

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: P228586

Luminaire Tested: **ISS-AF-350-LED-E1-SLR-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)-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-SLR-8030-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, 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: 3050.2 lumens
Efficiency: N/A
Efficacy: 82.9 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

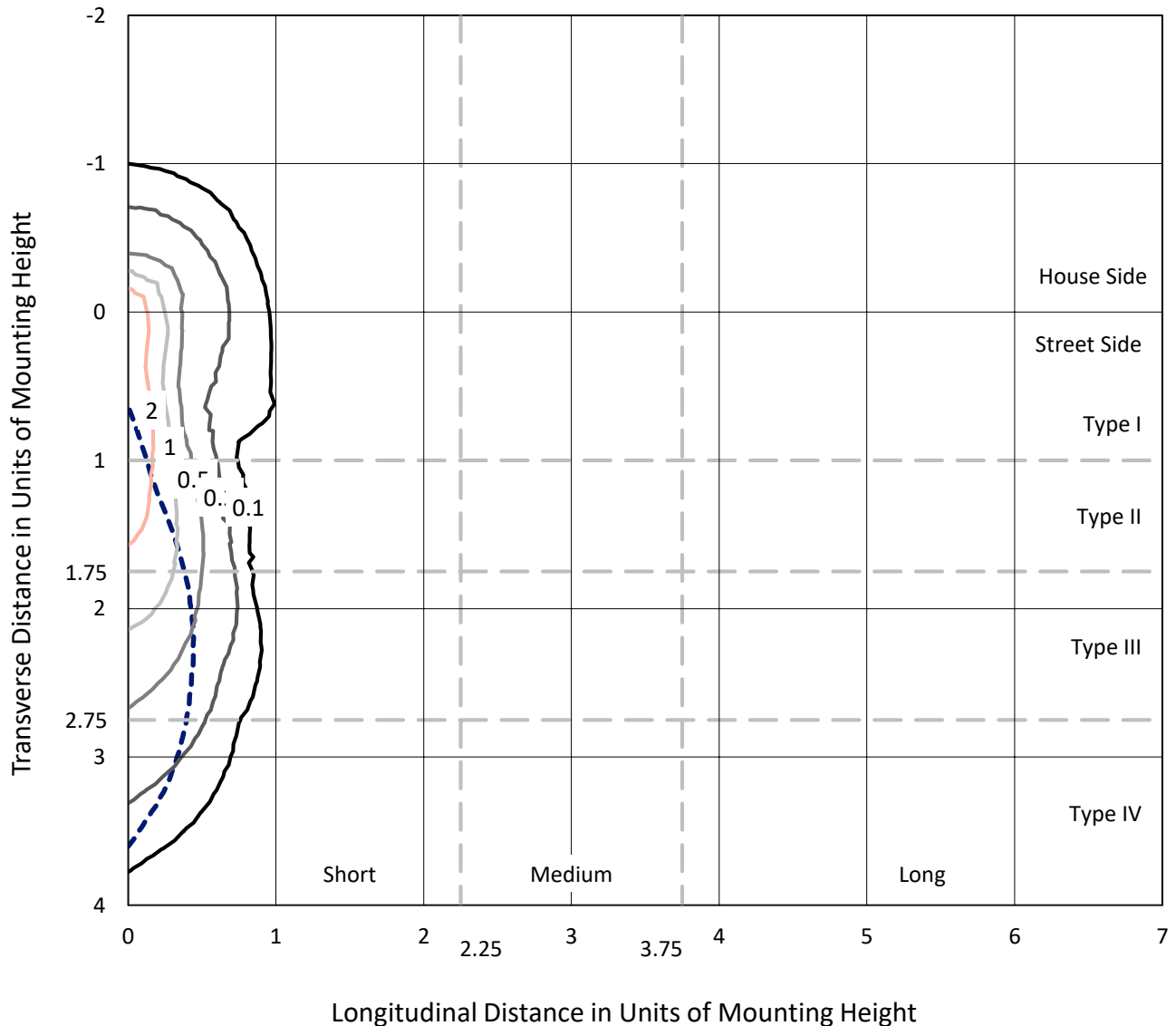


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

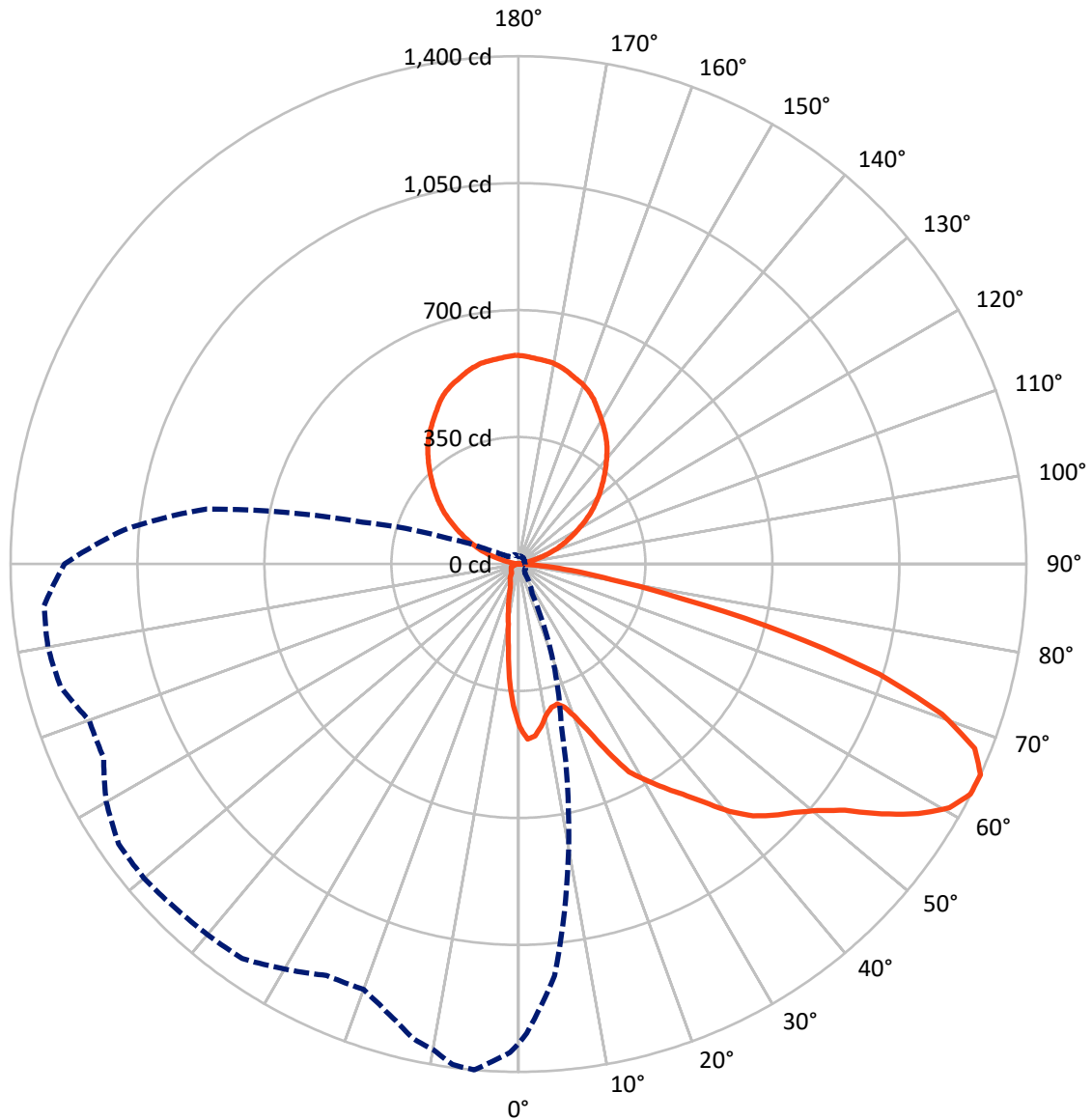


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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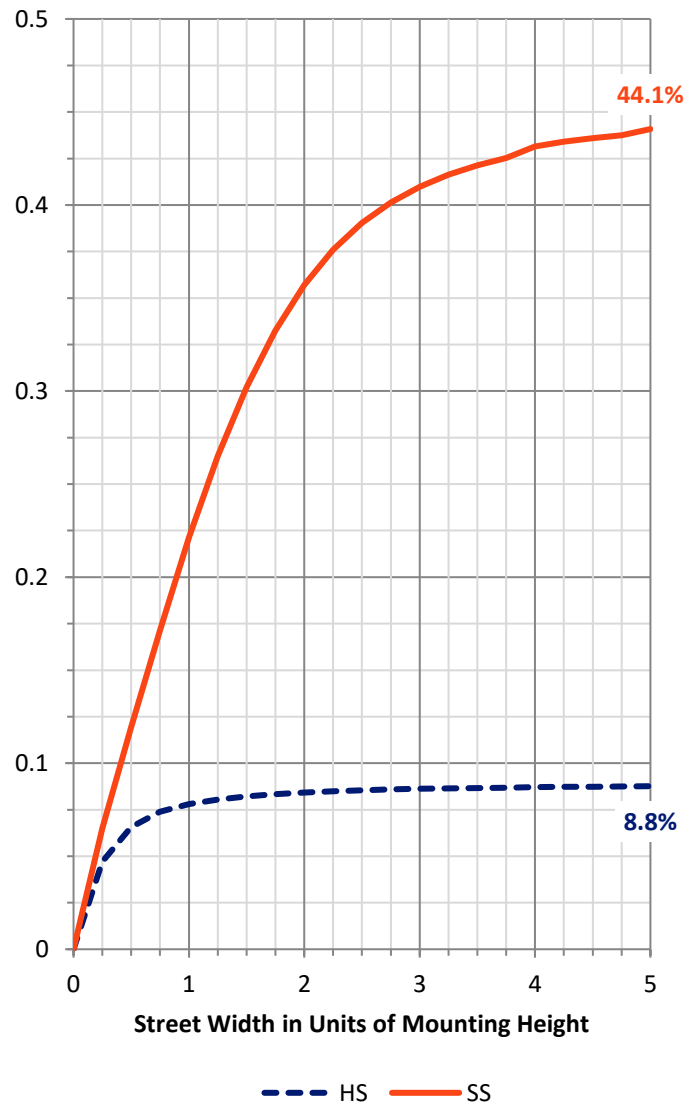
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	270.0	713.1	983.1
	% Fixture	8.9	23.4	32.2
Street Side	Lumens	1354.0	713.1	2067.0
	% Fixture	44.4	23.4	67.8
Total	Lumens	1624.0	1426.2	3050.2
	% Fixture	53.2	46.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	1.1
10°-20°	71.1	2.3
20°-30°	103.4	3.4
30°-40°	152.9	5.0
40°-50°	222.8	7.3
50°-60°	333.9	10.9
60°-70°	416.1	13.6
70°-80°	243.7	8.0
80°-90°	45.6	1.5
90°-100°	4.7	0.2
100°-110°	69.0	2.3
110°-120°	153.0	5.0
120°-130°	223.9	7.3
130°-140°	265.6	8.7
140°-150°	269.3	8.8
150°-160°	231.1	7.6
160°-170°	155.1	5.1
170°-180°	54.3	1.8
0°-90°	1624.0	53.2
0°-180°	3050.2	100.0



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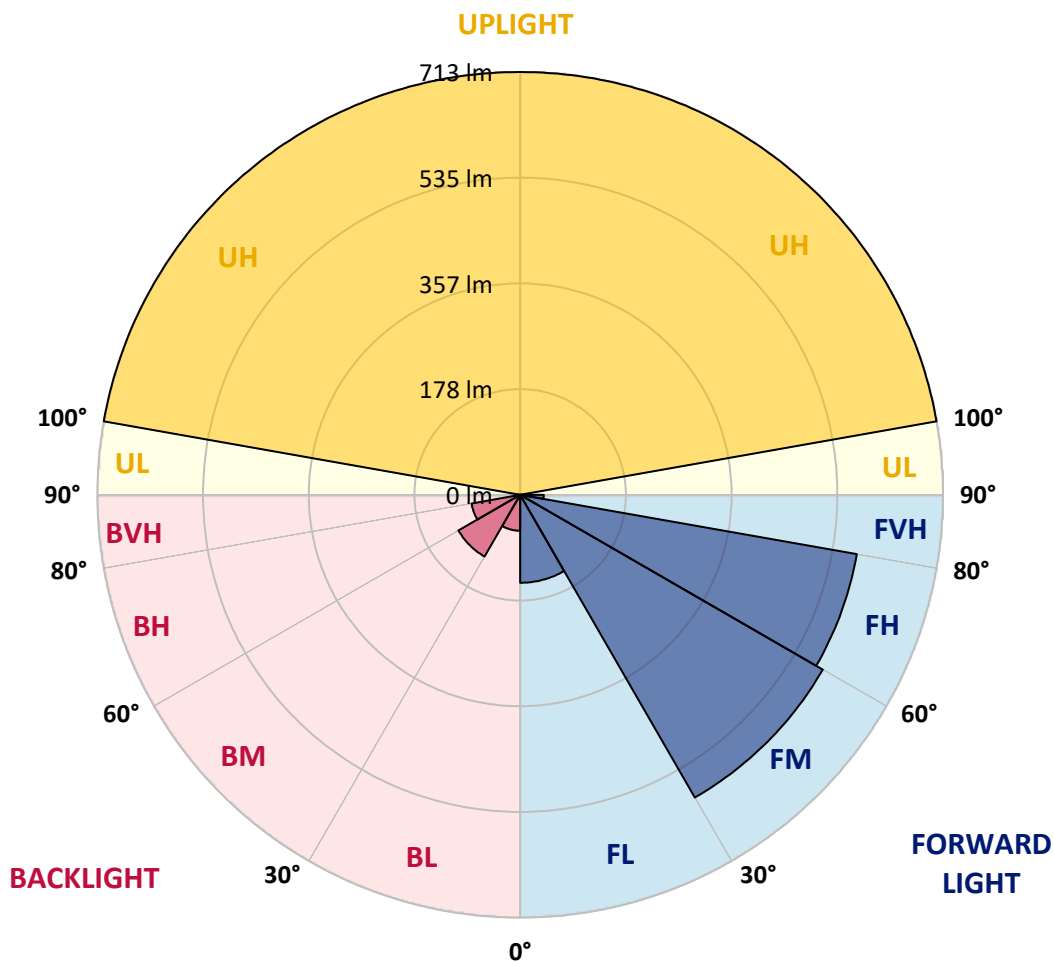
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	148.4	4.9			
FM (30°-60°)	589.4	19.3			
FH (60°-80°)	576.5	18.9			G0/660
FVH (80°-90°)	39.7	1.3			G1/100
BL (0°-30°)	60.6	2.0	B0/110		
BM (30°-60°)	120.2	3.9	B0/220		
BH (60°-80°)	83.3	2.7	B0/110		G0/110
BVH (80°-90°)	5.9	0.2			G0/10
UL (90°-100°)	4.7	0.2		U1/10	
UH (100°-180°)	713.1	23.4		U4/1000	

BUG Rating: B0-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
0°	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4
2.5°	477.1	473.2	465.5	450.1	434.0	418.6	416.0	410.2	410.8	407.6	406.3
5°	461.6	456.5	440.4	408.3	380.6	352.3	350.4	338.8	340.1	333.1	329.2
7.5°	427.6	420.5	402.5	358.1	319.5	282.3	278.4	264.9	263.0	255.9	250.1
10°	394.1	387.1	364.6	313.8	269.4	241.8	237.3	230.8	225.7	222.5	216.7
12.5°	372.9	369.1	342.1	283.5	248.8	226.3	220.5	214.1	209.0	203.2	197.4
15°	368.4	360.7	333.1	273.9	233.4	205.7	198.7	191.6	185.8	180.0	171.7
17.5°	380.6	372.9	342.1	269.4	216.0	182.6	173.6	164.0	158.2	151.1	142.1
20°	409.6	397.3	359.4	263.0	197.4	155.6	144.7	133.1	126.7	114.4	108.0
22.5°	455.9	440.4	389.0	263.0	180.0	127.3	115.1	104.8	97.7	86.8	79.7
25°	522.1	508.6	437.2	270.0	164.6	103.5	91.3	81.0	73.9	66.2	61.7
27.5°	583.8	562.6	488.6	280.3	152.4	86.8	74.6	66.2	61.1	57.2	54.7
30°	630.1	612.7	533.7	287.4	134.4	72.7	64.9	59.8	57.2	55.3	54.0
32.5°	672.5	652.6	565.8	291.9	123.4	61.7	54.7	50.8	48.2	45.6	45.0
35°	717.5	698.2	603.7	291.3	116.4	56.6	49.5	45.0	42.4	41.8	40.5
37.5°	779.9	753.5	647.5	291.3	113.8	54.7	46.3	41.8	39.9	38.6	37.9
40°	840.3	810.8	695.7	293.2	111.2	53.4	46.3	41.8	38.6	37.3	36.0
42.5°	896.9	864.1	739.4	296.4	109.9	49.5	43.7	41.1	39.9	37.3	35.4
45°	940.0	914.3	773.5	302.8	109.9	46.9	41.1	39.2	38.6	38.6	37.9
47.5°	981.8	952.9	812.7	315.0	111.9	45.0	39.2	36.6	36.6	36.6	37.3
50°	1035.8	1001.7	866.7	340.1	111.9	44.4	37.3	34.7	34.1	35.4	35.4
52.5°	1109.1	1084.7	945.8	376.1	110.6	43.7	36.6	32.8	32.1	32.8	34.1
55°	1212.6	1185.0	1041.6	420.5	109.3	42.4	35.4	32.1	30.9	30.2	30.9
57.5°	1302.0	1278.2	1129.7	455.9	106.1	39.2	34.1	31.5	29.6	28.9	28.3
60°	1341.2	1321.3	1186.3	479.6	100.3	36.0	32.1	30.2	28.3	27.6	27.0
62.5°	1347.6	1322.6	1186.9	484.8	93.9	32.8	30.2	28.3	27.0	26.4	25.7
65°	1322.6	1294.3	1140.0	453.3	88.7	32.8	28.9	27.0	25.1	24.4	23.8
67.5°	1266.0	1222.3	1021.0	384.5	84.2	33.4	28.3	25.1	23.8	23.1	22.5
70°	1129.7	1080.8	862.2	305.4	82.3	34.1	28.3	23.8	21.9	21.2	21.2
72.5°	905.3	849.3	672.5	230.2	79.1	34.7	27.6	22.5	20.6	19.3	19.3
75°	612.7	563.9	455.9	155.6	65.6	30.2	25.1	20.6	18.0	16.7	16.1
77.5°	341.4	325.3	290.0	82.3	41.8	22.5	19.3	16.7	14.8	14.1	13.5
80°	200.6	192.2	171.0	45.6	25.7	12.9	11.6	10.9	9.6	9.6	9.6
82.5°	122.8	114.4	106.1	20.6	12.2	6.4	6.4	5.1	5.1	4.5	4.5
85°	33.4	30.9	43.1	4.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	2.0	3.0	4.0	5.2	6.5	7.8	9.0	10.0
100°	8.0	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5
102.5°	28.0	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2
105°	54.0	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2
107.5°	78.0	77.8	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5
110°	101.0	101.2	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5



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CATALOG NUMBER: ISS-AF-350-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
112.5°	124.0	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5
115°	146.0	146.2	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5
117.5°	169.0	169.2	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2
120°	193.0	193.4	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5
122.5°	219.0	219.2	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2
125°	244.0	244.4	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2
127.5°	267.0	267.4	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5
130°	290.0	290.4	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5
132.5°	313.0	313.2	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8
135°	336.0	336.2	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8
137.5°	359.0	359.2	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5
140°	382.0	382.2	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2
142.5°	404.0	404.4	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5
145°	425.0	425.2	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5
147.5°	444.0	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2
150°	461.0	461.2	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2
152.5°	479.0	479.2	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2
155°	499.0	499.2	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2
157.5°	513.0	513.4	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	525.4	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	535.2	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2
165°	546.0	546.2	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2
167.5°	555.0	555.2	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0
170°	562.0	562.2	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8
172.5°	565.0	565.2	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2
175°	567.0	567.4	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2
177.5°	572.0	572.2	573.0	575.0	574.0	578.0	577.8	577.5	577.2	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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4
2.5°	401.2	399.9	399.9	390.3	390.3	385.1	383.8	383.8	385.8	384.5	376.8
5°	322.8	318.9	316.3	304.8	301.5	295.8	293.2	292.5	294.5	291.3	281.0
7.5°	243.0	239.8	236.0	227.0	223.1	222.5	214.7	212.8	211.5	209.0	202.5
10°	212.2	207.7	204.5	198.0	193.5	190.3	183.9	180.7	178.1	174.2	172.3
12.5°	191.0	186.5	182.0	173.6	167.8	164.0	160.1	153.7	151.1	146.6	144.0
15°	164.6	159.5	154.3	145.3	137.6	133.7	126.0	122.2	119.6	114.4	111.9
17.5°	132.4	125.4	119.6	111.2	107.4	100.9	96.4	90.0	84.9	82.9	81.0
20°	99.7	93.2	88.1	81.0	77.2	72.0	69.4	64.9	62.4	61.1	59.8
22.5°	73.3	68.2	64.9	61.1	59.2	57.2	55.9	54.7	53.4	52.7	52.7
25°	57.9	55.9	54.7	53.4	52.7	52.1	50.8	50.2	49.5	48.9	48.9
27.5°	52.7	51.4	50.8	50.2	49.5	48.2	48.2	46.9	46.3	46.3	45.6
30°	53.4	53.4	53.4	52.1	51.4	50.2	49.5	47.6	46.3	45.0	44.4
32.5°	43.7	43.7	43.1	41.8	41.1	40.5	40.5	39.2	38.6	38.6	39.9
35°	39.9	39.2	38.6	37.3	36.6	35.4	34.7	34.1	33.4	32.8	32.8
37.5°	37.9	37.3	36.6	35.4	34.7	34.1	34.1	33.4	32.1	31.5	30.9
40°	36.0	36.0	36.0	34.7	34.1	32.8	32.1	31.5	30.9	30.2	30.2
42.5°	34.7	34.7	34.7	34.1	33.4	32.8	31.5	30.9	30.2	29.6	28.9
45°	35.4	34.7	34.7	34.1	33.4	32.1	31.5	30.2	29.6	28.9	28.3
47.5°	37.9	37.3	36.0	34.7	33.4	32.1	30.9	29.6	28.9	28.3	27.6
50°	36.0	38.6	39.2	37.3	34.1	32.1	30.9	29.6	28.3	27.6	27.0
52.5°	35.4	36.0	38.6	38.6	35.4	32.8	30.9	29.6	28.3	27.0	26.4
55°	32.1	34.1	34.7	35.4	34.7	32.1	30.2	28.3	27.6	26.4	25.1
57.5°	28.3	29.6	30.2	31.5	32.1	31.5	28.9	27.0	26.4	25.1	23.8
60°	26.4	26.4	26.4	27.0	30.2	32.8	30.2	26.4	24.4	23.8	22.5
62.5°	24.4	24.4	23.8	24.4	25.1	28.3	27.6	25.1	23.8	23.1	21.9
65°	23.8	23.1	22.5	22.5	22.5	22.5	22.5	22.5	21.9	21.9	21.2
67.5°	21.9	21.2	21.2	20.6	20.6	20.6	20.6	20.6	19.9	19.9	19.3
70°	20.6	19.9	19.3	19.3	19.3	18.6	18.6	18.6	18.0	18.0	18.0
72.5°	18.6	18.0	18.0	18.0	17.4	17.4	17.4	16.7	16.7	16.1	16.1
75°	16.1	16.1	15.4	15.4	15.4	14.8	14.8	14.8	14.8	14.1	14.1
77.5°	13.5	12.9	13.5	12.9	12.9	12.9	12.9	12.9	12.2	12.2	11.6
80°	9.0	9.0	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.0
82.5°	5.1	4.5	5.1	5.1	5.1	5.8	5.8	6.4	5.8	5.8	5.1
85°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	11.0	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.0	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.5	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.5	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.0	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0



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CATALOG NUMBER: ISS-AF-350-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	135.0	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.0	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.5	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.0	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.5	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.5	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.0	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.0	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	323.5	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	346.5	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.0	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.5	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.0	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.0	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.5	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.5	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.5	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.5	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.5	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.5	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.5	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.5	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.5	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	577.0	576.2	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°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4
2.5°	380.6	380.0	373.6	374.8	372.9	369.1	369.7	370.3	371.6	369.1	367.8
5°	286.1	286.8	278.4	281.0	279.0	278.4	280.3	283.5	285.5	284.8	282.9
7.5°	203.2	203.8	196.7	196.1	194.2	193.5	196.1	199.3	201.2	200.6	201.2
10°	167.8	165.9	159.5	155.0	150.5	146.6	146.0	146.0	146.0	144.7	143.4
12.5°	138.9	136.9	129.2	125.4	121.5	116.4	115.7	115.1	113.2	111.2	108.7
15°	108.0	106.1	99.7	97.1	93.9	91.9	91.3	91.3	90.0	88.7	87.4
17.5°	78.4	77.2	73.3	70.7	70.1	70.7	71.4	72.7	73.3	73.9	73.9
20°	59.2	58.5	57.2	57.2	57.9	59.8	60.4	62.4	63.0	64.3	65.6
22.5°	52.1	52.1	51.4	51.4	52.7	54.7	55.9	56.6	57.2	57.9	57.9
25°	48.2	48.2	47.6	48.9	50.8	50.8	50.8	50.8	49.5	48.9	48.9
27.5°	45.6	45.6	45.6	46.3	45.6	45.0	45.0	45.0	44.4	44.4	43.7
30°	43.7	43.7	43.7	43.1	43.1	42.4	42.4	41.8	41.8	41.1	41.1
32.5°	40.5	39.2	40.5	39.2	39.2	38.6	39.2	39.2	37.9	37.9	37.9
35°	32.1	31.5	31.5	31.5	30.9	31.5	32.8	32.8	32.8	32.8	32.8
37.5°	30.2	30.2	29.6	28.9	28.9	28.3	28.9	28.3	28.3	28.3	28.9
40°	29.6	28.9	28.3	28.3	27.6	27.0	27.0	27.0	27.0	27.0	27.0
42.5°	28.3	28.3	27.0	26.4	26.4	25.7	25.7	25.7	25.7	25.7	25.7
45°	27.6	27.0	26.4	25.7	25.1	25.1	25.1	25.1	25.1	25.1	24.4
47.5°	27.0	26.4	25.7	25.1	24.4	23.8	23.8	23.8	23.8	23.8	23.8
50°	26.4	25.7	24.4	24.4	23.8	23.1	23.1	23.1	23.1	23.1	23.1
52.5°	25.1	25.1	23.8	23.1	22.5	22.5	22.5	22.5	22.5	22.5	22.5
55°	23.8	23.8	22.5	21.9	21.2	21.2	21.2	21.2	21.9	21.9	21.9
57.5°	23.1	22.5	21.2	21.2	19.9	19.9	19.9	20.6	20.6	21.2	21.2
60°	21.9	21.2	20.6	19.9	19.9	19.3	19.3	19.3	19.3	19.9	19.9
62.5°	21.2	20.6	19.3	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
65°	19.9	19.9	18.6	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
67.5°	18.6	18.6	17.4	16.7	16.7	16.7	17.4	16.7	16.7	16.7	16.7
70°	17.4	16.7	16.1	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
72.5°	15.4	15.4	14.8	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.8
75°	13.5	12.9	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
77.5°	11.6	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.9
80°	8.4	7.7	7.7	7.7	7.7	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	5.1	4.5	4.5	4.5	5.1	5.8	5.8	5.8	5.8	6.4	6.4
85°	1.3	1.3	1.3	1.3	2.6	3.2	3.2	3.2	3.9	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	0°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	2.5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	7.5°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	10°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	12.5°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	15°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	17.5°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	20°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	22.5°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	25°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	27.5°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	30°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	32.5°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	35°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	37.5°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	40°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	42.5°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	45°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	47.5°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	50°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	52.5°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	55°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	57.5°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	60°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	62.5°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	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°
												110°



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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	115°	115°
449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	112.5°	136.0
366.5	374.2	374.2	369.1	371.6	369.1	368.4	372.9	375.5	383.8	389.0	115°	158.0
283.5	293.2	293.8	291.3	294.5	292.5	294.5	300.3	304.8	310.5	315.7	117.5°	181.0
202.5	211.5	213.5	211.5	217.3	216.7	218.0	224.4	228.2	231.5	232.1	120°	204.0
142.7	144.0	149.2	147.9	151.7	151.1	153.0	158.2	163.3	165.2	166.5	122.5°	228.0
107.4	106.1	108.0	105.4	107.4	107.4	108.0	111.2	117.7	120.2	126.7	125°	254.0
86.8	85.5	85.5	84.2	84.2	83.6	84.2	86.8	91.3	95.2	100.3	127.5°	277.0
73.9	73.9	73.9	73.3	72.7	72.7	73.3	74.6	77.2	79.7	82.3	130°	301.0
66.2	67.5	68.2	68.8	69.4	70.1	70.7	72.7	72.0	69.4	66.2	132.5°	325.0
57.9	57.9	58.5	58.5	57.9	57.9	57.9	57.9	57.9	59.8	61.7	135°	348.0
48.2	48.2	48.2	48.9	48.2	48.2	48.9	48.9	49.5	50.8	52.7	137.5°	369.0
43.7	43.7	43.7	43.7	43.7	43.7	43.7	44.4	45.0	46.9	48.2	140°	390.0
40.5	40.5	39.9	39.9	39.9	39.2	39.9	39.9	40.5	43.1	45.0	142.5°	412.0
37.3	36.6	36.6	36.6	36.0	36.0	36.0	37.3	37.9	39.2	41.1	145°	433.0
32.8	32.8	32.8	33.4	33.4	33.4	33.4	34.7	34.7	35.4	35.4	147.5°	452.0
29.6	29.6	30.2	30.9	30.9	31.5	31.5	32.1	32.8	32.1	31.5	150°	469.0
27.0	27.6	27.6	28.9	28.9	28.9	29.6	30.2	30.9	29.6	29.6	152.5°	486.0
25.7	25.7	25.7	26.4	26.4	26.4	27.0	27.6	28.3	28.3	28.3	155°	503.0
24.4	24.4	24.4	25.1	24.4	24.4	24.4	25.1	26.4	26.4	27.0	157.5°	517.0
23.8	23.8	23.8	23.1	23.1	23.1	23.1	23.8	24.4	25.7	26.4	160°	530.0
23.1	22.5	22.5	22.5	22.5	22.5	22.5	23.1	23.8	24.4	25.7	162.5°	540.0
21.9	21.9	21.9	21.9	21.9	21.9	21.9	22.5	23.1	23.8	24.4	165°	550.0
21.9	21.9	21.2	21.2	21.9	21.9	21.9	22.5	23.1	23.8	23.8	167.5°	558.0
21.2	20.6	20.6	21.2	21.2	21.2	21.2	21.9	22.5	23.1	23.1	170°	564.0
19.9	19.9	19.9	19.9	20.6	20.6	21.2	21.9	21.9	22.5	22.5	172.5°	567.0
18.6	19.3	19.3	19.3	19.9	19.9	20.6	21.2	21.9	22.5	21.9	175°	570.0
18.0	18.6	18.6	18.6	19.3	19.3	19.3	20.6	21.2	21.2	21.9	177.5°	574.0
17.4	17.4	17.4	18.0	18.0	18.6	18.6	19.9	19.9	20.6	21.2	180°	576.0
16.1	16.1	16.1	16.7	16.7	17.4	18.0	18.6	18.6	19.3	19.9		
14.8	14.8	14.8	15.4	15.4	16.1	16.7	18.0	17.4	18.0	18.0		
12.9	12.9	13.5	13.5	14.1	14.8	15.4	15.4	15.4	15.4	15.4		
10.9	10.9	11.6	11.6	12.2	12.9	12.9	12.9	13.5	12.9	12.9		
9.0	9.0	9.6	9.6	9.6	9.6	10.3	9.6	10.3	9.6	10.3		
6.4	6.4	7.1	6.4	7.1	6.4	6.4	5.8	7.1	6.4	6.4		
2.6	3.2	3.2	3.2	3.2	2.6	2.6	1.9	2.6	2.6	1.9		
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	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		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		
114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0		

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TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	0°	449.4	449.4
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	390.9	390.3
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	316.3	315.0
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	226.3	223.7
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	167.2	169.1
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	133.7	141.4
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	107.4	111.9
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	82.9	84.9
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	66.2	66.2
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	57.9	57.2
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	54.7	54.0
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	49.5	50.2
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	46.3	46.9
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	42.4	43.1
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	34.7	34.7
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	32.1	32.1
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	30.2	30.9
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	28.9	28.9
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	27.6	28.3
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	27.0	27.0
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	25.7	26.4
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	25.1	25.7
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	24.4	24.4
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	23.1	23.8
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	23.1	23.1
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	22.5	22.5
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	21.9	21.9
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	20.6	20.6
										70°	19.3	19.3
										72.5°	18.0	17.4
										75°	15.4	15.4
										77.5°	12.9	12.9
										80°	9.6	9.0
										82.5°	5.8	5.1
										85°	1.9	1.9
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0
										110°	102.0	101.0

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0-LED-E1-SLR-8030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

185°	195°	205°	215°	225°	230°	235°	240°	245°		175°	180°	185°
449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	112.5°	124.0	124.0	124.0
399.9	407.0	411.5	428.9	436.6	446.2	450.7	457.1	463.6	115°	147.0	146.0	147.0
326.6	335.6	343.3	368.4	383.2	396.7	407.6	417.9	432.7	117.5°	170.0	169.0	170.0
231.5	239.2	249.5	276.5	302.2	320.2	336.3	353.6	372.9	120°	195.0	193.0	195.0
176.8	188.4	201.9	222.5	243.0	255.9	270.0	289.3	312.5	122.5°	220.0	219.0	220.0
147.9	162.0	178.1	201.2	223.1	233.4	243.7	253.3	265.5	125°	246.0	244.0	246.0
117.0	130.5	149.8	176.8	202.5	214.1	226.3	237.9	248.8	127.5°	269.0	267.0	269.0
87.4	97.1	114.4	146.6	174.9	189.7	203.8	219.9	234.7	130°	292.0	290.0	292.0
66.9	71.4	83.6	108.7	143.4	162.0	180.0	200.6	221.8	132.5°	314.0	313.0	314.0
57.9	59.8	65.6	80.4	111.9	133.7	156.9	182.6	209.0	135°	337.0	336.0	337.0
53.4	54.7	57.9	64.9	87.4	110.6	134.4	165.2	197.4	137.5°	360.0	359.0	360.0
50.8	52.1	54.7	58.5	72.7	90.0	116.4	150.5	189.0	140°	383.0	382.0	383.0
47.6	48.9	53.4	57.9	66.2	77.2	99.7	133.1	176.2	142.5°	406.0	404.0	406.0
43.7	44.4	45.6	50.8	56.6	65.6	84.9	117.7	162.7	145°	426.0	425.0	426.0
35.4	37.3	39.9	45.0	50.8	57.9	75.9	107.4	154.3	147.5°	444.0	444.0	444.0
32.8	34.7	37.3	41.8	46.9	53.4	72.0	103.5	146.6	150°	462.0	461.0	462.0
30.9	32.8	35.4	40.5	43.7	51.4	70.1	97.7	138.9	152.5°	480.0	479.0	480.0
29.6	31.5	34.7	38.6	43.1	50.2	64.9	92.6	134.4	155°	500.0	499.0	500.0
28.3	30.2	34.1	37.3	43.7	47.6	61.7	88.7	130.5	157.5°	515.0	513.0	515.0
27.6	29.6	33.4	37.9	42.4	45.0	58.5	85.5	127.3	160°	527.0	525.0	527.0
27.0	28.9	32.8	41.8	40.5	43.1	55.9	82.9	125.4	162.5°	536.0	535.0	536.0
26.4	28.3	32.8	42.4	39.2	40.5	54.0	80.4	124.1	165°	547.0	546.0	547.0
25.1	27.6	32.8	39.2	36.6	39.2	50.2	76.5	120.9	167.5°	556.0	555.0	556.0
24.4	26.4	32.1	36.0	34.7	37.3	46.3	70.1	116.4	170°	563.0	562.0	563.0
23.8	25.7	32.1	32.1	32.8	35.4	41.8	62.4	108.7	172.5°	566.0	565.0	566.0
23.1	25.7	32.8	28.9	30.9	33.4	38.6	55.9	99.0	175°	569.0	567.0	569.0
22.5	24.4	28.3	27.6	29.6	31.5	37.3	51.4	90.7	177.5°	573.0	572.0	573.0
21.2	23.1	25.1	25.7	28.3	30.2	36.6	50.8	82.9	180°	576.0	576.0	576.0
19.3	21.2	22.5	24.4	26.4	28.9	36.6	50.2	77.2				
18.0	19.3	20.6	21.9	23.8	27.0	36.0	50.8	74.6				
15.4	16.7	18.0	19.3	21.2	25.1	34.1	47.6	66.9				
12.2	14.1	15.4	16.1	18.0	21.9	29.6	40.5	54.0				
9.0	10.9	11.6	12.9	14.1	16.7	23.1	29.6	39.9				
5.1	7.1	7.7	8.4	10.9	12.2	15.4	19.3	27.0				
1.9	3.2	3.9	4.5	6.4	7.1	9.6	12.2	14.1				
0.0	0.0	0.0	0.0	1.3	1.9	3.2	3.9	3.2				
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				
2.0	2.0	3.0	4.0	9.0	11.0	13.0	10.0	7.0				
8.0	10.0	14.0	22.0	30.0	31.0	32.0	31.0	30.0				
28.0	32.0	38.0	45.0	50.0	50.5	51.0	50.5	50.0				
54.0	56.0	61.0	66.0	70.0	70.5	71.0	71.0	71.0				
77.0	80.0	84.0	88.0	91.0	92.0	93.0	92.5	92.0				
102.0	103.0	106.0	110.0	112.0	113.0	114.0	114.0	114.0				

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CANDELA DISTRIBUTION (continued):

195°	205°	215°	225°	230°	235°	240°	245°		250°	255°	260°	265°
126.0	129.0	132.0	134.0	135.0	136.0	136.0	136.0	0°	449.4	449.4	449.4	449.4
149.0	151.0	154.0	156.0	157.0	158.0	158.0	158.0	2.5°	471.3	477.7	486.1	493.8
172.0	174.0	177.0	179.0	179.5	180.0	180.5	181.0	5°	444.3	456.5	474.5	489.3
196.0	198.0	201.0	202.0	203.0	204.0	204.0	204.0	7.5°	389.6	406.3	428.9	449.4
221.0	223.0	226.0	227.0	227.5	228.0	228.0	228.0	10°	332.4	355.6	379.3	405.7
247.0	248.0	251.0	252.0	252.5	253.0	253.5	254.0	12.5°	285.5	311.8	338.8	371.6
270.0	272.0	274.0	276.0	277.0	278.0	277.5	277.0	15°	265.5	288.7	320.2	356.2
293.0	294.0	298.0	299.0	300.0	301.0	301.0	301.0	17.5°	257.2	286.8	322.8	360.7
317.0	318.0	321.0	322.0	323.5	325.0	325.0	325.0	20°	248.2	288.7	336.9	383.2
339.0	341.0	345.0	345.0	346.5	348.0	348.0	348.0	22.5°	243.0	295.1	354.9	419.8
363.0	364.0	367.0	367.0	368.0	369.0	369.0	369.0	25°	241.8	309.9	385.8	471.9
385.0	386.0	388.0	389.0	389.5	390.0	390.0	390.0	27.5°	243.0	326.6	424.3	527.9
408.0	407.0	410.0	410.0	411.0	412.0	412.0	412.0	30°	237.3	344.0	462.9	576.7
428.0	428.0	431.0	432.0	433.0	434.0	433.5	433.0	32.5°	227.6	356.8	497.0	616.0
447.0	448.0	452.0	453.0	453.5	454.0	453.0	452.0	35°	216.7	362.6	521.4	652.6
464.0	465.0	469.0	470.0	470.5	471.0	470.0	469.0	37.5°	205.1	363.3	544.6	691.2
483.0	482.0	485.0	486.0	486.5	487.0	486.5	486.0	40°	198.7	360.7	568.4	738.8
502.0	501.0	503.0	503.0	503.5	504.0	503.5	503.0	42.5°	196.1	356.2	585.7	774.8
517.0	516.0	519.0	519.0	519.0	519.0	518.0	517.0	45°	196.1	351.7	601.8	801.8
529.0	529.0	532.0	532.0	532.0	532.0	531.0	530.0	47.5°	196.7	353.6	621.1	845.5
539.0	538.0	541.0	541.0	541.5	542.0	541.0	540.0	50°	200.0	375.5	653.9	893.7
549.0	548.0	552.0	552.0	552.5	553.0	551.5	550.0	52.5°	205.1	410.2	710.5	950.9
559.0	558.0	561.0	560.0	560.0	560.0	559.0	558.0	55°	210.2	445.6	784.4	1046.7
566.0	565.0	567.0	566.0	565.5	565.0	564.5	564.0	57.5°	214.7	471.9	856.4	1141.9
569.0	567.0	569.0	568.0	568.5	569.0	568.0	567.0	60°	219.2	492.5	898.2	1184.3
570.0	569.0	572.0	572.0	572.5	573.0	571.5	570.0	62.5°	216.7	484.8	909.8	1163.1
575.0	574.0	578.0	577.0	577.0	577.0	575.5	574.0	65°	207.0	444.3	873.1	1089.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	180.7	373.6	760.6	974.1
								70°	149.8	293.2	620.5	829.4
								72.5°	126.0	219.2	477.1	642.3
								75°	104.8	155.0	335.6	442.4
								77.5°	77.8	105.4	243.0	309.3
								80°	52.1	64.9	155.0	216.0
								82.5°	31.5	37.9	89.4	151.1
								85°	17.4	23.8	54.7	99.0
								87.5°	4.5	5.1	12.2	4.5
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	1.0	1.0	1.0	1.0
								97.5°	6.0	5.0	4.5	4.0
								100°	28.5	27.0	26.5	26.0
								102.5°	49.0	48.0	48.5	49.0
								105°	70.0	69.0	70.0	71.0
								107.5°	91.5	91.0	91.5	92.0
								110°	113.5	113.0	113.5	114.0

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JLG

CANDELA DISTRIBUTION (continued):

270°	275°	280°	285°	290°	295°	300°		250°	255°	260°	265°	270°
449.4	449.4	449.4	449.4	449.4	449.4	449.4	112.5°	135.5	135.0	136.0	137.0	135.0
499.6	504.7	511.1	511.1	518.9	521.4	526.6	115°	158.0	158.0	159.0	160.0	159.0
507.3	524.7	540.7	549.7	565.2	575.4	585.7	117.5°	180.5	180.0	181.0	182.0	180.0
475.8	504.1	530.4	554.9	580.6	602.4	618.5	120°	204.0	204.0	205.0	206.0	204.0
434.0	464.2	496.4	529.2	560.0	590.9	617.2	122.5°	228.5	229.0	231.0	233.0	232.0
404.4	436.6	474.5	502.8	534.9	565.8	591.5	125°	254.0	254.0	255.5	257.0	256.0
390.9	423.7	459.1	488.0	518.2	543.3	561.3	127.5°	277.5	278.0	279.5	281.0	278.0
398.0	437.9	469.4	493.8	516.3	527.9	530.4	130°	301.5	302.0	303.5	305.0	303.0
428.9	470.6	493.8	509.9	513.7	513.1	503.4	132.5°	325.5	326.0	327.5	329.0	327.0
477.1	525.9	542.0	538.8	522.7	502.1	486.1	135°	348.5	349.0	350.0	351.0	350.0
542.0	590.9	599.9	581.9	545.9	506.0	479.0	137.5°	369.5	370.0	372.0	374.0	372.0
610.2	660.3	657.1	630.1	578.7	522.7	479.6	140°	391.0	392.0	394.0	396.0	394.0
658.4	700.2	687.3	646.8	589.6	533.7	488.0	142.5°	412.5	413.0	414.5	416.0	415.0
708.5	740.0	716.9	673.2	614.0	556.8	509.9	145°	433.5	434.0	435.5	437.0	435.0
762.5	779.3	742.0	697.6	643.6	585.7	534.9	147.5°	452.5	453.0	454.5	456.0	453.0
814.6	821.7	767.7	720.1	667.4	615.3	569.0	150°	469.0	469.0	471.0	473.0	470.0
870.6	860.9	794.7	738.8	686.7	646.8	608.9	152.5°	486.0	486.0	487.5	489.0	486.0
918.8	897.6	819.8	757.4	710.5	677.0	650.7	155°	503.5	504.0	505.5	507.0	505.0
954.8	927.1	843.6	775.4	733.6	713.0	700.2	157.5°	517.5	518.0	520.5	523.0	520.0
985.6	955.4	862.2	801.8	765.8	758.0	762.5	160°	530.0	530.0	531.5	533.0	531.0
1024.2	985.6	887.3	831.3	809.5	817.2	842.9	162.5°	539.0	538.0	539.0	540.0	537.0
1084.0	1033.9	929.1	873.8	863.5	891.1	940.0	165°	549.0	548.0	549.0	550.0	548.0
1180.5	1121.3	1003.0	947.7	935.5	977.9	1048.0	167.5°	558.5	559.0	561.0	563.0	561.0
1264.0	1219.0	1100.7	1033.9	1028.7	1074.4	1150.9	170°	565.0	566.0	568.5	571.0	569.0
1302.0	1297.5	1201.7	1140.0	1132.2	1174.7	1247.3	172.5°	567.5	568.0	569.5	571.0	568.0
1298.8	1336.1	1284.0	1240.3	1213.9	1249.3	1320.0	175°	569.0	568.0	569.5	571.0	568.0
1251.8	1312.9	1317.4	1307.1	1259.5	1262.1	1312.3	177.5°	574.0	574.0	575.5	577.0	574.0
1159.9	1232.5	1308.4	1305.2	1244.8	1191.4	1201.7	180°	576.0	576.0	576.0	576.0	576.0
1029.4	1091.7	1212.6	1237.0	1150.9	1051.2	1004.3						
824.9	897.6	1076.9	1111.0	993.4	853.2	780.5						
569.0	664.8	940.0	943.2	806.3	671.2	592.8						
390.9	473.2	760.0	768.3	639.7	509.2	441.7						
263.0	317.0	557.4	522.1	422.4	353.0	335.6						
165.9	197.4	350.4	327.3	278.4	254.6	261.0						
77.2	108.0	191.6	187.1	175.5	153.7	133.7						
1.9	5.8	37.3	24.4	24.4	14.1	5.1						
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						
4.0	4.0	4.5	5.0	6.0	7.0	10.0						
25.0	26.0	26.5	27.0	28.5	30.0	31.0						
48.0	49.0	48.5	48.0	49.0	50.0	50.5						
69.0	71.0	70.0	69.0	70.0	71.0	71.0						
91.0	92.0	91.5	91.0	91.5	92.0	92.5						
113.0	114.0	113.5	113.0	113.5	114.0	114.0						



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CANDELA DISTRIBUTION (continued):

275°	280°	285°	290°	295°	300°		305°	310°	315°	325°	335°	340°
137.0	136.0	135.0	135.5	136.0	136.0	0°	449.4	449.4	449.4	449.4	449.4	449.4
160.0	159.0	158.0	158.0	158.0	158.0	2.5°	522.1	524.0	523.4	518.9	507.3	502.8
182.0	181.0	180.0	180.5	181.0	180.5	5°	585.1	588.3	584.4	573.5	543.9	529.8
206.0	205.0	204.0	204.0	204.0	204.0	7.5°	629.5	632.0	625.6	600.5	547.8	524.0
233.0	231.0	229.0	228.5	228.0	228.0	10°	637.8	643.6	636.5	600.5	539.4	509.9
257.0	255.5	254.0	254.0	254.0	253.5	12.5°	614.0	626.2	621.1	594.7	535.6	504.1
281.0	279.5	278.0	277.5	277.0	277.5	15°	577.4	578.7	581.9	581.2	528.5	497.6
305.0	303.5	302.0	301.5	301.0	301.0	17.5°	536.9	535.6	539.4	551.7	526.6	502.1
329.0	327.5	326.0	325.5	325.0	325.0	20°	500.2	498.3	502.1	514.4	518.9	513.1
351.0	350.0	349.0	348.5	348.0	348.0	22.5°	477.1	470.6	470.0	488.0	522.7	538.2
374.0	372.0	370.0	369.5	369.0	369.0	25°	464.2	457.1	460.4	480.9	538.8	567.7
396.0	394.0	392.0	391.0	390.0	390.0	27.5°	460.4	452.6	457.1	480.3	555.5	603.7
416.0	414.5	413.0	412.5	412.0	412.0	30°	462.9	455.2	457.1	484.8	563.9	612.1
437.0	435.5	434.0	433.5	433.0	433.5	32.5°	477.7	464.2	462.9	498.3	579.3	630.7
456.0	454.5	453.0	452.5	452.0	453.0	35°	497.6	478.4	475.8	520.1	599.2	654.5
473.0	471.0	469.0	469.0	469.0	470.0	37.5°	531.1	507.3	503.4	556.8	626.2	674.5
489.0	487.5	486.0	486.0	486.0	486.5	40°	576.1	552.3	552.3	603.7	662.9	702.1
507.0	505.5	504.0	503.5	503.0	503.5	42.5°	626.9	611.4	614.0	660.3	704.7	736.8
523.0	520.5	518.0	517.5	517.0	518.0	45°	694.4	686.0	698.9	731.7	747.1	769.0
533.0	531.5	530.0	530.0	530.0	531.0	47.5°	773.5	780.5	798.5	808.8	790.2	801.8
540.0	539.0	538.0	539.0	540.0	541.0	50°	872.5	891.1	908.5	905.9	843.6	839.7
550.0	549.0	548.0	549.0	550.0	551.5	52.5°	986.3	1010.7	1022.9	1008.8	903.4	880.8
563.0	561.0	559.0	558.5	558.0	559.0	55°	1102.0	1131.6	1127.7	1111.7	968.3	938.1
571.0	568.5	566.0	565.0	564.0	564.5	57.5°	1206.8	1230.0	1240.3	1205.5	1047.4	1007.5
571.0	569.5	568.0	567.5	567.0	568.0	60°	1289.8	1314.8	1314.8	1280.8	1133.5	1087.2
571.0	569.5	568.0	569.0	570.0	571.5	62.5°	1350.2	1370.1	1363.1	1330.3	1207.5	1172.1
577.0	575.5	574.0	574.0	574.0	575.5	65°	1345.7	1347.6	1339.9	1327.7	1251.8	1248.0
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	1219.0	1219.7	1235.1	1230.0	1218.4	1266.0
						70°	999.2	1009.4	1035.8	1028.1	1087.2	1185.0
						72.5°	760.6	767.0	798.5	791.5	871.8	979.2
						75°	553.6	552.9	566.4	556.2	657.7	777.3
						77.5°	426.3	414.7	412.1	413.4	466.1	565.2
						80°	344.0	344.0	340.1	326.0	285.5	330.5
						82.5°	274.5	263.6	244.3	216.7	183.2	195.5
						85°	136.9	133.1	116.4	96.4	80.4	106.7
						87.5°	0.6	0.0	0.0	0.0	0.0	0.0
						90°	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
						95°	1.0	1.0	1.0	1.0	1.0	1.0
						97.5°	13.0	11.0	9.0	4.0	3.0	2.5
						100°	32.0	31.0	30.0	22.0	14.0	12.0
						102.5°	51.0	50.5	50.0	45.0	38.0	35.0
						105°	71.0	70.5	70.0	66.0	61.0	58.5
						107.5°	93.0	92.0	91.0	88.0	84.0	82.0
						110°	114.0	113.0	112.0	110.0	106.0	104.5

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CANDELA DISTRIBUTION (continued):

342.5°	345°	347.5°	350°	352.5°		305°	310°	315°	325°	335°	340°	342.5°
449.4	449.4	449.4	449.4	449.4	112.5°	136.0	135.0	134.0	132.0	129.0	127.5	126.8
500.9	495.7	489.9	489.9	484.8	115°	158.0	157.0	156.0	154.0	151.0	150.0	149.5
521.4	511.1	502.8	495.1	487.4	117.5°	180.0	179.5	179.0	177.0	174.0	173.0	172.5
511.1	498.9	488.6	475.1	462.9	120°	204.0	203.0	202.0	201.0	198.0	197.0	196.5
495.7	482.2	467.4	453.3	435.9	122.5°	228.0	227.5	227.0	226.0	223.0	222.0	221.5
487.4	471.3	453.3	438.5	418.6	125°	253.0	252.5	252.0	251.0	248.0	247.5	247.2
480.9	464.2	448.1	434.0	416.6	127.5°	278.0	277.0	276.0	274.0	272.0	271.0	270.5
491.2	475.1	463.6	447.5	434.0	130°	301.0	300.0	299.0	298.0	294.0	293.5	293.2
508.6	498.9	489.9	479.6	468.7	132.5°	325.0	323.5	322.0	321.0	318.0	317.5	317.2
541.4	540.1	539.4	531.7	524.0	135°	348.0	346.5	345.0	345.0	341.0	340.0	339.5
582.5	587.7	594.7	594.7	594.7	137.5°	369.0	368.0	367.0	367.0	364.0	363.5	363.2
625.0	637.8	651.3	657.1	661.0	140°	390.0	389.5	389.0	388.0	386.0	385.5	385.2
637.2	655.8	677.0	691.2	700.8	142.5°	412.0	411.0	410.0	410.0	407.0	407.5	407.8
657.1	678.3	702.1	718.2	735.5	145°	434.0	433.0	432.0	431.0	428.0	428.0	428.0
680.9	699.5	724.0	745.8	770.9	147.5°	454.0	453.5	453.0	452.0	448.0	447.5	447.2
700.8	725.3	751.6	779.9	812.1	150°	471.0	470.5	470.0	469.0	465.0	464.5	464.2
731.0	756.8	785.7	823.6	862.8	152.5°	487.0	486.5	486.0	485.0	482.0	482.5	482.8
764.5	792.1	822.3	860.3	905.9	155°	504.0	503.5	503.0	503.0	501.0	501.5	501.8
793.4	817.8	850.6	889.8	941.9	157.5°	519.0	519.0	519.0	519.0	516.0	516.5	516.8
821.1	843.6	882.1	922.0	973.4	160°	532.0	532.0	532.0	532.0	529.0	529.0	529.0
857.7	875.1	913.6	959.3	1013.9	162.5°	542.0	541.5	541.0	541.0	538.0	538.5	538.8
895.6	919.4	961.9	1013.9	1075.0	165°	553.0	552.5	552.0	552.0	548.0	548.5	548.8
947.1	975.4	1027.4	1086.6	1163.7	167.5°	560.0	560.0	560.0	561.0	558.0	558.5	558.8
1017.8	1047.4	1102.7	1168.9	1248.0	170°	565.0	565.5	566.0	567.0	565.0	565.5	565.8
1104.6	1133.5	1181.1	1246.7	1320.6	172.5°	569.0	568.5	568.0	569.0	567.0	568.0	568.5
1185.6	1225.5	1268.5	1317.4	1375.9	175°	573.0	572.5	572.0	572.0	569.0	569.5	569.8
1273.7	1304.6	1340.6	1359.2	1392.0	177.5°	577.0	577.0	577.0	578.0	574.0	574.5	574.8
1299.4	1325.1	1356.6	1356.6	1352.8	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
1223.5	1262.8	1290.4	1290.4	1257.6								
1064.1	1129.7	1156.7	1173.4	1131.6								
864.8	946.4	990.8	1004.9	929.1								
634.6	686.7	692.5	694.4	592.2								
365.8	407.0	421.8	443.0	354.9								
212.2	227.6	252.7	261.7	216.0								
118.9	120.2	120.2	111.2	90.7								
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								
1.0	1.0	1.0	1.0	1.0								
2.2	2.0	2.0	2.0	2.0								
11.0	10.0	9.5	9.0	8.5								
33.5	32.0	31.0	30.0	29.0								
57.2	56.0	55.5	55.0	54.5								
81.0	80.0	79.2	78.5	77.8								
103.8	103.0	102.8	102.5	102.2								

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CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°		355°	359°	360°
126.0	125.5	125.0	124.5	0°	449.4	449.4	449.4
149.0	148.5	148.0	147.5	2.5°	483.5	475.8	477.1
172.0	171.5	171.0	170.5	5°	476.4	465.5	461.6
196.0	195.8	195.5	195.2	7.5°	452.0	433.4	427.6
221.0	220.8	220.5	220.2	10°	422.4	398.6	394.1
247.0	246.8	246.5	246.2	12.5°	405.7	378.7	372.9
270.0	269.8	269.5	269.2	15°	400.6	374.8	368.4
293.0	292.8	292.5	292.2	17.5°	416.0	388.3	380.6
317.0	316.2	315.5	314.8	20°	451.4	418.6	409.6
339.0	338.5	338.0	337.5	22.5°	504.1	466.8	455.9
363.0	362.2	361.5	360.8	25°	575.4	533.0	522.1
385.0	384.5	384.0	383.5	27.5°	648.7	597.9	583.8
408.0	407.5	407.0	406.5	30°	691.2	644.2	630.1
428.0	427.5	427.0	426.5	32.5°	734.3	689.2	672.5
447.0	446.2	445.5	444.8	35°	779.9	734.3	717.5
464.0	463.5	463.0	462.5	37.5°	833.3	794.7	779.9
483.0	482.2	481.5	480.8	40°	896.9	861.6	840.3
502.0	501.5	501.0	500.5	42.5°	949.6	916.9	896.9
517.0	516.5	516.0	515.5	45°	988.2	960.6	940.0
529.0	528.5	528.0	527.5	47.5°	1023.6	1002.4	981.8
539.0	538.2	537.5	536.8	50°	1067.9	1049.9	1035.8
549.0	548.5	548.0	547.5	52.5°	1127.7	1121.3	1109.1
559.0	558.2	557.5	556.8	55°	1215.8	1230.0	1212.6
566.0	565.2	564.5	563.8	57.5°	1299.4	1309.7	1302.0
569.0	568.2	567.5	566.8	60°	1365.0	1350.8	1341.2
570.0	569.8	569.5	569.2	62.5°	1398.4	1363.7	1347.6
575.0	574.5	574.0	573.5	65°	1400.4	1347.0	1322.6
576.0	576.0	576.0	576.0	67.5°	1356.6	1294.3	1266.0
				70°	1239.0	1167.0	1129.7
				72.5°	1040.9	930.4	905.3
				75°	763.2	627.5	612.7
				77.5°	462.3	360.7	341.4
				80°	260.4	207.0	200.6
				82.5°	147.9	116.4	122.8
				85°	60.4	30.2	33.4
				87.5°	0.0	0.0	0.0
				90°	0.0	0.0	0.0
				92.5°	0.0	0.0	0.0
				95°	1.0	1.0	1.0
				97.5°	2.0	2.0	2.0
				100°	8.0	8.0	8.0
				102.5°	28.0	28.0	28.0
				105°	54.0	54.0	54.0
				107.5°	77.0	77.8	78.0
				110°	102.0	101.2	101.0

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CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	124.0	124.0	124.0
115°	147.0	146.2	146.0
117.5°	170.0	169.2	169.0
120°	195.0	193.4	193.0
122.5°	220.0	219.2	219.0
125°	246.0	244.4	244.0
127.5°	269.0	267.4	267.0
130°	292.0	290.4	290.0
132.5°	314.0	313.2	313.0
135°	337.0	336.2	336.0
137.5°	360.0	359.2	359.0
140°	383.0	382.2	382.0
142.5°	406.0	404.4	404.0
145°	426.0	425.2	425.0
147.5°	444.0	444.0	444.0
150°	462.0	461.2	461.0
152.5°	480.0	479.2	479.0
155°	500.0	499.2	499.0
157.5°	515.0	513.4	513.0
160°	527.0	525.4	525.0
162.5°	536.0	535.2	535.0
165°	547.0	546.2	546.0
167.5°	556.0	555.2	555.0
170°	563.0	562.2	562.0
172.5°	566.0	565.2	565.0
175°	569.0	567.4	567.0
177.5°	573.0	572.2	572.0
180°	576.0	576.0	576.0

(END OF REPORT)