

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: P271576

Luminaire Tested: **ISS-AF-450-LED-E1-SLR-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271576
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-450-LED-E1-SLR-7027-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) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3570.8 lumens
Efficiency: N/A
Efficacy: 85.0 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: B1 - U5 - G1

Input Watts (W): 42.01
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

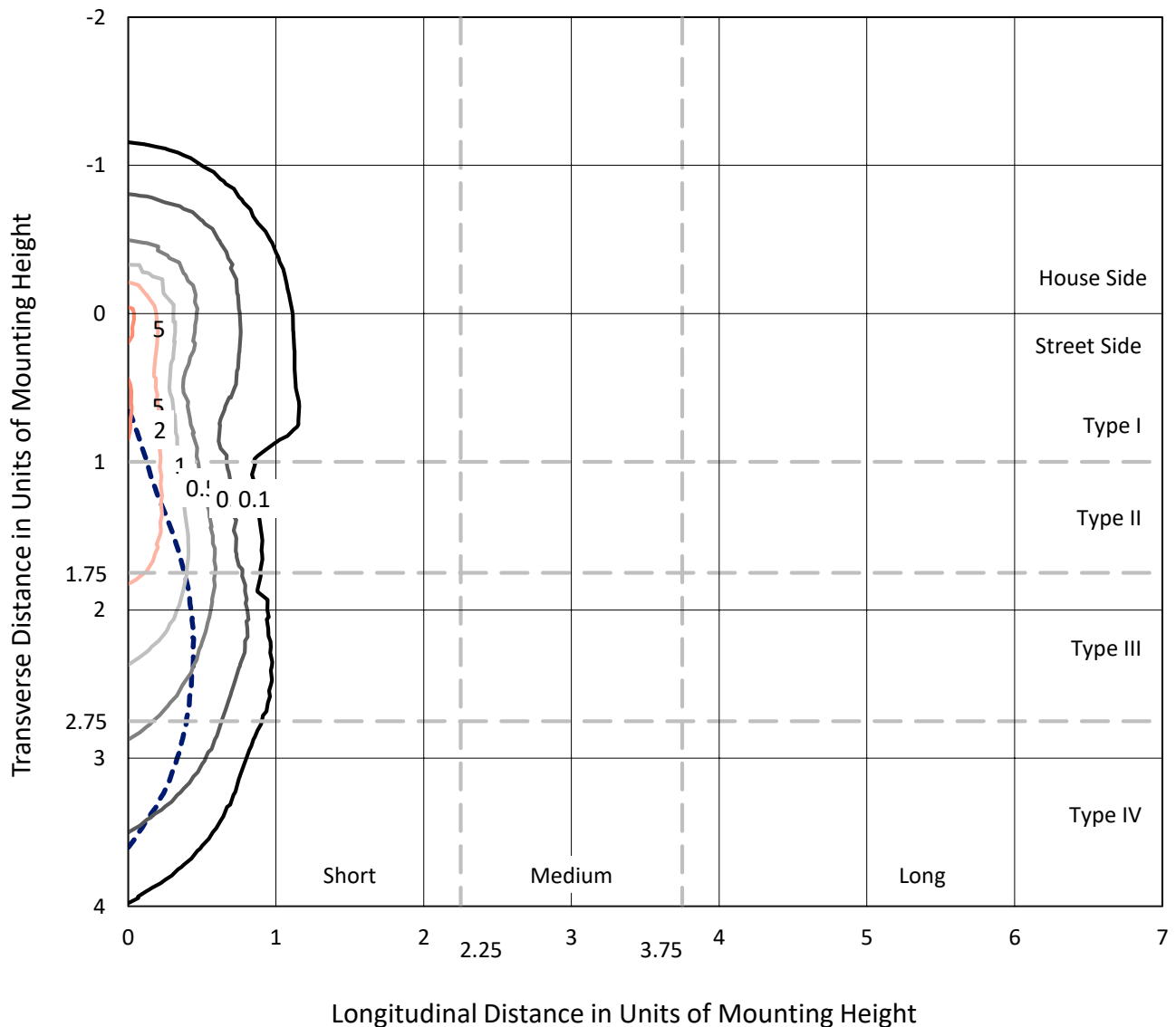


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

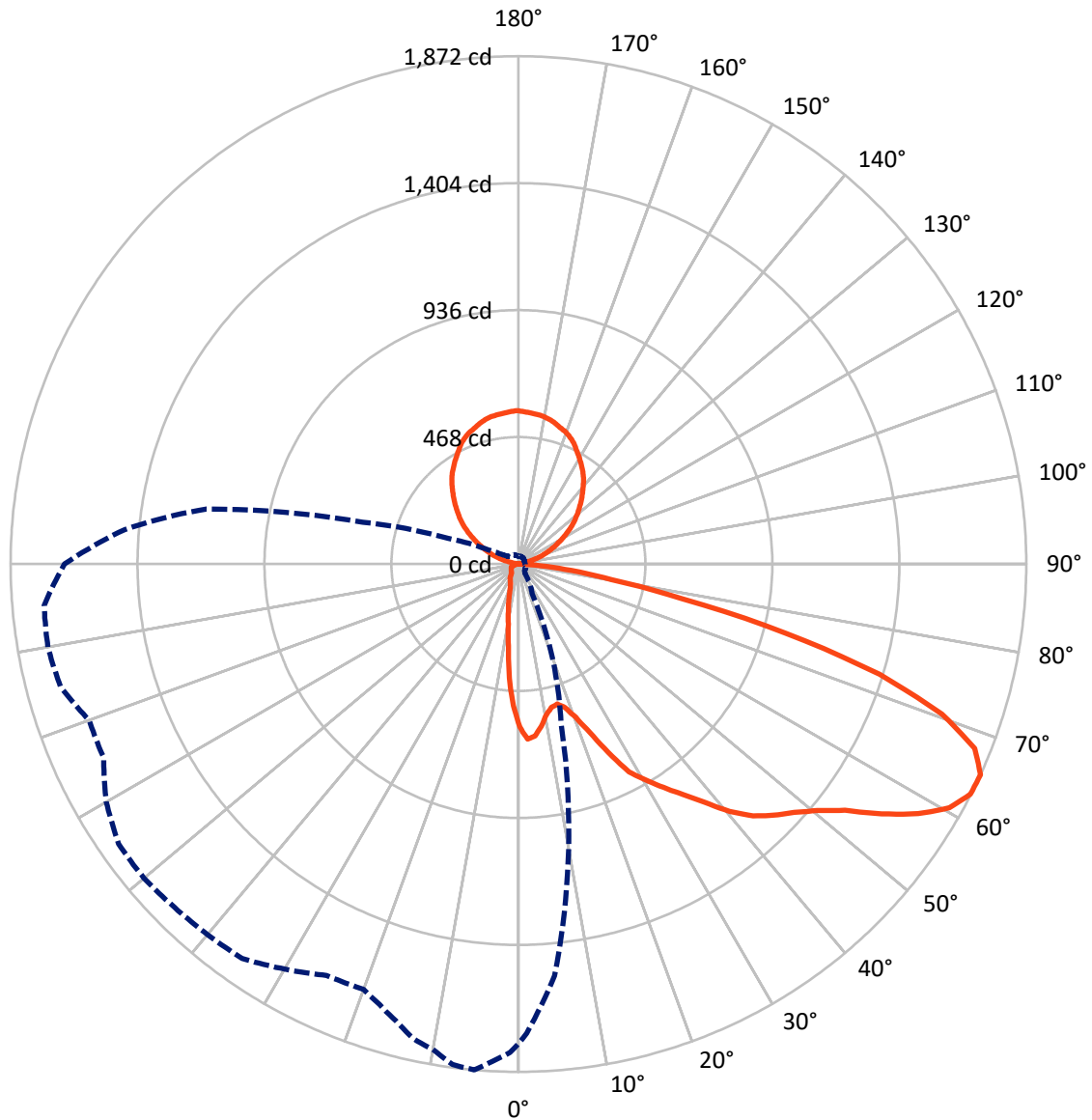


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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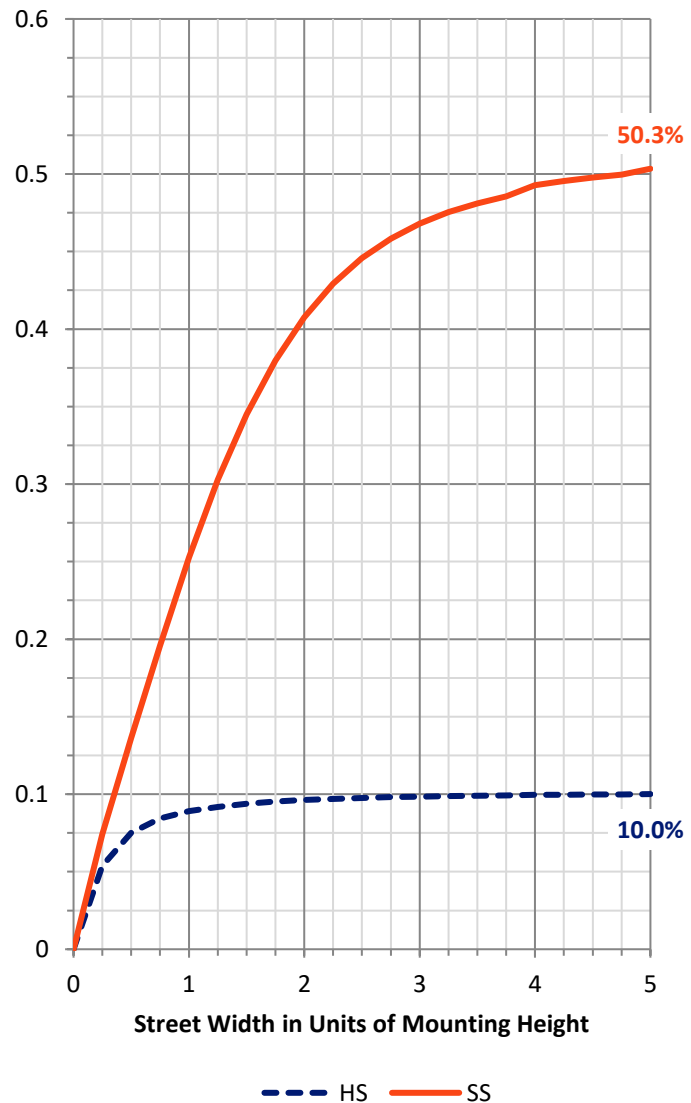
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	361.0	699.9	1060.9
	% Fixture	10.1	19.6	29.7
Street Side	Lumens	1810.0	699.9	2509.9
	% Fixture	50.7	19.6	70.3
Total	Lumens	2171.0	1399.8	3570.8
	% Fixture	60.8	39.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.3
10°-20°	95.1	2.7
20°-30°	138.2	3.9
30°-40°	204.4	5.7
40°-50°	297.8	8.3
50°-60°	446.4	12.5
60°-70°	556.3	15.6
70°-80°	325.9	9.1
80°-90°	60.9	1.7
90°-100°	4.7	0.1
100°-110°	67.7	1.9
110°-120°	150.2	4.2
120°-130°	219.7	6.2
130°-140°	260.7	7.3
140°-150°	264.3	7.4
150°-160°	226.8	6.4
160°-170°	152.2	4.3
170°-180°	53.3	1.5
0°-90°	2171.0	60.8
0°-180°	3570.8	100.0



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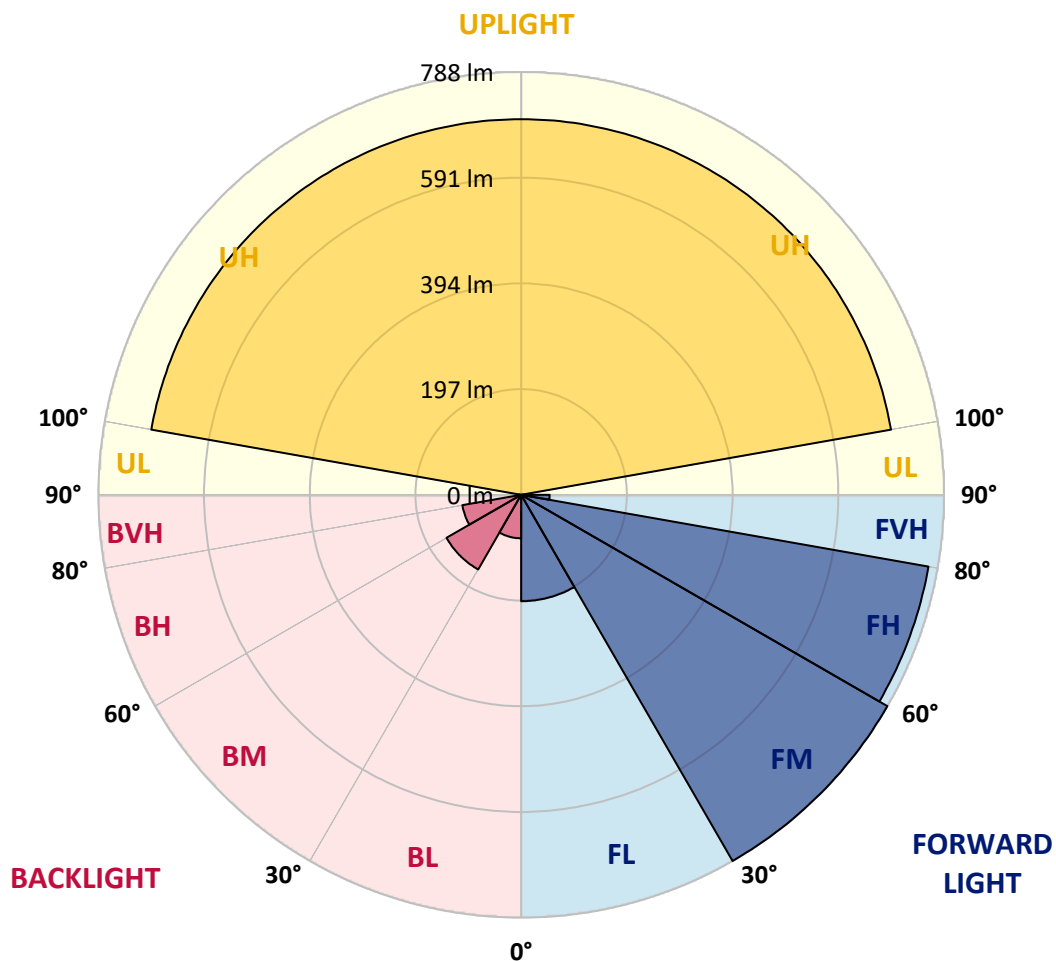
CATALOG NUMBER: ISS-AF-450-LED-E1-SLR-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.3	5.6			
FM	(30°-60°)	787.9	22.1			
FH	(60°-80°)	770.7	21.6			G1/1800
FVH	(80°-90°)	53.1	1.5			G1/100
BL	(0°-30°)	81.1	2.3	B0/110		
BM	(30°-60°)	160.7	4.5	B0/220		
BH	(60°-80°)	111.4	3.1	B1/500		G1/500
BVH	(80°-90°)	7.8	0.2			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	699.9	19.6		U4/1000	

BUG Rating: B1-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°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	637.8	632.7	622.3	601.7	580.1	559.6	556.1	548.3	549.2	544.9	543.3
5°	617.1	610.3	588.7	545.8	508.8	471.0	468.5	452.9	454.7	445.2	440.1
7.5°	571.6	562.1	538.1	478.8	427.1	377.4	372.2	354.1	351.6	342.1	334.3
10°	526.9	517.4	487.3	419.5	360.1	323.2	317.2	308.6	301.7	297.4	289.6
12.5°	498.5	493.3	457.2	379.1	332.6	302.5	294.8	286.2	279.4	271.6	263.9
15°	492.5	482.2	445.2	366.1	312.0	275.0	265.6	256.2	248.4	240.7	229.4
17.5°	508.8	498.5	457.2	360.1	288.9	244.1	232.1	219.2	211.4	202.0	189.9
20°	547.6	531.2	480.4	351.6	263.9	208.0	193.3	178.0	169.3	153.0	144.4
22.5°	609.4	588.7	520.0	351.6	240.7	170.2	153.9	140.0	130.6	116.0	106.6
25°	697.9	679.8	584.4	361.0	220.1	138.4	122.1	108.2	98.8	88.6	82.6
27.5°	780.4	752.2	653.2	374.8	203.7	116.0	99.7	88.6	81.7	76.4	73.0
30°	842.3	819.2	713.4	384.3	179.6	97.2	86.9	79.9	76.4	73.9	72.2
32.5°	899.0	872.4	756.5	390.2	165.0	82.6	73.0	67.9	64.5	61.1	60.2
35°	959.2	933.5	807.0	389.3	155.6	75.6	66.1	60.2	56.8	55.9	54.2
37.5°	1042.7	1007.4	865.6	389.3	152.2	73.0	61.9	55.9	53.3	51.6	50.8
40°	1123.4	1083.9	930.0	391.9	148.7	71.3	61.9	55.9	51.6	49.9	48.1
42.5°	1199.1	1155.2	988.5	396.2	147.1	66.1	58.5	55.0	53.3	49.9	47.3
45°	1256.5	1222.2	1033.9	404.9	147.1	62.7	55.0	52.4	51.6	51.6	50.8
47.5°	1312.5	1273.9	1086.4	421.1	149.6	60.2	52.4	49.0	49.0	49.0	49.9
50°	1384.6	1339.1	1158.6	454.7	149.6	59.3	49.9	46.4	45.5	47.3	47.3
52.5°	1482.7	1450.0	1264.4	502.8	147.8	58.5	49.0	43.8	43.0	43.8	45.5
55°	1621.1	1584.1	1392.5	562.1	146.2	56.8	47.3	43.0	41.2	40.4	41.2
57.5°	1740.6	1708.8	1510.2	609.4	141.8	52.4	45.5	42.1	39.5	38.6	37.8
60°	1792.9	1766.3	1585.9	641.2	134.0	48.1	43.0	40.4	37.8	37.0	36.1
62.5°	1801.6	1768.0	1586.7	648.0	125.5	43.8	40.4	37.8	36.1	35.2	34.3
65°	1768.0	1730.2	1524.0	606.0	118.7	43.8	38.6	36.1	33.6	32.7	31.8
67.5°	1692.4	1633.9	1365.0	514.0	112.6	44.6	37.8	33.6	31.8	30.9	30.1
70°	1510.2	1444.8	1152.6	408.3	110.0	45.5	37.8	31.8	29.3	28.4	28.4
72.5°	1210.3	1135.5	899.0	307.7	105.7	46.4	37.0	30.1	27.5	25.8	25.8
75°	819.2	753.8	609.4	208.0	87.7	40.4	33.6	27.5	24.1	22.4	21.5
77.5°	456.4	434.9	387.7	110.0	55.9	30.1	25.8	22.4	19.8	19.0	18.1
80°	268.1	256.9	228.6	61.1	34.3	17.2	15.5	14.6	12.8	12.8	12.8
82.5°	164.2	153.0	141.8	27.5	16.3	8.6	8.6	6.8	6.8	6.0	6.0
85°	44.6	41.2	57.6	6.0	1.8	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	5.1	6.4	7.6	8.8	9.8
100°	7.8	7.8	7.8	9.8	13.7	21.6	23.5	25.5	27.5	29.5	29.9
102.5°	27.5	27.5	27.5	31.4	37.3	44.2	45.4	46.6	47.9	49.0	49.2
105°	53.0	53.0	53.0	55.0	59.8	64.8	65.8	66.7	67.7	68.7	68.9
107.5°	76.5	76.4	75.5	78.5	82.5	86.3	87.1	87.9	88.6	89.3	89.8
110°	99.2	99.4	100.1	101.1	104.0	108.0	108.4	109.0	109.4	110.0	110.4



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CATALOG NUMBER: ISS-AF-450-LED-E1-SLR-7027-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
112.5°	121.7	121.7	121.7	123.7	126.6	129.5	130.1	130.5	131.1	131.5	132.1
115°	143.3	143.5	144.3	146.2	148.2	151.2	151.6	152.2	152.6	153.1	153.6
117.5°	165.8	166.1	166.8	168.8	170.8	173.7	174.2	174.7	175.2	175.7	175.9
120°	189.5	189.8	191.4	192.3	194.3	197.3	197.4	197.8	198.1	198.3	198.7
122.5°	215.0	215.1	216.0	216.9	218.8	221.8	222.0	222.3	222.6	222.8	223.0
125°	239.5	239.8	241.5	242.5	243.4	246.3	246.6	246.9	247.1	247.3	247.6
127.5°	262.0	262.5	264.0	265.0	267.0	269.0	269.4	269.9	270.4	270.9	271.4
130°	284.7	285.0	286.6	287.5	288.5	292.5	292.7	292.9	293.3	293.5	293.9
132.5°	307.2	307.4	308.2	311.2	312.1	315.0	315.2	315.6	315.8	316.0	316.8
135°	329.8	329.9	330.8	332.7	334.7	338.6	338.6	338.6	338.6	338.6	339.4
137.5°	352.3	352.6	353.3	356.3	357.3	360.2	360.2	360.2	360.2	360.2	360.7
140°	375.0	375.1	375.9	377.8	378.8	380.8	381.0	381.3	381.6	381.8	382.0
142.5°	396.5	396.9	398.5	400.5	399.5	402.4	402.4	402.4	402.4	402.4	402.9
145°	417.2	417.4	418.1	420.0	420.0	423.0	423.2	423.6	423.8	424.0	424.4
147.5°	435.8	435.8	435.8	438.7	439.7	443.7	443.9	444.1	444.4	444.6	444.8
150°	452.5	452.7	453.5	455.4	456.4	460.3	460.5	460.8	461.1	461.3	461.5
152.5°	470.2	470.4	471.1	474.0	473.0	476.0	476.2	476.6	476.8	477.0	477.2
155°	489.8	489.9	490.7	492.7	491.7	493.7	493.7	493.7	493.7	493.7	493.9
157.5°	503.5	503.9	505.5	507.5	506.5	509.4	509.4	509.4	509.4	509.4	509.4
160°	515.3	515.6	517.2	519.2	519.2	522.2	522.2	522.2	522.2	522.2	522.2
162.5°	525.1	525.3	526.0	529.0	528.0	531.0	531.0	531.0	531.0	531.0	531.2
165°	535.9	536.1	536.8	538.8	537.8	541.8	541.8	541.8	541.8	541.8	541.9
167.5°	544.7	544.9	545.7	548.7	547.7	550.6	550.4	550.1	549.9	549.7	549.7
170°	551.6	551.8	552.5	555.5	554.5	556.5	556.3	556.1	555.7	555.5	555.3
172.5°	554.5	554.7	555.5	558.5	556.5	558.5	558.3	557.9	557.7	557.5	557.7
175°	556.5	556.9	558.5	559.5	558.5	561.4	561.4	561.4	561.4	561.4	561.6
177.5°	561.4	561.6	562.4	564.3	563.3	567.3	567.1	566.8	566.5	566.3	566.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	536.4	534.6	534.6	521.7	521.7	514.9	513.1	513.1	515.6	514.0	503.7
5°	431.5	426.3	422.9	407.4	403.1	395.3	391.9	391.1	393.6	389.3	375.6
7.5°	324.8	320.7	315.5	303.4	298.2	297.4	287.1	284.5	282.8	279.4	270.7
10°	283.7	277.7	273.4	264.7	258.7	254.4	245.9	241.6	238.1	232.9	230.3
12.5°	255.3	249.3	243.2	232.1	224.4	219.2	214.1	205.4	202.0	196.0	192.6
15°	220.1	213.2	206.3	194.2	184.0	178.9	168.4	163.3	159.9	153.0	149.6
17.5°	177.1	167.6	159.9	148.7	143.5	134.9	129.0	120.4	113.5	110.9	108.2
20°	133.2	124.7	117.8	108.2	103.1	96.3	92.9	86.9	83.4	81.7	79.9
22.5°	97.9	91.1	86.9	81.7	79.1	76.4	74.8	73.0	71.3	70.4	70.4
25°	77.3	74.8	73.0	71.3	70.4	69.6	67.9	67.0	66.1	65.4	65.4
27.5°	70.4	68.8	67.9	67.0	66.1	64.5	64.5	62.7	61.9	61.9	61.1
30°	71.3	71.3	71.3	69.6	68.8	67.0	66.1	63.6	61.9	60.2	59.3
32.5°	58.5	58.5	57.6	55.9	55.0	54.2	54.2	52.4	51.6	51.6	53.3
35°	53.3	52.4	51.6	49.9	49.0	47.3	46.4	45.5	44.6	43.8	43.8
37.5°	50.8	49.9	49.0	47.3	46.4	45.5	44.6	43.0	42.1	42.1	41.2
40°	48.1	48.1	48.1	46.4	45.5	43.8	43.0	42.1	41.2	40.4	40.4
42.5°	46.4	46.4	46.4	45.5	44.6	43.8	42.1	41.2	40.4	39.5	38.6
45°	47.3	46.4	46.4	45.5	44.6	43.0	42.1	40.4	39.5	38.6	37.8
47.5°	50.8	49.9	48.1	46.4	44.6	43.0	41.2	39.5	38.6	37.8	37.0
50°	48.1	51.6	52.4	49.9	45.5	43.0	41.2	39.5	37.8	37.0	36.1
52.5°	47.3	48.1	51.6	51.6	47.3	43.8	41.2	39.5	37.8	36.1	35.2
55°	43.0	45.5	46.4	47.3	46.4	43.0	40.4	37.8	37.0	35.2	33.6
57.5°	37.8	39.5	40.4	42.1	43.0	42.1	38.6	36.1	35.2	33.6	31.8
60°	35.2	35.2	35.2	36.1	40.4	43.8	40.4	35.2	32.7	31.8	30.1
62.5°	32.7	32.7	31.8	32.7	33.6	37.8	37.0	33.6	31.8	30.9	29.3
65°	31.8	30.9	30.1	30.1	30.1	30.1	30.1	30.1	29.3	29.3	28.4
67.5°	29.3	28.4	28.4	27.5	27.5	27.5	27.5	27.5	26.6	26.6	25.8
70°	27.5	26.6	25.8	25.8	25.8	25.0	25.0	25.0	24.1	24.1	24.1
72.5°	25.0	24.1	24.1	24.1	23.2	23.2	23.2	22.4	22.4	21.5	21.5
75°	21.5	21.5	20.6	20.6	20.6	19.8	19.8	19.8	19.8	19.0	19.0
77.5°	18.1	17.2	18.1	17.2	17.2	17.2	17.2	17.2	16.3	16.3	15.5
80°	12.0	12.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.0
82.5°	6.8	6.0	6.8	6.8	6.8	7.7	7.7	8.6	7.7	7.7	6.8
85°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.8	1.8	1.8	1.8
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°	10.8	11.8	12.8	11.3	9.8	8.4	6.8	6.4	5.9	5.4	4.9
100°	30.5	30.9	31.4	30.9	30.5	29.9	29.5	28.7	27.9	27.3	26.5
102.5°	49.6	49.9	50.0	49.9	49.6	49.2	49.0	48.6	48.1	47.6	47.1
105°	69.2	69.5	69.7	69.7	69.7	69.7	69.7	69.2	68.7	68.2	67.7
107.5°	90.3	90.8	91.3	91.1	90.8	90.5	90.3	90.1	89.8	89.5	89.3
110°	110.9	111.4	111.9	111.9	111.9	111.9	111.9	111.7	111.4	111.1	110.9



REPORT NUMBER: P271576

CATALOG NUMBER: ISS-AF-450-LED-E1-SLR-7027-ULG

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	132.5	132.9	133.5	133.5	133.5	133.5	133.5	133.3	132.9	132.7	132.5
115°	154.1	154.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
117.5°	176.2	176.4	176.7	176.9	177.1	177.4	177.7	177.4	177.1	176.9	176.7
120°	199.2	199.7	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
122.5°	223.3	223.6	223.8	223.8	223.8	223.8	223.8	223.9	224.3	224.6	224.8
125°	247.8	248.1	248.3	248.5	248.8	249.1	249.3	249.3	249.3	249.3	249.3
127.5°	271.8	272.4	272.8	272.6	272.4	272.1	271.8	272.1	272.4	272.6	272.8
130°	294.5	294.9	295.5	295.5	295.5	295.5	295.5	295.6	295.9	296.2	296.4
132.5°	317.6	318.2	319.0	319.0	319.0	319.0	319.0	319.2	319.4	319.8	320.0
135°	340.1	340.7	341.5	341.5	341.5	341.5	341.5	341.7	342.1	342.3	342.5
137.5°	361.2	361.7	362.2	362.2	362.2	362.2	362.2	362.4	362.6	362.9	363.2
140°	382.3	382.6	382.8	382.8	382.8	382.8	382.8	383.3	383.8	384.3	384.7
142.5°	403.4	403.9	404.3	404.3	404.3	404.3	404.3	404.6	404.9	405.1	405.3
145°	425.0	425.4	426.0	425.8	425.4	425.2	425.0	425.2	425.4	425.8	426.0
147.5°	445.1	445.4	445.6	445.1	444.6	444.1	443.7	443.9	444.1	444.4	444.6
150°	461.8	462.1	462.3	461.8	461.3	460.8	460.3	460.3	460.3	460.3	460.3
152.5°	477.4	477.8	478.0	477.8	477.4	477.2	477.0	477.0	477.0	477.0	477.0
155°	494.2	494.4	494.7	494.4	494.2	493.9	493.7	493.9	494.2	494.4	494.7
157.5°	509.4	509.4	509.4	508.9	508.4	507.9	507.5	507.6	507.9	508.2	508.4
160°	522.2	522.2	522.2	521.6	521.2	520.7	520.2	520.2	520.2	520.2	520.2
162.5°	531.4	531.8	532.0	531.4	531.0	530.4	530.0	529.6	529.0	528.6	528.0
165°	542.3	542.6	542.8	541.9	541.3	540.6	539.8	539.3	538.8	538.4	537.8
167.5°	549.7	549.7	549.7	549.1	548.7	548.1	547.7	547.9	548.1	548.4	548.7
170°	555.1	554.7	554.5	554.3	554.1	553.7	553.5	554.1	554.5	555.1	555.5
172.5°	557.9	558.3	558.5	557.9	557.5	556.9	556.5	556.7	556.9	557.3	557.5
175°	561.9	562.2	562.4	561.6	560.9	560.3	559.5	558.9	558.5	557.9	557.5
177.5°	566.3	566.3	566.3	565.6	564.9	564.1	563.3	563.3	563.3	563.3	563.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	508.8	508.0	499.4	501.2	498.5	493.3	494.2	495.1	496.9	493.3	491.6
5°	382.5	383.4	372.2	375.6	373.1	372.2	374.8	379.1	381.6	380.8	378.2
7.5°	271.6	272.5	263.0	262.1	259.6	258.7	262.1	266.4	269.0	268.1	269.0
10°	224.4	221.7	213.2	207.1	201.1	196.0	195.1	195.1	195.1	193.3	191.7
12.5°	185.7	183.1	172.7	167.6	162.4	155.6	154.7	153.9	151.3	148.7	145.3
15°	144.4	141.8	133.2	129.7	125.5	122.9	122.1	122.1	120.4	118.7	116.9
17.5°	104.8	103.1	97.9	94.5	93.7	94.5	95.4	97.2	97.9	98.8	98.8
20°	79.1	78.2	76.4	76.4	77.3	79.9	80.8	83.4	84.2	86.0	87.7
22.5°	69.6	69.6	68.8	68.8	70.4	73.0	74.8	75.6	76.4	77.3	77.3
25°	64.5	64.5	63.6	65.4	67.9	67.9	67.9	67.9	66.1	65.4	65.4
27.5°	61.1	61.1	61.1	61.9	61.1	60.2	60.2	60.2	59.3	59.3	58.5
30°	58.5	58.5	58.5	57.6	57.6	56.8	56.8	55.9	55.9	55.0	55.0
32.5°	54.2	52.4	54.2	52.4	52.4	51.6	52.4	52.4	50.8	50.8	50.8
35°	43.0	42.1	42.1	42.1	41.2	42.1	43.8	43.8	43.8	43.8	43.8
37.5°	40.4	40.4	39.5	38.6	38.6	37.8	38.6	37.8	37.8	37.8	38.6
40°	39.5	38.6	37.8	37.8	37.0	36.1	36.1	36.1	36.1	36.1	36.1
42.5°	37.8	37.8	36.1	35.2	35.2	34.3	34.3	34.3	34.3	34.3	34.3
45°	37.0	36.1	35.2	34.3	33.6	33.6	33.6	33.6	33.6	33.6	32.7
47.5°	36.1	35.2	34.3	33.6	32.7	31.8	31.8	31.8	31.8	31.8	31.8
50°	35.2	34.3	32.7	32.7	31.8	30.9	30.9	30.9	30.9	30.9	30.9
52.5°	33.6	33.6	31.8	30.9	30.1	30.1	30.1	30.1	30.1	30.1	30.1
55°	31.8	31.8	30.1	29.3	28.4	28.4	28.4	28.4	29.3	29.3	29.3
57.5°	30.9	30.1	28.4	28.4	26.6	26.6	26.6	27.5	27.5	28.4	28.4
60°	29.3	28.4	27.5	26.6	26.6	25.8	25.8	25.8	25.8	26.6	26.6
62.5°	28.4	27.5	25.8	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
65°	26.6	26.6	25.0	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
67.5°	25.0	25.0	23.2	22.4	22.4	22.4	23.2	22.4	22.4	22.4	22.4
70°	23.2	22.4	21.5	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
72.5°	20.6	20.6	19.8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.8
75°	18.1	17.2	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
77.5°	15.5	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	14.6
80°	11.2	10.3	10.3	10.3	10.3	11.2	11.2	11.2	11.2	11.2	11.2
82.5°	6.8	6.0	6.0	6.0	6.8	7.7	7.7	7.7	7.7	8.6	8.6
85°	1.8	1.8	1.8	1.8	3.4	4.3	4.3	4.3	5.2	4.3	4.3
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°	4.7	4.4	4.0	4.0	4.0	4.4	4.7	4.9	5.4	5.9	6.4
100°	26.3	26.1	25.5	24.5	25.5	26.1	26.3	26.5	27.3	27.9	28.7
102.5°	47.3	47.6	48.1	47.1	48.1	47.6	47.3	47.1	47.6	48.1	48.6
105°	68.2	68.7	69.7	67.7	69.7	68.7	68.2	67.7	68.2	68.7	69.2
107.5°	89.5	89.8	90.3	89.3	90.3	89.8	89.5	89.3	89.5	89.8	90.1
110°	111.1	111.4	111.9	110.9	111.9	111.4	111.1	110.9	111.1	111.4	111.7



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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°	132.9	133.5	134.5	132.5	134.5	133.5	132.9	132.5	132.7	132.9	133.3	0°
115°	155.6	156.0	157.0	156.0	157.0	156.0	155.6	155.0	155.0	155.0	155.0	2.5°
117.5°	177.1	177.7	178.7	176.7	178.7	177.7	177.1	176.7	176.9	177.1	177.4	5°
120°	200.7	201.2	202.2	200.2	202.2	201.2	200.7	200.2	200.2	200.2	200.2	7.5°
122.5°	225.7	226.7	228.7	227.7	228.7	226.7	225.7	224.8	224.6	224.3	223.9	10°
125°	250.1	250.8	252.2	251.3	252.2	250.8	250.1	249.3	249.3	249.3	249.3	12.5°
127.5°	273.6	274.3	275.8	272.8	275.8	274.3	273.6	272.8	272.6	272.4	272.1	15°
130°	297.2	297.9	299.3	297.4	299.3	297.9	297.2	296.4	296.2	295.9	295.6	17.5°
132.5°	320.8	321.4	322.9	321.0	322.9	321.4	320.8	320.0	319.8	319.4	319.2	20°
135°	343.1	343.5	344.5	343.5	344.5	343.5	343.1	342.5	342.3	342.1	341.7	22.5°
137.5°	364.2	365.1	367.0	365.1	367.0	365.1	364.2	363.2	362.9	362.6	362.4	25°
140°	385.7	386.7	388.7	386.7	388.7	386.7	385.7	384.7	384.3	383.8	383.3	27.5°
142.5°	406.1	406.8	408.3	407.3	408.3	406.8	406.1	405.3	405.1	404.9	404.6	30°
145°	426.8	427.4	428.9	427.0	428.9	427.4	426.8	426.0	425.8	425.4	425.2	32.5°
147.5°	445.4	446.1	447.5	444.6	447.5	446.1	445.4	444.6	444.4	444.1	443.9	35°
150°	461.3	462.3	464.2	461.3	464.2	462.3	461.3	460.3	460.3	460.3	460.3	37.5°
152.5°	477.8	478.4	480.0	477.0	480.0	478.4	477.8	477.0	477.0	477.0	477.0	40°
155°	495.4	496.1	497.6	495.7	497.6	496.1	495.4	494.7	494.4	494.2	493.9	42.5°
157.5°	509.6	510.9	513.3	510.3	513.3	510.9	509.6	508.4	508.2	507.9	507.6	45°
160°	520.9	521.6	523.2	521.2	523.2	521.6	520.9	520.2	520.2	520.2	520.2	47.5°
162.5°	528.6	529.0	530.0	527.0	530.0	529.0	528.6	528.0	528.6	529.0	529.6	50°
165°	538.4	538.8	539.8	537.8	539.8	538.8	538.4	537.8	538.4	538.8	539.3	52.5°
167.5°	549.7	550.6	552.5	550.6	552.5	550.6	549.7	548.7	548.4	548.1	547.9	55°
170°	556.7	557.9	560.5	558.5	560.5	557.9	556.7	555.5	555.1	554.5	554.1	57.5°
172.5°	558.3	558.9	560.5	557.5	560.5	558.9	558.3	557.5	557.3	556.9	556.7	60°
175°	558.3	558.9	560.5	557.5	560.5	558.9	558.3	557.5	557.9	558.5	558.9	62.5°
177.5°	564.1	564.9	566.3	563.3	566.3	564.9	564.1	563.3	563.3	563.3	563.3	65°
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	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°
600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	112.5°	133.5
489.9	500.3	500.3	493.3	496.9	493.3	492.5	498.5	502.0	513.1	520.0	115°	155.0
379.1	391.9	392.8	389.3	393.6	391.1	393.6	401.5	407.4	415.2	422.0	117.5°	177.7
270.7	282.8	285.3	282.8	290.5	289.6	291.4	299.9	305.2	309.5	310.3	120°	200.2
190.8	192.6	199.4	197.6	202.8	202.0	204.5	211.4	218.3	220.9	222.6	122.5°	223.8
143.5	141.8	144.4	140.9	143.5	143.5	144.4	148.7	157.3	160.8	169.3	125°	249.3
116.0	114.4	114.4	112.6	112.6	111.7	112.6	116.0	122.1	127.2	134.0	127.5°	271.8
98.8	98.8	98.8	97.9	97.2	97.2	97.9	99.7	103.1	106.6	110.0	130°	295.5
88.6	90.3	91.1	92.0	92.9	93.7	94.5	97.2	96.3	92.9	88.6	132.5°	319.0
77.3	77.3	78.2	78.2	77.3	77.3	77.3	77.3	77.3	79.9	82.6	135°	341.5
64.5	64.5	64.5	65.4	64.5	64.5	65.4	65.4	66.1	67.9	70.4	137.5°	362.2
58.5	58.5	58.5	58.5	58.5	58.5	58.5	59.3	60.2	62.7	64.5	140°	382.8
54.2	54.2	53.3	53.3	53.3	52.4	53.3	53.3	54.2	57.6	60.2	142.5°	404.3
49.9	49.0	49.0	49.0	48.1	48.1	48.1	49.9	50.8	52.4	55.0	145°	425.0
43.8	43.8	43.8	44.6	44.6	44.6	44.6	46.4	46.4	47.3	47.3	147.5°	443.7
39.5	39.5	40.4	41.2	41.2	42.1	42.1	43.0	43.8	43.0	42.1	150°	460.3
36.1	37.0	37.0	38.6	38.6	38.6	39.5	40.4	41.2	39.5	39.5	152.5°	477.0
34.3	34.3	34.3	35.2	35.2	35.2	36.1	37.0	37.8	37.8	37.8	155°	493.7
32.7	32.7	32.7	33.6	32.7	32.7	32.7	33.6	35.2	35.2	36.1	157.5°	507.5
31.8	31.8	31.8	30.9	30.9	30.9	30.9	31.8	32.7	34.3	35.2	160°	520.2
30.9	30.1	30.1	30.1	30.1	30.1	30.1	30.9	31.8	32.7	34.3	162.5°	530.0
29.3	29.3	29.3	29.3	29.3	29.3	29.3	30.1	30.9	31.8	32.7	165°	539.8
29.3	29.3	28.4	28.4	29.3	29.3	29.3	30.1	30.9	31.8	31.8	167.5°	547.7
28.4	27.5	27.5	28.4	28.4	28.4	28.4	29.3	30.1	30.9	30.9	170°	553.5
26.6	26.6	26.6	26.6	27.5	27.5	28.4	29.3	29.3	30.1	30.1	172.5°	556.5
25.0	25.8	25.8	25.8	26.6	26.6	27.5	28.4	29.3	30.1	29.3	175°	559.5
24.1	25.0	25.0	25.0	25.8	25.8	25.8	27.5	28.4	28.4	29.3	177.5°	563.3
23.2	23.2	23.2	24.1	24.1	25.0	25.0	26.6	26.6	27.5	28.4	180°	565.3
21.5	21.5	21.5	22.4	22.4	23.2	24.1	25.0	25.0	25.8	26.6		
19.8	19.8	19.8	20.6	20.6	21.5	22.4	24.1	23.2	24.1	24.1		
17.2	17.2	18.1	18.1	19.0	19.8	20.6	20.6	20.6	20.6	20.6		
14.6	14.6	15.5	15.5	16.3	17.2	17.2	17.2	18.1	17.2	17.2		
12.0	12.0	12.8	12.8	12.8	12.8	13.7	12.8	13.7	12.8	13.7		
8.6	8.6	9.4	8.6	9.4	8.6	8.6	7.7	9.4	8.6	8.6		
3.4	4.3	4.3	4.3	4.3	3.4	3.4	2.5	3.4	3.4	2.5		
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		
6.8	8.4	9.8	11.3	12.8	11.8	10.8	8.8	4.0	3.0	2.0		
29.5	29.9	30.5	30.9	31.4	30.9	30.5	29.5	21.6	13.7	9.8		
49.0	49.2	49.6	49.9	50.0	49.9	49.6	49.0	44.2	37.3	31.4		
69.7	69.7	69.7	69.7	69.7	69.5	69.2	68.7	64.8	59.8	55.0		
90.3	90.5	90.8	91.1	91.3	90.8	90.3	89.3	86.3	82.5	78.5		
111.9	111.9	111.9	111.9	111.9	111.4	110.9	110.0	108.0	104.0	101.1		

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TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	126.6	123.7	0°	600.8	600.8
155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	148.2	146.2	2.5°	522.6	521.7
177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	170.8	168.8	5°	422.9	421.1
200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	194.3	192.3	7.5°	302.5	299.1
223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	218.8	216.9	10°	223.5	226.0
249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	243.4	242.5	12.5°	178.9	189.1
272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	267.0	265.0	15°	143.5	149.6
295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	288.5	287.5	17.5°	110.9	113.5
319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	312.1	311.2	20°	88.6	88.6
341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	334.7	332.7	22.5°	77.3	76.4
362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	357.3	356.3	25°	73.0	72.2
382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	378.8	377.8	27.5°	66.1	67.0
404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	399.5	400.5	30°	61.9	62.7
425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	420.0	420.0	32.5°	56.8	57.6
444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	439.7	438.7	35°	46.4	46.4
460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	456.4	455.4	37.5°	43.0	43.0
477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	473.0	474.0	40°	40.4	41.2
493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	491.7	492.7	42.5°	38.6	38.6
507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	506.5	507.5	45°	37.0	37.8
520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	519.2	519.2	47.5°	36.1	36.1
530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	528.0	529.0	50°	34.3	35.2
540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	537.8	538.8	52.5°	33.6	34.3
548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	547.7	548.7	55°	32.7	32.7
553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	554.5	555.5	57.5°	30.9	31.8
556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	556.5	558.5	60°	30.9	30.9
560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	558.5	559.5	62.5°	30.1	30.1
564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	563.3	564.3	65°	29.3	29.3
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	67.5°	27.5	27.5
										70°	25.8	25.8
										72.5°	24.1	23.2
										75°	20.6	20.6
										77.5°	17.2	17.2
										80°	12.8	12.0
										82.5°	7.7	6.8
										85°	2.5	2.5
										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°	7.8	7.8
										102.5°	27.5	27.5
										105°	53.0	53.0
										107.5°	75.5	76.5
										110°	100.1	99.2

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tinued):

CANDELA DISTRIBUTION (continued):

185°	195°	205°	215°	225°	230°	235°	240°	245°		175°	180°	185°
600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	112.5°	121.7	121.7	121.7
534.6	544.0	550.1	573.3	583.6	596.6	602.5	611.2	619.7	115°	144.3	143.3	144.3
436.7	448.6	458.9	492.5	512.2	530.3	544.9	558.7	578.5	117.5°	166.8	165.8	166.8
309.5	319.8	333.5	369.7	404.0	428.0	449.5	472.8	498.5	120°	191.4	189.5	191.4
236.3	251.9	269.9	297.4	324.8	342.1	361.0	386.8	417.7	122.5°	216.0	215.0	216.0
197.6	216.6	238.1	269.0	298.2	312.0	325.7	338.6	355.0	125°	241.5	239.5	241.5
156.5	174.5	200.2	236.3	270.7	286.2	302.5	318.0	332.6	127.5°	264.0	262.0	264.0
116.9	129.7	153.0	196.0	233.8	253.5	272.5	293.9	313.7	130°	286.6	284.7	286.6
89.4	95.4	111.7	145.3	191.7	216.6	240.7	268.1	296.5	132.5°	308.2	307.2	308.2
77.3	79.9	87.7	107.4	149.6	178.9	209.8	244.1	279.4	135°	330.8	329.8	330.8
71.3	73.0	77.3	86.9	116.9	147.8	179.6	220.9	263.9	137.5°	353.3	352.3	353.3
67.9	69.6	73.0	78.2	97.2	120.4	155.6	201.1	252.7	140°	375.9	375.0	375.9
63.6	65.4	71.3	77.3	88.6	103.1	133.2	178.0	235.5	142.5°	398.5	396.5	398.5
58.5	59.3	61.1	67.9	75.6	87.7	113.5	157.3	217.5	145°	418.1	417.2	418.1
47.3	49.9	53.3	60.2	67.9	77.3	101.4	143.5	206.3	147.5°	435.8	435.8	435.8
43.8	46.4	49.9	55.9	62.7	71.3	96.3	138.4	196.0	150°	453.5	452.5	453.5
41.2	43.8	47.3	54.2	58.5	68.8	93.7	130.6	185.7	152.5°	471.1	470.2	471.1
39.5	42.1	46.4	51.6	57.6	67.0	86.9	123.8	179.6	155°	490.7	489.8	490.7
37.8	40.4	45.5	49.9	58.5	63.6	82.6	118.7	174.5	157.5°	505.5	503.5	505.5
37.0	39.5	44.6	50.8	56.8	60.2	78.2	114.4	170.2	160°	517.2	515.3	517.2
36.1	38.6	43.8	55.9	54.2	57.6	74.8	110.9	167.6	162.5°	526.0	525.1	526.0
35.2	37.8	43.8	56.8	52.4	54.2	72.2	107.4	165.8	165°	536.8	535.9	536.8
33.6	37.0	43.8	52.4	49.0	52.4	67.0	102.2	161.5	167.5°	545.7	544.7	545.7
32.7	35.2	43.0	48.1	46.4	49.9	61.9	93.7	155.6	170°	552.5	551.6	552.5
31.8	34.3	43.0	43.0	43.8	47.3	55.9	83.4	145.3	172.5°	555.5	554.5	555.5
30.9	34.3	43.8	38.6	41.2	44.6	51.6	74.8	132.4	175°	558.5	556.5	558.5
30.1	32.7	37.8	37.0	39.5	42.1	49.9	68.8	121.2	177.5°	562.4	561.4	562.4
28.4	30.9	33.6	34.3	37.8	40.4	49.0	67.9	110.9	180°	565.3	565.3	565.3
25.8	28.4	30.1	32.7	35.2	38.6	49.0	67.0	103.1				
24.1	25.8	27.5	29.3	31.8	36.1	48.1	67.9	99.7				
20.6	22.4	24.1	25.8	28.4	33.6	45.5	63.6	89.4				
16.3	19.0	20.6	21.5	24.1	29.3	39.5	54.2	72.2				
12.0	14.6	15.5	17.2	19.0	22.4	30.9	39.5	53.3				
6.8	9.4	10.3	11.2	14.6	16.3	20.6	25.8	36.1				
2.5	4.3	5.2	6.0	8.6	9.4	12.8	16.3	19.0				
0.0	0.0	0.0	0.0	1.8	2.5	4.3	5.2	4.3				
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	8.8	10.8	12.8	9.8	6.8				
7.8	9.8	13.7	21.6	29.5	30.5	31.4	30.5	29.5				
27.5	31.4	37.3	44.2	49.0	49.6	50.0	49.6	49.0				
53.0	55.0	59.8	64.8	68.7	69.2	69.7	69.7	69.7				
75.5	78.5	82.5	86.3	89.3	90.3	91.3	90.8	90.3				
100.1	101.1	104.0	108.0	110.0	110.9	111.9	111.9	111.9				

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CANDELA DISTRIBUTION (continued):

195°	205°	215°	225°	230°	235°	240°	245°		250°	255°	260°	265°
123.7	126.6	129.5	131.5	132.5	133.5	133.5	133.5	0°	600.8	600.8	600.8	600.8
146.2	148.2	151.2	153.1	154.1	155.0	155.0	155.0	2.5°	630.0	638.7	649.8	660.2
168.8	170.8	173.7	175.7	176.2	176.7	177.1	177.7	5°	593.9	610.3	634.3	654.1
192.3	194.3	197.3	198.3	199.2	200.2	200.2	200.2	7.5°	520.8	543.3	573.3	600.8
216.9	218.8	221.8	222.8	223.3	223.8	223.8	223.8	10°	444.4	475.3	507.1	542.4
242.5	243.4	246.3	247.3	247.8	248.3	248.8	249.3	12.5°	381.6	416.8	452.9	496.9
265.0	267.0	269.0	270.9	271.8	272.8	272.4	271.8	15°	355.0	385.9	428.0	476.2
287.5	288.5	292.5	293.5	294.5	295.5	295.5	295.5	17.5°	343.8	383.4	431.5	482.2
311.2	312.1	315.0	316.0	317.6	319.0	319.0	319.0	20°	331.7	385.9	450.4	512.2
332.7	334.7	338.6	338.6	340.1	341.5	341.5	341.5	22.5°	324.8	394.5	474.5	561.4
356.3	357.3	360.2	360.2	361.2	362.2	362.2	362.2	25°	323.2	414.3	515.6	630.9
377.8	378.8	380.8	381.8	382.3	382.8	382.8	382.8	27.5°	324.8	436.7	567.3	705.7
400.5	399.5	402.4	402.4	403.4	404.3	404.3	404.3	30°	317.2	459.8	618.8	770.9
420.0	420.0	423.0	424.0	425.0	426.0	425.4	425.0	32.5°	304.3	477.0	664.5	823.5
438.7	439.7	443.7	444.6	445.1	445.6	444.6	443.7	35°	289.6	484.7	697.1	872.4
455.4	456.4	460.3	461.3	461.8	462.3	461.3	460.3	37.5°	274.3	485.6	728.1	924.0
474.0	473.0	476.0	477.0	477.4	478.0	477.4	477.0	40°	265.6	482.2	759.9	987.6
492.7	491.7	493.7	493.7	494.2	494.7	494.2	493.7	42.5°	262.1	476.2	783.1	1035.7
507.5	506.5	509.4	509.4	509.4	509.4	508.4	507.5	45°	262.1	470.2	804.5	1071.9
519.2	519.2	522.2	522.2	522.2	522.2	521.2	520.2	47.5°	263.0	472.8	830.3	1130.2
529.0	528.0	531.0	531.0	531.4	532.0	531.0	530.0	50°	267.3	502.0	874.1	1194.7
538.8	537.8	541.8	541.8	542.3	542.8	541.3	539.8	52.5°	274.3	548.3	949.8	1271.2
548.7	547.7	550.6	549.7	549.7	549.7	548.7	547.7	55°	281.1	595.7	1048.6	1399.3
555.5	554.5	556.5	555.5	555.1	554.5	554.1	553.5	57.5°	287.1	630.9	1144.9	1526.5
558.5	556.5	558.5	557.5	557.9	558.5	557.5	556.5	60°	293.0	658.4	1200.8	1583.3
559.5	558.5	561.4	561.4	561.9	562.4	560.9	559.5	62.5°	289.6	648.0	1216.2	1554.9
564.3	563.3	567.3	566.3	566.3	566.3	564.9	563.3	65°	276.8	593.9	1167.3	1456.9
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	67.5°	241.6	499.4	1016.8	1302.3
								70°	200.2	391.9	829.5	1108.8
								72.5°	168.4	293.0	637.8	858.7
								75°	140.0	207.1	448.6	591.4
								77.5°	104.0	140.9	324.8	413.4
								80°	69.6	86.9	207.1	288.9
								82.5°	42.1	50.8	119.5	202.0
								85°	23.2	31.8	73.0	132.4
								87.5°	6.0	6.8	16.3	6.0
								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°	5.9	4.9	4.4	4.0
								100°	27.9	26.5	26.1	25.5
								102.5°	48.1	47.1	47.6	48.1
								105°	68.7	67.7	68.7	69.7
								107.5°	89.8	89.3	89.8	90.3
								110°	111.4	110.9	111.4	111.9

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CANDELA DISTRIBUTION (continued):

270°	275°	280°	285°	290°	295°	300°		250°	255°	260°	265°	270°
600.8	600.8	600.8	600.8	600.8	600.8	600.8	112.5°	132.9	132.5	133.5	134.5	132.5
667.9	674.8	683.3	683.3	693.6	697.1	703.9	115°	155.0	155.0	156.0	157.0	156.0
678.2	701.4	722.9	734.9	755.6	769.3	783.1	117.5°	177.1	176.7	177.7	178.7	176.7
636.1	673.9	709.1	741.8	776.1	805.4	826.9	120°	200.2	200.2	201.2	202.2	200.2
580.1	620.5	663.6	707.3	748.6	789.9	825.1	122.5°	224.3	224.8	226.7	228.7	227.7
540.6	583.6	634.3	672.1	715.1	756.5	790.8	125°	249.3	249.3	250.8	252.2	251.3
522.6	566.4	613.7	652.3	692.9	726.3	750.4	127.5°	272.4	272.8	274.3	275.8	272.8
532.1	585.3	627.5	660.2	690.2	705.7	709.1	130°	295.9	296.4	297.9	299.3	297.4
573.3	629.2	660.2	681.6	686.8	685.9	673.0	132.5°	319.4	320.0	321.4	322.9	321.0
637.8	703.1	724.7	720.4	698.8	671.3	649.8	135°	342.1	342.5	343.5	344.5	343.5
724.7	789.9	802.0	777.9	729.7	676.4	640.3	137.5°	362.6	363.2	365.1	367.0	365.1
815.8	882.8	878.5	842.3	773.6	698.8	641.2	140°	383.8	384.7	386.7	388.7	386.7
880.2	936.0	918.9	864.7	788.3	713.4	652.3	142.5°	404.9	405.3	406.8	408.3	407.3
947.3	989.3	958.4	899.9	820.8	744.3	681.6	145°	425.4	426.0	427.4	428.9	427.0
1019.4	1041.8	991.9	932.6	860.4	783.1	715.1	147.5°	444.1	444.6	446.1	447.5	444.6
1089.0	1098.4	1026.2	962.6	892.2	822.6	760.7	150°	460.3	460.3	462.3	464.2	461.3
1163.8	1150.9	1062.3	987.6	918.0	864.7	814.0	152.5°	477.0	477.0	478.4	480.0	477.0
1228.3	1199.9	1095.9	1012.5	949.8	905.1	869.9	155°	494.2	494.7	496.1	497.6	495.7
1276.4	1239.4	1127.7	1036.6	980.7	953.2	936.0	157.5°	507.9	508.4	510.9	513.3	510.3
1317.6	1277.3	1152.6	1071.9	1023.7	1013.4	1019.4	160°	520.2	520.2	521.6	523.2	521.2
1369.3	1317.6	1186.1	1111.3	1082.2	1092.5	1126.8	162.5°	529.0	528.0	529.0	530.0	527.0
1449.1	1382.1	1242.1	1168.1	1154.3	1191.3	1256.5	165°	538.8	537.8	538.8	539.8	537.8
1578.1	1499.0	1340.9	1267.0	1250.6	1307.3	1401.1	167.5°	548.1	548.7	550.6	552.5	550.6
1689.8	1629.6	1471.5	1382.1	1375.2	1436.3	1538.5	170°	554.5	555.5	557.9	560.5	558.5
1740.6	1734.5	1606.5	1524.0	1513.6	1570.3	1667.5	172.5°	556.9	557.5	558.9	560.5	557.5
1736.2	1786.1	1716.5	1658.0	1622.8	1670.1	1764.6	175°	558.5	557.5	558.9	560.5	557.5
1673.5	1755.2	1761.1	1747.5	1683.9	1687.3	1754.3	177.5°	563.3	563.3	564.9	566.3	563.3
1550.6	1647.7	1749.1	1744.9	1664.0	1592.8	1606.5	180°	565.3	565.3	565.3	565.3	565.3
1376.1	1459.5	1621.1	1653.7	1538.5	1405.3	1342.6						
1102.8	1199.9	1439.7	1485.3	1328.0	1140.6	1043.5						
760.7	888.7	1256.5	1261.0	1077.9	897.4	792.5						
522.6	632.7	1015.9	1027.1	855.3	680.7	590.5						
351.6	423.7	745.2	697.9	564.8	471.9	448.6						
221.7	263.9	468.5	437.6	372.2	340.4	349.0						
103.1	144.4	256.2	250.1	234.6	205.4	178.9						
2.5	7.7	49.9	32.7	32.7	19.0	6.8						
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	4.4	4.9	5.9	6.8	9.8						
24.5	25.5	26.1	26.5	27.9	29.5	30.5						
47.1	48.1	47.6	47.1	48.1	49.0	49.6						
67.7	69.7	68.7	67.7	68.7	69.7	69.7						
89.3	90.3	89.8	89.3	89.8	90.3	90.8						
110.9	111.9	111.4	110.9	111.4	111.9	111.9						



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CANDELA DISTRIBUTION (continued):

275°	280°	285°	290°	295°	300°		305°	310°	315°	325°	335°	340°
134.5	133.5	132.5	132.9	133.5	133.5	0°	600.8	600.8	600.8	600.8	600.8	600.8
157.0	156.0	155.0	155.0	155.0	155.0	2.5°	697.9	700.5	699.7	693.6	678.2	672.1
178.7	177.7	176.7	177.1	177.7	177.1	5°	782.2	786.5	781.3	766.7	727.2	708.2
202.2	201.2	200.2	200.2	200.2	200.2	7.5°	841.5	844.9	836.3	802.7	732.3	700.5
228.7	226.7	224.8	224.3	223.8	223.8	10°	852.6	860.4	851.0	802.7	721.2	681.6
252.2	250.8	249.3	249.3	249.3	248.8	12.5°	820.8	837.2	830.3	795.1	715.9	673.9
275.8	274.3	272.8	272.4	271.8	272.4	15°	771.8	773.6	777.9	777.0	706.6	665.3
299.3	297.9	296.4	295.9	295.5	295.5	17.5°	717.7	715.9	721.2	737.5	703.9	671.3
322.9	321.4	320.0	319.4	319.0	319.0	20°	668.7	666.1	671.3	687.7	693.6	685.9
344.5	343.5	342.5	342.1	341.5	341.5	22.5°	637.8	629.2	628.4	652.3	698.8	719.5
367.0	365.1	363.2	362.6	362.2	362.2	25°	620.5	611.2	615.4	643.0	720.4	759.0
388.7	386.7	384.7	383.8	382.8	382.8	27.5°	615.4	605.1	611.2	642.1	742.6	807.0
408.3	406.8	405.3	404.9	404.3	404.3	30°	618.8	608.5	611.2	648.0	753.8	818.3
428.9	427.4	426.0	425.4	425.0	425.4	32.5°	638.7	620.5	618.8	666.1	774.4	843.1
447.5	446.1	444.6	444.1	443.7	444.6	35°	665.3	639.5	636.1	695.4	801.1	874.9
464.2	462.3	460.3	460.3	460.3	461.3	37.5°	710.0	678.2	673.0	744.3	837.2	901.7
480.0	478.4	477.0	477.0	477.0	477.4	40°	770.2	738.4	738.4	807.0	886.2	938.5
497.6	496.1	494.7	494.2	493.7	494.2	42.5°	838.1	817.4	820.8	882.8	942.1	985.0
513.3	510.9	508.4	507.9	507.5	508.4	45°	928.3	917.1	934.2	978.2	998.7	1028.0
523.2	521.6	520.2	520.2	520.2	521.2	47.5°	1033.9	1043.5	1067.5	1081.3	1056.4	1071.9
530.0	529.0	528.0	529.0	530.0	531.0	50°	1166.4	1191.3	1214.5	1211.1	1127.7	1122.5
539.8	538.8	537.8	538.8	539.8	541.3	52.5°	1318.5	1351.2	1367.5	1348.5	1207.6	1177.6
552.5	550.6	548.7	548.1	547.7	548.7	55°	1473.2	1512.7	1507.6	1486.2	1294.5	1254.0
560.5	557.9	555.5	554.5	553.5	554.1	57.5°	1613.4	1644.3	1658.0	1611.6	1400.2	1346.9
560.5	558.9	557.5	556.9	556.5	557.5	60°	1724.3	1757.7	1757.7	1712.2	1515.4	1453.5
560.5	558.9	557.5	558.5	559.5	560.9	62.5°	1805.1	1831.6	1822.2	1778.4	1614.3	1566.9
566.3	564.9	563.3	563.3	563.3	564.9	65°	1798.9	1801.6	1791.3	1774.9	1673.5	1668.3
565.3	565.3	565.3	565.3	565.3	565.3	67.5°	1629.6	1630.5	1651.2	1644.3	1628.8	1692.4
						70°	1335.7	1349.4	1384.6	1374.4	1453.5	1584.1
						72.5°	1016.8	1025.4	1067.5	1058.0	1165.6	1309.1
						75°	740.0	739.1	757.2	743.4	879.4	1039.2
						77.5°	569.9	554.4	551.0	552.6	623.2	755.6
						80°	459.8	459.8	454.7	435.8	381.6	441.8
						82.5°	367.0	352.5	326.6	289.6	245.0	261.2
						85°	183.1	178.0	155.6	129.0	107.4	142.7
						87.5°	0.9	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°	12.8	10.8	8.8	4.0	3.0	2.4
						100°	31.4	30.5	29.5	21.6	13.7	11.8
						102.5°	50.0	49.6	49.0	44.2	37.3	34.3
						105°	69.7	69.2	68.7	64.8	59.8	57.4
						107.5°	91.3	90.3	89.3	86.3	82.5	80.5
						110°	111.9	110.9	110.0	108.0	104.0	102.6



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CANDELA DISTRIBUTION (continued):

342.5°	345°	347.5°	350°	352.5°		305°	310°	315°	325°	335°	340°	342.5°
600.8	600.8	600.8	600.8	600.8	112.5°	133.5	132.5	131.5	129.5	126.6	125.1	124.4
669.6	662.7	655.0	655.0	648.0	115°	155.0	154.1	153.1	151.2	148.2	147.2	146.7
697.1	683.3	672.1	661.8	651.5	117.5°	176.7	176.2	175.7	173.7	170.8	169.8	169.3
683.3	667.0	653.2	635.2	618.8	120°	200.2	199.2	198.3	197.3	194.3	193.3	192.9
662.7	644.6	625.0	606.0	582.8	122.5°	223.8	223.3	222.8	221.8	218.8	217.9	217.4
651.5	630.0	606.0	586.2	559.6	125°	248.3	247.8	247.3	246.3	243.4	242.9	242.6
643.0	620.5	599.1	580.1	556.9	127.5°	272.8	271.8	270.9	269.0	267.0	266.0	265.4
656.8	635.2	619.7	598.2	580.1	130°	295.5	294.5	293.5	292.5	288.5	288.1	287.7
679.8	667.0	655.0	641.2	626.6	132.5°	319.0	317.6	316.0	315.0	312.1	311.6	311.4
723.8	722.0	721.2	710.8	700.5	135°	341.5	340.1	338.6	338.6	334.7	333.7	333.2
778.7	785.6	795.1	795.1	795.1	137.5°	362.2	361.2	360.2	360.2	357.3	356.8	356.4
835.4	852.6	870.6	878.5	883.7	140°	382.8	382.3	381.8	380.8	378.8	378.4	378.1
851.9	876.7	905.1	924.0	936.9	142.5°	404.3	403.4	402.4	402.4	399.5	399.9	400.3
878.5	906.7	938.5	960.1	983.4	145°	426.0	425.0	424.0	423.0	420.0	420.0	420.0
910.3	935.1	967.8	997.1	1030.5	147.5°	445.6	445.1	444.6	443.7	439.7	439.2	438.9
936.9	969.5	1004.8	1042.7	1085.6	150°	462.3	461.8	461.3	460.3	456.4	455.9	455.6
977.3	1011.7	1050.4	1101.1	1153.5	152.5°	478.0	477.4	477.0	476.0	473.0	473.6	473.9
1022.0	1058.9	1099.3	1150.1	1211.1	155°	494.7	494.2	493.7	493.7	491.7	492.2	492.5
1060.7	1093.3	1137.2	1189.5	1259.2	157.5°	509.4	509.4	509.4	509.4	506.5	506.9	507.3
1097.5	1127.7	1179.3	1232.6	1301.4	160°	522.2	522.2	522.2	522.2	519.2	519.2	519.2
1146.6	1169.9	1221.3	1282.4	1355.5	162.5°	532.0	531.4	531.0	531.0	528.0	528.6	528.8
1197.4	1229.2	1285.8	1355.5	1437.2	165°	542.8	542.3	541.8	541.8	537.8	538.4	538.6
1266.1	1303.9	1373.5	1452.6	1555.8	167.5°	549.7	549.7	549.7	550.6	547.7	548.1	548.4
1360.7	1400.2	1474.1	1562.6	1668.3	170°	554.5	555.1	555.5	556.5	554.5	555.1	555.3
1476.6	1515.4	1579.0	1666.6	1765.5	172.5°	558.5	557.9	557.5	558.5	556.5	557.5	557.9
1585.0	1638.3	1695.9	1761.1	1839.4	175°	562.4	561.9	561.4	561.4	558.5	558.9	559.3
1702.7	1744.0	1792.1	1817.0	1860.9	177.5°	566.3	566.3	566.3	567.3	563.3	563.9	564.1
1737.1	1771.5	1813.6	1813.6	1808.5	180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3
1635.6	1688.2	1725.0	1725.0	1681.3								
1422.6	1510.2	1546.3	1568.6	1512.7								
1156.1	1265.3	1324.6	1343.4	1242.1								
848.4	918.0	925.7	928.3	791.7								
489.0	544.0	563.9	592.3	474.5								
283.7	304.3	337.9	349.8	288.9								
159.0	160.8	160.8	148.7	121.2								
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								
1.0	1.0	1.0	1.0	1.0								
2.2	2.0	2.0	2.0	2.0								
10.8	9.8	9.3	8.8	8.4								
32.9	31.4	30.5	29.5	28.5								
56.1	55.0	54.4	54.0	53.4								
79.5	78.5	77.7	77.1	76.4								
101.9	101.1	100.9	100.6	100.3								

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CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°		355°	359°	360°
123.7	123.2	122.7	122.2	0°	600.8	600.8	600.8
146.2	145.7	145.3	144.8	2.5°	646.4	636.1	637.8
168.8	168.3	167.8	167.4	5°	636.9	622.3	617.1
192.3	192.1	191.9	191.6	7.5°	604.3	579.4	571.6
216.9	216.7	216.4	216.1	10°	564.8	533.0	526.9
242.5	242.3	241.9	241.6	12.5°	542.4	506.3	498.5
265.0	264.8	264.6	264.2	15°	535.5	501.2	492.5
287.5	287.4	287.1	286.8	17.5°	556.1	519.2	508.8
311.2	310.4	309.6	308.9	20°	603.4	559.6	547.6
332.7	332.2	331.7	331.3	22.5°	673.9	624.1	609.4
356.3	355.5	354.8	354.1	25°	769.3	712.5	697.9
377.8	377.4	376.9	376.4	27.5°	867.2	799.3	780.4
400.5	399.9	399.5	398.9	30°	924.0	861.3	842.3
420.0	419.6	419.1	418.6	32.5°	981.6	921.4	899.0
438.7	437.9	437.3	436.6	35°	1042.7	981.6	959.2
455.4	454.9	454.5	453.9	37.5°	1114.0	1062.3	1042.7
474.0	473.2	472.6	471.9	40°	1199.1	1151.8	1123.4
492.7	492.2	491.7	491.2	42.5°	1269.6	1225.6	1199.1
507.5	506.9	506.5	505.9	45°	1321.0	1284.1	1256.5
519.2	518.7	518.2	517.7	47.5°	1368.4	1340.0	1312.5
529.0	528.2	527.6	526.9	50°	1427.7	1403.6	1384.6
538.8	538.4	537.8	537.4	52.5°	1507.6	1499.0	1482.7
548.7	547.9	547.2	546.5	55°	1625.3	1644.3	1621.1
555.5	554.7	554.1	553.4	57.5°	1737.1	1750.9	1740.6
558.5	557.7	556.9	556.3	60°	1824.7	1805.9	1792.9
559.5	559.3	558.9	558.7	62.5°	1869.6	1823.1	1801.6
564.3	563.9	563.3	562.9	65°	1872.1	1800.7	1768.0
565.3	565.3	565.3	565.3	67.5°	1813.6	1730.2	1692.4
				70°	1656.4	1560.1	1510.2
				72.5°	1391.6	1243.7	1210.3
				75°	1020.3	838.8	819.2
				77.5°	618.0	482.2	456.4
				80°	348.1	276.8	268.1
				82.5°	197.6	155.6	164.2
				85°	80.8	40.4	44.6
				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°	7.8	7.8	7.8
				102.5°	27.5	27.5	27.5
				105°	53.0	53.0	53.0
				107.5°	75.5	76.4	76.5
				110°	100.1	99.4	99.2

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CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	121.7	121.7	121.7
115°	144.3	143.5	143.3
117.5°	166.8	166.1	165.8
120°	191.4	189.8	189.5
122.5°	216.0	215.1	215.0
125°	241.5	239.8	239.5
127.5°	264.0	262.5	262.0
130°	286.6	285.0	284.7
132.5°	308.2	307.4	307.2
135°	330.8	329.9	329.8
137.5°	353.3	352.6	352.3
140°	375.9	375.1	375.0
142.5°	398.5	396.9	396.5
145°	418.1	417.4	417.2
147.5°	435.8	435.8	435.8
150°	453.5	452.7	452.5
152.5°	471.1	470.4	470.2
155°	490.7	489.9	489.8
157.5°	505.5	503.9	503.5
160°	517.2	515.6	515.3
162.5°	526.0	525.3	525.1
165°	536.8	536.1	535.9
167.5°	545.7	544.9	544.7
170°	552.5	551.8	551.6
172.5°	555.5	554.7	554.5
175°	558.5	556.9	556.5
177.5°	562.4	561.6	561.4
180°	565.3	565.3	565.3

(END OF REPORT)