

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: P227679

Luminaire Tested: **ISS-AF-350-LED-E1-T3-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-350-LED-E1-T3-7030-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, 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: 3537.2 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

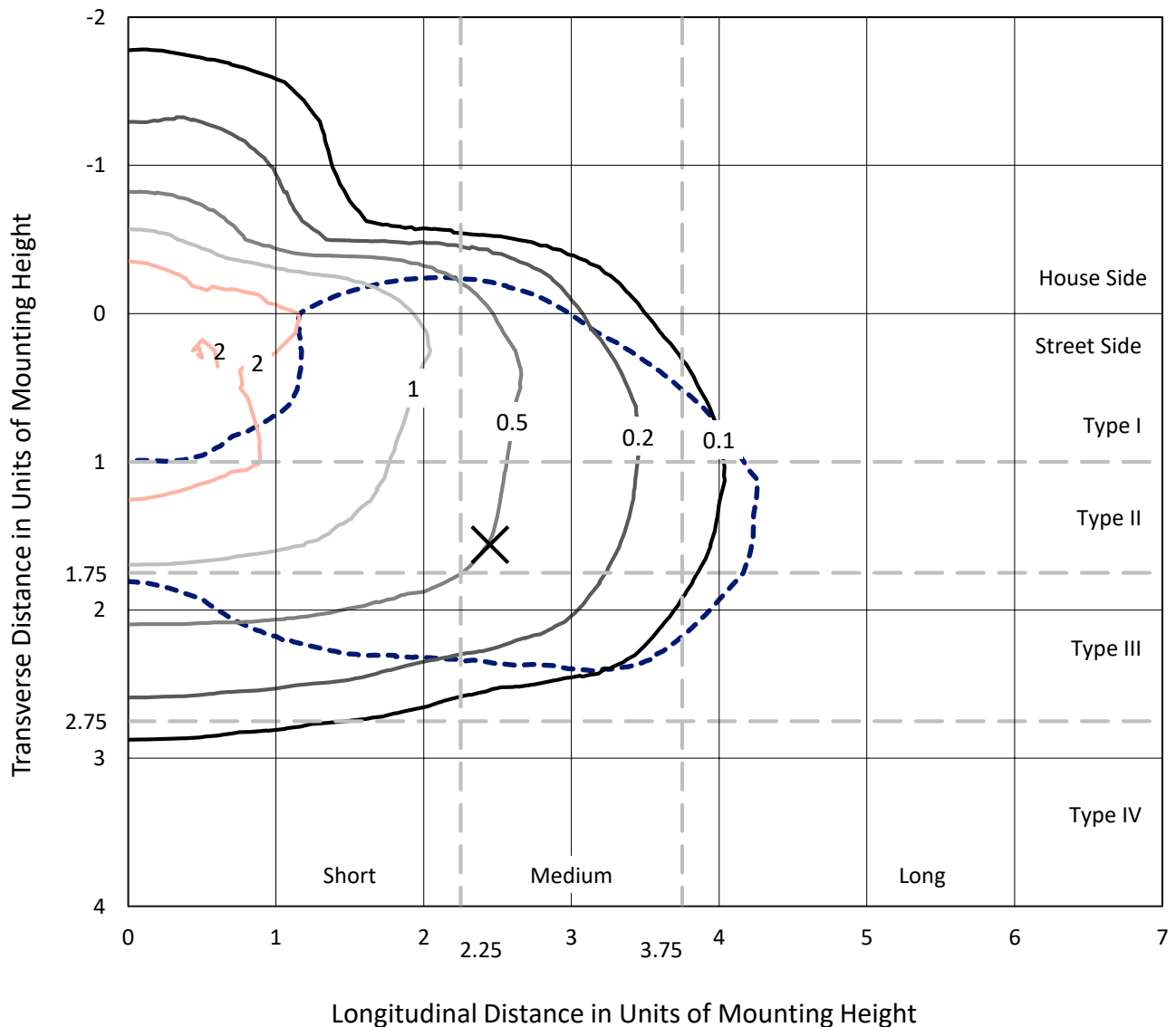
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

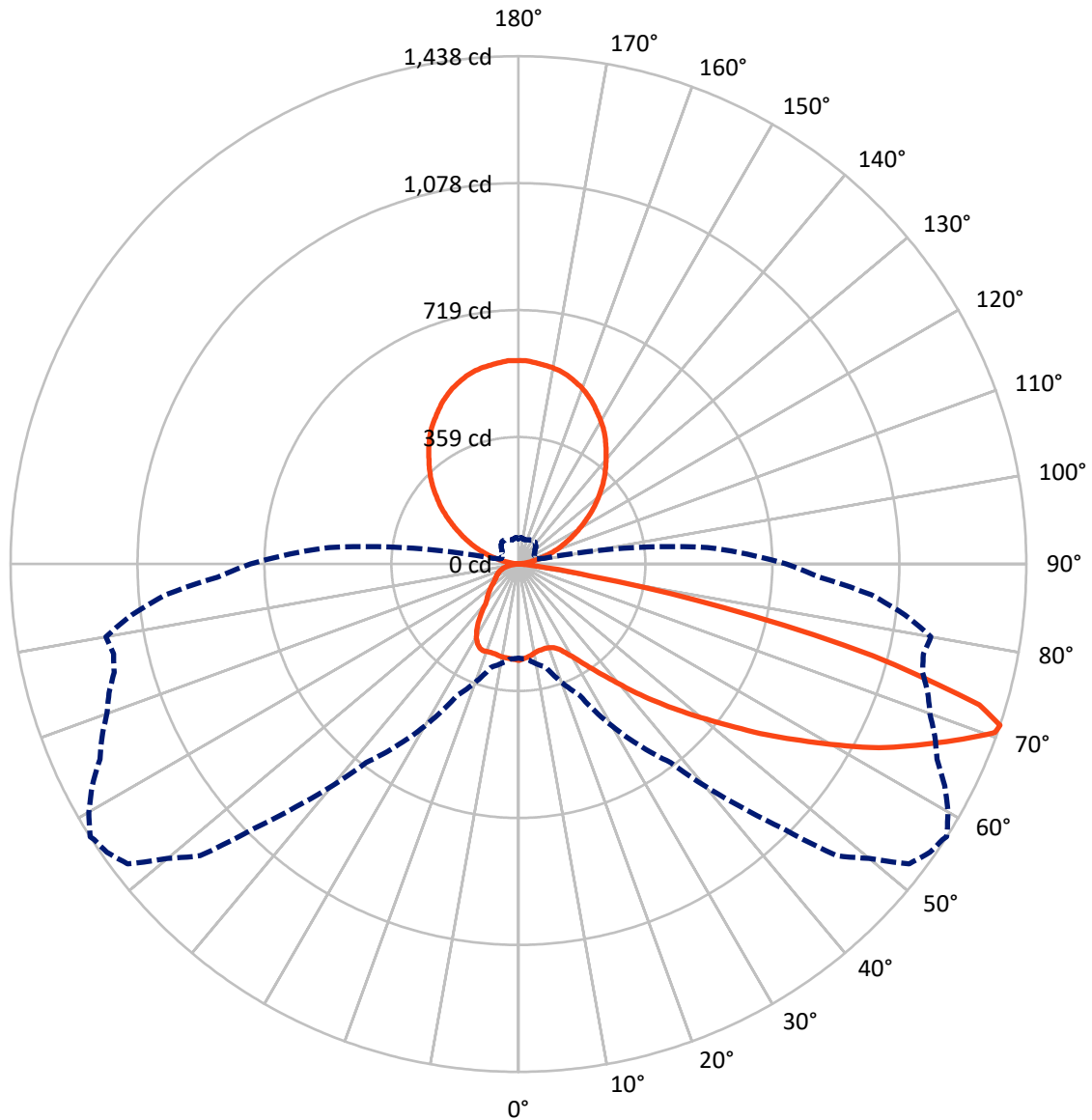
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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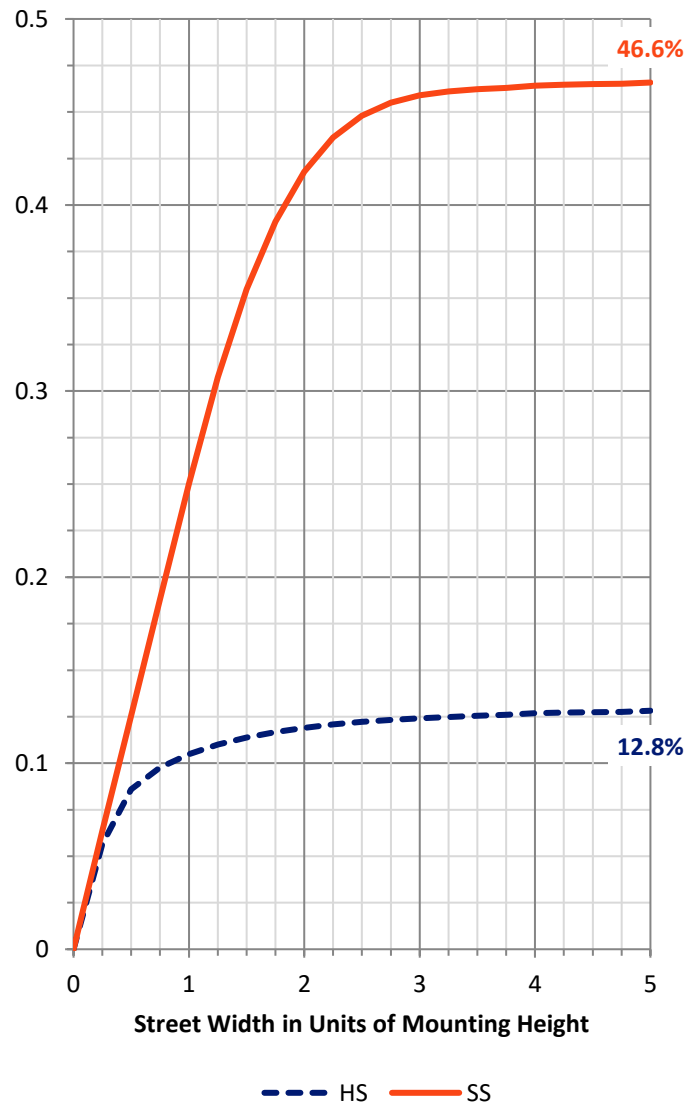
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	459.6	713.1	1172.7
	% Fixture	13.0	20.2	33.2
Street Side	Lumens	1651.4	713.1	2364.5
	% Fixture	46.7	20.2	66.8
Total	Lumens	2111.0	1426.2	3537.2
	% Fixture	59.7	40.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	0.7
10°-20°	74.0	2.1
20°-30°	122.8	3.5
30°-40°	195.4	5.5
40°-50°	317.5	9.0
50°-60°	476.0	13.5
60°-70°	567.9	16.1
70°-80°	306.7	8.7
80°-90°	25.0	0.7
90°-100°	4.7	0.1
100°-110°	69.0	2.0
110°-120°	153.0	4.3
120°-130°	223.9	6.3
130°-140°	265.6	7.5
140°-150°	269.3	7.6
150°-160°	231.1	6.5
160°-170°	155.1	4.4
170°-180°	54.3	1.5
0°-90°	2111.0	59.7
0°-180°	3537.2	100.0



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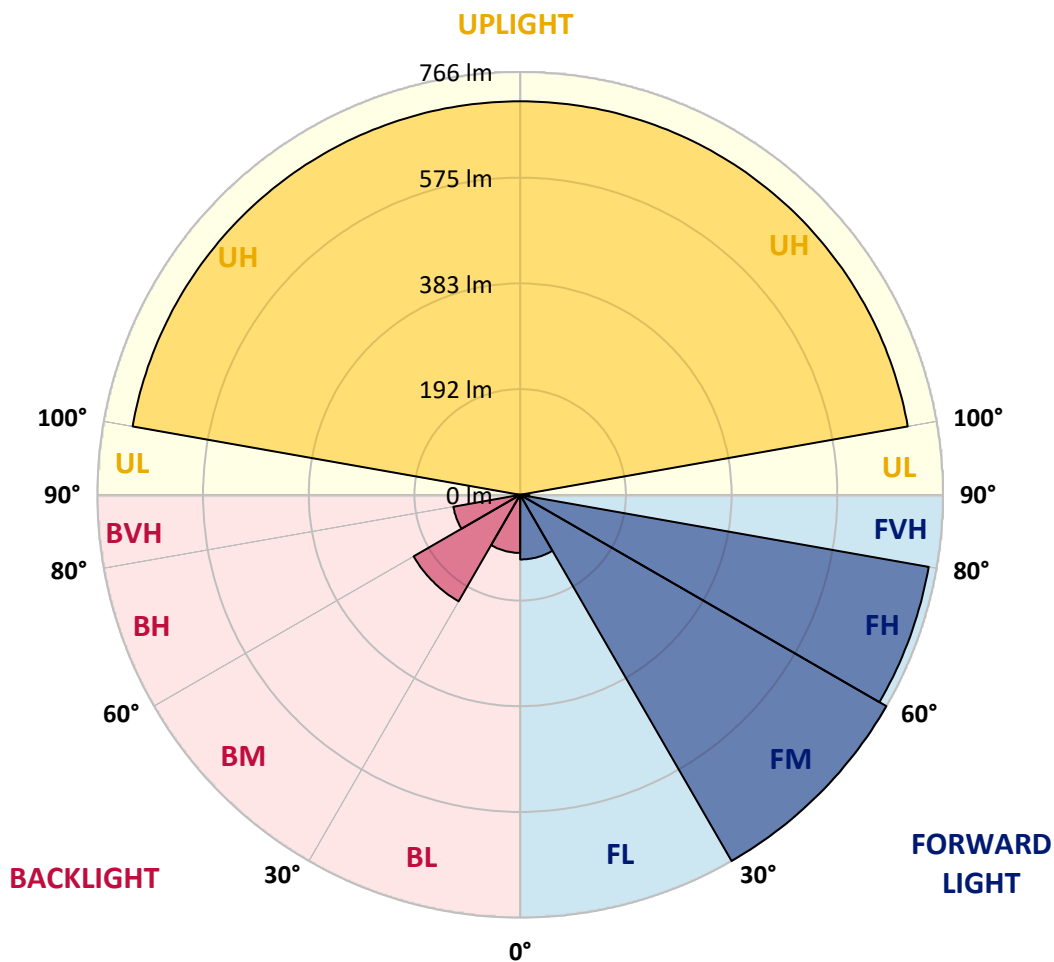
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	117.1	3.3			
FM (30°-60°)	766.2	21.7			
FH (60°-80°)	751.7	21.3			G1/1800
FVH (80°-90°)	16.4	0.5			G1/100
BL (0°-30°)	105.3	3.0	B0/110		
BM (30°-60°)	222.8	6.3	B1/1000		
BH (60°-80°)	122.9	3.5	B1/500		G1/500
BVH (80°-90°)	8.5	0.2			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	20.2		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7
2.5°	272.7	272.0	271.3	271.3	271.3	270.6	268.5	269.2	271.3	269.9	272.0
5°	272.0	270.6	269.9	269.9	269.9	267.8	267.1	266.4	270.6	267.1	269.9
7.5°	264.3	264.3	262.9	264.3	265.7	263.6	262.2	262.9	266.4	262.9	266.4
10°	258.8	257.4	256.7	256.7	258.1	255.3	253.9	255.3	259.5	255.3	260.2
12.5°	256.7	257.4	255.3	255.3	254.6	251.1	251.1	251.1	254.6	251.1	255.3
15°	260.2	259.5	257.4	256.0	253.9	251.1	250.4	251.1	253.9	249.7	254.6
17.5°	265.0	265.0	261.5	258.1	256.0	253.2	253.2	251.8	253.9	251.1	254.6
20°	277.6	275.5	270.6	265.0	259.5	258.1	255.3	255.3	256.7	253.9	256.0
22.5°	299.2	297.1	288.8	278.3	269.2	265.7	264.3	263.6	262.2	260.9	260.9
25°	327.8	324.3	314.6	302.0	286.7	283.9	281.1	279.0	274.1	274.1	270.6
27.5°	358.5	355.0	344.5	330.6	311.8	307.6	304.1	301.3	292.9	292.9	286.7
30°	393.4	389.2	376.6	361.3	339.7	338.3	333.4	329.2	318.0	317.3	309.0
32.5°	433.8	428.2	415.7	395.5	372.4	373.1	365.5	362.7	348.0	348.7	337.6
35°	479.9	473.6	461.0	434.5	410.8	412.9	405.9	401.0	382.9	382.9	371.1
37.5°	528.7	528.7	512.6	481.9	453.4	458.2	449.9	445.0	426.8	429.6	410.8
40°	583.1	586.6	569.1	534.3	505.0	507.1	500.8	495.2	473.6	478.5	458.2
42.5°	640.3	646.6	631.2	594.9	562.2	569.1	558.7	553.1	530.1	540.5	516.8
45°	723.3	724.7	696.1	661.2	634.0	640.3	625.6	623.5	594.9	606.1	582.4
47.5°	775.6	772.1	751.2	730.2	714.2	726.8	713.5	710.0	677.2	684.9	651.4
50°	811.2	813.2	797.2	795.1	797.9	821.6	819.5	812.5	773.5	767.9	726.1
52.5°	843.2	834.2	831.4	850.9	880.9	908.8	920.0	910.9	868.3	853.0	812.5
55°	837.7	824.4	839.1	886.5	945.8	989.0	990.4	984.1	945.8	939.5	895.5
57.5°	800.0	802.8	832.8	900.4	1000.9	1045.5	1053.2	1045.5	1014.1	1019.7	983.4
60°	747.7	753.3	800.7	887.9	1044.8	1083.2	1086.7	1095.7	1074.8	1089.4	1064.3
62.5°	669.6	677.2	737.9	856.5	1014.1	1071.3	1103.4	1124.3	1120.1	1153.6	1140.4
65°	615.2	615.2	674.4	820.2	984.1	1059.5	1107.6	1146.6	1152.2	1205.2	1200.3
67.5°	514.0	517.5	568.4	719.1	947.9	1032.9	1105.5	1171.7	1205.2	1288.9	1293.1
70°	355.7	358.5	392.0	513.3	765.8	838.4	945.1	1053.2	1153.6	1279.9	1345.4
71°	266.4	269.9	302.7	409.4	648.6	708.6	819.5	931.8	1058.1	1222.0	1295.9
72.5°	130.4	132.5	164.6	262.9	451.3	528.0	592.1	699.6	833.5	1021.1	1125.7
75°	60.7	61.4	68.4	94.9	172.3	205.1	233.7	302.7	385.7	550.3	677.2
77.5°	44.6	44.6	48.8	62.1	89.3	90.7	89.3	91.4	110.2	157.6	237.1
80°	32.8	32.8	35.6	41.8	59.3	59.3	57.2	57.9	55.8	57.9	65.6
82.5°	21.6	21.6	23.0	25.1	36.3	36.3	34.9	34.9	33.5	32.8	35.6
85°	12.6	13.3	13.9	11.9	15.3	14.6	13.3	14.6	13.9	12.6	15.3
87.5°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7
2.5°	269.2	271.3	271.3	268.5	270.6	268.5	269.9	267.8	269.9	266.4	270.6
5°	267.1	269.2	269.2	265.0	269.2	265.0	268.5	263.6	268.5	262.9	268.5
7.5°	261.5	266.4	266.4	260.9	265.7	261.5	265.7	260.9	265.0	258.8	265.7
10°	255.3	260.2	260.9	255.3	260.9	256.0	262.2	256.0	262.2	255.3	262.9
12.5°	251.1	256.7	258.1	251.8	258.8	252.5	260.2	253.2	260.2	252.5	261.5
15°	250.4	255.3	256.7	251.1	257.4	250.4	259.5	251.1	260.2	251.8	262.2
17.5°	251.1	255.3	256.7	250.4	256.7	251.1	258.8	251.8	260.2	252.5	262.2
20°	253.2	256.0	256.0	252.5	257.4	252.5	258.8	251.8	260.9	253.9	262.9
22.5°	259.5	260.2	260.2	257.4	260.2	256.7	261.5	256.7	262.9	257.4	265.7
25°	269.9	269.2	267.8	267.1	267.8	265.7	268.5	265.0	271.3	266.4	274.8
27.5°	288.1	285.3	283.9	283.9	283.2	283.9	283.9	282.5	285.3	283.9	289.4
30°	310.4	305.5	303.4	305.5	302.7	305.5	304.8	304.1	306.9	305.5	310.4
32.5°	339.7	331.3	329.9	334.1	328.5	333.4	329.2	331.3	333.4	334.8	337.6
35°	373.8	364.1	362.7	366.9	360.6	367.6	362.7	365.5	366.9	370.4	372.4
37.5°	414.3	402.4	400.3	405.9	397.6	405.2	398.3	406.6	404.5	409.4	411.5
40°	463.1	449.2	444.3	452.0	442.2	448.5	441.5	450.6	448.5	458.2	460.3
42.5°	523.1	502.9	498.0	505.7	491.0	493.1	487.5	498.0	496.6	509.8	511.9
45°	585.2	560.8	553.8	561.5	544.7	548.9	540.5	551.7	551.0	561.5	569.8
47.5°	654.2	624.2	615.2	623.5	603.3	608.2	599.8	611.7	612.4	624.2	632.6
50°	726.1	694.7	682.8	690.5	671.7	675.1	666.8	681.4	680.7	696.8	703.0
52.5°	804.2	772.1	763.0	766.5	744.2	748.4	741.4	759.5	755.4	765.1	777.7
55°	890.7	853.7	843.2	853.7	827.2	832.8	823.7	840.4	833.5	846.0	849.5
57.5°	979.2	943.0	934.6	942.3	917.2	921.4	909.5	923.4	917.9	926.2	931.8
60°	1073.4	1040.6	1032.2	1040.6	1016.2	1016.9	996.7	1011.3	1003.0	1013.4	1011.3
62.5°	1163.4	1135.5	1133.4	1145.2	1114.6	1111.1	1086.7	1097.1	1085.3	1092.2	1083.9
65°	1240.1	1224.1	1226.8	1236.6	1209.4	1201.0	1173.1	1178.7	1161.3	1161.3	1150.8
67.5°	1340.5	1323.1	1323.1	1331.5	1297.3	1275.7	1237.3	1232.4	1203.8	1198.2	1173.8
70°	1424.2	1429.1	1423.5	1430.5	1390.1	1346.1	1295.2	1270.8	1233.1	1215.0	1186.4
71°	1394.2	1422.1	1431.9	1437.5	1404.0	1360.1	1307.1	1275.7	1239.4	1215.0	1184.3
72.5°	1258.2	1325.9	1364.2	1364.2	1368.4	1340.5	1289.6	1255.4	1214.3	1182.2	1153.6
75°	881.6	991.8	1041.3	1035.7	1072.0	1084.6	1088.7	1074.1	1051.1	1005.0	984.8
77.5°	392.7	517.5	592.1	592.8	631.9	666.1	693.3	721.9	711.4	689.1	687.7
80°	89.3	161.8	207.1	209.2	244.8	276.2	295.0	323.6	327.1	295.0	276.9
82.5°	38.4	45.3	51.6	50.9	62.8	75.3	89.3	96.9	93.5	77.4	73.2
85°	16.0	20.9	22.3	20.9	25.8	28.6	33.5	34.2	39.8	35.6	37.7
87.5°	0.0	0.7	0.7	0.0	1.4	0.0	1.4	0.7	3.5	1.4	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	12.0	13.0	11.8	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.6	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.6	453.6	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.6	470.6	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.6	518.6	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.6	531.6	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.6	541.6	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.4	552.4	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.6	559.6	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.6	568.6	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.4	572.4	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.4	576.4	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7
2.5°	267.8	271.3	267.8	271.3	269.2	271.3	270.6	271.3	267.8	271.3	267.1
5°	262.9	268.5	263.6	267.8	263.6	268.5	268.5	268.5	263.6	269.2	264.3
7.5°	258.8	265.0	258.8	265.0	260.9	265.7	265.7	267.8	262.2	268.5	261.5
10°	254.6	262.2	254.6	263.6	256.7	264.3	265.0	266.4	258.8	267.1	260.2
12.5°	252.5	262.2	253.2	262.2	253.9	264.3	265.0	266.4	258.1	268.5	259.5
15°	252.5	262.9	253.2	262.9	253.9	264.3	265.7	267.1	258.1	269.2	259.5
17.5°	252.5	262.9	254.6	263.6	255.3	265.0	266.4	267.8	259.5	269.2	260.9
20°	254.6	264.3	256.0	265.7	257.4	267.1	267.8	269.9	260.9	269.9	262.2
22.5°	259.5	267.8	260.9	269.9	263.6	271.3	272.0	274.1	267.1	274.8	268.5
25°	267.8	276.9	271.3	278.3	274.8	281.1	282.5	282.5	279.7	284.6	282.5
27.5°	285.3	292.2	288.1	294.3	292.2	297.1	297.1	297.8	299.9	301.3	303.4
30°	307.6	312.5	311.1	314.6	315.3	318.0	318.0	322.2	330.6	322.2	321.5
32.5°	337.6	340.4	341.1	342.5	345.2	347.3	350.1	355.0	362.0	342.5	336.2
35°	374.5	375.2	377.3	379.4	384.3	385.7	394.8	391.3	391.3	360.6	347.3
37.5°	415.0	415.0	420.6	420.6	432.4	433.1	442.2	424.1	413.6	373.8	354.3
40°	465.9	465.2	471.5	472.9	488.9	489.6	488.2	448.5	426.2	377.3	350.8
42.5°	519.6	521.7	530.1	532.9	544.7	548.9	531.5	465.2	431.7	375.2	339.0
45°	578.2	582.4	592.8	600.5	613.1	608.2	566.3	472.9	425.5	362.7	316.0
47.5°	642.4	646.6	654.9	669.6	675.1	669.6	594.9	475.7	415.7	343.2	282.5
50°	707.2	714.2	726.1	747.0	749.8	735.8	629.8	486.1	408.0	322.9	244.1
52.5°	780.5	787.4	801.4	836.3	829.3	800.7	671.0	505.7	410.1	310.4	211.3
55°	857.9	867.6	894.8	929.0	913.7	869.0	716.3	534.3	418.5	297.1	175.1
57.5°	939.5	949.9	985.5	1026.0	996.0	936.0	762.3	556.6	422.7	269.9	135.3
60°	1020.4	1035.0	1081.1	1114.6	1067.8	993.2	803.5	571.2	411.5	218.3	104.6
62.5°	1094.3	1118.0	1169.7	1187.8	1113.2	1029.5	825.8	560.8	366.2	150.7	84.4
65°	1146.6	1177.3	1210.8	1208.7	1104.8	1017.6	809.1	512.6	272.7	99.7	71.8
67.5°	1169.0	1197.5	1205.2	1169.7	1044.8	965.3	749.1	412.9	156.9	74.6	62.8
70°	1177.3	1201.7	1158.5	1072.7	927.6	837.0	612.4	262.9	85.8	60.7	54.4
71°	1173.8	1185.7	1103.4	1003.0	853.0	758.1	537.0	200.2	73.2	56.5	51.6
72.5°	1126.4	1109.7	982.7	871.1	723.3	627.0	417.8	126.2	60.0	50.9	48.1
75°	920.7	845.3	723.3	618.0	492.4	394.1	226.7	64.9	48.1	43.9	41.8
77.5°	601.9	536.4	435.9	354.3	269.2	204.4	92.8	44.6	38.4	37.0	36.3
80°	214.8	172.3	130.4	114.4	86.5	71.1	45.3	34.2	30.0	30.7	30.0
82.5°	60.7	55.8	48.1	44.6	39.1	38.4	29.3	25.8	23.7	25.1	24.4
85°	30.0	25.8	18.8	18.1	13.9	16.0	14.6	17.4	15.3	16.0	14.6
87.5°	2.1	2.8	0.7	2.1	0.0	2.1	2.8	3.5	0.7	2.8	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.8	4.5	4.2	4.0	4.0	4.0	4.0	4.5	4.8	5.0	5.5
100°	26.8	26.5	26.2	26.0	25.5	25.0	26.0	26.5	26.8	27.0	27.8
102.5°	48.2	48.5	48.8	49.0	48.5	48.0	49.0	48.5	48.2	48.0	48.5
105°	69.5	70.0	70.5	71.0	70.0	69.0	71.0	70.0	69.5	69.0	69.5
107.5°	91.2	91.5	91.8	92.0	91.5	91.0	92.0	91.5	91.2	91.0	91.2



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 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
110°	113.2	113.5	113.8	114.0	113.5	113.0	114.0	113.5	113.2	113.0	113.2	0°
112.5°	135.5	136.0	136.5	137.0	136.0	135.0	137.0	136.0	135.5	135.0	135.2	2.5°
115°	158.5	159.0	159.5	160.0	159.5	159.0	160.0	159.0	158.5	158.0	158.0	5°
117.5°	180.5	181.0	181.5	182.0	181.0	180.0	182.0	181.0	180.5	180.0	180.2	7.5°
120°	204.5	205.0	205.5	206.0	205.0	204.0	206.0	205.0	204.5	204.0	204.0	10°
122.5°	230.0	231.0	232.0	233.0	232.5	232.0	233.0	231.0	230.0	229.0	228.8	12.5°
125°	254.8	255.5	256.2	257.0	256.5	256.0	257.0	255.5	254.8	254.0	254.0	15°
127.5°	278.8	279.5	280.2	281.0	279.5	278.0	281.0	279.5	278.8	278.0	277.8	17.5°
130°	302.8	303.5	304.2	305.0	304.0	303.0	305.0	303.5	302.8	302.0	301.8	20°
132.5°	326.8	327.5	328.2	329.0	328.0	327.0	329.0	327.5	326.8	326.0	325.8	22.5°
135°	349.5	350.0	350.5	351.0	350.5	350.0	351.0	350.0	349.5	349.0	348.8	25°
137.5°	371.0	372.0	373.0	374.0	373.0	372.0	374.0	372.0	371.0	370.0	369.8	27.5°
140°	393.0	394.0	395.0	396.0	395.0	394.0	396.0	394.0	393.0	392.0	391.5	30°
142.5°	413.8	414.5	415.2	416.0	415.5	415.0	416.0	414.5	413.8	413.0	412.8	32.5°
145°	434.8	435.5	436.2	437.0	436.0	435.0	437.0	435.5	434.8	434.0	433.8	35°
147.5°	453.8	454.5	455.2	456.0	454.5	453.0	456.0	454.5	453.8	453.0	452.8	37.5°
150°	470.0	471.0	472.0	473.0	471.5	470.0	473.0	471.0	470.0	469.0	469.0	40°
152.5°	486.8	487.5	488.2	489.0	487.5	486.0	489.0	487.5	486.8	486.0	486.0	42.5°
155°	504.8	505.5	506.2	507.0	506.0	505.0	507.0	505.5	504.8	504.0	503.8	45°
157.5°	519.2	520.5	521.8	523.0	521.5	520.0	523.0	520.5	519.2	518.0	517.8	47.5°
160°	530.8	531.5	532.2	533.0	532.0	531.0	533.0	531.5	530.8	530.0	530.0	50°
162.5°	538.5	539.0	539.5	540.0	538.5	537.0	540.0	539.0	538.5	538.0	538.5	52.5°
165°	548.5	549.0	549.5	550.0	549.0	548.0	550.0	549.0	548.5	548.0	548.5	55°
167.5°	560.0	561.0	562.0	563.0	562.0	561.0	563.0	561.0	560.0	559.0	558.8	57.5°
170°	567.2	568.5	569.8	571.0	570.0	569.0	571.0	568.5	567.2	566.0	565.5	60°
172.5°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	567.8	62.5°
175°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	568.5	65°
177.5°	574.8	575.5	576.2	577.0	575.5	574.0	577.0	575.5	574.8	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°
												71°
												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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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	110°	113.5
272.0	269.2	272.7	269.2	272.7	270.6	272.7	270.6	272.7	274.1	274.1	112.5°	135.5
270.6	265.7	272.0	268.5	272.7	269.2	272.0	269.9	273.4	274.8	276.2	115°	158.0
269.9	265.0	271.3	266.4	272.7	267.8	272.0	269.2	273.4	274.8	277.6	117.5°	180.5
269.2	262.9	271.3	264.3	272.0	267.1	272.0	267.8	272.7	274.1	274.8	120°	204.0
269.2	262.2	271.3	263.6	272.0	265.0	271.3	265.0	272.0	271.3	269.2	122.5°	228.5
269.9	260.9	271.3	262.2	271.3	262.9	270.6	262.2	269.2	267.1	265.7	125°	254.0
269.9	260.9	270.6	261.5	269.9	262.2	268.5	260.9	267.1	266.4	264.3	127.5°	277.5
271.3	262.2	270.6	264.3	270.6	262.9	267.8	260.9	265.7	261.5	253.2	130°	301.5
275.5	269.2	275.5	269.2	272.0	265.0	267.1	258.8	258.1	251.1	237.8	132.5°	325.5
285.3	282.5	281.1	273.4	271.3	262.2	259.5	249.7	246.2	235.7	217.6	135°	348.5
297.8	291.5	283.2	274.1	265.0	253.9	246.2	238.5	230.9	217.6	194.6	137.5°	369.5
306.2	297.1	279.7	267.1	250.4	241.3	228.1	219.7	208.5	191.8	169.5	140°	391.0
311.8	297.8	271.3	256.7	234.3	222.5	205.1	196.0	179.9	163.9	147.9	142.5°	412.5
313.2	295.0	260.2	244.1	214.8	201.6	178.6	168.8	153.4	142.3	136.0	145°	433.5
307.6	285.3	242.7	221.8	189.7	174.4	152.7	145.8	136.7	132.5	129.7	147.5°	452.5
296.4	266.4	215.5	191.1	158.3	146.5	135.3	135.3	130.4	128.3	123.5	150°	469.0
276.2	238.5	180.6	156.9	134.6	132.5	126.2	129.0	125.5	124.1	117.2	152.5°	486.0
244.8	198.8	145.8	131.8	121.4	122.8	118.6	121.4	119.3	118.6	110.2	155°	503.5
204.4	158.3	122.8	117.9	110.9	113.0	109.5	113.0	110.9	111.6	105.3	157.5°	517.5
163.2	128.3	108.8	106.0	101.1	102.5	100.4	103.9	103.2	106.0	102.5	160°	530.0
130.4	109.5	96.9	94.9	92.1	92.8	92.1	95.6	96.3	101.8	101.8	162.5°	539.0
108.1	94.2	87.2	86.5	83.7	84.4	85.1	88.6	91.4	98.3	101.8	165°	549.0
92.8	84.4	79.5	78.8	77.4	78.1	79.5	83.7	86.5	95.6	103.2	167.5°	558.5
81.6	76.7	73.2	73.2	71.8	73.2	74.6	78.8	82.3	92.8	100.4	170°	565.0
73.2	69.7	67.7	68.4	67.7	69.0	70.4	74.6	78.8	88.6	96.3	172.5°	567.5
65.6	63.5	62.1	62.8	62.8	64.9	66.3	70.4	73.9	83.0	92.8	175°	569.0
59.3	57.9	57.2	57.9	58.6	60.7	62.8	65.6	68.4	76.7	87.9	177.5°	574.0
54.4	53.0	53.0	53.0	53.7	55.8	58.6	60.0	62.8	71.8	82.3	180°	576.0
51.6	50.9	50.9	50.9	51.6	53.7	56.5	57.9	60.7	69.7	79.5		
48.1	48.1	48.8	48.1	49.5	50.2	53.0	54.4	57.9	67.0	76.0		
42.5	42.5	43.2	43.2	44.6	44.6	46.7	48.1	52.3	60.0	68.4		
37.7	37.7	39.1	38.4	38.4	37.0	39.8	41.2	44.6	52.3	60.7		
32.1	31.4	32.8	30.7	30.0	28.6	30.7	32.8	38.4	43.2	44.6		
25.1	23.0	23.7	21.6	21.6	20.2	22.3	23.0	26.5	31.4	34.2		
15.3	12.6	13.9	11.9	13.3	11.9	12.6	13.3	16.0	19.5	18.8		
3.5	2.1	2.8	0.7	2.1	0.0	2.1	0.7	2.1	0.7	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
6.0	6.5	7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0		
28.5	29.2	30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0		
49.0	49.5	50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0		
70.0	70.5	71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0		
91.5	91.8	92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0		

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TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
113.8	114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	0°	272.7	272.7
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	2.5°	275.5	274.8
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	5°	279.0	279.0
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	7.5°	279.7	281.1
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	10°	274.8	273.4
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	12.5°	267.1	265.7
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	15°	266.4	265.7
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	17.5°	261.5	258.1
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	20°	247.6	241.3
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	22.5°	228.1	219.0
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	25°	204.4	191.8
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	27.5°	178.6	166.0
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	30°	158.3	148.6
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	32.5°	143.7	138.1
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	35°	131.8	128.3
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	37.5°	124.1	118.6
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	40°	116.5	109.5
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	42.5°	109.5	102.5
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	45°	102.5	97.6
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	47.5°	99.0	94.9
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	50°	97.6	93.5
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	52.5°	99.0	95.6
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	55°	101.8	99.7
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	57.5°	99.0	95.6
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	60°	92.8	87.2
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	62.5°	88.6	83.0
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	65°	85.1	80.9
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	67.5°	81.6	77.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	77.4	73.2
										71°	75.3	70.4
										72.5°	71.8	66.3
										75°	64.9	59.3
										77.5°	53.7	47.4
										80°	41.2	37.0
										82.5°	30.7	27.2
										85°	16.0	12.6
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	14.0	10.0
										102.5°	38.0	32.0
										105°	61.0	56.0
										107.5°	84.0	80.0



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0-LED-E1-T3-7030-ULG

tinued):

175°	180°
272.7	272.7
275.5	274.8
279.7	280.4
282.5	281.8
274.8	273.4
267.1	267.1
266.4	266.4
256.7	256.0
239.9	237.8
216.2	214.1
186.9	184.1
161.1	161.1
143.7	143.7
134.6	135.3
126.2	126.9
113.7	113.7
103.2	103.2
98.3	97.6
94.2	93.5
91.4	90.7
88.6	88.6
86.5	86.5
86.5	85.1
87.2	85.1
85.8	84.4
85.8	85.1
87.2	85.8
87.2	84.4
79.5	74.6
75.3	71.1
67.7	64.9
57.9	57.2
45.3	44.6
37.0	34.9
26.5	23.0
10.5	10.5
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.0	8.0
28.0	28.0
54.0	54.0
77.0	78.0

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	106.0	103.0	102.0
112.5°	129.0	126.0	124.0
115°	151.0	149.0	147.0
117.5°	174.0	172.0	170.0
120°	198.0	196.0	195.0
122.5°	223.0	221.0	220.0
125°	248.0	247.0	246.0
127.5°	272.0	270.0	269.0
130°	294.0	293.0	292.0
132.5°	318.0	317.0	314.0
135°	341.0	339.0	337.0
137.5°	364.0	363.0	360.0
140°	386.0	385.0	383.0
142.5°	407.0	408.0	406.0
145°	428.0	428.0	426.0
147.5°	448.0	447.0	444.0
150°	465.0	464.0	462.0
152.5°	482.0	483.0	480.0
155°	501.0	502.0	500.0
157.5°	516.0	517.0	515.0
160°	529.0	529.0	527.0
162.5°	538.0	539.0	536.0
165°	548.0	549.0	547.0
167.5°	558.0	559.0	556.0
170°	565.0	566.0	563.0
172.5°	567.0	569.0	566.0
175°	569.0	570.0	569.0
177.5°	574.0	575.0	573.0
180°	576.0	576.0	576.0



13-7030-ULG

<u>180°</u>
101.0
124.0
146.0
169.0
193.0
219.0
244.0
267.0
290.0
313.0
336.0
359.0
382.0
404.0
425.0
444.0
461.0
479.0
499.0
513.0
525.0
535.0
546.0
555.0
562.0
565.0
567.0
572.0
576.0

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