

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: P227221

Luminaire Tested: **IST-AF-350-LED-E1-SLL-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227221  
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-350-LED-E1-SLL-8030-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, WITH  
UPLIGHT GLOW  
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3494.3 lumens  
Efficiency: N/A  
Efficacy: 95.0 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: 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

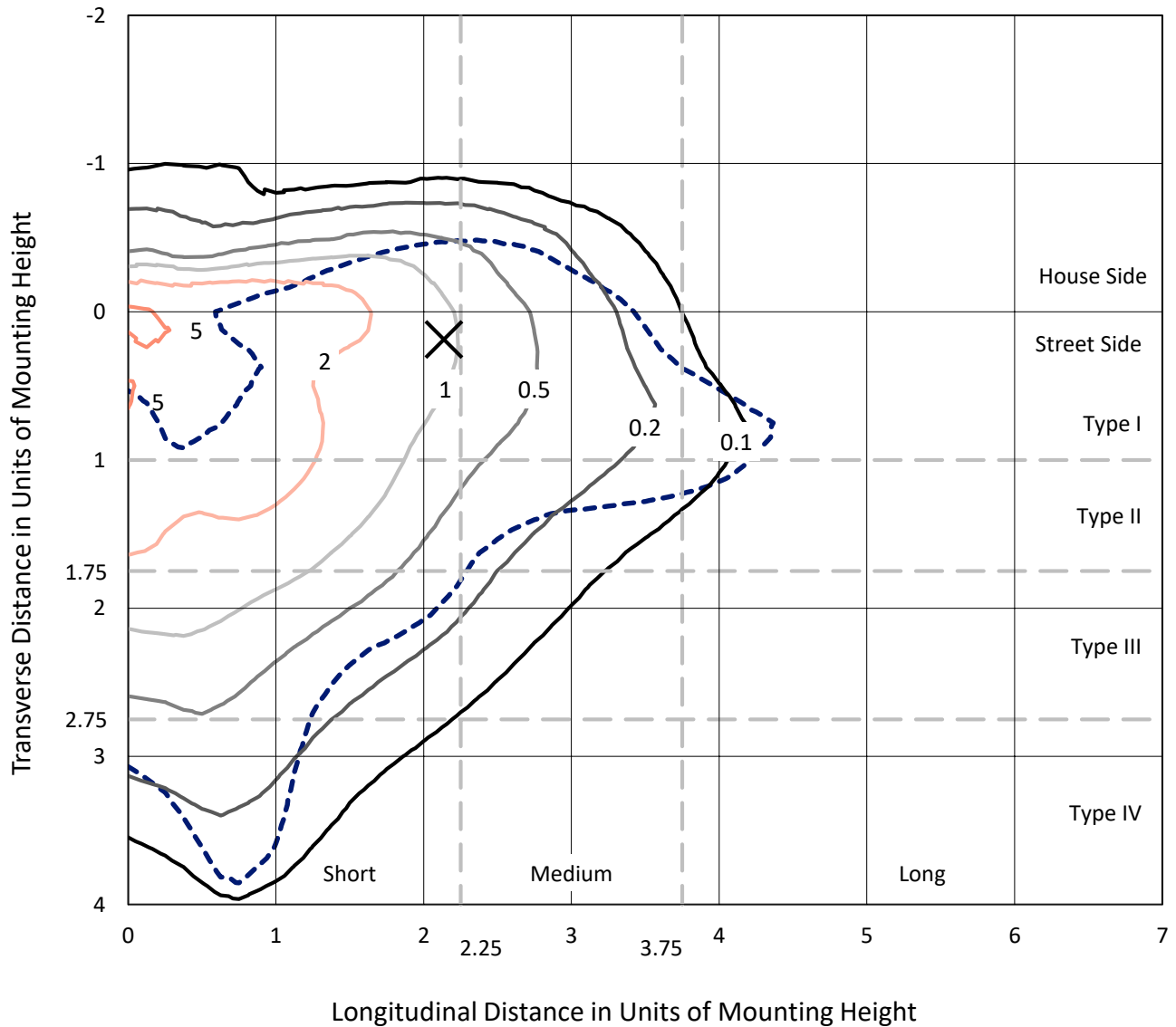


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### Iso-Footcandle Lines of Horizontal Illumination

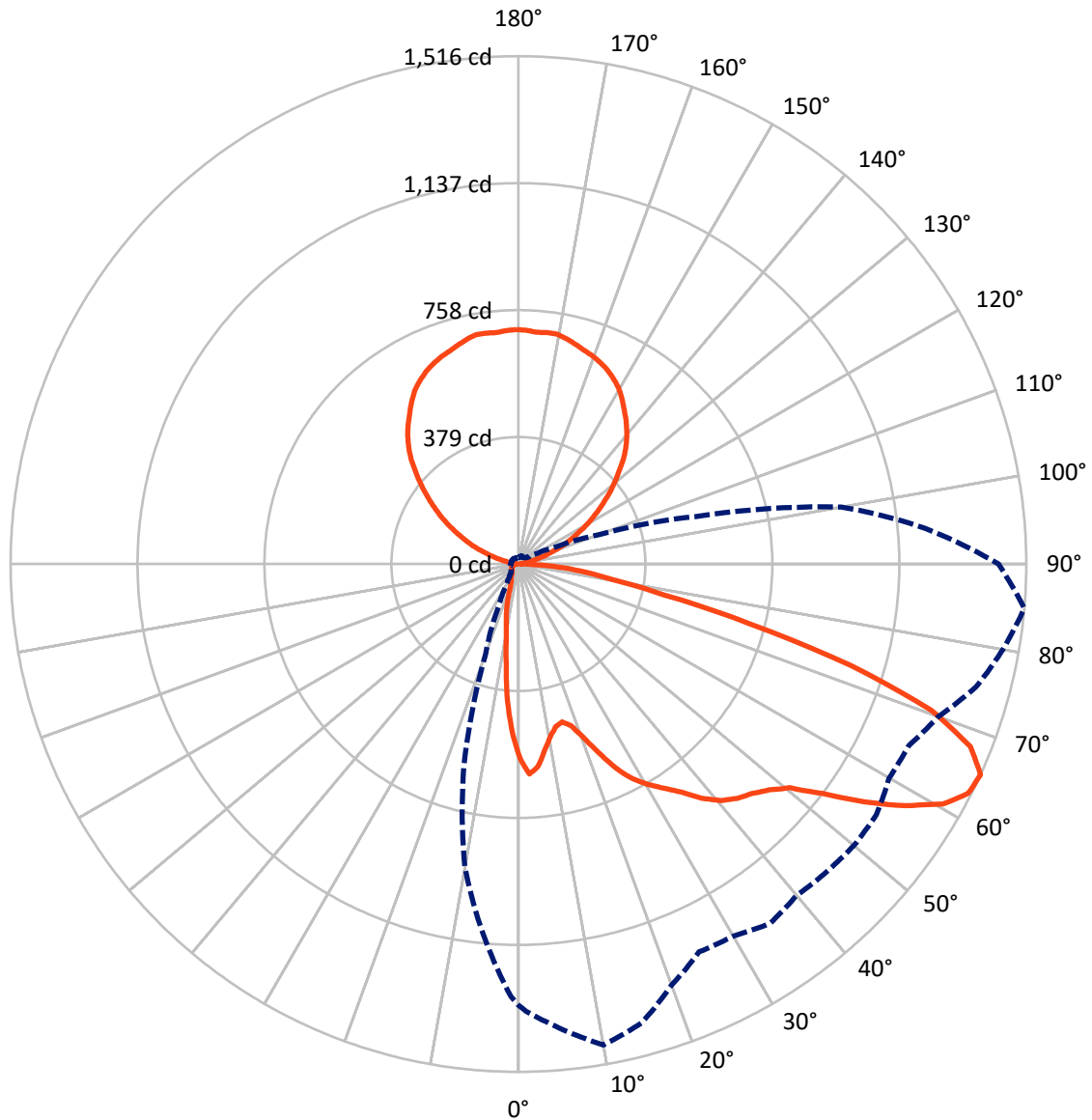
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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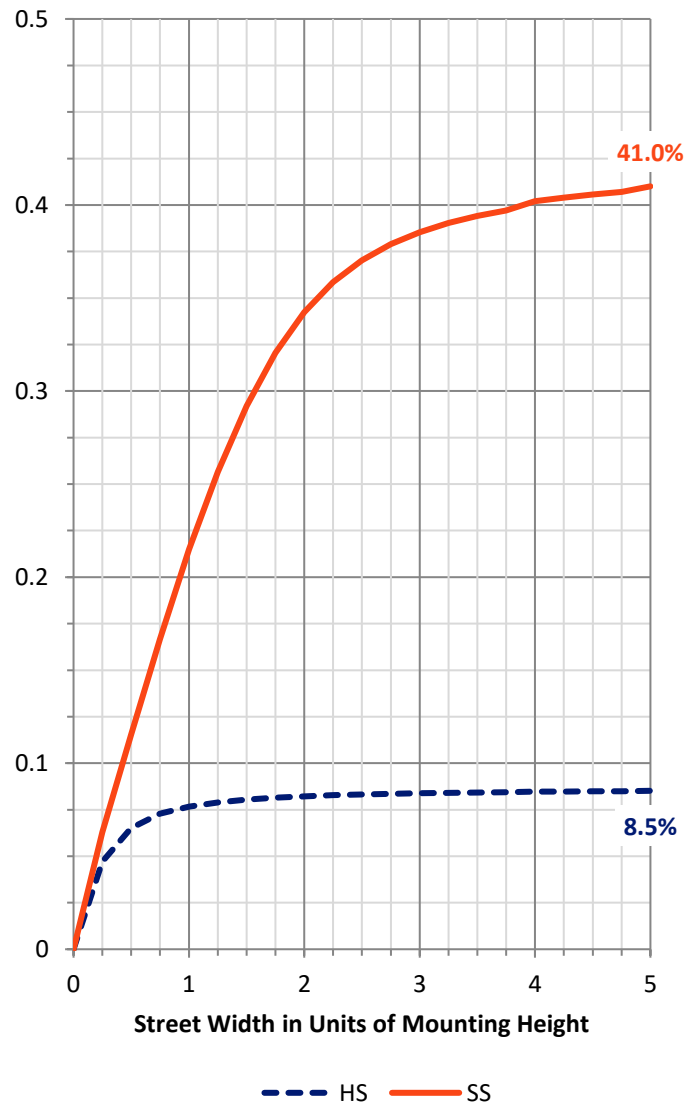
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	302.1	867.6	1169.7
	% Fixture	8.6	24.8	33.5
<b>Street Side</b>	Lumens	1457.0	867.6	2324.6
	% Fixture	41.7	24.8	66.5
<b>Total</b>	Lumens	1759.1	1735.2	3494.3
	% Fixture	50.3	49.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.0	1.2
10°-20°	82.8	2.4
20°-30°	118.1	3.4
30°-40°	171.3	4.9
40°-50°	245.0	7.0
50°-60°	376.2	10.8
60°-70°	435.4	12.5
70°-80°	222.1	6.4
80°-90°	65.1	1.9
90°-100°	9.3	0.3
100°-110°	57.4	1.6
110°-120°	166.1	4.8
120°-130°	273.2	7.8
130°-140°	336.8	9.6
140°-150°	344.6	9.9
150°-160°	290.3	8.3
160°-170°	191.2	5.5
170°-180°	66.3	1.9
0°-90°	1759.1	50.3
0°-180°	3494.3	100.0



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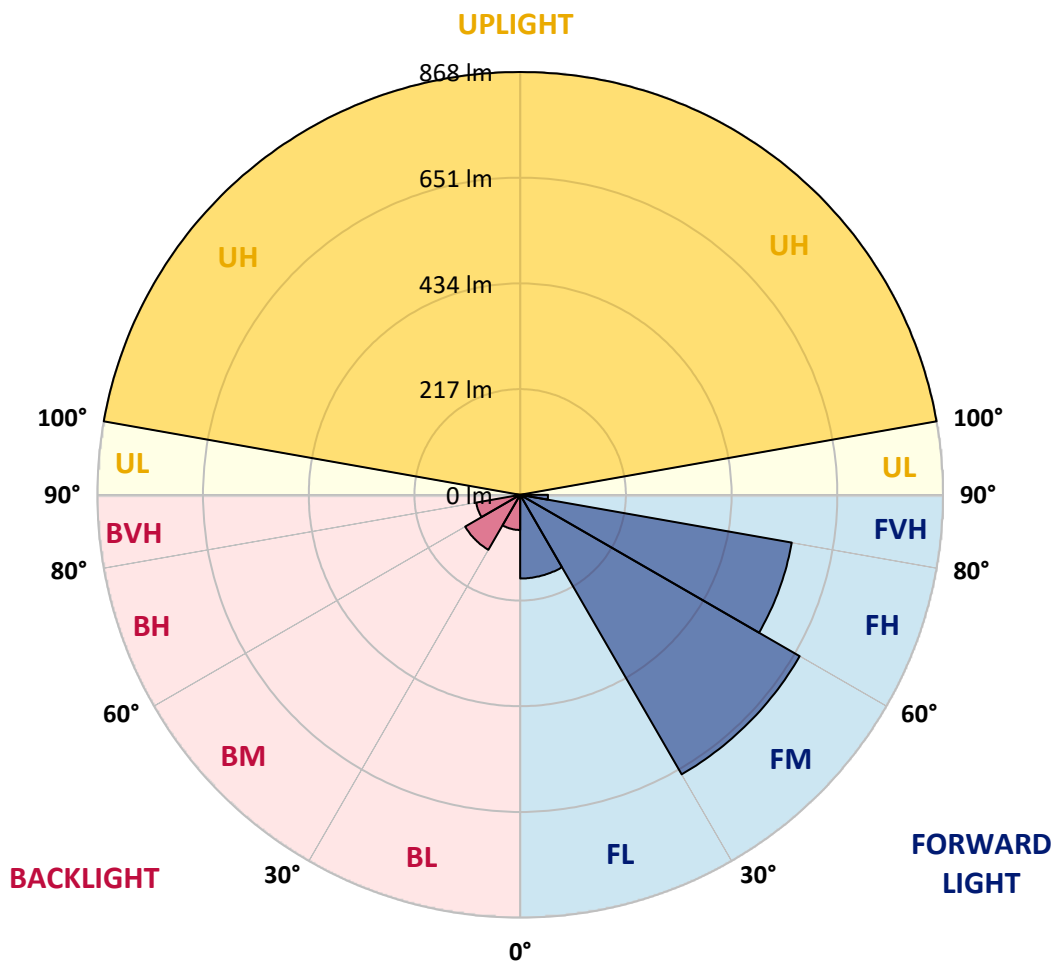
CATALOG NUMBER: IST-AF-350-LED-E1-SLL-8030-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	171.7	4.9			
FM (30°-60°)	662.3	19.0			
FH (60°-80°)	565.8	16.2			G0/660
FVH (80°-90°)	57.2	1.6			G1/100
BL (0°-30°)	72.2	2.1	B0/110		
BM (30°-60°)	130.2	3.7	B0/220		
BH (60°-80°)	91.7	2.6	B0/110		G0/110
BVH (80°-90°)	8.0	0.2			G0/10
UL (90°-100°)	9.3	0.3		U1/10	
UH (100°-180°)	867.6	24.8		U4/1000	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	601.2	601.8	610.1	618.1	628.2	626.7	635.0	641.2	646.8	647.7	651.8
5°	564.5	570.5	589.1	605.1	625.2	640.9	657.7	671.1	680.8	690.0	691.2
7.5°	513.1	517.5	539.1	564.2	593.2	613.9	639.4	661.6	677.3	692.1	695.3
10°	469.0	473.1	497.1	529.6	555.1	582.0	608.3	626.4	646.8	659.5	665.7
12.5°	447.7	452.7	475.5	505.1	531.1	557.1	577.0	592.6	604.2	606.6	608.3
15°	455.9	458.6	483.8	510.1	530.8	543.8	549.2	558.6	557.7	562.5	563.4
17.5°	489.4	488.2	514.8	533.2	543.2	541.8	533.5	528.4	519.6	516.9	524.6
20°	546.8	550.9	568.1	579.3	569.0	545.0	522.2	506.5	494.1	490.0	489.1
22.5°	613.9	619.3	637.9	632.0	605.7	561.9	520.5	495.3	479.9	475.5	473.7
25°	684.4	687.9	697.4	677.3	640.3	583.5	532.9	497.7	477.3	470.7	469.9
27.5°	741.2	744.7	740.3	717.2	663.7	607.7	550.0	508.3	481.7	475.2	472.2
30°	787.6	789.4	774.6	745.9	692.7	634.7	572.5	527.0	495.9	481.1	479.0
32.5°	839.7	838.5	809.8	770.2	717.2	658.9	598.3	548.0	509.5	491.5	488.2
35°	896.8	886.5	835.9	794.1	734.1	677.6	621.6	570.2	531.4	507.4	503.3
37.5°	947.7	937.0	869.3	813.1	750.9	692.1	640.0	598.9	564.8	542.9	541.2
40°	987.3	974.3	894.7	825.8	759.2	702.7	661.6	635.0	612.5	594.7	594.7
42.5°	1019.3	1005.1	919.6	840.6	766.6	719.0	697.7	688.5	683.8	674.0	677.6
45°	1050.1	1035.6	940.0	850.1	783.2	750.6	753.6	761.6	775.8	770.2	775.2
47.5°	1079.4	1065.2	963.1	865.2	815.1	807.5	822.8	854.8	882.6	904.5	919.9
50°	1128.5	1111.6	1004.5	909.5	865.4	869.3	913.7	976.4	1021.7	1041.8	1040.6
52.5°	1221.7	1197.7	1093.6	992.4	937.3	958.6	1011.0	1090.0	1149.2	1164.9	1171.1
55°	1335.6	1316.7	1222.3	1102.1	1062.2	1069.6	1134.7	1224.1	1269.6	1285.9	1291.2
57.5°	1402.5	1397.4	1338.3	1219.6	1180.9	1177.9	1262.8	1335.9	1375.2	1390.6	1385.9
59°	1418.1	1419.6	1385.9	1302.8	1249.5	1243.0	1329.4	1397.1	1430.0	1434.7	1432.4
60°	1416.7	1425.0	1420.8	1348.3	1293.0	1284.7	1357.5	1422.0	1449.5	1456.9	1448.6
62.5°	1386.2	1400.4	1439.7	1432.1	1391.5	1349.2	1383.5	1430.3	1448.0	1440.9	1434.7
65°	1317.0	1335.6	1390.3	1458.4	1419.3	1337.7	1277.6	1282.9	1309.9	1292.1	1300.7
67.5°	1197.4	1218.7	1247.7	1402.2	1345.4	1208.4	1105.1	1054.5	1041.8	1059.0	1086.2
70°	974.0	987.9	1061.3	1279.7	1181.4	993.3	863.7	796.2	773.7	813.4	841.2
72.5°	687.0	707.7	804.5	1059.0	972.0	795.6	653.6	591.5	569.0	570.8	595.0
75°	418.1	446.2	562.2	837.3	766.0	609.5	498.0	453.3	446.5	442.6	438.5
77.5°	275.8	286.4	369.6	577.9	516.6	433.5	373.7	392.0	412.5	416.9	422.2
80°	187.0	190.3	239.7	405.4	340.3	320.1	302.1	345.3	384.1	391.2	387.3
82.5°	115.1	124.9	167.2	273.4	271.3	261.9	238.8	272.5	298.2	302.7	310.7
85°	39.9	41.7	102.7	241.4	275.8	278.7	196.8	155.3	174.6	171.3	123.1
87.5°	17.2	19.2	32.0	161.6	186.7	154.4	89.9	79.9	61.5	34.6	33.4
90°	6.2	6.2	5.9	7.5	11.4	10.5	10.7	8.9	8.0	7.5	7.0
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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**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°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	650.9	647.1	649.5	646.2	640.9	637.3	633.2	627.9	621.6	613.4	605.1
5°	688.5	685.6	678.2	667.5	652.7	640.3	625.5	608.0	593.5	574.9	557.4
7.5°	691.8	687.0	673.4	653.6	630.8	607.7	590.3	561.9	543.5	513.9	494.1
10°	662.2	662.5	648.9	630.2	606.6	579.3	554.2	523.1	496.2	466.0	432.9
12.5°	618.7	622.8	623.4	606.8	583.8	555.1	527.0	497.4	463.9	431.7	401.2
15°	569.3	581.1	582.0	577.9	565.7	541.5	515.7	489.1	455.1	419.9	385.5
17.5°	525.2	536.4	546.8	556.3	556.8	545.3	529.6	506.8	472.8	431.4	391.2
20°	491.8	503.9	521.6	539.1	558.3	564.2	565.4	550.9	514.5	463.9	409.5
22.5°	477.8	492.0	510.1	542.9	577.0	598.0	609.8	609.8	571.6	512.5	439.7
25°	474.9	486.4	513.9	554.8	600.3	637.0	659.5	674.6	647.1	574.9	477.0
27.5°	477.0	492.6	526.7	568.4	616.0	663.1	700.1	726.4	700.6	617.5	511.6
30°	485.2	508.6	543.8	587.0	636.1	685.8	730.5	764.0	745.0	656.3	544.4
32.5°	499.7	528.1	568.1	607.1	656.0	709.8	753.9	798.0	784.1	683.2	561.9
35°	521.3	554.8	591.2	630.5	677.3	731.1	778.2	835.9	830.8	716.9	579.3
37.5°	556.3	590.6	624.0	657.7	702.1	754.5	813.1	886.7	882.6	766.9	607.4
40°	617.8	637.9	662.8	684.4	726.1	776.1	838.8	928.8	943.6	809.8	632.3
42.5°	694.1	706.0	713.1	719.0	740.3	787.3	857.5	956.9	981.1	841.8	651.5
45°	791.5	787.9	773.7	760.1	757.7	793.8	866.0	977.6	1010.7	872.8	671.1
47.5°	906.6	898.9	860.1	815.4	790.6	805.7	881.1	1008.1	1047.1	913.7	695.3
50°	1039.4	1021.4	958.1	882.6	836.7	839.1	919.3	1050.4	1095.0	966.9	740.6
52.5°	1162.5	1130.3	1054.8	955.1	889.4	897.4	987.9	1138.0	1193.3	1055.1	816.6
55°	1271.1	1229.7	1148.3	1039.1	979.7	993.6	1097.7	1253.9	1306.3	1160.1	893.6
57.5°	1363.4	1319.3	1239.1	1143.0	1069.0	1080.6	1195.6	1361.6	1396.8	1254.5	967.2
59°	1405.4	1361.9	1288.0	1199.2	1130.0	1154.2	1264.9	1415.2	1430.3	1290.9	995.3
60°	1425.8	1382.3	1317.3	1230.6	1167.2	1199.2	1301.6	1455.7	1442.7	1296.2	1006.0
62.5°	1424.4	1393.9	1351.0	1291.8	1280.3	1333.5	1420.8	1507.8	1451.3	1280.9	1012.8
65°	1307.5	1304.8	1278.2	1285.0	1333.2	1415.5	1469.0	1516.4	1433.5	1219.6	980.0
67.5°	1090.6	1101.6	1105.1	1146.8	1259.6	1399.2	1446.3	1455.4	1356.3	1088.5	877.9
70°	842.1	817.8	857.8	931.4	1093.9	1273.8	1340.6	1308.7	1198.3	911.6	716.9
72.5°	596.2	603.3	660.7	756.3	921.7	1108.1	1212.8	1038.5	901.5	682.3	508.3
75°	448.6	482.0	509.8	593.5	748.6	949.2	1035.6	714.0	587.3	470.4	332.6
77.5°	429.9	427.2	405.9	423.7	539.7	664.8	738.8	445.6	367.8	307.7	200.9
80°	397.4	374.6	335.8	318.7	340.0	427.0	469.0	286.4	244.7	215.1	113.3
82.5°	308.3	292.9	252.1	250.9	283.5	303.3	322.5	203.0	184.0	174.3	69.5
85°	195.6	200.9	205.9	251.2	314.5	318.1	250.9	123.7	97.0	136.7	44.4
87.5°	58.0	94.4	114.5	194.4	283.5	284.3	188.8	40.5	36.4	42.6	25.7
90°	7.0	7.0	8.0	9.0	9.0	9.0	8.3	7.0	7.0	7.0	8.0
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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CATALOG NUMBER: IST-AF-350-LED-E1-SLL-8030-ULG

**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-350-LED-E1-SLL-8030-ULG

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	596.5	595.3	587.0	573.1	574.3	567.8	559.5	546.2	543.5	536.1	534.9
5°	542.6	528.7	510.7	488.8	480.5	469.3	457.7	449.4	439.1	429.6	442.3
7.5°	470.7	450.3	429.3	406.2	392.9	374.6	364.8	345.9	332.0	329.3	318.4
10°	410.7	384.9	361.0	340.3	315.4	298.2	285.8	275.5	266.0	254.5	247.4
12.5°	370.7	341.7	316.3	290.6	278.7	264.5	256.8	247.1	233.4	223.7	214.2
15°	352.7	321.3	293.5	271.0	253.9	240.5	226.9	215.1	200.3	189.4	178.4
17.5°	350.3	309.5	274.3	249.1	230.5	216.0	197.9	182.3	164.2	152.1	142.9
20°	353.0	300.6	256.5	223.7	204.7	179.3	162.4	143.2	125.5	109.5	95.0
22.5°	363.6	295.9	239.1	203.0	174.9	145.9	127.8	103.3	88.2	72.8	67.2
25°	378.1	292.9	224.0	180.2	144.7	116.0	91.4	71.0	64.2	60.4	58.3
27.5°	393.5	287.6	207.1	159.2	120.4	85.5	68.3	59.8	57.1	55.0	53.6
30°	405.1	277.2	186.4	136.7	95.9	73.1	61.0	55.3	53.6	51.2	49.7
32.5°	410.1	261.3	167.8	115.4	80.8	62.7	53.3	50.0	48.2	46.2	45.3
35°	409.2	243.2	158.3	107.1	74.0	55.6	46.7	44.7	42.3	40.2	38.2
37.5°	410.1	226.6	150.9	105.0	71.0	50.3	42.6	41.1	39.4	37.3	35.5
40°	413.6	217.5	147.3	100.6	68.6	48.2	39.4	37.9	37.6	35.2	33.7
42.5°	415.1	218.4	145.6	94.4	62.7	47.6	39.4	36.1	36.1	34.3	32.5
45°	413.3	224.9	146.8	90.8	58.3	44.7	41.4	36.1	35.2	33.7	32.0
47.5°	418.7	229.6	146.8	90.2	55.3	41.7	39.4	39.6	35.8	34.0	31.4
50°	440.6	234.0	143.8	89.4	54.4	38.8	37.3	39.1	40.2	34.6	31.7
52.5°	479.3	239.7	140.5	87.9	53.3	36.4	34.6	36.7	41.1	36.4	31.7
55°	519.0	249.7	138.5	85.5	51.5	34.9	31.4	35.2	37.6	36.1	31.4
57.5°	561.3	260.7	136.4	79.9	47.3	33.4	30.2	30.8	33.7	34.9	30.5
59°	574.0	266.0	134.6	75.7	43.8	32.3	29.3	28.4	30.2	33.4	29.9
60°	583.2	266.3	132.6	72.2	41.7	31.7	28.7	27.5	28.1	34.3	30.2
62.5°	584.1	266.0	126.0	64.8	37.6	30.5	27.8	26.3	25.7	28.7	30.8
65°	547.4	253.6	114.2	61.0	37.9	29.3	26.3	25.1	24.0	24.6	26.6
67.5°	478.7	221.6	101.8	61.8	39.9	28.4	25.1	24.0	23.1	22.5	23.4
70°	362.2	184.0	98.2	63.9	41.7	27.8	23.4	22.2	21.6	21.3	21.3
72.5°	250.9	151.5	94.4	65.4	43.2	27.5	21.6	20.4	20.1	19.8	19.8
75°	161.6	110.1	78.1	55.6	39.4	25.1	19.5	18.3	18.0	17.8	18.0
77.5°	95.6	76.9	57.4	39.1	28.7	20.1	16.9	16.0	16.0	16.0	16.3
80°	53.0	45.6	38.2	25.1	20.4	15.1	13.9	13.0	13.0	13.3	13.9
82.5°	31.7	25.1	21.6	16.0	13.9	10.7	10.4	9.8	10.1	10.4	10.9
85°	20.7	16.0	13.0	10.7	9.5	6.8	5.9	6.2	6.5	7.1	7.4
87.5°	11.5	8.9	7.1	6.2	5.6	3.0	2.4	2.4	3.0	3.6	4.1
90°	9.0	9.0	9.0	8.0	7.0	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°
580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	110°	80.5
539.1	530.5	521.3	514.5	517.5	507.7	508.6	506.0	504.8	504.2	498.0	112.5°	113.5
427.0	430.2	416.6	418.1	422.2	412.2	405.4	416.6	415.1	405.1	410.7	115°	153.0
307.7	308.6	302.4	288.5	288.5	295.9	298.5	303.9	307.4	319.8	312.2	117.5°	193.0
235.2	226.9	220.7	214.5	211.0	203.6	205.3	211.8	216.0	223.1	228.7	120°	229.5
204.5	195.3	184.3	174.9	169.8	163.0	158.6	157.1	158.6	154.2	154.4	122.5°	264.0
169.8	161.6	149.4	144.4	134.9	129.6	126.6	122.8	119.8	113.6	111.0	125°	297.5
131.7	120.7	108.3	108.3	101.5	97.0	95.9	95.0	93.2	89.9	86.7	127.5°	331.0
87.6	80.5	73.4	69.8	70.4	69.8	68.1	71.0	71.0	72.2	71.6	130°	364.0
63.9	62.7	60.1	58.0	56.8	56.5	56.8	57.7	59.5	61.0	62.4	132.5°	397.0
57.4	56.8	54.4	52.4	52.1	51.5	51.5	52.4	52.7	53.0	52.7	135°	429.0
53.3	52.1	50.0	48.5	47.9	47.6	47.9	47.0	46.5	46.7	46.5	137.5°	459.5
48.2	47.3	45.3	44.1	43.8	43.8	42.9	42.6	42.0	42.3	42.0	140°	488.0
44.4	43.2	41.1	39.6	39.6	39.4	39.6	39.4	39.1	38.8	38.8	142.5°	517.5
37.3	37.0	34.9	34.3	34.6	35.5	35.5	35.5	35.8	35.5	35.5	145°	545.5
34.6	34.3	32.3	30.8	30.5	30.5	30.5	31.1	32.0	32.3	32.8	147.5°	572.5
32.8	32.5	30.5	29.3	28.7	28.4	28.1	28.1	28.4	29.6	30.5	150°	593.0
31.7	31.1	29.0	27.5	27.2	26.9	26.6	26.6	26.6	26.9	27.8	152.5°	608.5
31.1	30.2	27.8	26.3	25.7	25.4	25.4	25.7	25.4	25.4	25.4	155°	626.0
30.2	29.6	27.2	25.4	24.9	24.9	24.6	24.6	24.6	24.0	24.0	157.5°	643.5
29.9	29.0	26.6	24.9	24.3	24.0	23.7	24.0	23.4	23.1	22.8	160°	657.5
29.3	28.1	25.4	24.0	23.7	23.1	22.8	22.8	22.8	22.2	22.2	162.5°	667.0
29.0	27.5	24.9	23.4	22.8	22.2	21.9	21.9	22.5	21.9	21.9	165°	676.0
28.7	26.6	24.0	22.2	21.9	21.3	21.0	21.3	22.2	21.6	21.3	167.5°	685.0
27.5	26.0	23.4	21.9	21.3	20.7	20.4	20.7	21.3	21.3	21.3	170°	692.0
26.9	25.4	22.8	21.3	21.0	20.4	20.1	20.1	21.0	21.0	20.7	172.5°	694.0
26.0	24.9	22.2	20.4	19.8	19.8	19.5	19.5	19.8	19.8	20.1	175°	696.0
24.9	24.3	21.6	19.5	19.2	18.9	18.9	18.9	18.9	19.5	19.5	177.5°	699.5
23.7	23.4	20.7	18.9	18.3	18.3	18.3	18.3	18.3	18.6	18.9	180°	700.0
21.9	21.9	19.5	17.8	17.5	17.2	17.2	17.2	17.2	17.5	17.8		
20.1	20.4	18.0	16.3	16.0	16.0	16.0	16.0	16.3	16.3	16.6		
18.3	18.6	16.3	14.5	14.5	14.5	14.5	14.5	14.5	14.5	15.1		
16.6	16.6	13.9	12.1	12.4	12.7	13.0	12.7	12.7	13.0	13.9		
14.2	13.9	11.5	10.1	10.1	10.7	10.9	10.7	10.9	10.9	12.1		
11.2	11.2	8.9	7.4	7.4	8.6	8.6	8.6	8.9	9.2	10.1		
8.6	8.3	6.2	5.0	5.0	5.9	6.2	6.5	6.8	7.1	7.7		
5.0	5.0	3.3	2.1	2.4	2.7	3.6	3.6	3.6	4.1	5.0		
7.5	7.3	6.0	5.0	5.0	5.0	6.0	7.0	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		

'227221  
 IST-AF-350-LED-E1-SLL-8030-ULG

REPORT NUMBER: P227221  
 CATALOG NUMBER: IST-AF-350

**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°	580.8	580.8
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	503.3	503.0
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	413.0	410.4
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	320.1	329.9
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	230.8	237.6
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	160.7	164.2
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	110.7	117.8
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	86.1	87.0
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	71.0	71.6
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	63.0	64.2
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	53.0	54.1
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	46.7	47.9
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	42.9	43.5
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	39.1	39.1
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	35.8	36.1
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	33.4	34.0
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	31.4	31.7
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	28.4	29.0
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	25.7	26.0
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	24.0	24.0
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	22.8	23.1
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	22.2	22.5
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	21.9	22.5
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	21.9	22.2
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	21.6	21.9
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	21.6	22.2
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	20.7	21.3
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	20.1	20.7
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	19.2	20.1
										70°	18.3	19.2
										72.5°	17.2	18.3
										75°	16.0	16.9
										77.5°	14.5	15.4
										80°	12.7	13.0
										82.5°	10.7	10.7
										85°	8.0	7.1
										87.5°	4.4	4.7
										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-350-LED-E1-S

0-LED-E1-SLL-8030-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	110°	102.0	108.0	114.0
496.8	496.8	505.7	506.5	496.2	498.9	503.9	498.0	504.5	112.5°	134.0	138.5	143.0
416.9	413.3	413.6	411.3	415.4	410.7	415.7	413.9	412.5	115°	168.0	171.0	174.0
323.7	329.9	325.5	316.9	323.7	318.4	308.3	309.2	298.0	117.5°	202.0	203.5	205.0
243.2	238.8	236.4	232.3	221.3	223.4	212.1	213.9	217.8	120°	237.0	240.0	243.0
167.8	164.5	168.4	165.7	161.3	162.1	164.5	166.9	173.1	122.5°	271.0	274.0	277.0
117.8	116.3	115.4	117.2	122.2	124.9	128.7	135.8	139.4	125°	305.0	307.5	310.0
88.5	88.8	87.9	90.5	94.7	96.8	97.6	98.2	102.4	127.5°	339.0	339.5	340.0
73.1	74.3	74.0	74.9	73.7	72.5	73.4	71.6	70.1	130°	370.0	371.0	372.0
63.9	64.2	62.7	62.4	60.7	59.2	58.0	58.0	57.4	132.5°	404.0	404.5	405.0
54.1	54.4	53.0	53.0	52.7	53.6	53.0	51.8	51.5	135°	435.0	436.0	437.0
48.5	47.9	47.0	47.0	46.5	46.5	46.7	47.0	46.7	137.5°	464.0	466.0	468.0
43.5	42.9	42.6	42.9	42.6	42.9	43.2	42.9	43.2	140°	491.0	494.0	497.0
39.9	39.4	39.4	39.6	39.4	39.6	39.6	39.6	39.4	142.5°	521.0	523.0	525.0
37.0	36.4	36.4	36.4	36.1	35.5	34.9	34.0	33.1	145°	550.0	550.5	551.0
34.6	34.3	33.7	33.4	32.5	30.8	30.2	30.2	30.2	147.5°	574.0	574.5	575.0
32.5	32.0	31.7	30.5	29.3	28.7	28.7	28.7	28.7	150°	593.0	593.0	593.0
29.9	29.0	28.4	28.1	27.8	27.8	27.5	27.5	27.5	152.5°	610.0	610.0	610.0
26.6	26.3	26.3	26.6	26.6	26.6	26.6	26.3	26.6	155°	630.0	629.0	628.0
24.6	24.6	24.9	25.1	25.4	25.7	26.0	25.7	26.0	157.5°	646.0	645.5	645.0
23.7	23.7	23.7	24.3	24.6	24.9	25.4	25.4	25.4	160°	655.0	655.0	655.0
23.1	23.1	23.4	23.7	24.0	24.3	24.6	24.9	25.1	162.5°	661.0	662.0	663.0
22.8	23.1	22.8	23.1	23.4	24.0	24.3	24.3	24.6	165°	673.0	673.0	673.0
22.8	22.8	22.8	22.8	23.4	23.7	23.4	23.7	24.0	167.5°	688.0	686.5	685.0
22.8	22.8	22.5	22.8	23.1	23.4	23.1	23.1	23.7	170°	693.0	692.0	691.0
22.5	22.8	22.5	22.5	22.8	23.1	22.8	23.1	23.4	172.5°	690.0	690.0	690.0
21.9	22.2	21.9	22.2	22.2	22.5	22.5	22.5	22.8	175°	691.0	690.5	690.0
21.3	21.3	21.3	21.6	21.6	21.9	21.9	22.2	21.9	177.5°	697.0	696.0	695.0
20.7	20.7	20.7	21.0	21.0	21.3	21.6	21.3	21.3	180°	700.0	700.0	700.0
20.1	19.8	19.5	19.8	20.1	20.1	20.4	20.1	20.4				
19.2	18.9	18.6	18.6	18.9	18.9	19.2	18.9	18.9				
17.8	17.8	17.2	17.2	17.2	17.2	17.5	17.2	16.9				
16.0	16.0	15.4	15.4	15.4	15.4	15.1	15.1	15.1				
13.3	13.6	13.6	13.3	13.3	13.0	13.0	12.7	12.4				
10.1	10.7	10.9	10.9	10.9	10.9	10.9	10.4	9.8				
7.1	8.0	8.9	8.9	8.6	8.6	8.6	7.7	6.8				
4.4	5.3	5.6	6.2	5.3	5.0	5.0	4.4	4.1				
7.0	7.0	7.6	8.3	9.9	9.9	10.2	8.6	7.3				
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				



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CATALOG NUMBER: IST-AF-350-LED-E1-SLL-8030-L

SLL-8030-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°	580.8	580.8	580.8	580.8
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	498.9	509.8	511.3	512.8
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	410.1	421.0	414.8	417.5
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	299.4	292.3	301.5	307.1
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	218.7	226.9	230.5	237.0
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	181.4	186.7	193.2	203.6
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	147.1	150.9	159.2	169.2
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	107.1	112.7	118.1	126.3
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	71.9	74.3	80.8	84.6
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	57.7	58.6	59.8	63.0
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	51.8	52.4	53.3	54.4
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	47.0	47.3	48.2	48.8
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	42.9	42.6	42.9	43.8
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	38.5	38.5	39.1	39.1
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	33.1	32.8	33.4	34.3
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	30.5	30.8	31.4	32.0
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	29.0	29.3	29.9	30.5
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	27.5	28.1	28.7	29.6
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	26.6	27.2	28.1	29.0
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	26.3	26.9	27.8	29.0
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	25.7	26.6	27.5	28.7
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	25.7	26.3	27.2	28.7
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	24.9	25.7	26.6	28.1
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	24.3	24.9	26.0	27.8
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	24.0	24.6	25.7	27.5
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	23.4	24.3	25.4	27.2
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	22.8	23.7	24.9	26.6
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	21.9	23.1	24.3	25.4
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	21.3	21.9	23.1	24.3
								70°	20.1	20.7	21.6	22.5
								72.5°	18.6	18.9	19.5	20.4
								75°	16.6	16.9	17.2	18.0
								77.5°	14.5	14.5	14.8	16.0
								80°	12.1	12.1	12.4	13.0
								82.5°	9.2	9.2	9.8	10.7
								85°	6.5	6.2	7.1	7.7
								87.5°	3.8	3.6	3.8	3.8
								90°	7.3	7.9	8.6	9.6
								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



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CATALOG NUMBER: IST-AF-350-LED-E1-SLL-8030-ULG

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**CANDELA DISTRIBUTION (continued):**

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
580.8	580.8	580.8	580.8	580.8	580.8	580.8	110°	117.0	116.0	117.5	119.0	120.0
518.7	515.7	518.1	527.3	530.5	534.7	548.6	112.5°	147.0	147.0	148.0	149.0	149.5
424.0	427.8	424.0	442.6	443.5	455.9	461.0	115°	178.0	177.0	178.0	179.0	180.5
311.6	316.6	324.9	337.3	340.9	358.6	373.7	117.5°	209.0	208.0	209.0	210.0	212.5
243.2	249.7	261.3	269.0	276.6	287.0	299.1	120°	243.0	243.0	244.0	245.0	247.5
216.0	222.8	232.9	242.6	253.6	261.6	271.6	122.5°	277.0	276.0	277.0	278.0	280.5
180.5	191.1	200.9	213.6	222.8	237.3	249.1	125°	310.0	310.0	310.0	310.0	312.5
137.9	152.7	162.4	177.8	191.7	204.5	220.4	127.5°	347.0	345.0	345.5	346.0	346.0
95.9	107.4	119.8	136.4	154.4	171.9	193.2	130°	380.0	379.0	380.0	381.0	381.0
66.0	72.2	81.7	98.8	117.5	142.6	165.7	132.5°	415.0	414.0	414.0	414.0	415.0
56.2	58.6	62.1	70.4	86.1	113.6	139.1	135°	451.0	450.0	448.5	447.0	447.5
50.0	51.8	54.1	58.3	66.6	85.5	113.6	137.5°	482.0	481.0	478.5	476.0	475.5
45.9	47.9	50.3	53.3	57.7	70.7	91.7	140°	511.0	509.0	506.5	504.0	503.0
40.2	41.7	43.8	47.0	50.3	60.7	81.1	142.5°	536.0	534.0	533.5	533.0	533.0
35.5	37.3	39.9	42.3	45.6	53.9	73.7	145°	560.0	558.0	559.5	561.0	561.5
33.1	34.9	37.3	39.4	41.7	48.5	68.3	147.5°	585.0	583.0	584.5	586.0	585.5
31.7	33.4	35.8	37.6	39.1	46.7	66.3	150°	610.0	606.0	604.5	603.0	601.5
30.8	32.8	34.9	36.1	39.1	47.6	61.2	152.5°	628.0	623.0	620.5	618.0	616.0
30.5	32.5	34.9	37.0	42.9	45.0	58.0	155°	641.0	638.0	637.0	636.0	633.5
30.8	32.5	35.5	41.4	41.7	42.6	54.4	157.5°	655.0	650.0	650.0	650.0	649.0
30.8	33.4	39.6	43.2	39.6	40.2	51.2	160°	666.0	660.0	660.5	661.0	662.5
31.1	34.6	41.1	40.2	38.5	37.6	47.6	162.5°	674.0	668.0	669.0	670.0	670.5
31.1	34.0	39.4	37.9	35.5	35.8	43.5	165°	682.0	678.0	679.0	680.0	678.5
30.2	34.0	37.9	34.3	32.5	34.0	39.9	167.5°	694.0	688.0	688.0	688.0	686.0
29.6	34.9	33.7	31.7	31.7	33.1	38.2	170°	701.0	696.0	695.0	694.0	691.5
29.3	35.8	32.0	30.8	30.8	32.8	37.3	172.5°	701.0	696.0	695.0	694.0	693.0
28.4	33.4	29.3	28.7	29.6	31.1	36.1	175°	699.0	694.0	695.0	696.0	695.5
26.6	27.8	26.9	26.9	28.1	29.9	35.5	177.5°	702.0	698.0	699.5	701.0	700.0
24.6	25.1	25.1	25.4	26.6	28.1	36.1	180°	700.0	700.0	700.0	700.0	700.0
22.8	22.8	23.4	23.7	24.6	26.6	34.6						
20.7	21.0	21.0	21.6	22.2	24.3	33.4						
18.3	18.3	18.9	18.9	19.8	21.9	29.9						
16.0	16.0	16.0	16.3	16.9	18.9	24.6						
13.3	13.3	13.3	13.6	13.9	15.7	18.6						
10.7	10.4	10.1	10.1	10.7	12.1	14.5						
7.4	7.4	7.1	7.1	7.1	8.0	9.8						
4.1	3.6	3.8	4.1	3.8	4.4	5.3						
9.3	9.6	8.9	8.2	8.2	8.2	9.3						
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°	580.8	580.8	580.8	580.8	580.8	580.8
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	546.8	554.5	566.6	569.0	578.7	585.5
182.0	180.5	179.0	176.5	174.0	171.0	5°	463.3	481.7	488.2	500.9	523.1	534.4
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	382.3	396.2	411.9	432.3	448.6	467.8
250.0	248.0	246.0	244.5	243.0	240.0	10°	314.5	334.3	354.8	371.3	394.1	417.2
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	279.3	290.3	310.4	333.8	362.2	387.9
315.0	314.0	313.0	311.5	310.0	307.5	15°	261.0	274.0	295.6	320.4	350.6	382.6
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	238.2	258.9	283.5	319.0	358.0	402.4
381.0	379.0	377.0	374.5	372.0	371.0	20°	215.7	240.8	273.1	319.8	374.0	431.7
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	195.9	225.8	266.6	325.2	394.4	471.3
448.0	445.5	443.0	440.0	437.0	436.0	25°	172.5	212.4	261.6	336.1	425.8	524.6
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	153.9	199.7	254.2	345.6	454.5	575.8
502.0	501.0	500.0	498.5	497.0	494.0	30°	133.1	184.9	243.8	348.8	489.4	617.8
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	116.6	171.0	232.0	345.9	505.1	647.1
562.0	559.0	556.0	553.5	551.0	550.5	35°	108.6	161.0	221.9	335.5	518.1	678.7
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	103.3	150.0	212.1	318.4	532.9	710.1
600.0	598.5	597.0	595.0	593.0	593.0	40°	96.5	141.4	204.2	305.9	544.4	736.1
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	90.2	133.7	197.9	295.0	547.4	759.5
631.0	628.5	626.0	627.0	628.0	629.0	45°	84.9	129.0	193.2	295.6	549.4	792.1
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	80.8	124.6	191.4	305.6	571.3	837.3
664.0	661.0	658.0	656.5	655.0	655.0	50°	76.9	120.7	188.5	325.2	606.6	898.6
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	72.5	115.4	184.6	345.3	645.0	980.5
677.0	674.5	672.0	672.5	673.0	673.0	55°	66.6	108.3	180.5	362.2	697.4	1080.3
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	57.4	100.0	177.8	370.7	729.6	1137.7
689.0	687.5	686.0	688.5	691.0	692.0	59°	52.7	92.0	176.3	366.6	738.2	1147.4
692.0	690.5	689.0	689.5	690.0	690.0	60°	50.0	87.3	174.0	361.6	740.6	1141.2
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	46.5	76.0	164.2	336.4	707.4	1066.1
699.0	696.5	694.0	694.5	695.0	696.0	65°	47.3	71.9	142.0	286.4	631.4	919.3
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	48.5	70.1	122.8	231.4	503.3	760.7
						70°	47.6	69.2	111.5	184.0	377.0	569.6
						72.5°	46.5	65.4	96.8	147.9	239.1	398.8
						75°	41.1	55.0	76.0	101.5	150.9	290.6
						77.5°	32.3	42.3	53.9	63.0	76.6	205.0
						80°	23.7	30.8	35.2	37.9	42.6	140.0
						82.5°	16.9	20.7	22.5	24.0	28.4	104.7
						85°	12.7	14.5	15.7	15.7	19.2	74.0
						87.5°	7.1	7.4	7.4	8.0	9.5	20.1
						90°	10.1	10.1	9.8	9.6	8.5	7.2
						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°
580.8	580.8	580.8	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
593.2	597.7	601.2	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
551.5	562.5	564.5	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
489.1	506.8	513.1	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
443.2	462.5	469.0	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
418.1	440.6	447.7	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
418.7	445.6	455.9	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
445.9	476.7	489.4	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
492.6	537.3	546.8	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
556.0	599.7	613.9	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
615.4	673.4	684.4	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
674.0	731.4	741.2	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
719.3	779.3	787.6	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
762.8	830.5	839.7	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
811.3	886.2	896.8	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
855.1	940.9	947.7	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
903.6	985.6	987.3	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
943.3	1018.7	1019.3	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
981.7	1049.8	1050.1	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
1022.0	1083.8	1079.4	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
1085.6	1124.0	1128.5	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
1182.3	1216.7	1221.7	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
1294.8	1342.4	1335.6	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
1342.4	1396.8	1402.5	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
1334.4	1408.7	1418.1	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
1321.7	1405.1	1416.7	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
1249.5	1368.1	1386.2	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
1128.2	1291.5	1317.0	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
972.3	1177.0	1197.4	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
758.6	956.6	974.0								
504.2	656.9	687.0								
320.4	423.7	418.1								
236.4	275.5	275.8								
171.6	189.1	187.0								
132.8	115.4	115.1								
46.5	40.8	39.9								
20.1	16.9	17.2								
5.9	5.9	6.2								
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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