	395.5	222.4	127.7	88.8	75.7
59°	3154.4	3133.3	2968.1	2552.2	1642.0	815.4	392.2	204.7	117.1	84.9	73.7
60°	3151.1	3125.4	2939.8	2538.4	1647.3	804.2	387.0	194.1	111.2	82.9	73.1
62.5°	3083.3	3043.1	2779.2	2371.2	1573.6	748.3	365.3	169.1	103.3	80.3	69.1
65°	2929.3	2872.7	2509.4	2044.8	1404.4	637.1	315.9	159.9	105.3	79.0	66.5
67.5°	2663.4	2618.0	2162.6	1692.0	1119.5	514.6	273.1	156.0	107.9	80.3	62.5
70°	2166.5	2127.7	1687.4	1266.9	838.4	409.3	248.1	154.0	106.0	77.0	59.2
72.5°	1528.2	1461.0	1121.4	887.1	531.8	329.1	215.2	145.4	103.3	74.4	54.0
75°	929.9	942.4	712.7	646.3	335.6	225.7	169.1	122.4	91.5	66.5	48.7
77.5°	613.4	612.7	525.8	456.1	170.5	140.2	119.8	94.1	71.7	54.6	42.1
80°	415.9	420.5	381.7	311.3	94.8	84.2	78.3	68.4	52.6	41.5	34.9
82.5°	256.0	256.7	295.5	233.0	63.2	53.3	50.0	46.1	37.5	32.2	27.0
85°	88.8	90.8	103.3	164.5	42.8	34.9	34.9	32.2	28.3	21.7	17.8
87.5°	38.2	37.5	44.8	44.8	21.1	17.8	16.5	16.5	15.8	11.8	9.9
90°	7.6	7.0	7.0	8.6	10.3	12.1	11.9	12.6	12.6	11.4	9.6
92.5°	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0	6.0	6.0	6.0
95°	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0	7.0	7.0	7.0
97.5°	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5	9.0	9.0	9.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	16.5	21.0
102.5°	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5	27.0	33.5	40.0
105°	21.0	21.2	22.0	24.5	27.0	31.5	36.0	42.0	48.0	55.5	63.0
107.5°	41.0	41.2	42.0	45.5	49.0	53.5	58.0	65.5	73.0	80.5	88.0



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

**CANDELA DISTRIBUTION (continued):**

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	66.0	66.4	68.0	71.0	74.0	80.5	87.0	94.5	102.0	108.0	114.0
112.5°	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	134.0	138.5	143.0
115°	140.0	139.8	139.0	143.0	147.0	153.0	159.0	163.5	168.0	171.0	174.0
117.5°	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	202.0	203.5	205.0
120°	225.0	224.6	223.0	224.5	226.0	229.5	233.0	235.0	237.0	240.0	243.0
122.5°	263.0	262.4	260.0	260.5	261.0	264.0	267.0	269.0	271.0	274.0	277.0
125°	298.0	297.2	294.0	295.0	296.0	297.5	299.0	302.0	305.0	307.5	310.0
127.5°	330.0	329.8	329.0	329.0	329.0	331.0	333.0	336.0	339.0	339.5	340.0
130°	363.0	362.6	361.0	361.5	362.0	364.0	366.0	368.0	370.0	371.0	372.0
132.5°	396.0	395.6	394.0	393.5	393.0	397.0	401.0	402.5	404.0	404.5	405.0
135°	429.0	428.4	426.0	426.0	426.0	429.0	432.0	433.5	435.0	436.0	437.0
137.5°	460.0	459.4	457.0	458.0	459.0	459.5	460.0	462.0	464.0	466.0	468.0
140°	488.0	487.4	485.0	486.0	487.0	488.0	489.0	490.0	491.0	494.0	497.0
142.5°	518.0	517.4	515.0	516.0	517.0	517.5	518.0	519.5	521.0	523.0	525.0
145°	550.0	549.2	546.0	545.0	544.0	545.5	547.0	548.5	550.0	550.5	551.0
147.5°	575.0	574.4	572.0	571.5	571.0	572.5	574.0	574.0	574.0	574.5	575.0
150°	595.0	594.4	592.0	592.5	593.0	593.0	593.0	593.0	593.0	593.0	593.0
152.5°	611.0	610.4	608.0	608.0	608.0	608.5	609.0	609.5	610.0	610.0	610.0
155°	629.0	628.2	625.0	625.0	625.0	626.0	627.0	628.5	630.0	629.0	628.0
157.5°	646.0	645.4	643.0	643.0	643.0	643.5	644.0	645.0	646.0	645.5	645.0
160°	663.0	662.4	660.0	659.5	659.0	657.5	656.0	655.5	655.0	655.0	655.0
162.5°	673.0	672.2	669.0	669.0	669.0	667.0	665.0	663.0	661.0	662.0	663.0
165°	681.0	680.4	678.0	677.0	676.0	676.0	676.0	674.5	673.0	673.0	673.0
167.5°	690.0	689.4	687.0	685.5	684.0	685.0	686.0	687.0	688.0	686.5	685.0
170°	698.0	697.4	695.0	693.5	692.0	692.0	692.0	692.5	693.0	692.0	691.0
172.5°	699.0	698.6	697.0	696.0	695.0	694.0	693.0	691.5	690.0	690.0	690.0
175°	700.0	699.6	698.0	697.5	697.0	696.0	695.0	693.0	691.0	690.5	690.0
177.5°	707.0	706.6	705.0	702.5	700.0	699.5	699.0	698.0	697.0	696.0	695.0
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):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9
2.5°	1180.0	1172.8	1152.4	1147.1	1153.7	1140.5	1137.2	1133.9	1109.6	1122.1	1107.6
5°	986.5	984.5	943.1	951.6	943.1	928.6	922.7	936.5	912.2	917.4	920.7
7.5°	758.2	750.3	722.6	704.2	693.0	683.1	670.6	650.2	666.0	662.7	687.7
10°	615.3	598.2	581.1	555.5	541.0	527.2	512.7	504.8	486.3	484.4	475.8
12.5°	564.0	539.7	517.9	495.6	480.4	452.8	429.8	415.3	403.4	385.0	371.2
15°	495.6	475.2	446.9	425.1	401.5	376.4	354.1	335.6	327.1	310.0	302.1
17.5°	426.5	395.5	361.3	339.6	306.7	281.0	262.6	250.7	238.2	227.7	218.5
20°	343.5	303.4	266.5	238.9	213.2	188.2	179.7	165.2	159.9	156.0	159.3
22.5°	261.3	219.8	181.6	160.6	146.8	140.2	132.9	130.3	128.3	127.7	129.0
25°	191.5	156.6	138.2	130.3	125.0	121.1	118.5	116.5	115.2	114.5	115.2
27.5°	148.1	129.6	120.4	115.2	111.2	108.6	107.3	105.3	104.6	104.0	104.6
30°	128.3	118.5	111.9	106.6	102.0	97.4	95.4	94.8	95.4	96.1	95.4
32.5°	111.9	104.6	97.4	92.8	89.5	86.9	86.9	85.6	85.6	87.5	88.2
35°	101.4	94.1	88.8	82.9	79.0	76.3	74.4	73.1	73.7	73.7	75.7
37.5°	92.8	87.5	82.9	77.7	73.7	71.1	69.8	68.4	67.8	67.1	67.1
40°	86.9	83.6	79.6	74.4	70.4	67.8	66.5	65.2	64.5	63.8	63.8
42.5°	86.9	80.3	77.7	73.1	68.4	65.8	63.8	62.5	61.2	61.2	61.2
45°	95.4	82.3	77.7	72.4	67.8	64.5	62.5	60.5	59.2	59.2	58.6
47.5°	92.8	92.1	79.0	72.4	68.4	64.5	61.9	59.9	58.6	57.9	57.3
50°	88.2	96.1	88.2	74.4	68.4	63.8	61.2	59.2	57.3	56.6	56.6
52.5°	85.6	89.5	91.5	77.0	69.1	63.8	60.5	58.6	57.3	55.9	55.3
55°	79.0	84.2	87.5	75.7	69.1	62.5	59.2	57.3	55.3	54.6	54.0
57.5°	72.4	76.3	84.2	75.7	67.1	61.9	57.9	55.3	54.0	53.3	52.6
59°	70.4	70.4	75.0	77.7	65.8	61.2	57.3	54.6	53.3	52.6	51.3
60°	68.4	68.4	71.1	79.6	65.2	60.5	56.6	54.0	52.0	52.0	51.3
62.5°	65.8	63.8	65.2	74.4	63.2	59.2	55.3	52.6	50.7	50.7	50.0
65°	62.5	59.9	59.9	61.9	59.2	56.6	54.0	51.3	48.7	48.7	49.4
67.5°	59.2	56.6	55.9	55.9	54.6	54.0	51.3	48.7	47.4	47.4	47.4
70°	54.6	52.6	52.0	50.7	50.7	50.0	48.0	46.1	44.8	45.4	44.8
72.5°	49.4	48.0	46.7	46.7	46.1	45.4	43.4	42.1	41.5	42.1	42.1
75°	44.1	42.1	42.1	40.8	40.8	40.1	38.2	37.5	36.9	37.5	38.2
77.5°	37.5	36.2	35.5	35.5	35.5	35.5	32.9	32.2	32.2	33.6	33.6
80°	30.9	30.3	29.6	29.6	29.6	29.0	27.6	27.0	27.0	27.6	28.3
82.5°	23.7	22.4	22.4	23.0	23.7	23.7	21.7	20.4	20.4	21.7	23.0
85°	15.8	15.8	15.8	16.5	16.5	17.1	15.8	13.8	14.5	15.1	17.1
87.5°	8.6	9.2	8.6	7.9	9.2	8.6	8.6	7.9	8.6	9.2	9.9
90°	9.6	9.6	10.0	10.3	9.7	10.3	9.3	9.0	7.7	7.7	9.3
92.5°	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0	8.0	8.0	8.5
100°	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0	19.0	19.0	21.0
102.5°	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0	38.0	39.0	40.5
105°	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0	61.0	61.0	63.0
107.5°	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0	86.0	87.0	88.5



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	117.0	116.0	117.5
112.5°	145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	147.0	147.0	148.0
115°	176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	178.0	177.0	178.0
117.5°	208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	209.0	208.0	209.0
120°	244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	243.0	243.0	244.0
122.5°	278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	277.0	276.0	277.0
125°	311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	310.0	310.0	310.0
127.5°	342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	347.0	345.0	345.5
130°	374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	380.0	379.0	380.0
132.5°	408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	415.0	414.0	414.0
135°	440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	451.0	450.0	448.5
137.5°	470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	482.0	481.0	478.5
140°	498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	511.0	509.0	506.5
142.5°	526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	536.0	534.0	533.5
145°	553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	560.0	558.0	559.5
147.5°	577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	585.0	583.0	584.5
150°	595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	610.0	606.0	604.5
152.5°	610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	628.0	623.0	620.5
155°	627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	641.0	638.0	637.0
157.5°	644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	655.0	650.0	650.0
160°	656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	666.0	660.0	660.5
162.5°	665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	674.0	668.0	669.0
165°	672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	682.0	678.0	679.0
167.5°	681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	694.0	688.0	688.0
170°	688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	701.0	696.0	695.0
172.5°	689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	701.0	696.0	695.0
175°	690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	699.0	694.0	695.0
177.5°	694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	702.0	698.0	699.5
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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CATALOG NUMBER: IST-AF-800-LED-E1-SLR-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9
2.5°	1120.8	1109.6	1103.7	1126.7	1124.7	1105.0	1105.0	1118.8	1119.5	1107.6	1121.4
5°	924.7	913.5	924.0	914.8	920.0	919.4	927.3	912.8	918.7	913.5	901.0
7.5°	685.8	708.1	720.0	704.8	723.9	733.8	720.0	733.8	712.1	694.3	711.4
10°	471.9	496.9	492.3	516.6	525.8	531.1	541.0	528.5	513.3	508.7	496.2
12.5°	365.9	360.6	358.7	368.5	374.5	365.9	373.2	365.3	357.4	343.5	342.9
15°	286.3	277.7	271.8	260.6	256.7	258.6	261.9	261.9	246.1	246.8	252.7
17.5°	217.2	215.2	210.6	201.4	195.5	197.4	196.8	193.5	191.5	192.8	200.1
20°	163.2	161.2	163.9	166.5	164.5	165.2	162.6	159.3	157.9	159.3	160.6
22.5°	129.0	131.6	134.9	138.9	139.5	142.8	142.2	142.8	140.2	138.9	135.6
25°	117.8	119.1	117.1	117.8	117.8	121.1	120.4	120.4	117.8	117.1	117.8
27.5°	104.0	103.3	103.3	104.6	104.6	106.6	107.9	106.6	104.0	103.3	104.0
30°	96.1	95.4	94.8	95.4	94.8	95.4	96.7	96.7	95.4	93.5	94.1
32.5°	88.2	88.2	87.5	88.2	87.5	87.5	88.8	86.9	86.9	86.2	86.2
35°	77.7	79.0	80.3	80.9	80.9	80.9	82.3	80.3	79.6	79.0	79.0
37.5°	67.1	68.4	72.4	74.4	75.0	76.3	77.0	75.7	74.4	73.1	71.7
40°	63.8	63.8	65.2	67.8	70.4	71.1	72.4	70.4	69.8	67.8	65.8
42.5°	61.2	61.9	61.9	62.5	63.2	64.5	66.5	64.5	63.2	61.9	59.9
45°	59.2	59.2	59.2	59.2	58.6	58.6	59.2	57.9	57.3	56.6	56.6
47.5°	57.9	57.3	56.6	55.9	55.3	54.6	54.6	53.3	53.3	53.3	53.3
50°	56.6	55.3	54.6	54.0	52.6	52.6	52.6	51.3	50.7	50.7	51.3
52.5°	54.6	54.0	53.3	52.6	52.0	51.3	51.3	50.0	49.4	49.4	49.4
55°	54.0	53.3	52.0	51.3	50.7	51.3	50.7	50.0	48.7	48.7	48.7
57.5°	52.0	52.6	52.0	50.7	50.7	50.7	50.7	49.4	48.7	47.4	48.0
59°	51.3	52.0	51.3	50.7	50.0	50.7	50.7	48.7	48.0	47.4	47.4
60°	50.7	51.3	50.7	50.0	50.0	50.7	50.0	49.4	48.0	46.1	46.7
62.5°	50.0	50.0	49.4	49.4	48.7	49.4	48.7	47.4	46.1	44.8	44.1
65°	48.7	48.7	48.0	48.0	47.4	47.4	47.4	46.1	44.8	43.4	43.4
67.5°	48.0	47.4	46.7	46.7	46.1	46.1	46.1	44.8	42.8	42.1	41.5
70°	45.4	44.8	44.8	44.1	43.4	44.1	44.8	42.8	40.8	39.5	38.8
72.5°	42.8	42.1	42.1	41.5	41.5	42.1	42.8	40.8	38.2	36.9	36.2
75°	38.8	38.2	38.2	38.2	38.2	39.5	39.5	37.5	35.5	33.6	32.2
77.5°	33.6	34.2	34.2	34.2	34.2	35.5	35.5	34.2	32.2	30.9	29.0
80°	29.0	29.0	29.6	29.6	30.3	30.3	29.6	29.0	28.3	27.0	24.4
82.5°	24.4	24.4	24.4	24.4	24.4	23.7	22.4	23.7	23.7	22.4	20.4
85°	19.1	19.1	19.1	19.7	19.7	17.8	15.8	15.8	17.8	17.1	15.8
87.5°	11.2	11.2	11.8	13.8	12.5	11.8	9.9	10.5	9.9	11.2	9.2
90°	11.6	11.0	11.0	8.7	8.3	7.0	7.0	7.5	8.0	8.0	8.0
92.5°	6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.0	9.5	10.0	11.0	12.0	10.5	9.0	9.0	9.0	8.5	8.0
100°	23.0	24.5	26.0	27.5	29.0	25.0	21.0	16.5	12.0	11.0	10.0
102.5°	42.0	44.5	47.0	48.5	50.0	45.0	40.0	33.5	27.0	22.5	18.0
105°	65.0	67.5	70.0	71.0	72.0	67.5	63.0	55.5	48.0	42.0	36.0
107.5°	90.0	92.0	94.0	94.5	95.0	91.5	88.0	80.5	73.0	65.5	58.0



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	119.0	120.0	121.0	120.5	120.0	117.0	114.0	108.0	102.0	94.5	87.0	0°
112.5°	149.0	149.5	150.0	149.0	148.0	145.5	143.0	138.5	134.0	127.5	121.0	2.5°
115°	179.0	180.5	182.0	180.5	179.0	176.5	174.0	171.0	168.0	163.5	159.0	5°
117.5°	210.0	212.5	215.0	213.0	211.0	208.0	205.0	203.5	202.0	199.5	197.0	7.5°
120°	245.0	247.5	250.0	248.0	246.0	244.5	243.0	240.0	237.0	235.0	233.0	10°
122.5°	278.0	280.5	283.0	281.0	279.0	278.0	277.0	274.0	271.0	269.0	267.0	12.5°
125°	310.0	312.5	315.0	314.0	313.0	311.5	310.0	307.5	305.0	302.0	299.0	15°
127.5°	346.0	346.0	346.0	345.5	345.0	342.5	340.0	339.5	339.0	336.0	333.0	17.5°
130°	381.0	381.0	381.0	379.0	377.0	374.5	372.0	371.0	370.0	368.0	366.0	20°
132.5°	414.0	415.0	416.0	413.5	411.0	408.0	405.0	404.5	404.0	402.5	401.0	22.5°
135°	447.0	447.5	448.0	445.5	443.0	440.0	437.0	436.0	435.0	433.5	432.0	25°
137.5°	476.0	475.5	475.0	474.0	473.0	470.5	468.0	466.0	464.0	462.0	460.0	27.5°
140°	504.0	503.0	502.0	501.0	500.0	498.5	497.0	494.0	491.0	490.0	489.0	30°
142.5°	533.0	533.0	533.0	530.0	527.0	526.0	525.0	523.0	521.0	519.5	518.0	32.5°
145°	561.0	561.5	562.0	559.0	556.0	553.5	551.0	550.5	550.0	548.5	547.0	35°
147.5°	586.0	585.5	585.0	582.5	580.0	577.5	575.0	574.5	574.0	574.0	574.0	37.5°
150°	603.0	601.5	600.0	598.5	597.0	595.0	593.0	593.0	593.0	593.0	593.0	40°
152.5°	618.0	616.0	614.0	612.5	611.0	610.5	610.0	610.0	610.0	609.5	609.0	42.5°
155°	636.0	633.5	631.0	628.5	626.0	627.0	628.0	629.0	630.0	628.5	627.0	45°
157.5°	650.0	649.0	648.0	646.0	644.0	644.5	645.0	645.5	646.0	645.0	644.0	47.5°
160°	661.0	662.5	664.0	661.0	658.0	656.5	655.0	655.0	655.0	655.5	656.0	50°
162.5°	670.0	670.5	671.0	669.0	667.0	665.0	663.0	662.0	661.0	663.0	665.0	52.5°
165°	680.0	678.5	677.0	674.5	672.0	672.5	673.0	673.0	673.0	674.5	676.0	55°
167.5°	688.0	686.0	684.0	681.0	678.0	681.5	685.0	686.5	688.0	687.0	686.0	57.5°
170°	694.0	691.5	689.0	687.5	686.0	688.5	691.0	692.0	693.0	692.5	692.0	59°
172.5°	694.0	693.0	692.0	690.5	689.0	689.5	690.0	690.0	690.0	691.5	693.0	60°
175°	696.0	695.5	695.0	692.5	690.0	690.0	690.0	690.5	691.0	693.0	695.0	62.5°
177.5°	701.0	700.0	699.0	696.5	694.0	694.5	695.0	696.0	697.0	698.0	699.0	65°
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**

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	110°	80.5
1122.8	1125.4	1131.3	1129.3	1151.0	1144.5	1159.6	1180.0	1199.1	1189.9	1192.5	112.5°	113.5
923.3	926.6	901.6	916.8	939.1	929.9	926.6	956.9	949.7	983.9	955.6	115°	153.0
683.8	675.9	664.0	658.1	641.7	641.7	672.6	686.4	684.4	708.1	732.5	117.5°	193.0
480.4	471.2	456.7	452.8	469.2	477.1	491.0	504.8	523.2	550.2	566.0	120°	229.5
352.8	349.5	352.8	362.6	377.8	388.9	410.0	434.4	454.8	476.5	497.5	122.5°	264.0
266.5	273.1	281.7	288.3	300.1	321.2	332.3	359.3	377.8	396.8	421.2	125°	297.5
207.3	211.3	213.2	215.9	225.7	240.9	240.9	268.5	292.9	317.9	338.3	127.5°	331.0
157.9	157.9	151.4	155.3	156.6	155.3	163.2	179.0	194.8	211.3	243.5	130°	364.0
132.3	128.3	126.4	125.7	126.4	129.0	133.6	139.5	142.2	149.4	161.9	132.5°	397.0
117.1	116.5	114.5	114.5	115.8	116.5	121.1	126.4	127.7	129.6	134.3	135°	429.0
103.3	104.6	106.6	106.0	106.6	107.9	111.2	115.8	118.5	119.1	122.4	137.5°	459.5
93.5	94.8	95.4	97.4	97.4	98.1	100.7	105.3	107.3	110.6	113.9	140°	488.0
86.9	87.5	88.2	87.5	88.2	88.2	91.5	96.1	98.7	100.7	102.7	142.5°	517.5
79.6	79.0	79.0	79.0	77.0	76.3	77.7	82.3	82.9	84.9	89.5	145°	545.5
71.1	69.1	67.8	67.8	67.8	68.4	71.7	76.3	77.0	79.0	82.9	147.5°	572.5
63.2	62.5	62.5	63.2	63.8	65.2	67.8	72.4	73.1	75.0	78.3	150°	593.0
59.2	59.2	59.2	59.9	60.5	61.2	64.5	69.1	70.4	72.4	76.3	152.5°	608.5
56.6	57.3	56.6	56.6	57.3	58.6	61.9	67.1	69.1	71.1	75.0	155°	626.0
54.6	54.6	54.6	55.3	55.3	56.6	60.5	65.8	67.1	69.8	75.7	157.5°	643.5
52.0	53.3	52.6	53.3	54.0	55.3	59.2	64.5	66.5	70.4	77.0	160°	657.5
50.7	50.7	50.7	51.3	52.6	53.3	56.6	62.5	65.2	70.4	80.9	162.5°	667.0
50.0	48.7	48.7	49.4	50.7	52.0	55.3	61.2	64.5	69.8	80.3	165°	676.0
49.4	47.4	46.7	47.4	48.7	49.4	53.3	59.2	63.8	67.8	77.7	167.5°	685.0
47.4	46.1	45.4	46.1	47.4	48.7	52.0	57.9	61.2	66.5	74.4	170°	692.0
46.7	44.8	44.8	45.4	46.7	47.4	50.7	56.6	59.9	67.1	76.3	172.5°	694.0
44.1	43.4	43.4	44.1	44.1	45.4	49.4	55.3	57.9	68.4	63.8	175°	696.0
42.1	42.1	42.1	42.1	42.8	43.4	48.0	54.0	55.3	59.2	54.6	177.5°	699.5
40.8	40.8	40.8	40.8	40.8	42.1	46.1	52.0	52.6	52.0	50.0	180°	700.0
38.2	38.2	38.2	38.2	38.8	39.5	43.4	48.7	48.7	47.4	47.4		
36.2	35.5	35.5	35.5	35.5	36.2	40.1	45.4	44.8	44.1	44.1		
32.2	32.2	32.2	32.2	32.2	32.2	36.2	41.5	40.8	40.1	39.5		
28.3	28.3	29.0	28.3	27.6	27.0	30.9	36.9	36.9	36.2	35.5		
24.4	23.7	24.4	23.7	22.4	22.4	25.7	30.9	31.6	30.9	29.6		
19.7	19.1	19.1	19.1	16.5	16.5	19.7	25.0	25.0	24.4	23.0		
15.1	14.5	13.8	13.2	11.2	11.2	13.8	18.4	19.1	16.5	15.8		
7.9	7.9	7.9	5.9	5.3	4.6	7.2	11.2	11.2	9.2	7.9		
7.5	7.0	6.0	5.0	5.0	5.0	6.0	7.7	7.5	8.0	8.0		
5.5	5.0	4.5	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0		
6.5	6.0	5.5	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0		
8.0	8.0	7.5	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5		
9.5	9.0	8.5	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0		
15.5	13.0	12.0	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5		
31.5	27.0	24.5	22.0	21.0	22.0	24.5	27.0	31.5	36.0	42.0		
53.5	49.0	45.5	42.0	41.0	42.0	45.5	49.0	53.5	58.0	65.5		

'227339  
 IST-AF-800-LED-E1-SLR-7030-ULG

REPORT NUMBER: P227339  
 CATALOG NUMBER: IST-AF-800

**TION (continued):**

**CANDELA DISTRIBUTION (con**

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
74.0	71.0	68.0	66.0	68.0	71.0	74.0	80.5	87.0	94.5	0°	1291.9	1291.9
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	1209.0	1214.9
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	976.6	999.7
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	738.4	769.3
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	591.6	612.7
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	519.3	549.5
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	445.5	478.5
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	365.3	405.4
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	279.0	318.5
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	196.1	229.7
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	142.8	157.9
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	127.0	132.9
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	119.1	123.1
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	107.3	111.2
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	94.1	99.4
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	87.5	91.5
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	83.6	84.2
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	80.3	80.3
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	78.3	80.3
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	79.6	88.2
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	89.5	86.9
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	91.5	81.6
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	83.6	78.3
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	75.0	68.4
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	67.1	63.2
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	62.5	61.2
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	57.3	58.6
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	53.3	55.9
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	51.3	53.3
										70°	48.0	49.4
										72.5°	44.8	45.4
										75°	40.1	40.8
										77.5°	35.5	35.5
										80°	29.0	29.0
										82.5°	22.4	21.7
										85°	14.5	13.8
										87.5°	6.6	5.3
										90°	8.0	7.5
										92.5°	6.0	6.0
										95°	7.0	7.0
										97.5°	9.0	9.0
										100°	12.0	16.5
										102.5°	27.0	33.5
										105°	48.0	55.5
										107.5°	73.0	80.5



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CATALOG NUMBER: IST-AF-800-LED-E1-S

0-LED-E1-SLR-7030-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	110°	102.0	108.0	114.0
1244.5	1262.9	1277.4	1274.8	1305.7	1324.1	1326.8	1345.9	1364.3	112.5°	134.0	138.5	143.0
1018.1	1043.8	1068.8	1087.2	1135.9	1176.1	1207.0	1239.9	1278.7	115°	168.0	171.0	174.0
811.5	833.2	874.0	903.6	954.9	1001.7	1047.1	1099.1	1143.2	117.5°	202.0	203.5	205.0
635.7	663.4	701.6	756.8	802.9	856.2	913.5	962.8	1036.5	120°	237.0	240.0	243.0
571.2	588.4	619.9	646.3	703.5	760.1	824.6	892.4	960.2	122.5°	271.0	274.0	277.0
504.8	535.1	564.7	602.8	652.9	714.7	784.5	857.5	933.9	125°	305.0	307.5	310.0
440.3	480.4	512.7	554.1	610.1	688.4	779.2	870.0	959.5	127.5°	339.0	339.5	340.0
361.3	398.8	455.4	497.5	570.6	668.6	785.1	910.8	1031.9	130°	370.0	371.0	372.0
284.3	324.5	388.9	451.5	531.8	658.1	808.8	978.0	1139.9	132.5°	404.0	404.5	405.0
203.4	258.0	321.8	400.8	498.2	651.5	841.1	1060.9	1278.7	135°	435.0	436.0	437.0
152.0	190.2	267.9	354.1	460.7	639.7	875.3	1137.9	1373.5	137.5°	464.0	466.0	468.0
135.6	162.6	213.2	304.1	414.6	616.7	901.0	1210.9	1459.7	140°	491.0	494.0	497.0
118.5	139.5	179.7	256.7	373.2	581.1	912.2	1249.8	1519.6	142.5°	521.0	523.0	525.0
104.0	123.7	164.5	238.2	352.1	541.0	910.2	1288.6	1594.6	145°	550.0	550.5	551.0
94.8	111.9	157.9	233.6	335.6	504.1	912.2	1351.1	1705.8	147.5°	574.0	574.5	575.0
87.5	107.3	152.7	223.8	327.7	483.7	920.0	1406.4	1801.3	150°	593.0	593.0	593.0
87.5	106.0	139.5	209.9	323.8	485.7	923.3	1449.2	1872.3	152.5°	610.0	610.0	610.0
92.1	99.4	129.6	202.0	326.4	500.2	919.4	1492.6	1941.4	155°	630.0	629.0	628.0
87.5	92.8	123.1	200.7	326.4	510.7	931.2	1546.6	2032.3	157.5°	646.0	645.5	645.0
82.9	86.2	121.1	198.8	319.8	520.6	979.9	1647.3	2150.7	160°	655.0	655.0	655.0
77.0	80.9	118.5	195.5	312.6	533.1	1066.2	1816.4	2346.9	162.5°	661.0	662.0	663.0
69.8	77.7	114.5	190.2	308.0	555.5	1154.3	1987.5	2580.5	165°	673.0	673.0	673.0
67.1	74.4	105.3	177.7	303.4	579.8	1248.5	2151.4	2790.4	167.5°	688.0	686.5	685.0
65.2	71.7	97.4	168.5	299.4	591.6	1276.8	2213.9	2871.4	170°	693.0	692.0	691.0
63.8	70.4	92.8	160.6	294.8	592.3	1297.2	2237.6	2883.2	172.5°	690.0	690.0	690.0
61.9	67.8	83.6	144.1	280.4	591.6	1299.1	2252.7	2849.0	175°	691.0	690.5	690.0
58.6	65.2	84.2	135.6	254.0	564.0	1217.5	2179.7	2712.8	177.5°	697.0	696.0	695.0
55.9	63.2	88.8	137.5	226.4	492.9	1064.8	1952.6	2421.2	180°	700.0	700.0	700.0
52.0	61.9	92.8	142.2	218.5	409.3	805.5	1594.6	2027.7				
48.0	61.2	96.1	145.4	209.9	337.0	558.1	1130.6	1517.6				
43.4	55.9	87.5	123.7	173.7	244.8	359.3	739.7	1046.4				
37.5	44.8	63.8	86.9	127.7	171.1	212.6	446.9	684.4				
30.9	33.6	45.4	55.9	84.9	101.4	117.8	252.1	478.5				
23.0	23.7	30.9	35.5	48.0	55.9	70.4	154.7	387.6				
13.2	15.1	21.1	23.7	29.0	35.5	46.1	98.7	304.1				
5.3	6.6	12.5	13.8	15.8	19.7	25.7	57.3	94.8				
7.0	7.0	7.0	8.0	9.0	9.0	9.0	8.0	7.0				
6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0				
7.0	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0				
9.0	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0				
21.0	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0				
40.0	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0				
63.0	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0				
88.0	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0				



REPORT NUMBER: P227339

CATALOG NUMBER: IST-AF-800-LED-E1-SLR-7030-L

SLR-7030-ULG

**CANDELA DISTRIBUTION (continued):**

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	0°	1291.9	1291.9	1291.9	1291.9
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1382.7	1396.5	1408.4	1417.6
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	1320.2	1352.4	1391.3	1424.2
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	1209.0	1249.8	1312.9	1351.8
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	1103.7	1163.6	1232.7	1288.6
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	1031.9	1106.3	1172.1	1234.6
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	1012.2	1087.9	1147.1	1204.4
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	1051.7	1127.4	1178.0	1212.9
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	1144.5	1225.4	1257.7	1255.0
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	1271.5	1356.4	1356.4	1330.1
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	1439.3	1500.5	1466.9	1416.9
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	1558.4	1615.7	1557.1	1474.8
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	1657.1	1699.3	1624.9	1525.5
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	1744.0	1774.9	1676.9	1578.8
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	1848.0	1859.2	1730.9	1626.2
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	1963.2	1972.4	1808.5	1678.2
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	2098.7	2065.8	1865.8	1726.2
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	2182.3	2128.4	1907.2	1751.3
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	2248.1	2174.4	1926.3	1765.7
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	2329.1	2242.2	1959.9	1792.1
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	2435.7	2336.3	2044.8	1866.4
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	2654.2	2531.1	2197.5	1996.1
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	2905.6	2789.1	2441.6	2210.0
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	3107.0	3028.7	2659.5	2403.4
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	3181.3	3147.8	2813.5	2567.3
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	3209.0	3237.9	2895.1	2667.4
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	3228.1	3353.8	3160.3	2966.1
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	3188.6	3372.9	3267.6	3148.4
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	3016.8	3237.3	3216.9	3112.2
								70°	2665.4	2910.9	2981.9	2833.2
								72.5°	2005.3	2310.0	2697.6	2464.7
								75°	1306.4	1588.0	2303.4	2111.2
								77.5°	818.0	991.1	1643.3	1478.8
								80°	544.3	637.1	1043.1	949.7
								82.5°	409.3	451.5	717.3	674.6
								85°	215.9	275.1	558.1	707.5
								87.5°	80.9	90.2	419.9	632.5
								90°	7.0	7.0	8.7	9.0
								92.5°	6.0	6.0	6.0	6.0
								95°	7.0	7.0	7.0	7.0
								97.5°	8.0	8.0	8.5	9.0
								100°	19.0	19.0	21.0	23.0
								102.5°	38.0	39.0	40.5	42.0
								105°	61.0	61.0	63.0	65.0
								107.5°	86.0	87.0	88.5	90.0



REPORT NUMBER: P227339

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

JLG

**CANDELA DISTRIBUTION (continued):**

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9	110°	117.0	116.0	117.5	119.0	120.0
1425.5	1437.3	1444.6	1439.3	1447.9	1449.8	1440.6	112.5°	147.0	147.0	148.0	149.0	149.5
1451.8	1484.7	1508.4	1524.9	1531.4	1537.4	1534.7	115°	178.0	177.0	178.0	179.0	180.5
1403.1	1453.8	1497.9	1528.2	1538.7	1546.6	1539.3	117.5°	209.0	208.0	209.0	210.0	212.5
1349.1	1401.8	1443.3	1473.5	1472.9	1480.8	1466.9	120°	243.0	243.0	244.0	245.0	247.5
1298.5	1349.8	1386.7	1385.3	1376.1	1353.1	1349.1	122.5°	277.0	276.0	277.0	278.0	280.5
1258.3	1285.3	1294.5	1292.5	1266.2	1253.1	1251.1	125°	310.0	310.0	310.0	310.0	312.5
1238.6	1237.3	1216.2	1193.2	1168.2	1166.8	1149.7	127.5°	347.0	345.0	345.5	346.0	346.0
1241.9	1199.1	1160.3	1120.8	1093.8	1087.9	1089.8	130°	380.0	379.0	380.0	381.0	381.0
1283.3	1207.6	1134.6	1094.5	1062.9	1053.6	1057.6	132.5°	415.0	414.0	414.0	414.0	415.0
1335.3	1234.0	1143.2	1081.9	1056.3	1045.1	1047.1	135°	451.0	450.0	448.5	447.0	447.5
1370.2	1264.2	1171.5	1095.8	1060.9	1050.4	1056.9	137.5°	482.0	481.0	478.5	476.0	475.5
1415.0	1305.7	1209.6	1131.3	1079.3	1065.5	1070.1	140°	511.0	509.0	506.5	504.0	503.0
1459.0	1350.5	1263.6	1174.7	1111.6	1085.9	1093.1	142.5°	536.0	534.0	533.5	533.0	533.0
1506.4	1402.5	1314.9	1234.0	1159.6	1119.5	1128.7	145°	560.0	558.0	559.5	561.0	561.5
1561.7	1463.0	1388.0	1313.6	1237.3	1203.7	1207.6	147.5°	585.0	583.0	584.5	586.0	585.5
1615.0	1522.2	1474.2	1418.9	1374.2	1322.8	1322.8	150°	610.0	606.0	604.5	603.0	601.5
1646.6	1599.2	1586.1	1570.3	1543.9	1507.1	1499.2	152.5°	628.0	623.0	620.5	618.0	616.0
1685.4	1690.7	1721.0	1752.6	1760.5	1724.3	1713.1	155°	641.0	638.0	637.0	636.0	633.5
1758.5	1813.8	1913.2	1999.4	2016.5	2046.1	2011.9	157.5°	655.0	650.0	650.0	650.0	649.0
1861.2	1963.2	2131.0	2271.8	2312.0	2314.6	2317.2	160°	666.0	660.0	660.5	661.0	662.5
1978.3	2124.4	2346.2	2514.0	2585.7	2604.8	2591.0	162.5°	674.0	668.0	669.0	670.0	670.5
2179.0	2311.3	2554.2	2735.1	2827.3	2872.0	2860.2	165°	682.0	678.0	679.0	680.0	678.5
2377.8	2542.3	2756.2	2934.6	3032.6	3082.6	3093.2	167.5°	694.0	688.0	688.0	688.0	686.0
2513.4	2667.4	2864.8	3029.3	3126.1	3186.0	3191.2	170°	701.0	696.0	695.0	694.0	691.5
2596.3	2737.1	2929.9	3074.7	3171.5	3222.1	3240.6	172.5°	701.0	696.0	695.0	694.0	693.0
2847.7	2873.3	3005.0	3100.4	3168.2	3191.2	3205.0	175°	699.0	694.0	695.0	696.0	695.5
2965.5	2858.2	2843.1	2902.3	2908.2	2893.1	2874.0	177.5°	702.0	698.0	699.5	701.0	700.0
2801.6	2550.9	2458.1	2450.2	2425.8	2416.0	2355.4	180°	700.0	700.0	700.0	700.0	700.0
2433.1	2071.8	1907.9	1819.0	1873.0	1871.0	1809.2						
2050.0	1682.2	1469.6	1341.9	1326.1	1323.5	1269.5						
1665.0	1320.2	1133.9	1072.1	997.7	975.3	984.5						
1200.4	942.4	902.9	950.3	956.2	939.1	927.3						
756.2	708.8	747.0	833.2	883.9	861.5	870.0						
630.5	558.1	560.7	651.5	685.8	691.0	673.3						
699.6	558.7	458.1	446.9	435.0	273.8	381.1						
630.5	432.4	254.7	209.9	129.0	74.4	77.0						
9.0	9.0	8.0	7.0	7.0	7.0	7.5						
6.5	7.0	7.0	7.0	6.5	6.0	6.0						
7.5	8.0	7.5	7.0	7.0	7.0	7.0						
9.5	10.0	11.0	12.0	10.5	9.0	9.0						
24.5	26.0	27.5	29.0	25.0	21.0	16.5						
44.5	47.0	48.5	50.0	45.0	40.0	33.5						
67.5	70.0	71.0	72.0	67.5	63.0	55.5						
92.0	94.0	94.5	95.0	91.5	88.0	80.5						



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**CANDELA DISTRIBUTION (continued):**

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
121.0	120.5	120.0	117.0	114.0	108.0	0°	1291.9	1291.9	1291.9	1291.9	1291.9	1291.9
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1438.6	1426.1	1412.3	1393.9	1397.2	1374.8
182.0	180.5	179.0	176.5	174.0	171.0	5°	1514.3	1492.6	1463.0	1425.5	1390.6	1345.9
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	1506.4	1471.6	1422.2	1365.6	1319.5	1255.0
250.0	248.0	246.0	244.5	243.0	240.0	10°	1438.6	1393.2	1353.1	1294.5	1234.6	1178.0
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	1343.9	1318.2	1283.3	1239.2	1181.3	1123.4
315.0	314.0	313.0	311.5	310.0	307.5	15°	1240.6	1242.5	1221.5	1209.6	1180.7	1134.6
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	1155.7	1175.4	1186.6	1205.0	1208.3	1185.9
381.0	379.0	377.0	374.5	372.0	371.0	20°	1099.1	1126.7	1161.6	1212.3	1265.6	1288.6
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	1067.5	1101.7	1157.6	1249.8	1347.2	1405.7
448.0	445.5	443.0	440.0	437.0	436.0	25°	1061.5	1107.0	1185.3	1297.8	1424.2	1506.4
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	1071.4	1130.6	1223.4	1351.8	1476.2	1595.3
502.0	501.0	500.0	498.5	497.0	494.0	30°	1103.0	1172.1	1273.5	1411.7	1540.7	1659.1
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	1133.3	1218.8	1330.7	1465.6	1595.3	1713.1
562.0	559.0	556.0	553.5	551.0	550.5	35°	1182.0	1268.2	1382.7	1507.1	1632.8	1766.4
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	1256.3	1332.0	1423.5	1539.3	1670.3	1808.5
600.0	598.5	597.0	595.0	593.0	593.0	40°	1362.3	1412.3	1471.6	1563.0	1688.7	1836.8
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	1520.9	1531.4	1551.8	1599.2	1705.2	1869.7
631.0	628.5	626.0	627.0	628.0	629.0	45°	1725.6	1694.0	1676.2	1669.6	1742.0	1890.8
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	1963.2	1901.3	1830.2	1796.0	1813.1	1924.3
664.0	661.0	658.0	656.5	655.0	655.0	50°	2272.5	2171.8	2032.3	1933.6	1925.0	2023.1
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	2556.1	2424.5	2248.8	2132.3	2084.9	2207.3
677.0	674.5	672.0	672.5	673.0	673.0	55°	2824.0	2722.6	2523.9	2379.1	2362.6	2451.5
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	3058.9	2971.4	2808.9	2620.0	2626.6	2712.8
689.0	687.5	686.0	688.5	691.0	692.0	59°	3180.7	3107.6	2956.9	2764.8	2779.2	2897.7
692.0	690.5	689.0	689.5	690.0	690.0	60°	3224.1	3162.9	3019.4	2857.6	2876.0	2999.0
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	3220.8	3181.3	3077.4	3001.0	3095.1	3185.3
699.0	696.5	694.0	694.5	695.0	696.0	65°	2913.5	2853.6	2841.8	2975.4	3157.0	3243.9
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	2317.2	2345.5	2458.1	2687.8	2992.5	3118.8
						70°	1721.0	1771.0	1921.0	2209.3	2627.9	2846.4
						72.5°	1265.6	1315.6	1453.8	1769.7	2161.9	2355.4
						75°	993.1	1008.2	1107.6	1355.7	1703.9	1862.5
						77.5°	917.4	872.0	831.2	964.1	1149.1	1285.3
						80°	854.2	768.0	671.9	712.1	756.8	901.6
						82.5°	663.4	606.1	531.1	582.4	603.5	608.1
						85°	388.3	345.5	437.6	619.9	613.4	537.0
						87.5°	136.9	177.7	200.1	343.5	415.3	359.3
						90°	8.0	10.0	13.9	14.1	16.9	9.3
						92.5°	6.0	6.0	6.0	5.5	5.0	4.5
						95°	7.0	7.0	7.0	6.5	6.0	5.5
						97.5°	9.0	8.5	8.0	8.0	8.0	7.5
						100°	12.0	11.0	10.0	9.5	9.0	8.5
						102.5°	27.0	22.5	18.0	15.5	13.0	12.0
						105°	48.0	42.0	36.0	31.5	27.0	24.5
						107.5°	73.0	65.5	58.0	53.5	49.0	45.5



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**CANDELA DISTRIBUTION (continued):**

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1291.9	1291.9	1291.9	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1357.0	1338.6	1337.3	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1310.3	1268.9	1255.7	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
1199.1	1151.0	1141.2	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
1105.6	1052.3	1043.1	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
1057.6	1006.9	995.7	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
1076.0	1020.1	1014.2	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
1145.1	1085.9	1088.5	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1263.6	1225.4	1216.2	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1418.9	1377.4	1365.6	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1551.2	1530.1	1522.2	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
1646.6	1656.5	1648.6	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
1723.0	1755.9	1751.9	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
1801.3	1865.1	1867.7	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
1859.2	1971.7	1994.8	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
1933.6	2084.3	2108.0	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
1990.2	2167.2	2196.1	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
2045.4	2235.6	2267.2	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
2090.8	2303.4	2335.7	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
2142.2	2369.2	2400.8	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
2234.3	2472.6	2510.1	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
2432.4	2664.1	2717.4	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
2718.7	2928.6	2970.7	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
2976.7	3108.3	3119.5	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
3082.6	3157.7	3154.4	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
3160.3	3169.5	3151.1	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
3202.4	3114.9	3083.3	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
3092.5	2970.7	2929.3	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
2775.3	2710.8	2663.4	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
2360.7	2197.5	2166.5								
1789.4	1574.2	1528.2								
1250.4	992.4	929.9								
822.0	637.1	613.4								
533.1	423.2	415.9								
371.8	277.7	256.0								
228.4	92.8	88.8								
71.1	42.8	38.2								
7.0	7.6	7.6								
4.0	4.0	4.0								
5.0	5.0	5.0								
7.0	7.0	7.0								
8.0	8.0	8.0								
11.0	11.0	11.0								
22.0	21.2	21.0								
42.0	41.2	41.0								



359°	360°
66.4	66.0
99.0	99.0
139.8	140.0
184.0	184.0
224.6	225.0
262.4	263.0
297.2	298.0
329.8	330.0
362.6	363.0
395.6	396.0
428.4	429.0
459.4	460.0
487.4	488.0
517.4	518.0
549.2	550.0
574.4	575.0
594.4	595.0
610.4	611.0
628.2	629.0
645.4	646.0
662.4	663.0
672.2	673.0
680.4	681.0
689.4	690.0
697.4	698.0
698.6	699.0
699.6	700.0
706.6	707.0
700.0	700.0

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