

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: EPHESUS

Report Number: P701727 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-80-2S-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701727 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-57-80-2S-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

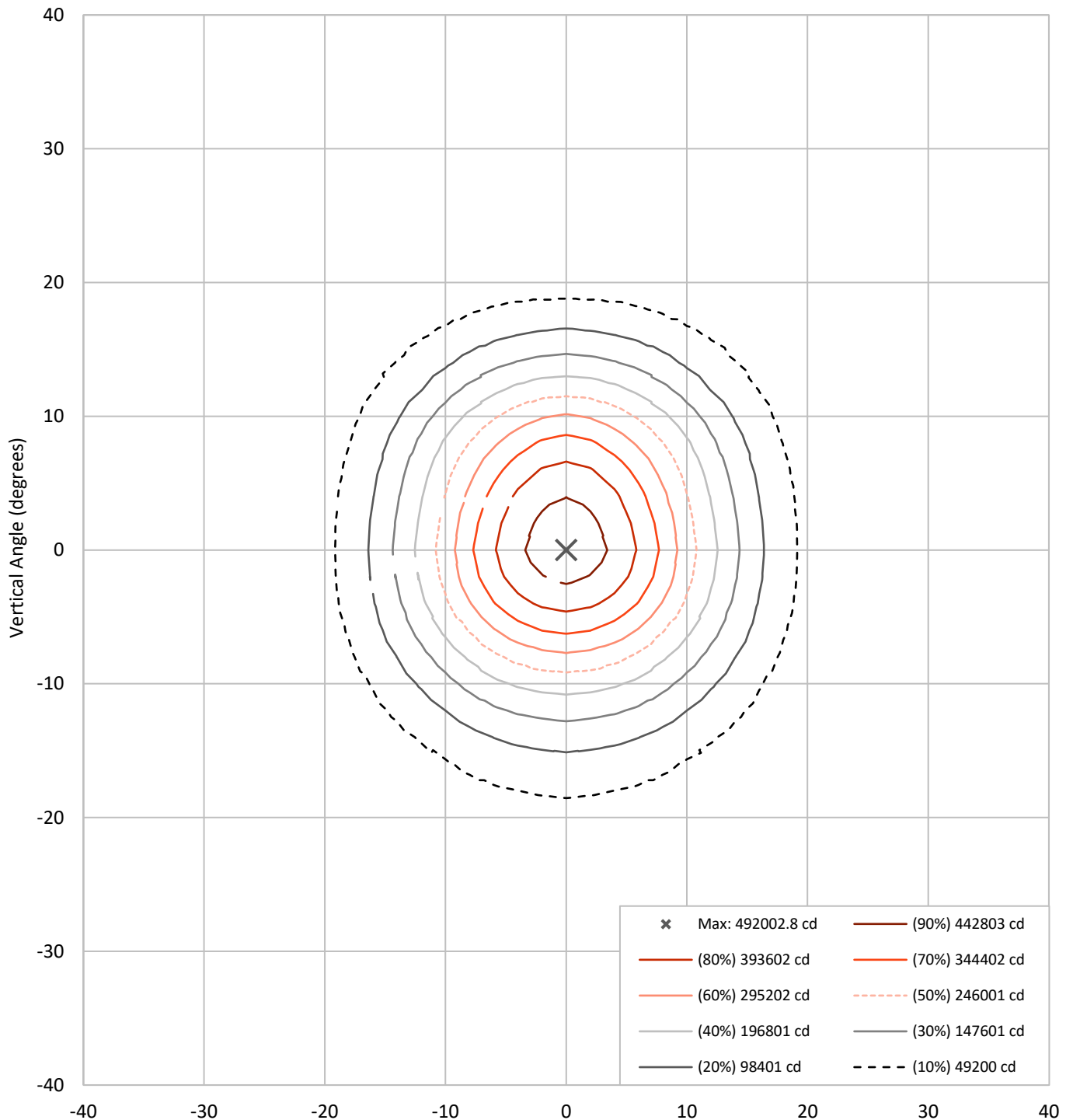
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	79557.3 lumens	Max Intensity:	492002.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	113.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.6°H x 20.7°V	Field Angle (10%):	38.3°H x 37.3°V
Beam Lumens:	36942.8 lumens	Field Lumens:	67256 lumens
Beam Efficiency:	46.4%	Field Efficiency:	84.5%

Input Watts (W): 703.6  
Input Voltage (V): NR  
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-Candela Plot





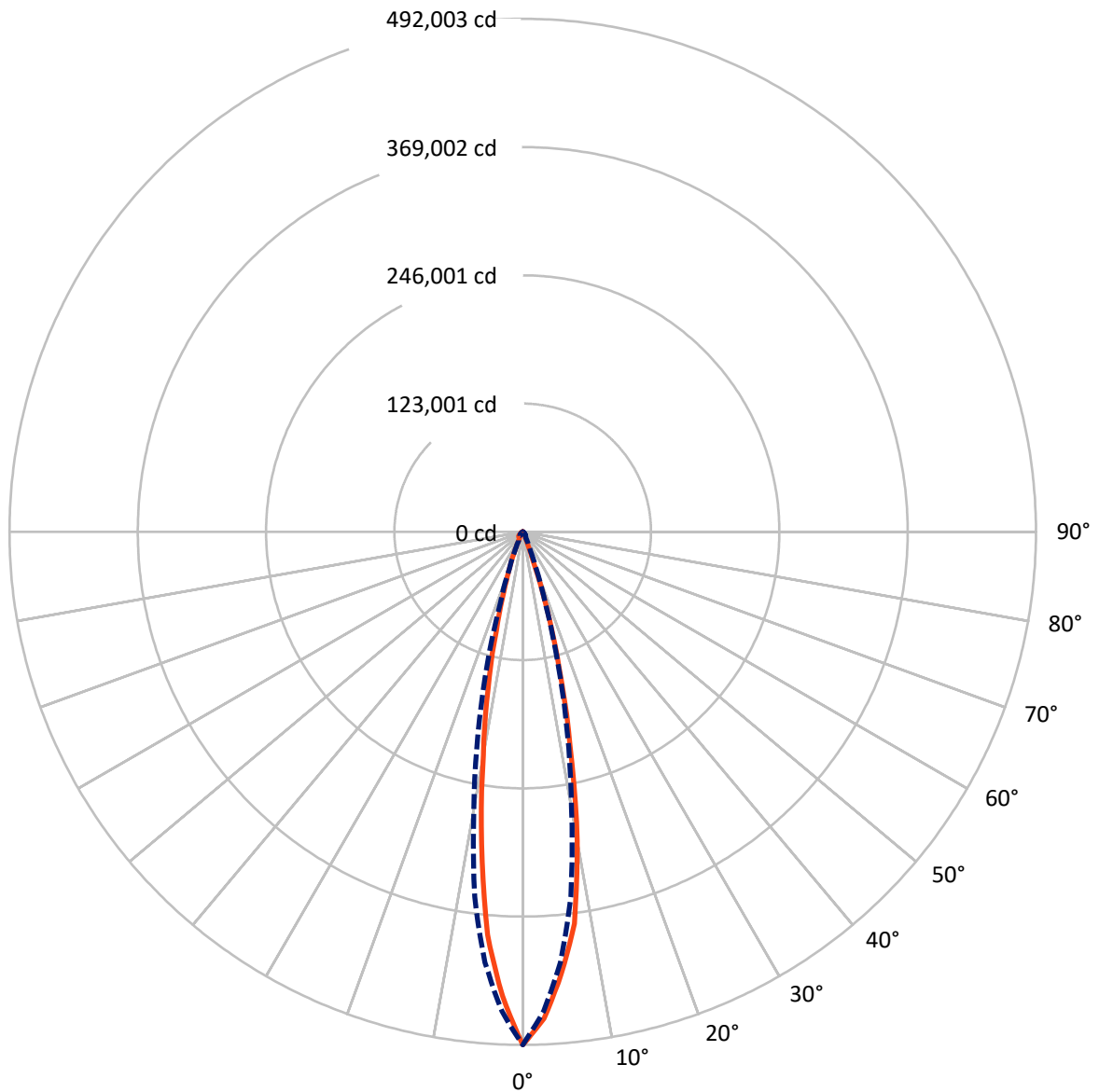
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### Lumen Table

90	0.1		0.3		0.5		0.5		0.5		0.5		0.3		0.1	
80	0.1		0.3		0.5		0.5		0.5		0.5		0.3		0.1	
70	0.1	0.1	0.2	0.7	0.8	0.4	0.3	0.2	0.2	0.3	0.4	0.8	0.7	0.2	0.1	0.1
60		0.1	0.4	0.6	0.5	0.3	0.2	0.3	0.3	0.2	0.3	0.5	0.6	0.4	0.1	
50	0.2	0.2	0.4	0.5	0.6	1.1	1.8	1.2	1.2	1.8	1.1	0.6	0.5	0.4	0.2	0.2
40		0.3	1.0	2.8	5.3	7.7	10.6	12.8	12.8	10.6	7.7	5.3	2.8	1.0	0.3	
30	0.3	0.6	5.1	16.1	38.1	57.8	100.0	189.5	189.5	100.0	57.8	38.1	16.1	5.1	0.6	0.3
20		1.5	10.7	42.5	97.4	182.2	1190.3	3688.4	3688.4	1190.3	182.2	97.4	42.5	10.7	1.5	
10	0.4	2.3	13.8	57.1	115.8	365.1	3498.4	10484.9	10484.9	3498.4	365.1	115.8	57.1	13.8	2.3	0.4
0		2.9	14.8	57.3	115.5	348.0	3290.3	9535.8	9535.8	3290.3	348.0	115.5	57.3	14.8	2.9	
-10	0.6	3.4	14.2	45.8	97.6	169.3	967.9	2802.7	2802.7	967.9	169.3	97.6	45.8	14.2	3.4	0.6
-20		3.5	13.4	32.5	87.5	130.6	198.5	383.7	383.7	198.5	130.6	87.5	32.5	13.4	3.5	
-30	0.5	3.0	11.5	24.4	61.0	126.8	164.8	184.2	184.2	164.8	126.8	61.0	24.4	11.5	3.0	0.5
-40		2.2	8.6	20.1	36.1	61.1	104.5	139.3	139.3	104.5	61.1	36.1	20.1	8.6	2.2	
-50	0.4	1.1	5.1	13.3	25.7	38.9	50.7	57.3	57.3	50.7	38.9	25.7	13.3	5.1	1.1	0.4
-60		0.4	1.7	5.4	11.3	18.1	24.9	28.9	28.9	24.9	18.1	11.3	5.4	1.7	0.4	
-70	0.2	0.4	1.7	5.4	11.3	18.1	24.9	28.9	28.9	24.9	18.1	11.3	5.4	1.7	0.4	0.2
-80		0.2	1.3	3.8	8.9	12.0	8.9	3.8	1.3	0.2						
-90	0.2		1.3		3.8		8.9		12.0		8.9		3.8		1.3	

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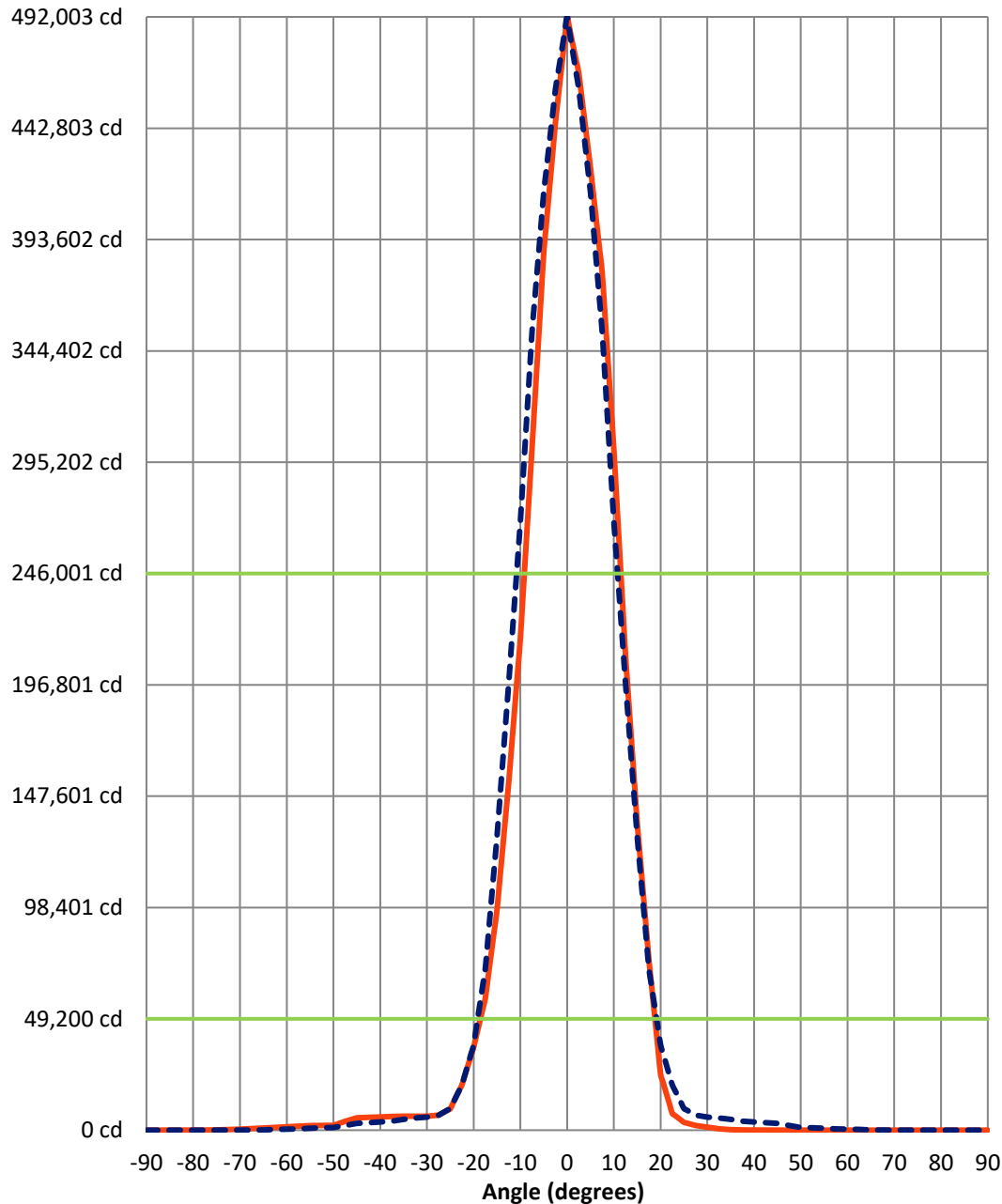
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 21.6°  
V Angle: 20.7°  
Lumens: 36942.8  
Efficiency: 46.4%

**Field:**  
H Angle: 38.3°  
V Angle: 37.3°  
Lumens: 67256  
Efficiency: 84.5%

**Spill:**  
Lumens: 12301.3  
Efficiency: 15.5%

— Vertical Distribution through 0-Deg  
- - Horizontal Distribution through 0-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	5.8	6.8	7.8	8.3	8.8	9.2	9.7	10.2	10.7	11.2	11.7
87.5°	5.8	5.8	5.8	5.4	5.0	4.7	4.4	4.3	4.2	4.1	3.9
85°	5.8	5.9	5.8	5.5	5.2	5.0	4.9	4.8	4.6	4.3	3.9
82.5°	5.8	5.9	5.8	5.5	5.4	5.3	5.4	5.2	4.9	4.6	4.4
80°	5.8	6.0	5.8	5.6	5.5	5.6	5.8	5.5	5.2	5.1	5.2
77.5°	5.8	6.0	5.8	5.6	5.7	5.8	5.8	5.6	5.5	5.7	5.8
75°	5.8	6.1	5.8	5.7	5.8	6.0	5.9	5.7	5.8	5.8	5.8
72.5°	5.8	6.1	5.9	5.8	6.0	6.1	5.9	5.8	5.8	5.8	5.8
70°	5.8	6.2	5.9	5.8	6.2	6.3	6.0	5.8	5.8	5.8	5.9
67.5°	5.8	6.2	5.9	6.0	6.4	6.4	6.0	5.8	5.8	6.1	6.0
65°	5.8	6.3	6.0	6.2	6.6	6.5	6.1	5.8	6.2	6.4	6.2
62.5°	5.8	6.3	6.0	6.4	6.8	6.6	6.1	6.2	6.7	6.8	6.3
60°	5.8	6.4	6.1	6.6	7.1	6.6	6.2	6.7	7.2	6.9	6.4
57.5°	5.8	6.4	6.2	6.9	7.1	6.7	6.6	7.3	7.4	6.9	7.0
55°	5.8	6.5	6.4	7.1	7.2	6.7	7.1	7.8	7.5	7.2	7.8
52.5°	5.8	6.5	6.6	7.3	7.2	6.9	7.6	8.0	7.6	7.9	8.6
50°	5.8	6.6	6.7	7.5	7.3	7.3	8.1	8.1	7.8	8.6	10.6
47.5°	5.8	6.7	6.8	7.7	7.3	7.6	8.5	8.2	8.4	9.3	12.4
45°	5.8	6.7	7.0	7.7	7.4	8.0	8.6	8.3	9.1	10.7	14.0
42.5°	5.8	6.8	7.1	7.8	7.4	8.4	8.7	8.7	9.8	11.9	16.1
40°	5.8	6.8	7.2	7.8	7.6	8.8	8.8	9.3	10.7	12.9	18.3
37.5°	5.8	6.9	7.3	7.9	7.9	9.1	8.9	10.0	11.8	14.5	20.3
35°	5.8	7.0	7.4	7.9	8.2	9.3	9.0	10.7	12.9	16.8	22.0
32.5°	5.8	7.0	7.5	8.0	8.4	9.4	9.2	11.4	14.0	19.2	24.4
30°	5.8	7.1	7.5	8.1	8.7	9.4	9.8	12.2	15.0	21.6	27.0
27.5°	5.8	7.2	7.6	8.2	8.9	9.5	10.4	13.1	16.4	24.1	29.7
25°	5.8	7.2	7.6	8.3	9.1	9.6	11.0	13.9	18.3	26.4	32.7
22.5°	5.8	7.3	7.7	8.4	9.2	9.7	11.5	14.6	20.2	28.7	38.0
20°	5.8	7.4	7.7	8.6	9.4	9.9	12.1	15.4	22.1	31.1	44.0
17.5°	5.8	7.4	7.7	8.7	9.5	10.1	12.7	16.0	23.9	33.5	50.5
15°	5.8	7.5	7.8	8.8	9.6	10.3	13.2	16.7	25.6	35.8	57.4
12.5°	5.8	7.5	7.8	9.0	9.6	10.5	13.7	17.3	27.1	38.1	64.5
10°	5.8	7.6	7.8	9.1	9.7	10.7	14.2	17.8	28.3	41.0	71.8
7.5°	5.8	7.7	7.8	9.3	9.7	11.0	14.6	18.3	29.3	44.1	79.0
5°	5.8	7.7	7.8	9.4	9.7	11.2	15.0	18.8	30.1	47.1	85.8
2.5°	5.8	7.8	7.8	9.6	9.7	11.5	15.3	19.2	30.7	50.0	92.0
0°	5.8	7.8	7.8	9.7	9.7	11.7	15.6	19.5	31.2	52.6	97.4
-2.5°	5.8	7.8	7.9	9.8	10.0	12.3	17.1	24.1	40.6	69.3	121.4
-5°	5.8	7.9	8.0	9.9	10.4	12.9	18.6	28.4	49.7	85.2	144.1
-7.5°	5.8	7.9	8.0	10.0	10.7	13.5	20.0	32.5	58.1	100.0	165.1
-10°	5.8	7.9	8.1	10.1	11.0	14.0	21.2	36.2	65.6	113.4	184.0
-12.5°	5.8	8.0	8.2	10.2	11.3	14.5	22.2	39.3	72.1	124.9	200.2
-15°	5.8	8.0	8.3	10.3	11.6	14.9	23.1	41.8	78.4	134.7	213.3
-17.5°	5.8	8.0	8.4	10.3	11.9	15.3	23.7	44.7	84.7	142.8	223.2
-20°	5.8	8.0	8.5	10.4	12.1	15.6	24.5	47.5	89.5	149.2	229.6



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.8	8.0	8.5	10.4	12.3	15.8	25.4	49.2	92.5	153.8	232.3
-25°	5.8	8.0	8.6	10.4	12.4	16.1	25.8	49.7	93.7	156.4	231.1
-27.5°	5.8	8.0	8.7	10.4	12.5	16.3	25.6	48.8	92.9	157.2	232.8
-30°	5.8	8.0	8.8	10.4	12.6	16.4	24.8	46.5	91.4	156.1	232.3
-32.5°	5.8	8.0	8.8	10.4	12.8	16.4	23.3	45.1	88.8	152.2	229.2
-35°	5.8	8.0	8.9	10.3	12.9	16.2	22.7	43.4	84.1	145.5	223.4
-37.5°	5.8	8.0	9.0	10.3	12.9	16.1	22.5	40.7	77.2	135.9	209.6
-40°	5.8	8.0	9.0	10.2	13.0	16.2	22.1	36.9	68.3	125.6	192.6
-42.5°	5.8	7.9	9.1	10.2	13.0	16.2	21.5	32.2	61.2	111.3	172.7
-45°	5.8	7.9	9.1	10.1	12.9	16.1	20.8	28.6	54.6	94.9	150.8
-47.5°	5.8	7.9	9.2	10.1	12.8	16.0	19.9	27.4	46.5	76.8	130.2
-50°	5.8	7.8	9.3	10.1	12.7	15.9	19.5	26.1	37.0	65.8	107.4
-52.5°	5.8	7.8	9.3	10.2	12.5	15.7	19.2	24.5	32.4	53.7	83.8
-55°	5.8	7.7	9.4	10.3	12.3	15.4	18.9	22.8	30.1	40.6	68.8
-57.5°	5.8	7.7	9.4	10.3	12.1	15.1	18.4	22.2	27.5	35.2	52.6
-60°	5.8	7.6	9.4	10.3	11.9	14.7	17.9	21.5	25.1	31.9	39.8
-62.5°	5.8	7.6	9.3	10.3	11.8	14.2	17.3	20.6	24.0	28.3	35.5
-65°	5.8	7.5	9.2	10.2	11.6	13.8	16.7	19.7	22.9	26.4	31.0
-67.5°	5.8	7.5	9.1	10.2	11.4	13.3	16.0	18.7	21.6	24.8	28.3
-70°	5.8	7.4	9.0	10.1	11.2	12.9	15.2	17.7	20.3	23.2	26.4
-72.5°	5.8	7.3	8.9	9.9	11.0	12.4	14.4	16.6	18.9	21.5	24.3
-75°	5.8	7.3	8.7	9.7	10.7	11.9	13.6	15.5	17.5	19.7	22.1
-77.5°	5.8	7.2	8.6	9.5	10.4	11.4	12.7	14.4	16.2	17.9	19.9
-80°	5.8	7.1	8.4	9.3	10.1	10.9	11.8	13.3	15.0	16.5	18.1
-82.5°	5.8	7.0	8.3	9.0	9.7	10.5	11.2	12.4	13.7	15.1	16.6
-85°	5.8	7.0	8.1	8.8	9.4	10.1	10.7	11.7	12.7	13.8	15.0
-87.5°	5.8	6.9	8.0	8.5	9.1	9.7	10.2	10.9	11.7	12.5	13.3
-90°	5.8	5.8	5.8	5.3	4.9	4.4	3.9	3.9	3.9	3.9	3.9





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	11.7	11.7	11.7	11.7	12.2	12.7	13.1	13.6	14.1	14.6	15.1
87.5°	3.6	3.4	3.2	3.0	2.8	2.5	2.2	1.9	1.9	1.9	1.9
85°	3.9	3.9	3.9	3.9	3.4	2.9	2.4	1.9	1.9	1.9	1.9
82.5°	4.5	4.4	4.2	3.9	3.4	2.9	2.5	2.2	2.2	2.2	2.1
80°	5.2	4.9	4.5	4.0	3.7	3.5	3.5	3.6	3.4	3.1	2.8
77.5°	5.4	5.0	4.5	4.0	4.0	4.3	4.6	4.9	4.8	4.6	4.4
75°	5.5	5.0	4.8	4.8	5.1	5.5	5.8	5.8	5.6	5.5	5.5
72.5°	5.6	5.4	5.5	5.8	5.8	5.8	5.8	5.8	7.4	9.6	11.0
70°	5.7	5.8	5.8	5.8	5.8	6.4	9.1	13.0	17.0	19.1	21.1
67.5°	5.8	5.8	5.8	6.1	7.4	10.4	14.8	23.2	32.2	34.4	34.1
65°	5.8	5.8	6.5	7.9	9.5	16.8	25.9	36.5	44.3	43.1	40.3
62.5°	5.8	6.6	7.9	10.8	16.6	25.2	33.5	41.1	48.6	47.2	40.7
60°	6.6	7.6	10.9	16.6	23.0	29.3	37.1	42.0	46.9	48.1	36.8
57.5°	7.5	9.9	15.3	21.3	26.7	31.3	34.2	38.6	40.2	39.1	28.7
55°	9.2	13.2	19.0	24.7	28.5	27.3	29.2	30.5	30.0	27.7	20.4
52.5°	11.9	16.2	22.0	26.7	27.2	24.6	23.0	23.3	21.5	18.3	15.8
50°	14.3	19.3	24.6	27.2	26.0	22.1	18.4	17.8	16.6	15.0	13.6
47.5°	16.9	22.2	26.4	27.8	24.1	20.6	17.0	15.8	14.9	15.3	14.5
45°	19.5	24.5	28.7	26.3	23.0	20.2	18.8	15.5	17.5	18.7	19.4
42.5°	22.0	26.5	28.2	25.1	23.3	23.2	23.0	22.2	23.2	28.1	30.8
40°	23.8	28.3	28.2	27.6	25.5	29.4	32.9	35.8	36.0	42.3	47.3
37.5°	25.4	29.1	30.7	34.6	32.8	39.8	45.9	70.2	71.2	58.9	79.9
35°	27.0	30.6	40.4	51.4	55.8	54.3	88.7	120.7	128.6	115.6	137.3
32.5°	28.6	32.8	53.5	79.4	103.0	104.5	143.9	194.9	221.7	230.7	242.6
30°	31.7	45.0	73.8	114.7	171.2	217.3	236.1	291.0	340.4	439.5	508.8
27.5°	37.3	60.9	107.6	177.7	264.3	351.5	381.5	419.6	549.3	724.8	898.4
25°	44.2	94.5	146.3	261.1	393.5	490.4	528.5	579.8	824.9	1164.1	1363.5
22.5°	61.7	137.8	204.7	357.2	536.8	625.6	675.4	859.9	1234.8	1685.3	1887.5
20°	93.4	189.3	275.7	437.6	680.8	760.0	815.7	1199.8	1745.4	2173.4	2490.4
17.5°	130.0	241.0	346.3	522.2	743.1	862.2	978.7	1574.9	2280.4	2656.7	3030.1
15°	170.2	292.4	407.5	597.5	799.6	923.5	1229.5	1999.3	2764.1	3131.3	3503.7
12.5°	212.8	343.1	460.0	663.6	855.3	980.6	1457.4	2302.0	3022.5	3505.5	3952.5
10°	256.4	392.5	504.9	720.8	909.3	1033.5	1670.4	2559.2	3159.5	3589.2	4095.6
7.5°	285.8	424.7	539.8	769.1	960.5	1082.1	1863.5	2771.4	3252.5	3631.2	4081.1
5°	309.1	436.9	553.2	803.5	1002.7	1120.5	2015.6	2939.1	3309.0	3637.7	4005.7
2.5°	327.6	445.1	563.6	830.3	1036.4	1145.0	2066.0	2990.7	3320.3	3637.4	3969.5
0°	340.9	450.0	570.8	849.4	1063.7	1165.0	2076.7	3002.1	3311.9	3629.4	3984.0
-2.5°	353.0	463.8	593.2	865.7	1064.9	1167.2	2066.5	2988.8	3349.2	3717.3	4140.8
-5°	360.4	474.9	611.6	873.9	1060.7	1165.8	2019.5	2935.5	3345.4	3718.8	4166.7
-7.5°	363.9	483.4	625.2	872.9	1046.1	1150.0	1894.6	2765.0	3213.9	3565.7	4035.2
-10°	365.1	493.7	634.1	854.4	1018.7	1123.5	1733.5	2562.7	3068.5	3398.0	3853.6
-12.5°	368.4	505.6	639.8	833.5	991.6	1093.3	1551.2	2332.8	2910.9	3218.3	3646.3
-15°	368.2	514.7	642.6	812.0	966.3	1059.6	1352.3	2079.1	2793.7	3184.1	3533.9
-17.5°	364.8	521.1	642.9	791.4	944.5	1022.3	1147.5	1855.1	2696.7	3170.1	3509.5
-20°	358.5	524.8	640.9	773.0	924.2	1006.6	1108.6	1638.0	2438.9	3120.2	3499.8



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	349.4	525.8	638.7	763.7	908.2	1011.6	1099.1	1400.1	2098.3	3037.3	3434.6
-25°	344.5	510.4	636.1	752.8	891.3	1017.7	1089.3	1180.7	1761.9	2620.4	3281.7
-27.5°	341.9	492.6	621.6	734.8	869.6	1016.2	1090.1	1167.5	1477.2	2144.4	3045.3
-30°	333.9	463.2	601.9	711.2	844.1	987.5	1097.3	1158.0	1244.8	1762.4	2497.7
-32.5°	317.2	432.4	569.6	685.6	810.7	954.0	1089.9	1157.7	1231.9	1385.4	1978.8
-35°	299.6	408.2	532.4	653.9	769.6	908.8	1041.6	1155.2	1219.4	1298.8	1564.1
-37.5°	285.6	381.0	494.5	615.0	729.2	854.3	988.1	1113.6	1209.7	1289.8	1390.9
-40°	268.0	350.8	459.9	572.8	684.5	800.2	925.3	1051.7	1172.9	1294.5	1386.6
-42.5°	246.8	327.4	423.7	529.8	636.9	748.0	859.8	981.7	1123.1	1276.1	1394.3
-45°	221.7	300.0	385.8	484.1	584.8	691.6	799.7	909.8	1058.9	1216.2	1364.4
-47.5°	193.4	268.6	350.4	435.0	530.0	629.6	734.9	850.0	980.8	1131.0	1292.5
-50°	163.5	233.3	309.6	388.1	472.9	565.0	662.3	778.6	901.6	1033.2	1179.0
-52.5°	135.3	194.5	265.1	340.1	416.9	499.3	590.5	694.6	810.0	932.4	1055.0
-55°	104.8	158.0	217.0	287.1	360.8	435.0	514.8	607.2	707.5	819.1	928.9
-57.5°	81.2	120.2	171.0	229.6	298.3	370.2	440.8	515.9	603.7	698.9	791.4
-60°	61.5	88.2	125.7	175.3	230.4	295.1	362.9	431.2	501.9	572.7	651.6
-62.5°	43.5	64.2	89.0	121.8	168.9	217.1	273.7	336.7	403.4	464.1	522.2
-65°	38.1	44.2	61.1	84.2	108.5	148.3	191.2	235.2	290.3	344.7	400.2
-67.5°	32.4	38.0	43.5	52.2	73.1	93.9	114.7	152.0	190.3	225.1	262.1
-70°	29.4	32.2	36.7	41.6	46.4	55.1	73.1	91.1	108.5	129.2	158.6
-72.5°	26.8	29.1	31.7	34.4	38.5	42.8	46.9	50.9	61.2	75.5	88.9
-75°	24.2	26.0	28.0	30.3	32.7	35.2	38.0	41.6	44.9	48.0	51.3
-77.5°	21.6	23.2	24.7	26.3	27.9	29.8	31.9	34.1	36.0	37.9	39.8
-80°	19.2	20.3	21.7	23.0	24.1	25.2	26.4	27.7	28.8	29.8	31.1
-82.5°	17.3	18.0	18.8	19.7	20.4	21.0	21.6	22.3	23.4	24.4	25.2
-85°	15.3	15.6	16.0	16.4	17.2	17.9	18.5	19.1	19.6	20.1	20.7
-87.5°	13.5	13.6	13.8	13.9	14.5	15.2	15.8	16.4	16.6	16.8	17.0
-90°	3.4	2.9	2.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	15.6	15.6	15.6	15.6	15.6	16.1	16.6	17.0	17.5	17.5	17.5
87.5°	1.9	1.8	1.8	1.7	1.7	1.3	0.9	0.5	0.0	0.0	0.0
85°	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	2.5	2.5	2.4	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	4.2	3.8	3.4	2.8	2.1	1.9	1.9	1.9	1.9	1.9	1.9
75°	5.6	5.5	5.3	4.8	4.0	3.8	3.8	3.8	3.6	3.6	3.7
72.5°	11.8	11.7	11.0	10.1	8.7	8.0	7.9	7.6	7.1	6.8	6.6
70°	21.5	20.8	19.6	17.4	14.5	12.5	11.4	10.0	8.4	7.7	7.7
67.5°	31.0	27.8	25.2	22.2	18.2	15.0	13.2	11.5	9.9	9.1	8.7
65°	35.9	28.7	23.9	20.1	17.3	14.6	12.6	10.8	9.2	8.2	8.0
62.5°	33.0	23.9	18.9	15.8	13.3	11.5	10.1	8.7	7.3	6.5	6.8
60°	26.9	18.4	14.1	12.4	10.9	9.8	8.5	7.4	6.4	5.9	6.5
57.5°	20.6	14.7	11.6	10.8	9.7	8.4	7.5	7.2	7.1	7.1	7.5
55°	15.3	13.0	11.7	10.4	9.1	8.2	7.9	8.1	8.1	7.8	7.8
52.5°	13.1	12.0	10.6	9.4	9.2	9.3	9.6	9.2	9.0	9.0	9.2
50°	12.7	11.7	10.7	9.7	10.0	10.1	9.8	10.1	10.7	10.9	11.1
47.5°	13.8	13.0	13.7	11.5	12.0	13.4	13.5	13.8	15.5	16.3	16.6
45°	18.1	22.1	22.1	20.4	19.6	28.4	29.0	24.3	39.6	38.0	26.8
42.5°	33.6	35.7	35.8	44.7	60.5	68.9	91.4	127.2	119.2	92.6	56.0
40°	55.6	52.9	64.4	82.7	101.1	122.8	153.6	214.5	204.2	163.4	179.6
37.5°	96.0	96.0	101.5	126.9	134.0	115.4	164.0	158.4	126.2	177.5	187.8
35°	175.5	193.1	163.9	203.2	208.5	191.8	201.1	222.3	192.3	230.2	246.3
32.5°	315.1	347.7	352.0	361.6	390.6	412.9	406.6	458.5	461.1	510.1	577.2
30°	503.7	571.2	641.2	652.1	688.3	746.9	776.5	881.0	991.7	1064.2	1197.4
27.5°	885.4	902.1	1042.8	1153.6	1109.6	1197.4	1417.4	1544.9	1756.5	1882.6	2016.7
25°	1422.1	1468.0	1666.3	1870.5	1897.7	1978.0	2297.6	2480.0	2698.1	2825.4	3101.8
22.5°	2103.1	2301.1	2519.4	2788.0	2898.1	3086.8	3397.5	3665.0	4119.3	4681.5	5892.8
20°	2861.9	3159.4	3452.7	3688.7	3915.9	4215.9	4593.9	5884.9	7414.5	12023.3	15203.3
17.5°	3511.1	3998.4	4278.8	4507.2	4792.4	5371.3	6871.8	10676.0	18012.0	28273.1	37665.7
15°	4015.9	4471.0	4921.9	5208.3	5653.9	6935.2	9988.2	19318.0	34519.4	51840.8	72801.4
12.5°	4416.1	4794.0	5172.7	5594.1	6417.7	8914.7	16682.3	31090.5	53195.9	81195.1	118354.5
10°	4632.3	5010.4	5375.9	5975.8	7500.2	12047.1	22933.1	41934.1	76628.5	120356.8	167713.9
7.5°	4630.8	5091.7	5543.7	6275.3	8603.5	15790.1	30296.3	56008.4	97046.0	151868.9	212836.8
5°	4628.3	5186.1	5659.5	6485.2	9293.6	18344.5	34866.8	63803.0	113670.9	175538.7	240820.4
2.5°	4673.2	5287.0	5734.4	6623.4	9613.3	19715.2	37402.1	69959.4	125293.9	189011.2	258769.7
0°	4778.8	5376.9	5778.3	6637.4	9575.2	19997.9	37697.0	71448.9	129767.2	197461.0	269045.3
-2.5°	4953.6	5364.0	5753.4	6581.4	9447.5	19414.5	37008.2	70149.6	124583.8	188058.3	257338.6
-5°	4848.4	5179.8	5524.3	6269.2	8821.0	17369.7	33336.2	62772.4	109265.3	166265.6	225613.8
-7.5°	4578.3	4914.2	5233.3	5875.7	7917.8	14334.0	27269.4	50426.6	86740.6	131132.2	177746.4
-10°	4332.1	4633.3	4933.7	5447.6	6765.3	10513.5	19513.6	35687.7	63330.6	96794.1	132416.9
-12.5°	4142.5	4395.6	4626.9	4971.3	5704.1	7797.6	14196.4	26200.7	42527.7	63832.3	89902.9
-15°	3975.7	4172.4	4342.7	4674.0	5218.7	6312.4	8845.9	15703.8	25877.2	39301.3	53536.8
-17.5°	3821.4	4010.1	4211.1	4463.6	4806.5	5331.6	6787.0	9671.6	15540.7	24309.8	32705.4
-20°	3742.5	3973.4	4146.2	4343.7	4634.7	5038.2	5549.6	6980.6	9399.6	14788.8	20247.7



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3680.2	3900.4	4097.6	4326.8	4625.7	4944.1	5220.2	5657.2	6798.5	8491.0	11309.0
-25°	3604.4	3821.4	4113.1	4446.7	4703.5	4944.2	5084.3	5175.4	5665.2	6148.9	7227.8
-27.5°	3460.5	3804.4	4232.7	4592.8	4869.1	5018.6	5131.4	5205.2	5498.8	5787.3	6101.2
-30°	3331.8	3859.1	4321.5	4740.3	4980.8	5163.3	5310.4	5443.5	5646.4	5890.7	6004.9
-32.5°	2875.2	3844.2	4358.6	4744.1	4991.3	5206.7	5433.3	5556.3	5735.0	5913.9	6058.2
-35°	2258.4	3243.2	4318.4	4539.2	4784.6	5065.4	5337.7	5512.6	5694.6	5878.8	6048.7
-37.5°	1691.7	2428.3	3300.3	4097.8	4427.1	4714.6	5048.8	5318.3	5556.5	5757.4	5950.9
-40°	1482.8	1682.7	2324.2	2957.6	3630.3	4247.8	4578.2	4938.9	5297.4	5545.6	5766.4
-42.5°	1480.5	1557.1	1622.6	2047.1	2564.7	3095.7	3657.6	4181.3	4764.5	5173.1	5483.2
-45°	1490.0	1549.6	1610.7	1672.2	1728.6	2119.3	2529.1	2944.6	3553.1	4157.2	4679.4
-47.5°	1419.1	1534.0	1607.2	1666.2	1722.0	1776.9	1830.5	1942.6	2331.5	2743.3	3119.6
-50°	1306.6	1425.1	1534.0	1643.1	1707.2	1761.4	1819.7	1883.7	1946.0	2009.2	2051.3
-52.5°	1168.7	1285.3	1398.6	1502.2	1595.5	1687.2	1778.9	1853.3	1919.8	1984.6	2016.8
-55°	1036.7	1141.7	1245.0	1336.1	1427.1	1517.5	1608.8	1699.4	1789.5	1877.9	1923.2
-57.5°	890.3	992.2	1089.4	1166.1	1243.4	1320.5	1403.3	1488.5	1570.7	1646.0	1685.7
-60°	735.0	822.3	905.5	980.0	1052.4	1122.0	1192.3	1263.3	1332.9	1394.1	1430.0
-62.5°	580.4	647.9	717.2	782.1	843.8	903.2	967.3	1028.5	1086.3	1135.1	1169.0
-65°	454.4	504.8	549.2	594.1	639.8	692.0	744.8	794.8	841.5	880.2	909.2
-67.5°	308.6	354.8	395.5	433.7	468.8	504.4	542.2	578.6	613.1	641.6	664.0
-70°	186.6	212.6	235.8	261.6	292.2	322.2	352.1	379.8	405.0	425.6	442.0
-72.5°	101.4	112.4	124.3	142.8	159.9	176.9	193.7	209.1	223.1	235.5	246.2
-75°	54.5	59.3	67.8	75.6	82.4	89.3	96.0	102.1	107.6	112.1	115.9
-77.5°	42.1	44.4	46.5	48.4	50.0	51.5	52.9	54.3	55.7	57.0	58.2
-80°	32.4	33.9	35.5	37.0	38.4	39.4	40.3	41.0	41.5	42.4	43.2
-82.5°	26.0	26.7	27.4	28.2	29.0	29.8	30.5	31.3	32.1	32.4	32.7
-85°	21.2	21.5	21.8	22.1	22.3	22.6	22.8	23.0	23.1	23.2	23.3
-87.5°	17.2	17.2	17.2	17.3	17.3	17.8	18.4	18.9	19.4	19.5	19.5
-90°	1.9	1.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.0
87.5°	0.0	0.0	0.9	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.5
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.7	3.6	3.6	3.8
72.5°	6.2	5.8	5.8	5.8	5.8	5.8	6.2	6.6	6.8	7.1	7.6
70°	7.7	7.7	7.8	7.8	7.8	7.7	7.7	7.7	7.7	8.4	10.0
67.5°	8.3	7.9	6.9	5.8	6.9	7.9	8.3	8.7	9.1	9.9	11.5
65°	7.9	7.8	6.9	5.8	6.9	7.8	7.9	8.0	8.2	9.2	10.8
62.5°	7.2	7.7	6.9	5.8	6.9	7.7	7.2	6.8	6.5	7.3	8.7
60°	7.1	7.6	7.8	7.8	7.8	7.6	7.1	6.5	5.9	6.4	7.4
57.5°	7.7	7.8	7.8	7.8	7.8	7.8	7.7	7.5	7.1	7.1	7.2
55°	7.8	7.8	8.5	9.7	8.5	7.8	7.8	7.8	7.8	8.1	8.1
52.5°	9.4	9.6	9.7	9.7	9.7	9.6	9.4	9.2	9.0	9.0	9.2
50°	11.4	11.6	11.7	11.7	11.7	11.6	11.4	11.1	10.9	10.7	10.1
47.5°	16.5	15.9	15.5	15.6	15.5	15.9	16.5	16.6	16.3	15.5	13.8
45°	27.2	27.1	27.0	27.3	27.0	27.1	27.2	26.8	38.0	39.6	24.3
42.5°	54.5	49.1	44.9	46.8	44.9	49.1	54.5	56.0	92.6	119.2	127.2
40°	160.3	110.1	63.8	64.3	63.8	110.1	160.3	179.6	163.4	204.2	214.5
37.5°	149.8	120.8	109.0	107.1	109.0	120.8	149.8	187.8	177.5	126.2	158.4
35°	247.2	245.7	234.9	233.8	234.9	245.7	247.2	246.3	230.2	192.3	222.3
32.5°	603.1	627.8	619.8	609.8	619.8	627.8	603.1	577.2	510.1	461.1	458.5
30°	1260.6	1315.5	1304.4	1334.5	1304.4	1315.5	1260.6	1197.4	1064.2	991.7	881.0
27.5°	2090.9	2126.8	2089.6	2078.7	2089.6	2126.8	2090.9	2016.7	1882.6	1756.5	1544.9
25°	3290.8	3360.4	3392.4	3458.0	3392.4	3360.4	3290.8	3101.8	2825.4	2698.1	2480.0
22.5°	7398.8	7830.0	7608.5	7410.8	7608.5	7830.0	7398.8	5892.8	4681.5	4119.3	3665.0
20°	21713.4	25548.4	25265.7	24761.2	25265.7	25548.4	21713.4	15203.3	12023.3	7414.5	5884.9
17.5°	52357.4	64139.1	71476.4	75337.4	71476.4	64139.1	52357.4	37665.7	28273.1	18012.0	10676.0
15°	97677.0	117493.9	129129.4	135728.5	129129.4	117493.9	97677.0	72801.4	51840.8	34519.4	19318.0
12.5°	154078.8	185139.1	205744.7	209683.7	205744.7	185139.1	154078.8	118354.5	81195.1	53195.9	31090.5
10°	216184.8	255966.0	288774.3	300739.9	288774.3	255966.0	216184.8	167713.9	120356.8	76628.5	41934.1
7.5°	269225.4	319990.6	363555.5	379050.3	363555.5	319990.6	269225.4	212836.8	151868.9	97046.0	56008.4
5°	307794.4	375136.4	414569.9	425210.0	414569.9	375136.4	307794.4	240820.4	175538.7	113670.9	63803.0
2.5°	339189.6	403113.9	445392.0	467190.0	445392.0	403113.9	339189.6	258769.7	189011.2	125293.9	69959.4
0°	352993.5	414425.0	460021.7	492002.8	460021.7	414425.0	352993.5	269045.3	197461.0	129767.2	71448.9
-2.5°	336029.6	398851.9	431287.1	445304.4	431287.1	398851.9	336029.6	257338.6	188058.3	124583.8	70149.6
-5°	285695.4	344916.7	377516.5	387873.5	377516.5	344916.7	285695.4	225613.8	166265.6	109265.3	62772.4
-7.5°	222854.3	263882.8	292009.0	301811.4	292009.0	263882.8	222854.3	177746.4	131132.2	86740.6	50426.6
-10°	167804.5	197228.9	212301.3	217395.5	212301.3	197228.9	167804.5	132416.9	96794.1	63330.6	35687.7
-12.5°	115223.7	137374.5	147117.4	153518.2	147117.4	137374.5	115223.7	89902.9	63832.3	42527.7	26200.7
-15°	70877.2	85317.9	92989.7	97369.2	92989.7	85317.9	70877.2	53536.8	39301.3	25877.2	15703.8
-17.5°	43061.6	50911.2	55995.3	58298.8	55995.3	50911.2	43061.6	32705.4	24309.8	15540.7	9671.6
-20°	26733.7	31960.1	34928.7	36631.3	34928.7	31960.1	26733.7	20247.7	14788.8	9399.6	6980.6



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	15018.2	17885.9	19494.0	20054.4	19494.0	17885.9	15018.2	11309.0	8491.0	6798.5	5657.2
-25°	8351.5	9081.4	9400.7	9475.9	9400.7	9081.4	8351.5	7227.8	6148.9	5665.2	5175.4
-27.5°	6373.3	6528.9	6627.5	6656.9	6627.5	6528.9	6373.3	6101.2	5787.3	5498.8	5205.2
-30°	6113.4	6129.7	6156.8	6152.3	6156.8	6129.7	6113.4	6004.9	5890.7	5646.4	5443.5
-32.5°	6159.8	6165.8	6171.3	6162.0	6171.3	6165.8	6159.8	6058.2	5913.9	5735.0	5556.3
-35°	6141.4	6159.1	6172.9	6179.6	6172.9	6159.1	6141.4	6048.7	5878.8	5694.6	5512.6
-37.5°	6027.9	6052.2	6064.1	6052.9	6064.1	6052.2	6027.9	5950.9	5757.4	5556.5	5318.3
-40°	5819.4	5837.0	5838.1	5828.9	5838.1	5837.0	5819.4	5766.4	5545.6	5297.4	4938.9
-42.5°	5577.7	5639.2	5668.3	5669.2	5668.3	5639.2	5577.7	5483.2	5173.1	4764.5	4181.3
-45°	5010.5	5267.2	5419.6	5456.8	5419.6	5267.2	5010.5	4679.4	4157.2	3553.1	2944.6
-47.5°	3420.4	3675.5	3841.4	3904.1	3841.4	3675.5	3420.4	3119.6	2743.3	2331.5	1942.6
-50°	2081.9	2112.9	2126.5	2123.5	2126.5	2112.9	2081.9	2051.3	2009.2	1946.0	1883.7
-52.5°	2041.6	2066.0	2081.1	2088.4	2081.1	2066.0	2041.6	2016.8	1984.6	1919.8	1853.3
-55°	1960.4	1991.0	2006.7	2010.5	2006.7	1991.0	1960.4	1923.2	1877.9	1789.5	1699.4
-57.5°	1719.0	1745.6	1760.9	1767.0	1760.9	1745.6	1719.0	1685.7	1646.0	1570.7	1488.5
-60°	1459.1	1481.4	1491.2	1492.3	1491.2	1481.4	1459.1	1430.0	1394.1	1332.9	1263.3
-62.5°	1197.1	1219.4	1226.7	1225.4	1226.7	1219.4	1197.1	1169.0	1135.1	1086.3	1028.5
-65°	933.4	952.7	956.5	952.7	956.5	952.7	933.4	909.2	880.2	841.5	794.8
-67.5°	682.9	698.0	702.3	701.3	702.3	698.0	682.9	664.0	641.6	613.1	578.6
-70°	455.1	464.8	464.5	459.8	464.5	464.8	455.1	442.0	425.6	405.0	379.8
-72.5°	255.4	262.7	268.7	272.7	268.7	262.7	255.4	246.2	235.5	223.1	209.1
-75°	118.9	121.2	124.2	126.6	124.2	121.2	118.9	115.9	112.1	107.6	102.1
-77.5°	59.2	60.1	61.2	62.3	61.2	60.1	59.2	58.2	57.0	55.7	54.3
-80°	43.9	44.6	44.8	44.8	44.8	44.6	43.9	43.2	42.4	41.5	41.0
-82.5°	32.8	33.0	33.1	33.1	33.1	33.0	32.8	32.7	32.4	32.1	31.3
-85°	23.3	23.4	24.3	25.3	24.3	23.4	23.3	23.3	23.2	23.1	23.0
-87.5°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.4	18.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	16.6	16.1	15.6	15.6	15.6	15.6	15.6	15.1	14.6	14.1	13.6
87.5°	0.9	1.3	1.7	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9
85°	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.2	2.2	2.2
80°	1.9	1.9	1.9	2.2	2.4	2.5	2.5	2.8	3.1	3.4	3.6
77.5°	1.9	1.9	2.1	2.8	3.4	3.8	4.2	4.4	4.6	4.8	4.9
75°	3.8	3.8	4.0	4.8	5.3	5.5	5.6	5.5	5.5	5.6	5.8
72.5°	7.9	8.0	8.7	10.1	11.0	11.7	11.8	11.0	9.6	7.4	5.8
70°	11.4	12.5	14.5	17.4	19.6	20.8	21.5	21.1	19.1	17.0	13.0
67.5°	13.2	15.0	18.2	22.2	25.2	27.8	31.0	34.1	34.4	32.2	23.2
65°	12.6	14.6	17.3	20.1	23.9	28.7	35.9	40.3	43.1	44.3	36.5
62.5°	10.1	11.5	13.3	15.8	18.9	23.9	33.0	40.7	47.2	48.6	41.1
60°	8.5	9.8	10.9	12.4	14.1	18.4	26.9	36.8	48.1	46.9	42.0
57.5°	7.5	8.4	9.7	10.8	11.6	14.7	20.6	28.7	39.1	40.2	38.6
55°	7.9	8.2	9.1	10.4	11.7	13.0	15.3	20.4	27.7	30.0	30.5
52.5°	9.6	9.3	9.2	9.4	10.6	12.0	13.1	15.8	18.3	21.5	23.3
50°	9.8	10.1	10.0	9.7	10.7	11.7	12.7	13.6	15.0	16.6	17.8
47.5°	13.5	13.4	12.0	11.5	13.7	13.0	13.8	14.5	15.3	14.9	15.8
45°	29.0	28.4	19.6	20.4	22.1	22.1	18.1	19.4	18.7	17.5	15.5
42.5°	91.4	68.9	60.5	44.7	35.8	35.7	33.6	30.8	28.1	23.2	22.2
40°	153.6	122.8	101.1	82.7	64.4	52.9	55.6	47.3	42.3	36.0	35.8
37.5°	164.0	115.4	134.0	126.9	101.5	96.0	96.0	79.9	58.9	71.2	70.2
35°	201.1	191.8	208.5	203.2	163.9	193.1	175.5	137.3	115.6	128.6	120.7
32.5°	406.6	412.9	390.6	361.6	352.0	347.7	315.1	242.6	230.7	221.7	194.9
30°	776.5	746.9	688.3	652.1	641.2	571.2	503.7	508.8	439.5	340.4	291.0
27.5°	1417.4	1197.4	1109.6	1153.6	1042.8	902.1	885.4	898.4	724.8	549.3	419.6
25°	2297.6	1978.0	1897.7	1870.5	1666.3	1468.0	1422.1	1363.5	1164.1	824.9	579.8
22.5°	3397.5	3086.8	2898.1	2788.0	2519.4	2301.1	2103.1	1887.5	1685.3	1234.8	859.9
20°	4593.9	4215.9	3915.9	3688.7	3452.7	3159.4	2861.9	2490.4	2173.4	1745.4	1199.8
17.5°	6871.8	5371.3	4792.4	4507.2	4278.8	3998.4	3511.1	3030.1	2656.7	2280.4	1574.9
15°	9988.2	6935.2	5653.9	5208.3	4921.9	4471.0	4015.9	3503.7	3131.3	2764.1	1999.3
12.5°	16682.3	8914.7	6417.7	5594.1	5172.7	4794.0	4416.1	3952.5	3505.5	3022.5	2302.0
10°	22933.1	12047.1	7500.2	5975.8	5375.9	5010.4	4632.3	4095.6	3589.2	3159.5	2559.2
7.5°	30296.3	15790.1	8603.5	6275.3	5543.7	5091.7	4630.8	4081.1	3631.2	3252.5	2771.4
5°	34866.8	18344.5	9293.6	6485.2	5659.5	5186.1	4628.3	4005.7	3637.7	3309.0	2939.1
2.5°	37402.1	19715.2	9613.3	6623.4	5734.4	5287.0	4673.2	3969.5	3637.4	3320.3	2990.7
0°	37697.0	19997.9	9575.2	6637.4	5778.3	5376.9	4778.8	3984.0	3629.4	3311.9	3002.1
-2.5°	37008.2	19414.5	9447.5	6581.4	5753.4	5364.0	4953.6	4140.8	3717.3	3349.2	2988.8
-5°	33336.2	17369.7	8821.0	6269.2	5524.3	5179.8	4848.4	4166.7	3718.8	3345.4	2935.5
-7.5°	27269.4	14334.0	7917.8	5875.7	5233.3	4914.2	4578.3	4035.2	3565.7	3213.9	2765.0
-10°	19513.6	10513.5	6765.3	5447.6	4933.7	4633.3	4332.1	3853.6	3398.0	3068.5	2562.7
-12.5°	14196.4	7797.6	5704.1	4971.3	4626.9	4395.6	4142.5	3646.3	3218.3	2910.9	2332.8
-15°	8845.9	6312.4	5218.7	4674.0	4342.7	4172.4	3975.7	3533.9	3184.1	2793.7	2079.1
-17.5°	6787.0	5331.6	4806.5	4463.6	4211.1	4010.1	3821.4	3509.5	3170.1	2696.7	1855.1
-20°	5549.6	5038.2	4634.7	4343.7	4146.2	3973.4	3742.5	3499.8	3120.2	2438.9	1638.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5220.2	4944.1	4625.7	4326.8	4097.6	3900.4	3680.2	3434.6	3037.3	2098.3	1400.1
-25°	5084.3	4944.2	4703.5	4446.7	4113.1	3821.4	3604.4	3281.7	2620.4	1761.9	1180.7
-27.5°	5131.4	5018.6	4869.1	4592.8	4232.7	3804.4	3460.5	3045.3	2144.4	1477.2	1167.5
-30°	5310.4	5163.3	4980.8	4740.3	4321.5	3859.1	3331.8	2497.7	1762.4	1244.8	1158.0
-32.5°	5433.3	5206.7	4991.3	4744.1	4358.6	3844.2	2875.2	1978.8	1385.4	1231.9	1157.7
-35°	5337.7	5065.4	4784.6	4539.2	4318.4	3243.2	2258.4	1564.1	1298.8	1219.4	1155.2
-37.5°	5048.8	4714.6	4427.1	4097.8	3300.3	2428.3	1691.7	1390.9	1289.8	1209.7	1113.6
-40°	4578.2	4247.8	3630.3	2957.6	2324.2	1682.7	1482.8	1386.6	1294.5	1172.9	1051.7
-42.5°	3657.6	3095.7	2564.7	2047.1	1622.6	1557.1	1480.5	1394.3	1276.1	1123.1	981.7
-45°	2529.1	2119.3	1728.6	1672.2	1610.7	1549.6	1490.0	1364.4	1216.2	1058.9	909.8
-47.5°	1830.5	1776.9	1722.0	1666.2	1607.2	1534.0	1419.1	1292.5	1131.0	980.8	850.0
-50°	1819.7	1761.4	1707.2	1643.1	1534.0	1425.1	1306.6	1179.0	1033.2	901.6	778.6
-52.5°	1778.9	1687.2	1595.5	1502.2	1398.6	1285.3	1168.7	1055.0	932.4	810.0	694.6
-55°	1608.8	1517.5	1427.1	1336.1	1245.0	1141.7	1036.7	928.9	819.1	707.5	607.2
-57.5°	1403.3	1320.5	1243.4	1166.1	1089.4	992.2	890.3	791.4	698.9	603.7	515.9
-60°	1192.3	1122.0	1052.4	980.0	905.5	822.3	735.0	651.6	572.7	501.9	431.2
-62.5°	967.3	903.2	843.8	782.1	717.2	647.9	580.4	522.2	464.1	403.4	336.7
-65°	744.8	692.0	639.8	594.1	549.2	504.8	454.4	400.2	344.7	290.3	235.2
-67.5°	542.2	504.4	468.8	433.7	395.5	354.8	308.6	262.1	225.1	190.3	152.0
-70°	352.1	322.2	292.2	261.6	235.8	212.6	186.6	158.6	129.2	108.5	91.1
-72.5°	193.7	176.9	159.9	142.8	124.3	112.4	101.4	88.9	75.5	61.2	50.9
-75°	96.0	89.3	82.4	75.6	67.8	59.3	54.5	51.3	48.0	44.9	41.6
-77.5°	52.9	51.5	50.0	48.4	46.5	44.4	42.1	39.8	37.9	36.0	34.1
-80°	40.3	39.4	38.4	37.0	35.5	33.9	32.4	31.1	29.8	28.8	27.7
-82.5°	30.5	29.8	29.0	28.2	27.4	26.7	26.0	25.2	24.4	23.4	22.3
-85°	22.8	22.6	22.3	22.1	21.8	21.5	21.2	20.7	20.1	19.6	19.1
-87.5°	18.4	17.8	17.3	17.3	17.2	17.2	17.2	17.0	16.8	16.6	16.4
-90°	0.0	0.0	0.0	0.5	1.0	1.4	1.9	1.9	1.9	1.9	1.9





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	13.1	12.7	12.2	11.7	11.7	11.7	11.7	11.7	11.2	10.7	10.2
87.5°	2.2	2.5	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.2	4.3
85°	2.4	2.9	3.4	3.9	3.9	3.9	3.9	3.9	4.3	4.6	4.8
82.5°	2.5	2.9	3.4	3.9	4.2	4.4	4.5	4.4	4.6	4.9	5.2
80°	3.5	3.5	3.7	4.0	4.5	4.9	5.2	5.2	5.1	5.2	5.5
77.5°	4.6	4.3	4.0	4.0	4.5	5.0	5.4	5.8	5.7	5.5	5.6
75°	5.8	5.5	5.1	4.8	4.8	5.0	5.5	5.8	5.8	5.8	5.7
72.5°	5.8	5.8	5.8	5.8	5.5	5.4	5.6	5.8	5.8	5.8	5.8
70°	9.1	6.4	5.8	5.8	5.8	5.8	5.7	5.9	5.8	5.8	5.8
67.5°	14.8	10.4	7.4	6.1	5.8	5.8	5.8	6.0	6.1	5.8	5.8
65°	25.9	16.8	9.5	7.9	6.5	5.8	5.8	6.2	6.4	6.2	5.8
62.5°	33.5	25.2	16.6	10.8	7.9	6.6	5.8	6.3	6.8	6.7	6.2
60°	37.1	29.3	23.0	16.6	10.9	7.6	6.6	6.4	6.9	7.2	6.7
57.5°	34.2	31.3	26.7	21.3	15.3	9.9	7.5	7.0	6.9	7.4	7.3
55°	29.2	27.3	28.5	24.7	19.0	13.2	9.2	7.8	7.2	7.5	7.8
52.5°	23.0	24.6	27.2	26.7	22.0	16.2	11.9	8.6	7.9	7.6	8.0
50°	18.4	22.1	26.0	27.2	24.6	19.3	14.3	10.6	8.6	7.8	8.1
47.5°	17.0	20.6	24.1	27.8	26.4	22.2	16.9	12.4	9.3	8.4	8.2
45°	18.8	20.2	23.0	26.3	28.7	24.5	19.5	14.0	10.7	9.1	8.3
42.5°	23.0	23.2	23.3	25.1	28.2	26.5	22.0	16.1	11.9	9.8	8.7
40°	32.9	29.4	25.5	27.6	28.2	28.3	23.8	18.3	12.9	10.7	9.3
37.5°	45.9	39.8	32.8	34.6	30.7	29.1	25.4	20.3	14.5	11.8	10.0
35°	88.7	54.3	55.8	51.4	40.4	30.6	27.0	22.0	16.8	12.9	10.7
32.5°	143.9	104.5	103.0	79.4	53.5	32.8	28.6	24.4	19.2	14.0	11.4
30°	236.1	217.3	171.2	114.7	73.8	45.0	31.7	27.0	21.6	15.0	12.2
27.5°	381.5	351.5	264.3	177.7	107.6	60.9	37.3	29.7	24.1	16.4	13.1
25°	528.5	490.4	393.5	261.1	146.3	94.5	44.2	32.7	26.4	18.3	13.9
22.5°	675.4	625.6	536.8	357.2	204.7	137.8	61.7	38.0	28.7	20.2	14.6
20°	815.7	760.0	680.8	437.6	275.7	189.3	93.4	44.0	31.1	22.1	15.4
17.5°	978.7	862.2	743.1	522.2	346.3	241.0	130.0	50.5	33.5	23.9	16.0
15°	1229.5	923.5	799.6	597.5	407.5	292.4	170.2	57.4	35.8	25.6	16.7
12.5°	1457.4	980.6	855.3	663.6	460.0	343.1	212.8	64.5	38.1	27.1	17.3
10°	1670.4	1033.5	909.3	720.8	504.9	392.5	256.4	71.8	41.0	28.3	17.8
7.5°	1863.5	1082.1	960.5	769.1	539.8	424.7	285.8	79.0	44.1	29.3	18.3
5°	2015.6	1120.5	1002.7	803.5	553.2	436.9	309.1	85.8	47.1	30.1	18.8
2.5°	2066.0	1145.0	1036.4	830.3	563.6	445.1	327.6	92.0	50.0	30.7	19.2
0°	2076.7	1165.0	1063.7	849.4	570.8	450.0	340.9	97.4	52.6	31.2	19.5
-2.5°	2066.5	1167.2	1064.9	865.7	593.2	463.8	353.0	121.4	69.3	40.6	24.1
-5°	2019.5	1165.8	1060.7	873.9	611.6	474.9	360.4	144.1	85.2	49.7	28.4
-7.5°	1894.6	1150.0	1046.1	872.9	625.2	483.4	363.9	165.1	100.0	58.1	32.5
-10°	1733.5	1123.5	1018.7	854.4	634.1	493.7	365.1	184.0	113.4	65.6	36.2
-12.5°	1551.2	1093.3	991.6	833.5	639.8	505.6	368.4	200.2	124.9	72.1	39.3
-15°	1352.3	1059.6	966.3	812.0	642.6	514.7	368.2	213.3	134.7	78.4	41.8
-17.5°	1147.5	1022.3	944.5	791.4	642.9	521.1	364.8	223.2	142.8	84.7	44.7
-20°	1108.6	1006.6	924.2	773.0	640.9	524.8	358.5	229.6	149.2	89.5	47.5



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1099.1	1011.6	908.2	763.7	638.7	525.8	349.4	232.3	153.8	92.5	49.2
-25°	1089.3	1017.7	891.3	752.8	636.1	510.4	344.5	231.1	156.4	93.7	49.7
-27.5°	1090.1	1016.2	869.6	734.8	621.6	492.6	341.9	232.8	157.2	92.9	48.8
-30°	1097.3	987.5	844.1	711.2	601.9	463.2	333.9	232.3	156.1	91.4	46.5
-32.5°	1089.9	954.0	810.7	685.6	569.6	432.4	317.2	229.2	152.2	88.8	45.1
-35°	1041.6	908.8	769.6	653.9	532.4	408.2	299.6	223.4	145.5	84.1	43.4
-37.5°	988.1	854.3	729.2	615.0	494.5	381.0	285.6	209.6	135.9	77.2	40.7
-40°	925.3	800.2	684.5	572.8	459.9	350.8	268.0	192.6	125.6	68.3	36.9
-42.5°	859.8	748.0	636.9	529.8	423.7	327.4	246.8	172.7	111.3	61.2	32.2
-45°	799.7	691.6	584.8	484.1	385.8	300.0	221.7	150.8	94.9	54.6	28.6
-47.5°	734.9	629.6	530.0	435.0	350.4	268.6	193.4	130.2	76.8	46.5	27.4
-50°	662.3	565.0	472.9	388.1	309.6	233.3	163.5	107.4	65.8	37.0	26.1
-52.5°	590.5	499.3	416.9	340.1	265.1	194.5	135.3	83.8	53.7	32.4	24.5
-55°	514.8	435.0	360.8	287.1	217.0	158.0	104.8	68.8	40.6	30.1	22.8
-57.5°	440.8	370.2	298.3	229.6	171.0	120.2	81.2	52.6	35.2	27.5	22.2
-60°	362.9	295.1	230.4	175.3	125.7	88.2	61.5	39.8	31.9	25.1	21.5
-62.5°	273.7	217.1	168.9	121.8	89.0	64.2	43.5	35.5	28.3	24.0	20.6
-65°	191.2	148.3	108.5	84.2	61.1	44.2	38.1	31.0	26.4	22.9	19.7
-67.5°	114.7	93.9	73.1	52.2	43.5	38.0	32.4	28.3	24.8	21.6	18.7
-70°	73.1	55.1	46.4	41.6	36.7	32.2	29.4	26.4	23.2	20.3	17.7
-72.5°	46.9	42.8	38.5	34.4	31.7	29.1	26.8	24.3	21.5	18.9	16.6
-75°	38.0	35.2	32.7	30.3	28.0	26.0	24.2	22.1	19.7	17.5	15.5
-77.5°	31.9	29.8	27.9	26.3	24.7	23.2	21.6	19.9	17.9	16.2	14.4
-80°	26.4	25.2	24.1	23.0	21.7	20.3	19.2	18.1	16.5	15.0	13.3
-82.5°	21.6	21.0	20.4	19.7	18.8	18.0	17.3	16.6	15.1	13.7	12.4
-85°	18.5	17.9	17.2	16.4	16.0	15.6	15.3	15.0	13.8	12.7	11.7
-87.5°	15.8	15.2	14.5	13.9	13.8	13.6	13.5	13.3	12.5	11.7	10.9
-90°	1.9	1.9	1.9	1.9	2.4	2.9	3.4	3.9	3.9	3.9	3.9



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	9.7	9.2	8.8	8.3	7.8	6.8	5.8
87.5°	4.4	4.7	5.0	5.4	5.8	5.8	5.8
85°	4.9	5.0	5.2	5.5	5.8	5.9	5.8
82.5°	5.4	5.3	5.4	5.5	5.8	5.9	5.8
80°	5.8	5.6	5.5	5.6	5.8	6.0	5.8
77.5°	5.8	5.8	5.7	5.6	5.8	6.0	5.8
75°	5.9	6.0	5.8	5.7	5.8	6.1	5.8
72.5°	5.9	6.1	6.0	5.8	5.9	6.1	5.8
70°	6.0	6.3	6.2	5.8	5.9	6.2	5.8
67.5°	6.0	6.4	6.4	6.0	5.9	6.2	5.8
65°	6.1	6.5	6.6	6.2	6.0	6.3	5.8
62.5°	6.1	6.6	6.8	6.4	6.0	6.3	5.8
60°	6.2	6.6	7.1	6.6	6.1	6.4	5.8
57.5°	6.6	6.7	7.1	6.9	6.2	6.4	5.8
55°	7.1	6.7	7.2	7.1	6.4	6.5	5.8
52.5°	7.6	6.9	7.2	7.3	6.6	6.5	5.8
50°	8.1	7.3	7.3	7.5	6.7	6.6	5.8
47.5°	8.5	7.6	7.3	7.7	6.8	6.7	5.8
45°	8.6	8.0	7.4	7.7	7.0	6.7	5.8
42.5°	8.7	8.4	7.4	7.8	7.1	6.8	5.8
40°	8.8	8.8	7.6	7.8	7.2	6.8	5.8
37.5°	8.9	9.1	7.9	7.9	7.3	6.9	5.8
35°	9.0	9.3	8.2	7.9	7.4	7.0	5.8
32.5°	9.2	9.4	8.4	8.0	7.5	7.0	5.8
30°	9.8	9.4	8.7	8.1	7.5	7.1	5.8
27.5°	10.4	9.5	8.9	8.2	7.6	7.2	5.8
25°	11.0	9.6	9.1	8.3	7.6	7.2	5.8
22.5°	11.5	9.7	9.2	8.4	7.7	7.3	5.8
20°	12.1	9.9	9.4	8.6	7.7	7.4	5.8
17.5°	12.7	10.1	9.5	8.7	7.7	7.4	5.8
15°	13.2	10.3	9.6	8.8	7.8	7.5	5.8
12.5°	13.7	10.5	9.6	9.0	7.8	7.5	5.8
10°	14.2	10.7	9.7	9.1	7.8	7.6	5.8
7.5°	14.6	11.0	9.7	9.3	7.8	7.7	5.8
5°	15.0	11.2	9.7	9.4	7.8	7.7	5.8
2.5°	15.3	11.5	9.7	9.6	7.8	7.8	5.8
0°	15.6	11.7	9.7	9.7	7.8	7.8	5.8
-2.5°	17.1	12.3	10.0	9.8	7.9	7.8	5.8
-5°	18.6	12.9	10.4	9.9	8.0	7.9	5.8
-7.5°	20.0	13.5	10.7	10.0	8.0	7.9	5.8
-10°	21.2	14.0	11.0	10.1	8.1	7.9	5.8
-12.5°	22.2	14.5	11.3	10.2	8.2	8.0	5.8
-15°	23.1	14.9	11.6	10.3	8.3	8.0	5.8
-17.5°	23.7	15.3	11.9	10.3	8.4	8.0	5.8
-20°	24.5	15.6	12.1	10.4	8.5	8.0	5.8



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	25.4	15.8	12.3	10.4	8.5	8.0	5.8
-25°	25.8	16.1	12.4	10.4	8.6	8.0	5.8
-27.5°	25.6	16.3	12.5	10.4	8.7	8.0	5.8
-30°	24.8	16.4	12.6	10.4	8.8	8.0	5.8
-32.5°	23.3	16.4	12.8	10.4	8.8	8.0	5.8
-35°	22.7	16.2	12.9	10.3	8.9	8.0	5.8
-37.5°	22.5	16.1	12.9	10.3	9.0	8.0	5.8
-40°	22.1	16.2	13.0	10.2	9.0	8.0	5.8
-42.5°	21.5	16.2	13.0	10.2	9.1	7.9	5.8
-45°	20.8	16.1	12.9	10.1	9.1	7.9	5.8
-47.5°	19.9	16.0	12.8	10.1	9.2	7.9	5.8
-50°	19.5	15.9	12.7	10.1	9.3	7.8	5.8
-52.5°	19.2	15.7	12.5	10.2	9.3	7.8	5.8
-55°	18.9	15.4	12.3	10.3	9.4	7.7	5.8
-57.5°	18.4	15.1	12.1	10.3	9.4	7.7	5.8
-60°	17.9	14.7	11.9	10.3	9.4	7.6	5.8
-62.5°	17.3	14.2	11.8	10.3	9.3	7.6	5.8
-65°	16.7	13.8	11.6	10.2	9.2	7.5	5.8
-67.5°	16.0	13.3	11.4	10.2	9.1	7.5	5.8
-70°	15.2	12.9	11.2	10.1	9.0	7.4	5.8
-72.5°	14.4	12.4	11.0	9.9	8.9	7.3	5.8
-75°	13.6	11.9	10.7	9.7	8.7	7.3	5.8
-77.5°	12.7	11.4	10.4	9.5	8.6	7.2	5.8
-80°	11.8	10.9	10.1	9.3	8.4	7.1	5.8
-82.5°	11.2	10.5	9.7	9.0	8.3	7.0	5.8
-85°	10.7	10.1	9.4	8.8	8.1	7.0	5.8
-87.5°	10.2	9.7	9.1	8.5	8.0	6.9	5.8
-90°	3.9	4.4	4.9	5.3	5.8	5.8	5.8

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

