

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: P701636 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-3S-CV2-S**

Issue Date: 8/29/2023

**Test Information**

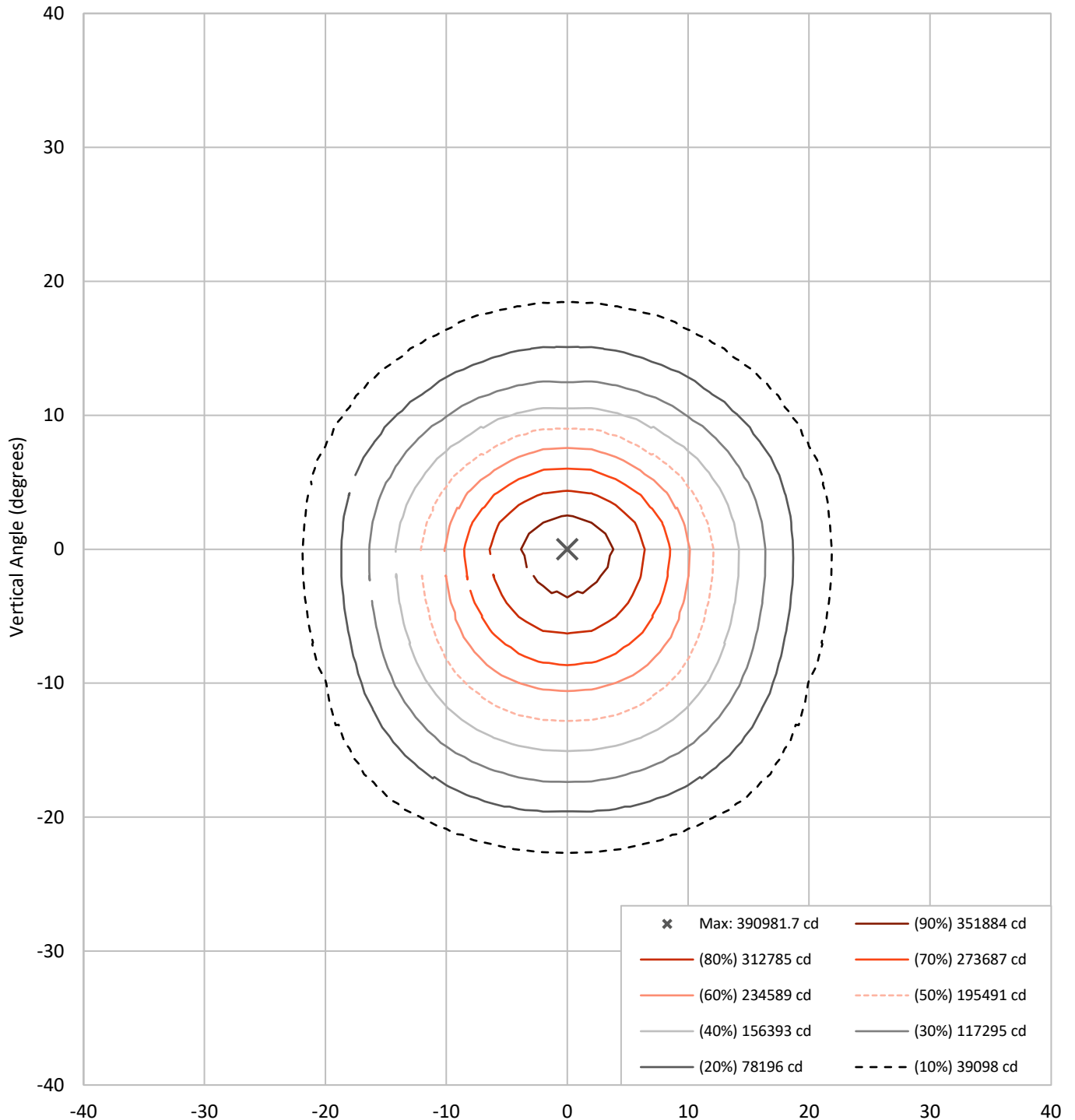
Test Method: LM-79-08  
Report Number: P701636 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-40-80-3S-CV2-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	77175.1 lumens	Max Intensity:	390981.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	110.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24.2°H x 21.8°V	Field Angle (10%):	43.8°H x 40.9°V
Beam Lumens:	34969.1 lumens	Field Lumens:	66176.2 lumens
Beam Efficiency:	45.3%	Field Efficiency:	85.7%
Input Watts (W):	697.5		
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





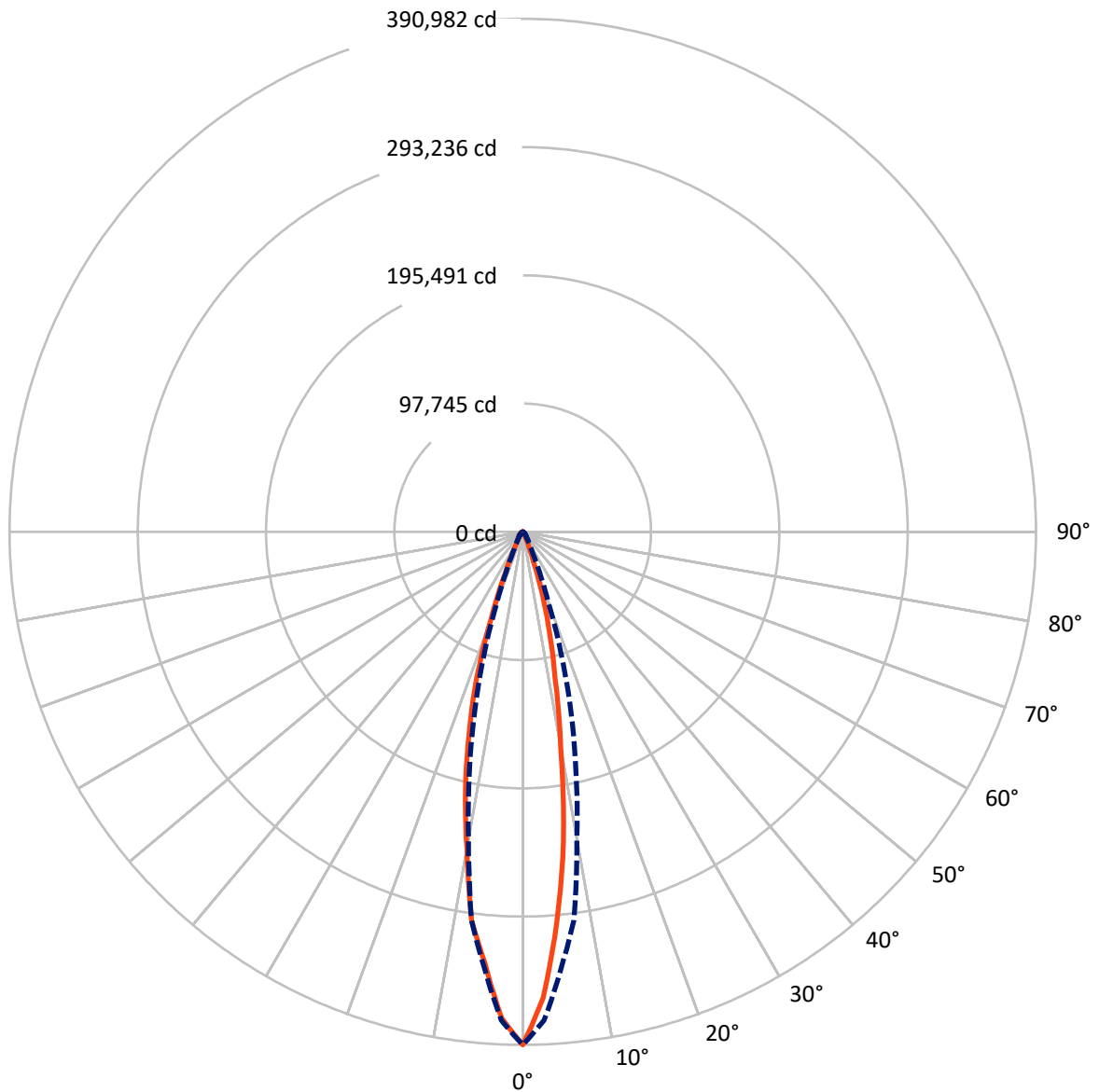
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### Lumen Table

90																			
80	0.2	0.6		0.8		0.7		0.5		0.7		0.8		0.6		0.2			
70	0.3	0.1	0.2	0.6	0.7	0.5	0.3	0.3	0.3	0.3	0.5	0.7	0.6	0.2	0.1	0.3			
60		0.2	0.4	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.4	0.2				
50	0.3	0.2	0.5	0.5	0.7	1.0	1.3	1.4	1.4	1.3	1.0	0.7	0.5	0.5	0.2	0.3			
40		0.2	1.0	2.1	4.2	6.5	8.2	10.0	10.0	8.2	6.5	4.2	2.1	1.0	0.2				
30	0.3	0.5	3.2	10.2	26.9	46.2	106.1	221.6	221.6	106.1	46.2	26.9	10.2	3.2	0.5	0.3			
20		1.0	7.6	27.3	67.6	185.3	973.9	2286.7	2286.7	973.9	185.3	67.6	27.3	7.6	1.0				
10	0.4	2.0	13.4	51.2	123.7	557.8	3361.6	7690.2	7690.2	3361.6	557.8	123.7	51.2	13.4	2.0	0.4			
0		3.4	17.8	61.9	142.0	602.0	3879.4	8742.1	8742.1	3879.4	602.0	142.0	61.9	17.8	3.4				
-10	0.7	3.9	18.1	58.9	130.4	350.9	1983.6	4343.1	4343.1	1983.6	350.9	130.4	58.9	18.1	3.9	0.7			
-20		3.7	15.0	38.5	89.8	158.3	363.7	741.0	741.0	363.7	158.3	89.8	38.5	15.0	3.7				
-30	0.5	3.2	10.9	23.6	52.1	93.1	128.8	155.9	155.9	128.8	93.1	52.1	23.6	10.9	3.2	0.5			
-40		2.2	7.6	16.5	29.9	51.4	83.5	108.6	108.6	83.5	51.4	29.9	16.5	7.6	2.2				
-50	0.3	1.1	4.7	10.9	19.5	29.4	38.3	44.0	44.0	38.3	29.4	19.5	10.9	4.7	1.1	0.3			
-60		0.4	1.8	5.5	11.0	17.6	24.3	28.3	28.3	24.3	17.6	11.0	5.5	1.8	0.4				
-70	0.2	1.1		3.8		10.7		15.3		10.7		3.8		1.1		0.2			
-80		1.1		3.8		10.7		15.3		10.7		3.8		1.1					
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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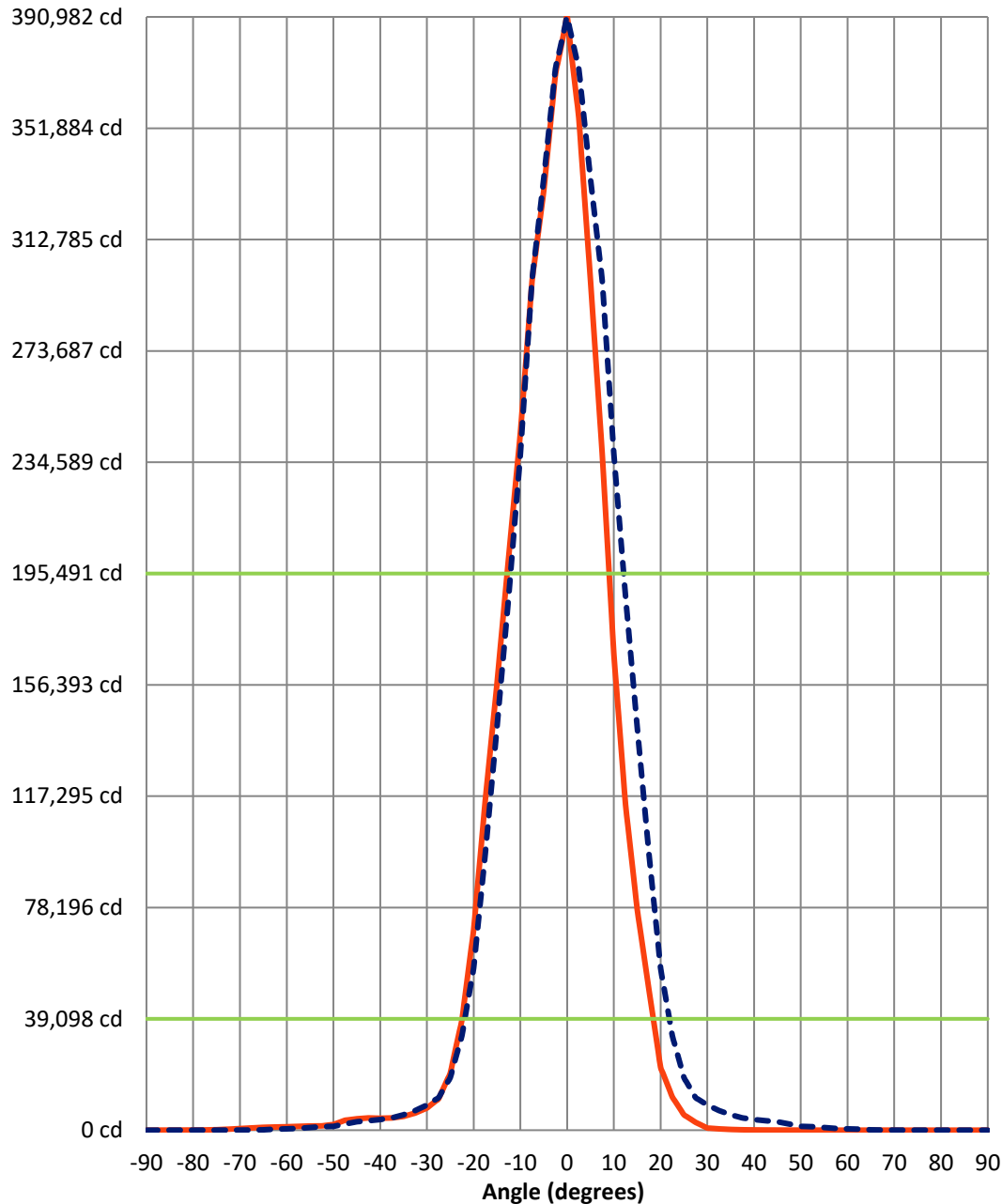
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 24.2°  
 V Angle: 21.8°  
 Lumens: 34969.1  
 Efficiency: 45.3%

**Field:**  
 H Angle: 43.8°  
 V Angle: 40.9°  
 Lumens: 66176.2  
 Efficiency: 85.7%

**Spill:**  
 Lumens: 10998.9  
 Efficiency: 14.3%

- 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°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.6	11.1	11.6	12.1
87.5°	10.1	10.1	10.3	10.3	10.3	10.2	10.1	10.1	10.1	10.1	10.1
85°	10.1	10.2	10.4	10.5	10.4	10.3	10.1	10.1	10.1	10.1	10.1
82.5°	10.1	10.2	10.6	10.7	10.6	10.4	10.1	10.1	10.1	10.2	10.1
80°	10.1	10.3	10.8	10.9	10.8	10.6	10.2	10.4	10.5	10.4	10.1
77.5°	10.1	10.3	10.9	11.1	11.0	10.8	10.7	10.9	10.9	10.6	10.2
75°	10.1	10.3	11.1	11.3	11.2	11.1	11.2	11.4	11.2	10.7	10.3
72.5°	10.1	10.4	11.2	11.5	11.4	11.4	11.7	11.8	11.3	10.8	10.3
70°	10.1	10.4	11.4	11.7	11.5	11.7	12.1	11.8	11.3	10.8	10.4
67.5°	10.1	10.5	11.5	11.8	11.7	12.0	12.1	11.9	11.4	10.9	10.4
65°	10.1	10.5	11.6	11.8	11.8	12.1	12.1	11.9	11.4	11.0	10.7
62.5°	10.1	10.5	11.7	11.9	12.0	12.1	12.1	12.0	11.5	11.1	11.4
60°	10.1	10.5	11.8	11.9	12.1	12.1	12.1	12.0	11.6	11.5	11.9
57.5°	10.1	10.6	11.8	12.0	12.1	12.1	12.1	12.1	11.8	11.9	12.1
55°	10.1	10.6	11.8	12.0	12.1	12.1	12.1	12.1	11.9	12.1	12.1
52.5°	10.1	10.6	11.8	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
50°	10.1	10.6	11.8	12.1	12.1	12.1	12.1	12.2	12.1	12.1	13.0
47.5°	10.1	10.6	11.8	12.1	12.1	12.1	12.1	12.4	12.1	12.1	13.9
45°	10.1	10.6	11.8	12.1	12.1	12.1	12.3	12.5	12.2	12.7	14.6
42.5°	10.1	10.6	11.8	12.1	12.1	12.1	12.5	12.7	12.3	13.3	15.4
40°	10.1	10.6	11.8	12.1	12.1	12.1	12.7	12.8	12.6	13.8	15.9
37.5°	10.1	10.6	11.8	12.1	12.1	12.1	12.9	12.9	13.2	14.4	16.2
35°	10.1	10.6	11.8	12.1	12.1	12.2	13.2	13.0	13.8	15.2	16.3
32.5°	10.1	10.6	11.8	12.1	12.1	12.4	13.5	13.2	14.3	16.2	17.7
30°	10.1	10.5	11.8	12.1	12.1	12.7	13.6	13.4	14.8	17.2	19.5
27.5°	10.1	10.5	11.9	12.1	12.1	12.9	13.7	13.8	15.5	18.4	21.7
25°	10.1	10.5	11.9	12.1	12.1	13.1	13.8	14.2	16.4	20.0	24.5
22.5°	10.1	10.5	11.9	12.1	12.1	13.3	13.9	14.6	17.3	22.0	29.8
20°	10.1	10.4	11.9	12.1	12.1	13.5	14.1	15.0	18.3	24.1	35.0
17.5°	10.1	10.4	12.0	12.1	12.1	13.6	14.2	15.3	19.2	26.5	40.1
15°	10.1	10.4	12.0	12.1	12.1	13.8	14.4	15.7	20.2	28.9	44.8
12.5°	10.1	10.3	12.0	12.1	12.1	13.9	14.7	16.2	21.9	31.3	49.3
10°	10.1	10.3	12.0	12.1	12.1	13.9	14.9	16.6	24.3	36.1	57.2
7.5°	10.1	10.2	12.1	12.1	12.1	14.0	15.2	17.0	26.9	41.4	73.3
5°	10.1	10.2	12.1	12.1	12.1	14.1	15.5	17.4	29.4	46.6	90.0
2.5°	10.1	10.1	12.1	12.1	12.1	14.1	15.8	17.8	31.9	51.6	106.8
0°	10.1	10.1	12.1	12.1	12.1	14.1	16.1	18.1	34.2	56.4	122.8
-2.5°	10.1	10.1	12.1	12.1	12.1	14.1	17.7	24.1	45.4	74.9	149.3
-5°	10.1	10.1	12.1	12.1	12.1	14.1	19.2	29.9	56.1	92.6	173.9
-7.5°	10.1	10.1	12.1	12.1	12.1	14.0	20.6	35.3	66.1	109.2	196.4
-10°	10.1	10.1	12.0	12.1	12.1	13.9	21.8	40.1	75.1	124.3	216.2
-12.5°	10.1	10.1	12.0	12.1	12.1	13.9	22.7	44.2	82.9	137.6	230.0
-15°	10.1	10.1	12.0	12.1	12.1	13.8	23.3	47.3	90.0	148.2	239.6
-17.5°	10.1	10.1	11.9	12.1	12.1	13.6	23.5	50.3	96.3	157.1	246.5
-20°	10.1	10.1	11.9	12.1	12.1	13.5	23.9	52.8	100.9	164.3	250.5



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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°	10.1	10.1	11.8	12.1	12.1	13.3	24.6	54.2	103.7	169.4	251.5
-25°	10.1	10.1	11.7	12.1	12.1	13.5	24.6	54.2	104.5	172.5	249.3
-27.5°	10.1	10.1	11.6	12.1	12.1	13.8	23.9	52.7	103.2	173.4	251.6
-30°	10.1	10.1	11.6	12.1	12.1	14.0	22.5	49.8	101.1	171.6	251.5
-32.5°	10.1	10.1	11.5	12.1	12.3	14.0	20.3	47.7	97.6	167.0	248.6
-35°	10.1	10.1	11.4	12.1	12.5	13.8	19.5	45.1	92.0	159.3	242.9
-37.5°	10.1	10.1	11.3	12.1	12.6	13.7	19.3	41.3	84.2	148.6	224.9
-40°	10.1	10.1	11.2	12.1	12.7	13.9	18.9	36.3	74.1	137.1	204.3
-42.5°	10.1	10.1	11.0	12.1	12.8	14.0	18.2	30.1	65.6	120.7	182.3
-45°	10.1	10.1	10.9	12.2	12.9	14.1	17.2	25.4	57.0	102.4	159.3
-47.5°	10.1	10.1	10.8	12.2	12.9	14.1	16.0	24.0	46.8	83.0	137.2
-50°	10.1	10.1	10.7	12.1	12.9	14.1	15.8	22.1	34.8	69.2	113.6
-52.5°	10.1	10.1	10.5	11.9	12.9	14.1	15.8	20.0	29.1	54.3	89.3
-55°	10.1	10.1	10.4	11.8	12.9	14.1	15.7	17.7	25.9	38.5	71.2
-57.5°	10.1	10.1	10.2	11.6	12.9	14.0	15.5	17.5	22.5	31.6	52.1
-60°	10.1	10.1	10.1	11.4	12.8	13.8	15.3	17.1	19.4	27.1	36.7
-62.5°	10.1	10.1	10.1	11.2	12.6	13.7	15.0	16.7	18.7	22.3	31.0
-65°	10.1	10.1	10.1	11.0	12.3	13.5	14.7	16.1	17.8	20.3	24.9
-67.5°	10.1	10.1	10.1	10.8	12.0	13.2	14.4	15.5	16.8	18.9	21.7
-70°	10.1	10.1	10.1	10.6	11.7	12.8	14.0	14.9	16.0	17.4	19.6
-72.5°	10.1	10.1	10.1	10.5	11.4	12.5	13.5	14.3	15.1	16.2	17.6
-75°	10.1	10.1	10.1	10.4	11.1	12.1	13.1	13.7	14.2	15.0	16.1
-77.5°	10.1	10.1	10.1	10.4	10.9	11.7	12.6	13.1	13.5	13.9	14.5
-80°	10.1	10.1	10.1	10.3	10.8	11.4	12.1	12.5	12.8	13.1	13.5
-82.5°	10.1	10.1	10.1	10.3	10.6	11.1	11.6	11.9	12.1	12.4	12.6
-85°	10.1	10.1	10.1	10.2	10.4	10.7	11.1	11.5	11.8	12.0	12.1
-87.5°	10.1	10.1	10.1	10.2	10.3	10.4	10.6	11.0	11.4	11.8	12.1
-90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1





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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°	11.6	11.1	10.6	10.1	10.1	10.1	10.1	10.1	9.6	9.1	8.6
87.5°	9.6	9.1	8.6	8.1	8.1	8.1	8.1	8.1	7.6	7.1	6.5
85°	9.6	9.1	8.7	8.4	8.4	8.4	8.3	8.1	7.6	7.1	6.5
82.5°	9.8	9.6	9.5	9.5	9.4	9.1	8.6	8.1	7.6	7.1	6.6
80°	10.0	10.1	10.1	10.1	9.7	9.2	8.7	8.2	7.7	7.1	6.6
77.5°	10.1	10.1	10.1	10.1	9.7	9.2	8.7	8.2	7.7	7.2	6.7
75°	10.1	10.1	10.1	10.1	9.8	9.3	8.8	8.7	8.6	8.4	8.3
72.5°	10.1	10.1	10.1	10.1	9.9	9.7	9.7	9.9	10.3	10.4	10.3
70°	10.1	10.1	10.3	10.3	10.1	10.3	11.2	12.3	13.2	14.2	16.7
67.5°	10.2	10.7	10.8	10.6	10.9	11.9	13.1	18.5	25.1	28.1	29.7
65°	11.1	11.4	11.3	11.5	12.0	15.8	21.8	29.5	37.9	40.0	39.7
62.5°	12.0	11.8	11.9	13.1	16.2	21.5	29.6	38.5	48.0	46.2	39.9
60°	12.1	12.0	13.4	16.4	20.5	27.8	37.0	41.5	44.6	44.4	36.5
57.5°	12.1	13.1	15.9	20.0	26.2	32.2	34.3	36.9	39.0	40.2	31.5
55°	12.6	14.8	18.5	24.1	28.9	28.2	29.2	30.9	32.3	30.5	22.7
52.5°	13.9	16.5	21.4	26.4	27.4	25.3	23.7	24.9	23.9	20.7	17.2
50°	15.1	18.6	23.5	26.8	26.2	22.7	19.6	20.1	19.1	16.7	14.7
47.5°	16.5	20.4	25.3	27.4	24.6	22.3	19.6	18.9	17.9	18.6	17.6
45°	17.7	21.8	27.0	26.5	24.7	23.9	22.7	19.9	23.0	24.2	23.8
42.5°	18.6	22.9	27.0	26.0	27.5	28.2	27.7	28.8	30.7	33.4	34.6
40°	19.2	23.6	28.0	30.9	31.7	34.5	38.2	41.2	42.2	46.3	49.0
37.5°	19.5	25.8	32.0	39.8	38.8	44.5	50.8	61.6	64.9	61.0	68.6
35°	19.4	29.1	43.1	53.7	55.2	57.7	73.9	90.4	100.6	90.6	99.9
32.5°	21.6	33.6	57.1	72.2	82.9	85.6	101.7	135.7	153.1	155.6	156.5
30°	26.6	46.6	74.4	94.1	118.6	138.3	153.9	192.9	220.8	290.0	345.9
27.5°	33.0	62.3	95.2	127.0	163.7	200.3	237.2	268.0	358.3	488.3	633.3
25°	39.4	85.1	118.4	167.5	223.3	276.8	326.5	368.5	544.6	811.0	989.3
22.5°	51.9	111.9	151.7	212.6	289.0	359.3	420.7	531.7	778.1	1172.5	1364.2
20°	72.1	140.4	192.7	266.7	362.5	444.7	516.5	702.3	1061.8	1431.7	1669.5
17.5°	94.1	170.2	237.3	335.0	457.6	548.4	622.0	868.3	1336.9	1690.2	1932.6
15°	117.5	200.8	281.3	409.3	561.7	674.3	823.6	1126.3	1579.8	1944.2	2241.4
12.5°	141.4	231.8	324.4	487.7	672.3	801.4	1069.5	1508.4	1913.2	2230.8	2675.6
10°	165.3	262.7	366.1	567.9	786.7	928.6	1339.9	1886.1	2277.3	2604.0	3115.5
7.5°	212.0	306.1	410.9	647.7	902.0	1054.5	1623.4	2253.6	2618.3	2950.8	3489.8
5°	262.3	361.9	480.6	747.1	1016.3	1168.1	1886.9	2604.0	2938.0	3272.8	3807.3
2.5°	311.0	415.7	547.9	843.6	1123.7	1260.5	2044.4	2798.6	3145.4	3522.9	4077.3
0°	356.3	467.0	612.0	932.0	1221.9	1346.7	2172.0	2963.1	3319.4	3732.1	4313.8
-2.5°	392.8	517.2	672.1	982.2	1256.0	1395.7	2198.2	3023.6	3409.4	3851.4	4427.3
-5°	423.3	563.9	727.5	1023.8	1282.4	1439.0	2192.9	3045.1	3484.8	3941.8	4530.8
-7.5°	447.2	606.2	777.6	1053.8	1296.1	1459.5	2186.4	3073.8	3567.5	4003.4	4614.6
-10°	460.4	623.6	788.3	1049.6	1292.8	1464.1	2138.6	3056.5	3635.1	4048.2	4640.8
-12.5°	446.6	618.0	785.6	1036.4	1283.7	1463.2	2034.7	2990.2	3689.0	4078.8	4591.2
-15°	430.4	608.9	774.8	1013.9	1269.6	1457.0	1869.1	2872.6	3661.9	3967.2	4445.7
-17.5°	412.8	596.3	755.3	982.3	1251.2	1445.6	1626.5	2574.3	3385.2	3776.4	4288.3
-20°	394.5	580.1	726.6	941.5	1225.0	1390.1	1512.3	2197.3	2989.7	3541.2	4013.0



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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°	376.5	560.5	695.8	903.8	1130.4	1298.2	1427.9	1812.6	2580.1	3250.1	3602.0
-25°	366.9	531.9	670.2	834.4	1029.7	1203.8	1330.1	1467.0	2152.1	2795.8	3238.8
-27.5°	362.3	506.0	632.1	765.2	934.0	1104.0	1224.5	1353.6	1730.0	2338.3	2869.5
-30°	354.0	470.7	592.4	702.8	852.8	999.9	1118.2	1251.4	1402.8	1894.1	2384.7
-32.5°	334.2	434.9	550.9	657.1	776.8	905.5	1036.5	1166.7	1296.4	1475.2	1924.8
-35°	311.0	404.9	509.4	610.2	705.4	828.9	959.8	1088.0	1198.0	1312.3	1561.1
-37.5°	292.2	372.5	468.4	563.8	653.7	759.3	879.9	1004.4	1116.7	1219.9	1361.7
-40°	271.6	337.8	429.6	519.8	604.4	695.3	802.8	915.1	1031.0	1151.6	1262.5
-42.5°	249.0	312.9	389.4	476.5	555.9	639.5	725.5	829.4	943.4	1070.7	1185.7
-45°	223.2	286.3	349.1	429.2	505.5	582.4	662.9	745.1	857.1	971.4	1091.8
-47.5°	195.9	257.5	317.9	381.9	454.5	524.7	598.5	682.5	770.4	874.9	981.2
-50°	167.9	226.2	284.8	342.8	404.9	468.5	533.5	618.5	702.1	783.9	875.1
-52.5°	139.7	193.4	249.4	305.1	360.3	417.5	479.7	554.6	633.5	710.2	785.9
-55°	109.9	159.9	212.2	265.2	317.8	369.8	430.2	496.6	565.0	638.1	708.5
-57.5°	84.6	124.6	172.9	223.3	273.0	323.8	383.1	440.2	502.3	566.9	630.1
-60°	61.6	92.4	131.1	177.8	226.3	276.1	334.6	391.4	444.4	496.0	555.4
-62.5°	40.7	64.7	93.8	129.0	173.1	223.0	275.5	331.4	391.5	438.6	485.0
-65°	33.4	41.2	61.2	88.6	117.7	160.2	208.0	259.7	311.9	358.7	408.2
-67.5°	25.9	33.3	40.2	50.6	75.8	103.9	133.9	176.7	222.0	261.4	301.3
-70°	22.5	25.9	31.7	37.8	43.8	55.4	80.1	106.4	132.4	157.5	190.2
-72.5°	19.9	22.8	25.9	29.2	34.3	39.7	45.5	51.5	66.2	85.6	103.8
-75°	17.7	19.6	22.2	25.0	27.7	30.3	33.3	38.1	42.9	47.4	51.8
-77.5°	15.8	17.3	19.1	21.0	22.7	24.8	26.9	29.2	31.4	33.8	36.4
-80°	14.1	15.0	16.3	17.7	18.6	19.6	20.9	22.3	23.6	24.9	26.3
-82.5°	13.0	13.6	14.2	14.9	15.0	14.9	14.9	15.3	16.2	17.1	17.9
-85°	12.1	12.1	12.4	12.7	12.9	13.0	13.0	12.9	12.8	12.7	12.7
-87.5°	11.8	11.6	11.4	11.2	11.3	11.4	11.5	11.5	11.1	10.6	10.2
-90°	9.6	9.1	8.6	8.1	8.1	8.1	8.1	8.1	7.6	7.1	6.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	8.1	8.1	8.1	8.1	8.1	8.6	9.1	9.6	10.1	11.6	13.1
87.5°	6.0	5.5	5.0	4.5	4.0	3.5	3.0	2.5	2.0	2.0	2.0
85°	6.0	5.5	5.0	4.5	4.0	3.5	3.0	2.5	2.0	2.0	2.0
82.5°	6.0	5.8	5.6	5.5	5.4	5.1	4.7	4.2	3.8	3.4	3.0
80°	6.1	6.0	6.0	6.0	6.0	5.6	5.1	4.6	4.0	3.5	3.0
77.5°	6.3	6.4	6.4	6.3	6.1	5.6	5.1	4.6	4.1	3.6	3.0
75°	8.1	7.8	7.4	6.9	6.2	5.6	5.1	4.6	4.1	3.9	3.9
72.5°	9.9	9.4	9.0	9.4	9.3	9.1	8.8	8.3	7.4	7.4	7.7
70°	18.5	19.3	19.4	18.5	16.5	14.8	13.4	11.9	10.2	9.7	9.8
67.5°	29.4	28.0	26.2	23.9	20.5	17.5	15.6	13.9	12.2	11.7	11.8
65°	36.5	30.3	26.0	22.6	19.9	17.5	15.5	13.6	11.7	10.6	10.4
62.5°	33.4	26.2	21.7	18.9	17.0	15.5	13.1	11.1	9.6	8.8	9.1
60°	28.7	21.0	16.3	14.1	12.1	10.2	9.3	8.7	8.3	8.1	8.2
57.5°	22.8	16.0	12.0	11.2	10.1	8.7	8.3	8.5	8.4	8.1	8.1
55°	16.7	13.7	12.1	11.5	11.0	10.4	10.0	9.8	9.6	9.4	9.6
52.5°	13.6	13.6	13.8	13.6	13.1	12.5	11.9	12.0	12.2	12.5	13.0
50°	15.0	15.4	15.8	15.6	15.1	14.6	14.0	14.6	15.5	16.3	16.9
47.5°	17.4	18.1	19.2	17.8	18.0	19.2	18.5	18.7	21.7	23.6	24.8
45°	22.2	25.7	26.5	27.4	27.6	29.7	30.6	31.3	37.1	39.6	39.7
42.5°	35.3	38.6	41.4	44.0	43.6	50.1	58.9	63.8	63.6	62.6	63.7
40°	53.4	57.1	65.2	71.4	81.0	89.5	90.1	81.8	82.8	92.4	93.2
37.5°	80.3	91.5	107.7	125.7	130.5	125.0	128.3	134.3	140.6	149.4	159.8
35°	127.8	165.3	172.8	186.6	195.8	186.8	190.2	206.3	206.4	234.9	250.5
32.5°	226.8	284.3	301.9	289.5	313.7	328.3	283.4	339.8	350.6	379.8	415.7
30°	369.9	489.5	526.6	509.4	574.7	595.3	555.7	669.2	735.9	734.5	903.0
27.5°	702.8	762.6	832.1	938.2	951.8	987.2	1211.0	1384.1	1603.9	1811.7	2081.5
25°	1075.2	1109.2	1308.3	1439.4	1504.2	1740.8	2072.4	2343.0	2809.3	3244.6	4150.5
22.5°	1418.3	1545.1	1788.0	1997.9	2233.8	2614.7	3072.2	3574.2	4813.3	6337.7	8250.5
20°	1754.9	1921.7	2211.9	2589.5	2966.2	3484.3	4092.4	5682.9	8119.4	11812.0	15802.9
17.5°	2135.0	2295.4	2690.9	3224.2	3797.2	4573.8	6439.3	9478.2	14652.2	21876.1	28845.1
15°	2628.3	2904.3	3342.0	4129.9	5226.6	7057.0	10097.9	17593.8	27923.5	39157.5	51201.5
12.5°	3205.4	3660.5	4373.0	5391.1	6970.3	11294.5	18936.9	30973.4	46409.9	62187.6	81982.7
10°	3764.1	4525.4	5615.7	7220.1	10361.6	17176.8	28562.6	45934.1	69585.9	93980.7	115842.1
7.5°	4254.8	5262.2	6729.3	8977.8	13965.1	23814.9	40194.3	64400.9	93881.3	124026.9	153423.9
5°	4755.9	5953.8	7663.6	10294.3	16162.7	28619.9	49644.1	81306.8	116924.8	153436.6	191805.2
2.5°	5167.4	6534.3	8443.4	11385.6	17461.3	31202.2	55504.2	93081.7	134235.3	176036.0	223778.9
0°	5415.0	6894.5	8829.0	11419.7	18481.3	33236.5	56951.6	97249.7	141543.6	187502.3	237470.8
-2.5°	5422.7	6819.5	8641.1	11311.4	18263.0	32680.4	57052.6	97145.8	141150.6	185413.0	234723.9
-5°	5405.7	6648.5	8359.2	10922.9	16956.5	29779.2	52675.7	90851.8	134194.8	176083.5	220997.2
-7.5°	5379.9	6422.6	7958.9	10301.6	15284.4	26277.4	47634.5	82581.7	123475.7	162493.1	202698.4
-10°	5350.0	6188.6	7590.5	9768.5	13769.8	22112.3	38318.7	70145.2	107659.2	143663.7	176633.2
-12.5°	5324.4	6092.5	7293.7	9034.2	11928.6	18529.4	32350.9	57324.3	87703.3	118105.1	147310.9
-15°	5226.1	5965.3	7051.5	8488.9	10835.5	15451.8	24150.3	41412.6	66357.9	90373.6	113557.7
-17.5°	5024.9	5784.2	6467.6	7586.6	9279.2	12289.6	17988.7	28390.5	44407.4	63180.3	79536.3
-20°	4630.6	5151.1	5718.1	6668.5	7971.1	9555.9	12155.0	18082.0	25697.7	37943.0	46518.7



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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°	4045.3	4483.1	4960.1	5593.3	6509.3	7627.8	9014.6	11205.8	15179.8	19899.4	25115.7
-25°	3511.4	3826.0	4268.0	4812.0	5302.3	6032.0	7003.9	7853.9	9570.4	10958.9	13827.8
-27.5°	3106.7	3368.2	3768.5	4190.5	4552.4	4943.4	5619.6	6220.5	7055.7	7784.7	8951.0
-30°	2814.1	3082.0	3403.8	3723.6	4067.3	4398.8	4701.5	5157.1	5658.0	6133.6	6750.6
-32.5°	2452.8	2875.6	3108.5	3379.0	3684.8	3974.7	4205.5	4493.7	4769.4	5084.4	5422.8
-35°	2075.4	2537.4	2894.9	3102.7	3329.9	3606.8	3843.3	4040.3	4223.1	4418.7	4597.4
-37.5°	1630.9	2141.4	2548.8	2856.3	3063.7	3257.0	3510.7	3700.1	3820.9	3983.1	4105.3
-40°	1401.7	1606.1	2069.1	2487.1	2754.3	3058.8	3294.9	3495.5	3716.7	3889.3	3989.0
-42.5°	1290.0	1408.5	1531.7	1873.1	2291.4	2657.0	2961.3	3291.2	3587.1	3822.5	4041.5
-45°	1203.7	1287.8	1375.6	1488.8	1605.9	1948.0	2323.3	2709.1	3054.5	3377.3	3654.3
-47.5°	1088.4	1187.0	1267.1	1338.7	1410.7	1515.7	1628.0	1784.5	2116.5	2453.2	2774.2
-50°	969.8	1060.5	1148.9	1232.1	1299.5	1352.4	1394.9	1463.9	1564.0	1663.5	1761.3
-52.5°	858.1	942.3	1022.4	1102.9	1181.8	1251.8	1313.8	1362.6	1402.8	1437.0	1460.2
-55°	778.2	844.5	906.8	983.6	1059.4	1129.8	1195.0	1254.9	1309.6	1359.3	1393.5
-57.5°	695.1	760.1	824.6	889.2	951.9	1012.4	1073.2	1132.5	1188.1	1238.7	1272.7
-60°	612.8	668.3	732.4	799.1	861.5	919.9	976.4	1029.6	1079.1	1121.7	1149.1
-62.5°	535.1	587.5	642.9	702.9	766.1	827.8	884.5	938.2	989.2	1030.5	1057.0
-65°	456.6	500.7	548.0	597.6	648.9	701.4	755.3	810.3	865.7	910.1	939.3
-67.5°	343.0	387.2	433.6	482.1	525.8	565.9	604.7	644.8	685.3	719.0	745.5
-70°	223.1	256.0	288.4	321.6	357.8	394.6	429.8	462.8	493.3	517.8	537.6
-72.5°	120.6	136.5	154.4	179.7	203.9	228.4	252.6	275.4	296.6	312.6	325.1
-75°	55.9	63.2	76.8	89.3	100.9	112.8	124.3	134.8	144.4	151.2	156.4
-77.5°	39.7	42.9	46.2	49.4	52.7	57.2	62.0	66.6	71.2	75.7	79.9
-80°	28.0	29.8	31.6	33.3	34.9	37.4	40.2	42.9	45.6	48.4	51.1
-82.5°	18.7	19.9	21.1	22.2	23.3	24.8	26.3	27.7	29.1	31.4	33.6
-85°	12.7	13.2	13.7	14.3	15.0	16.2	17.3	18.5	19.7	21.3	22.9
-87.5°	9.7	9.8	9.8	9.9	9.9	10.9	11.9	12.9	14.0	15.5	17.0
-90°	6.0	5.5	5.0	4.5	4.0	3.5	3.0	2.5	2.0	1.5	1.0



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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°	14.6	16.1	17.1	18.1	17.1	16.1	14.6	13.1	11.6	10.1	9.6
87.5°	2.0	2.0	1.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	2.5
85°	2.0	2.0	1.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	2.5
82.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.4	3.8	4.2
80°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.5	4.0	4.6
77.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.6	4.1	4.6
75°	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	4.1	4.6
72.5°	7.8	8.0	8.1	8.1	8.1	8.0	7.8	7.7	7.4	7.4	8.3
70°	10.0	10.0	10.1	10.1	10.1	10.0	10.0	9.8	9.7	10.2	11.9
67.5°	11.9	12.0	12.1	12.1	12.1	12.0	11.9	11.8	11.7	12.2	13.9
65°	10.3	10.2	10.1	10.1	10.1	10.2	10.3	10.4	10.6	11.7	13.6
62.5°	9.5	10.0	10.1	10.1	10.1	10.0	9.5	9.1	8.8	9.6	11.1
60°	8.2	8.2	8.1	8.1	8.1	8.2	8.2	8.2	8.1	8.3	8.7
57.5°	8.1	8.1	8.9	10.1	8.9	8.1	8.1	8.1	8.1	8.4	8.5
55°	9.8	10.0	10.8	12.1	10.8	10.0	9.8	9.6	9.4	9.6	9.8
52.5°	13.5	13.8	14.0	14.1	14.0	13.8	13.5	13.0	12.5	12.2	12.0
50°	17.4	17.8	18.0	18.1	18.0	17.8	17.4	16.9	16.3	15.5	14.6
47.5°	25.6	25.9	26.0	26.2	26.0	25.9	25.6	24.8	23.6	21.7	18.7
45°	41.2	41.7	41.9	42.3	41.9	41.7	41.2	39.7	39.6	37.1	31.3
42.5°	66.3	67.3	67.3	66.4	67.3	67.3	66.3	63.7	62.6	63.6	63.8
40°	94.5	94.5	93.5	92.6	93.5	94.5	94.5	93.2	92.4	82.8	81.8
37.5°	164.5	158.6	148.0	142.9	148.0	158.6	164.5	159.8	149.4	140.6	134.3
35°	254.6	258.4	259.4	257.7	259.4	258.4	254.6	250.5	234.9	206.4	206.3
32.5°	425.7	446.1	452.7	465.0	452.7	446.1	425.7	415.7	379.8	350.6	339.8
30°	876.5	870.3	794.0	760.9	794.0	870.3	876.5	903.0	734.5	735.9	669.2
27.5°	2361.1	2632.8	2762.4	2751.8	2762.4	2632.8	2361.1	2081.5	1811.7	1603.9	1384.1
25°	4862.5	5299.3	5589.0	5398.8	5589.0	5299.3	4862.5	4150.5	3244.6	2809.3	2343.0
22.5°	10032.0	10984.3	11503.2	11689.5	11503.2	10984.3	10032.0	8250.5	6337.7	4813.3	3574.2
20°	20103.9	21902.1	23215.2	22118.8	23215.2	21902.1	20103.9	15802.9	11812.0	8119.4	5682.9
17.5°	37322.9	42916.4	47864.5	49410.9	47864.5	42916.4	37322.9	28845.1	21876.1	14652.2	9478.2
15°	62812.8	72259.1	77873.8	77546.6	77873.8	72259.1	62812.8	51201.5	39157.5	27923.5	17593.8
12.5°	96644.7	108301.8	116079.8	114350.1	116079.8	108301.8	96644.7	81982.7	62187.6	46409.9	30973.4
10°	137296.2	154953.0	167782.0	167191.2	167782.0	154953.0	137296.2	115842.1	93980.7	69585.9	45934.1
7.5°	179442.8	208429.0	233587.6	237821.1	233587.6	208429.0	179442.8	153423.9	124026.9	93881.3	64400.9
5°	233794.4	271999.2	296984.1	298412.2	296984.1	271999.2	233794.4	191805.2	153436.6	116924.8	81306.8
2.5°	277882.6	321709.8	342795.1	355570.2	342795.1	321709.8	277882.6	223778.9	176036.0	134235.3	93081.7
0°	298538.0	334167.0	372716.8	390981.7	372716.8	334167.0	298538.0	237470.8	187502.3	141543.6	97249.7
-2.5°	290064.0	328243.0	351373.2	370731.1	351373.2	328243.0	290064.0	234723.9	185413.0	141150.6	97145.8
-5°	270845.5	308674.7	328079.1	329889.4	328079.1	308674.7	270845.5	220997.2	176083.5	134194.8	90851.8
-7.5°	239470.7	271547.8	291920.5	298259.2	291920.5	271547.8	239470.7	202698.4	162493.1	123475.7	82581.7
-10°	206127.5	229196.2	242362.4	244886.7	242362.4	229196.2	206127.5	176633.2	143663.7	107659.2	70145.2
-12.5°	171462.1	190348.3	199433.4	201418.2	199433.4	190348.3	171462.1	147310.9	118105.1	87703.3	57324.3
-15°	133061.6	147273.1	155453.2	156876.6	155453.2	147273.1	133061.6	113557.7	90373.6	66357.9	41412.6
-17.5°	94976.9	106524.8	114811.2	115912.2	114811.2	106524.8	94976.9	79536.3	63180.3	44407.4	28390.5
-20°	58344.0	66201.3	71048.9	70338.0	71048.9	66201.3	58344.0	46518.7	37943.0	25697.7	18082.0



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	31411.6	35647.0	37695.6	38754.2	37695.6	35647.0	31411.6	25115.7	19899.4	15179.8	11205.8
-25°	16604.1	18397.8	19318.2	20039.4	19318.2	18397.8	16604.1	13827.8	10958.9	9570.4	7853.9
-27.5°	9879.6	10496.5	10839.0	11027.2	10839.0	10496.5	9879.6	8951.0	7784.7	7055.7	6220.5
-30°	7242.8	7538.3	7694.4	7772.2	7694.4	7538.3	7242.8	6750.6	6133.6	5658.0	5157.1
-32.5°	5694.4	5869.8	5977.7	6016.8	5977.7	5869.8	5694.4	5422.8	5084.4	4769.4	4493.7
-35°	4723.7	4782.4	4803.5	4841.2	4803.5	4782.4	4723.7	4597.4	4418.7	4223.1	4040.3
-37.5°	4198.4	4253.0	4279.7	4301.8	4279.7	4253.0	4198.4	4105.3	3983.1	3820.9	3700.1
-40°	4034.9	4092.9	4152.2	4195.1	4152.2	4092.9	4034.9	3989.0	3889.3	3716.7	3495.5
-42.5°	4137.1	4231.8	4296.8	4305.8	4296.8	4231.8	4137.1	4041.5	3822.5	3587.1	3291.2
-45°	3811.6	3919.4	3978.2	3997.8	3978.2	3919.4	3811.6	3654.3	3377.3	3054.5	2709.1
-47.5°	3058.6	3305.1	3452.2	3484.5	3452.2	3305.1	3058.6	2774.2	2453.2	2116.5	1784.5
-50°	1856.3	1944.1	1992.4	1998.9	1992.4	1944.1	1856.3	1761.3	1663.5	1564.0	1463.9
-52.5°	1478.6	1494.3	1504.0	1509.7	1504.0	1494.3	1478.6	1460.2	1437.0	1402.8	1362.6
-55°	1423.5	1449.8	1464.7	1471.5	1464.7	1449.8	1423.5	1393.5	1359.3	1309.6	1254.9
-57.5°	1303.0	1329.7	1341.6	1344.7	1341.6	1329.7	1303.0	1272.7	1238.7	1188.1	1132.5
-60°	1174.1	1196.7	1203.9	1203.8	1203.9	1196.7	1174.1	1149.1	1121.7	1079.1	1029.6
-62.5°	1082.3	1105.9	1117.4	1123.3	1117.4	1105.9	1082.3	1057.0	1030.5	989.2	938.2
-65°	964.7	986.2	995.3	998.4	995.3	986.2	964.7	939.3	910.1	865.7	810.3
-67.5°	769.1	789.5	795.3	795.1	795.3	789.5	769.1	745.5	719.0	685.3	644.8
-70°	554.3	567.9	570.2	567.7	570.2	567.9	554.3	537.6	517.8	493.3	462.8
-72.5°	335.2	343.0	346.0	346.2	346.0	343.0	335.2	325.1	312.6	296.6	275.4
-75°	160.4	163.3	165.6	167.1	165.6	163.3	160.4	156.4	151.2	144.4	134.8
-77.5°	84.0	87.8	89.4	90.6	89.4	87.8	84.0	79.9	75.7	71.2	66.6
-80°	53.7	56.1	56.3	56.4	56.3	56.1	53.7	51.1	48.4	45.6	42.9
-82.5°	35.9	38.0	38.2	38.2	38.2	38.0	35.9	33.6	31.4	29.1	27.7
-85°	24.6	26.1	27.2	28.2	27.2	26.1	24.6	22.9	21.3	19.7	18.5
-87.5°	18.6	20.1	20.1	20.1	20.1	20.1	18.6	17.0	15.5	14.0	12.9
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.0	2.5



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	9.1	8.6	8.1	8.1	8.1	8.1	8.1	8.6	9.1	9.6	10.1
87.5°	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.1	7.6	8.1
85°	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.1	7.6	8.1
82.5°	4.7	5.1	5.4	5.5	5.6	5.8	6.0	6.6	7.1	7.6	8.1
80°	5.1	5.6	6.0	6.0	6.0	6.0	6.1	6.6	7.1	7.7	8.2
77.5°	5.1	5.6	6.1	6.3	6.4	6.4	6.3	6.7	7.2	7.7	8.2
75°	5.1	5.6	6.2	6.9	7.4	7.8	8.1	8.3	8.4	8.6	8.7
72.5°	8.8	9.1	9.3	9.4	9.0	9.4	9.9	10.3	10.4	10.3	9.9
70°	13.4	14.8	16.5	18.5	19.4	19.3	18.5	16.7	14.2	13.2	12.3
67.5°	15.6	17.5	20.5	23.9	26.2	28.0	29.4	29.7	28.1	25.1	18.5
65°	15.5	17.5	19.9	22.6	26.0	30.3	36.5	39.7	40.0	37.9	29.5
62.5°	13.1	15.5	17.0	18.9	21.7	26.2	33.4	39.9	46.2	48.0	38.5
60°	9.3	10.2	12.1	14.1	16.3	21.0	28.7	36.5	44.4	44.6	41.5
57.5°	8.3	8.7	10.1	11.2	12.0	16.0	22.8	31.5	40.2	39.0	36.9
55°	10.0	10.4	11.0	11.5	12.1	13.7	16.7	22.7	30.5	32.3	30.9
52.5°	11.9	12.5	13.1	13.6	13.8	13.6	13.6	17.2	20.7	23.9	24.9
50°	14.0	14.6	15.1	15.6	15.8	15.4	15.0	14.7	16.7	19.1	20.1
47.5°	18.5	19.2	18.0	17.8	19.2	18.1	17.4	17.6	18.6	17.9	18.9
45°	30.6	29.7	27.6	27.4	26.5	25.7	22.2	23.8	24.2	23.0	19.9
42.5°	58.9	50.1	43.6	44.0	41.4	38.6	35.3	34.6	33.4	30.7	28.8
40°	90.1	89.5	81.0	71.4	65.2	57.1	53.4	49.0	46.3	42.2	41.2
37.5°	128.3	125.0	130.5	125.7	107.7	91.5	80.3	68.6	61.0	64.9	61.6
35°	190.2	186.8	195.8	186.6	172.8	165.3	127.8	99.9	90.6	100.6	90.4
32.5°	283.4	328.3	313.7	289.5	301.9	284.3	226.8	156.5	155.6	153.1	135.7
30°	555.7	595.3	574.7	509.4	526.6	489.5	369.9	345.9	290.0	220.8	192.9
27.5°	1211.0	987.2	951.8	938.2	832.1	762.6	702.8	633.3	488.3	358.3	268.0
25°	2072.4	1740.8	1504.2	1439.4	1308.3	1109.2	1075.2	989.3	811.0	544.6	368.5
22.5°	3072.2	2614.7	2233.8	1997.9	1788.0	1545.1	1418.3	1364.2	1172.5	778.1	531.7
20°	4092.4	3484.3	2966.2	2589.5	2211.9	1921.7	1754.9	1669.5	1431.7	1061.8	702.3
17.5°	6439.3	4573.8	3797.2	3224.2	2690.9	2295.4	2135.0	1932.6	1690.2	1336.9	868.3
15°	10097.9	7057.0	5226.6	4129.9	3342.0	2904.3	2628.3	2241.4	1944.2	1579.8	1126.3
12.5°	18936.9	11294.5	6970.3	5391.1	4373.0	3660.5	3205.4	2675.6	2230.8	1913.2	1508.4
10°	28562.6	17176.8	10361.6	7220.1	5615.7	4525.4	3764.1	3115.5	2604.0	2277.3	1886.1
7.5°	40194.3	23814.9	13965.1	8977.8	6729.3	5262.2	4254.8	3489.8	2950.8	2618.3	2253.6
5°	49644.1	28619.9	16162.7	10294.3	7663.6	5953.8	4755.9	3807.3	3272.8	2938.0	2604.0
2.5°	55504.2	31202.2	17461.3	11385.6	8443.4	6534.3	5167.4	4077.3	3522.9	3145.4	2798.6
0°	56951.6	33236.5	18481.3	11419.7	8829.0	6894.5	5415.0	4313.8	3732.1	3319.4	2963.1
-2.5°	57052.6	32680.4	18263.0	11311.4	8641.1	6819.5	5422.7	4427.3	3851.4	3409.4	3023.6
-5°	52675.7	29779.2	16956.5	10922.9	8359.2	6648.5	5405.7	4530.8	3941.8	3484.8	3045.1
-7.5°	47634.5	26277.4	15284.4	10301.6	7958.9	6422.6	5379.9	4614.6	4003.4	3567.5	3073.8
-10°	38318.7	22112.3	13769.8	9768.5	7590.5	6188.6	5350.0	4640.8	4048.2	3635.1	3056.5
-12.5°	32350.9	18529.4	11928.6	9034.2	7293.7	6092.5	5324.4	4591.2	4078.8	3689.0	2990.2
-15°	24150.3	15451.8	10835.5	8488.9	7051.5	5965.3	5226.1	4445.7	3967.2	3661.9	2872.6
-17.5°	17988.7	12289.6	9279.2	7586.6	6467.6	5784.2	5024.9	4288.3	3776.4	3385.2	2574.3
-20°	12155.0	9555.9	7971.1	6668.5	5718.1	5151.1	4630.6	4013.0	3541.2	2989.7	2197.3





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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°	9014.6	7627.8	6509.3	5593.3	4960.1	4483.1	4045.3	3602.0	3250.1	2580.1	1812.6
-25°	7003.9	6032.0	5302.3	4812.0	4268.0	3826.0	3511.4	3238.8	2795.8	2152.1	1467.0
-27.5°	5619.6	4943.4	4552.4	4190.5	3768.5	3368.2	3106.7	2869.5	2338.3	1730.0	1353.6
-30°	4701.5	4398.8	4067.3	3723.6	3403.8	3082.0	2814.1	2384.7	1894.1	1402.8	1251.4
-32.5°	4205.5	3974.7	3684.8	3379.0	3108.5	2875.6	2452.8	1924.8	1475.2	1296.4	1166.7
-35°	3843.3	3606.8	3329.9	3102.7	2894.9	2537.4	2075.4	1561.1	1312.3	1198.0	1088.0
-37.5°	3510.7	3257.0	3063.7	2856.3	2548.8	2141.4	1630.9	1361.7	1219.9	1116.7	1004.4
-40°	3294.9	3058.8	2754.3	2487.1	2069.1	1606.1	1401.7	1262.5	1151.6	1031.0	915.1
-42.5°	2961.3	2657.0	2291.4	1873.1	1531.7	1408.5	1290.0	1185.7	1070.7	943.4	829.4
-45°	2323.3	1948.0	1605.9	1488.8	1375.6	1287.8	1203.7	1091.8	971.4	857.1	745.1
-47.5°	1628.0	1515.7	1410.7	1338.7	1267.1	1187.0	1088.4	981.2	874.9	770.4	682.5
-50°	1394.9	1352.4	1299.5	1232.1	1148.9	1060.5	969.8	875.1	783.9	702.1	618.5
-52.5°	1313.8	1251.8	1181.8	1102.9	1022.4	942.3	858.1	785.9	710.2	633.5	554.6
-55°	1195.0	1129.8	1059.4	983.6	906.8	844.5	778.2	708.5	638.1	565.0	496.6
-57.5°	1073.2	1012.4	951.9	889.2	824.6	760.1	695.1	630.1	566.9	502.3	440.2
-60°	976.4	919.9	861.5	799.1	732.4	668.3	612.8	555.4	496.0	444.4	391.4
-62.5°	884.5	827.8	766.1	702.9	642.9	587.5	535.1	485.0	438.6	391.5	331.4
-65°	755.3	701.4	648.9	597.6	548.0	500.7	456.6	408.2	358.7	311.9	259.7
-67.5°	604.7	565.9	525.8	482.1	433.6	387.2	343.0	301.3	261.4	222.0	176.7
-70°	429.8	394.6	357.8	321.6	288.4	256.0	223.1	190.2	157.5	132.4	106.4
-72.5°	252.6	228.4	203.9	179.7	154.4	136.5	120.6	103.8	85.6	66.2	51.5
-75°	124.3	112.8	100.9	89.3	76.8	63.2	55.9	51.8	47.4	42.9	38.1
-77.5°	62.0	57.2	52.7	49.4	46.2	42.9	39.7	36.4	33.8	31.4	29.2
-80°	40.2	37.4	34.9	33.3	31.6	29.8	28.0	26.3	24.9	23.6	22.3
-82.5°	26.3	24.8	23.3	22.2	21.1	19.9	18.7	17.9	17.1	16.2	15.3
-85°	17.3	16.2	15.0	14.3	13.7	13.2	12.7	12.7	12.7	12.8	12.9
-87.5°	11.9	10.9	9.9	9.9	9.8	9.8	9.7	10.2	10.6	11.1	11.5
-90°	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.1	7.6	8.1





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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°	10.1	10.1	10.1	10.1	10.6	11.1	11.6	12.1	11.6	11.1	10.6
87.5°	8.1	8.1	8.1	8.1	8.6	9.1	9.6	10.1	10.1	10.1	10.1
85°	8.3	8.4	8.4	8.4	8.7	9.1	9.6	10.1	10.1	10.1	10.1
82.5°	8.6	9.1	9.4	9.5	9.5	9.6	9.8	10.1	10.2	10.1	10.1
80°	8.7	9.2	9.7	10.1	10.1	10.1	10.0	10.1	10.4	10.5	10.4
77.5°	8.7	9.2	9.7	10.1	10.1	10.1	10.1	10.2	10.6	10.9	10.9
75°	8.8	9.3	9.8	10.1	10.1	10.1	10.1	10.3	10.7	11.2	11.4
72.5°	9.7	9.7	9.9	10.1	10.1	10.1	10.1	10.3	10.8	11.3	11.8
70°	11.2	10.3	10.1	10.3	10.3	10.1	10.1	10.4	10.8	11.3	11.8
67.5°	13.1	11.9	10.9	10.6	10.8	10.7	10.2	10.4	10.9	11.4	11.9
65°	21.8	15.8	12.0	11.5	11.3	11.4	11.1	10.7	11.0	11.4	11.9
62.5°	29.6	21.5	16.2	13.1	11.9	11.8	12.0	11.4	11.1	11.5	12.0
60°	37.0	27.8	20.5	16.4	13.4	12.0	12.1	11.9	11.5	11.6	12.0
57.5°	34.3	32.2	26.2	20.0	15.9	13.1	12.1	12.1	11.9	11.8	12.1
55°	29.2	28.2	28.9	24.1	18.5	14.8	12.6	12.1	12.1	11.9	12.1
52.5°	23.7	25.3	27.4	26.4	21.4	16.5	13.9	12.1	12.1	12.1	12.1
50°	19.6	22.7	26.2	26.8	23.5	18.6	15.1	13.0	12.1	12.1	12.2
47.5°	19.6	22.3	24.6	27.4	25.3	20.4	16.5	13.9	12.1	12.1	12.4
45°	22.7	23.9	24.7	26.5	27.0	21.8	17.7	14.6	12.7	12.2	12.5
42.5°	27.7	28.2	27.5	26.0	27.0	22.9	18.6	15.4	13.3	12.3	12.7
40°	38.2	34.5	31.7	30.9	28.0	23.6	19.2	15.9	13.8	12.6	12.8
37.5°	50.8	44.5	38.8	39.8	32.0	25.8	19.5	16.2	14.4	13.2	12.9
35°	73.9	57.7	55.2	53.7	43.1	29.1	19.4	16.3	15.2	13.8	13.0
32.5°	101.7	85.6	82.9	72.2	57.1	33.6	21.6	17.7	16.2	14.3	13.2
30°	153.9	138.3	118.6	94.1	74.4	46.6	26.6	19.5	17.2	14.8	13.4
27.5°	237.2	200.3	163.7	127.0	95.2	62.3	33.0	21.7	18.4	15.5	13.8
25°	326.5	276.8	223.3	167.5	118.4	85.1	39.4	24.5	20.0	16.4	14.2
22.5°	420.7	359.3	289.0	212.6	151.7	111.9	51.9	29.8	22.0	17.3	14.6
20°	516.5	444.7	362.5	266.7	192.7	140.4	72.1	35.0	24.1	18.3	15.0
17.5°	622.0	548.4	457.6	335.0	237.3	170.2	94.1	40.1	26.5	19.2	15.3
15°	823.6	674.3	561.7	409.3	281.3	200.8	117.5	44.8	28.9	20.2	15.7
12.5°	1069.5	801.4	672.3	487.7	324.4	231.8	141.4	49.3	31.3	21.9	16.2
10°	1339.9	928.6	786.7	567.9	366.1	262.7	165.3	57.2	36.1	24.3	16.6
7.5°	1623.4	1054.5	902.0	647.7	410.9	306.1	212.0	73.3	41.4	26.9	17.0
5°	1886.9	1168.1	1016.3	747.1	480.6	361.9	262.3	90.0	46.6	29.4	17.4
2.5°	2044.4	1260.5	1123.7	843.6	547.9	415.7	311.0	106.8	51.6	31.9	17.8
0°	2172.0	1346.7	1221.9	932.0	612.0	467.0	356.3	122.8	56.4	34.2	18.1
-2.5°	2198.2	1395.7	1256.0	982.2	672.1	517.2	392.8	149.3	74.9	45.4	24.1
-5°	2192.9	1439.0	1282.4	1023.8	727.5	563.9	423.3	173.9	92.6	56.1	29.9
-7.5°	2186.4	1459.5	1296.1	1053.8	777.6	606.2	447.2	196.4	109.2	66.1	35.3
-10°	2138.6	1464.1	1292.8	1049.6	788.3	623.6	460.4	216.2	124.3	75.1	40.1
-12.5°	2034.7	1463.2	1283.7	1036.4	785.6	618.0	446.6	230.0	137.6	82.9	44.2
-15°	1869.1	1457.0	1269.6	1013.9	774.8	608.9	430.4	239.6	148.2	90.0	47.3
-17.5°	1626.5	1445.6	1251.2	982.3	755.3	596.3	412.8	246.5	157.1	96.3	50.3
-20°	1512.3	1390.1	1225.0	941.5	726.6	580.1	394.5	250.5	164.3	100.9	52.8



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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°	1427.9	1298.2	1130.4	903.8	695.8	560.5	376.5	251.5	169.4	103.7	54.2
-25°	1330.1	1203.8	1029.7	834.4	670.2	531.9	366.9	249.3	172.5	104.5	54.2
-27.5°	1224.5	1104.0	934.0	765.2	632.1	506.0	362.3	251.6	173.4	103.2	52.7
-30°	1118.2	999.9	852.8	702.8	592.4	470.7	354.0	251.5	171.6	101.1	49.8
-32.5°	1036.5	905.5	776.8	657.1	550.9	434.9	334.2	248.6	167.0	97.6	47.7
-35°	959.8	828.9	705.4	610.2	509.4	404.9	311.0	242.9	159.3	92.0	45.1
-37.5°	879.9	759.3	653.7	563.8	468.4	372.5	292.2	224.9	148.6	84.2	41.3
-40°	802.8	695.3	604.4	519.8	429.6	337.8	271.6	204.3	137.1	74.1	36.3
-42.5°	725.5	639.5	555.9	476.5	389.4	312.9	249.0	182.3	120.7	65.6	30.1
-45°	662.9	582.4	505.5	429.2	349.1	286.3	223.2	159.3	102.4	57.0	25.4
-47.5°	598.5	524.7	454.5	381.9	317.9	257.5	195.9	137.2	83.0	46.8	24.0
-50°	533.5	468.5	404.9	342.8	284.8	226.2	167.9	113.6	69.2	34.8	22.1
-52.5°	479.7	417.5	360.3	305.1	249.4	193.4	139.7	89.3	54.3	29.1	20.0
-55°	430.2	369.8	317.8	265.2	212.2	159.9	109.9	71.2	38.5	25.9	17.7
-57.5°	383.1	323.8	273.0	223.3	172.9	124.6	84.6	52.1	31.6	22.5	17.5
-60°	334.6	276.1	226.3	177.8	131.1	92.4	61.6	36.7	27.1	19.4	17.1
-62.5°	275.5	223.0	173.1	129.0	93.8	64.7	40.7	31.0	22.3	18.7	16.7
-65°	208.0	160.2	117.7	88.6	61.2	41.2	33.4	24.9	20.3	17.8	16.1
-67.5°	133.9	103.9	75.8	50.6	40.2	33.3	25.9	21.7	18.9	16.8	15.5
-70°	80.1	55.4	43.8	37.8	31.7	25.9	22.5	19.6	17.4	16.0	14.9
-72.5°	45.5	39.7	34.3	29.2	25.9	22.8	19.9	17.6	16.2	15.1	14.3
-75°	33.3	30.3	27.7	25.0	22.2	19.6	17.7	16.1	15.0	14.2	13.7
-77.5°	26.9	24.8	22.7	21.0	19.1	17.3	15.8	14.5	13.9	13.5	13.1
-80°	20.9	19.6	18.6	17.7	16.3	15.0	14.1	13.5	13.1	12.8	12.5
-82.5°	14.9	14.9	15.0	14.9	14.2	13.6	13.0	12.6	12.4	12.1	11.9
-85°	13.0	13.0	12.9	12.7	12.4	12.1	12.1	12.1	12.0	11.8	11.5
-87.5°	11.5	11.4	11.3	11.2	11.4	11.6	11.8	12.1	11.8	11.4	11.0
-90°	8.1	8.1	8.1	8.1	8.6	9.1	9.6	10.1	10.1	10.1	10.1



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1
87.5°	10.1	10.2	10.3	10.3	10.3	10.1	10.1
85°	10.1	10.3	10.4	10.5	10.4	10.2	10.1
82.5°	10.1	10.4	10.6	10.7	10.6	10.2	10.1
80°	10.2	10.6	10.8	10.9	10.8	10.3	10.1
77.5°	10.7	10.8	11.0	11.1	10.9	10.3	10.1
75°	11.2	11.1	11.2	11.3	11.1	10.3	10.1
72.5°	11.7	11.4	11.4	11.5	11.2	10.4	10.1
70°	12.1	11.7	11.5	11.7	11.4	10.4	10.1
67.5°	12.1	12.0	11.7	11.8	11.5	10.5	10.1
65°	12.1	12.1	11.8	11.8	11.6	10.5	10.1
62.5°	12.1	12.1	12.0	11.9	11.7	10.5	10.1
60°	12.1	12.1	12.1	11.9	11.8	10.5	10.1
57.5°	12.1	12.1	12.1	12.0	11.8	10.6	10.1
55°	12.1	12.1	12.1	12.0	11.8	10.6	10.1
52.5°	12.1	12.1	12.1	12.1	11.8	10.6	10.1
50°	12.1	12.1	12.1	12.1	11.8	10.6	10.1
47.5°	12.1	12.1	12.1	12.1	11.8	10.6	10.1
45°	12.3	12.1	12.1	12.1	11.8	10.6	10.1
42.5°	12.5	12.1	12.1	12.1	11.8	10.6	10.1
40°	12.7	12.1	12.1	12.1	11.8	10.6	10.1
37.5°	12.9	12.1	12.1	12.1	11.8	10.6	10.1
35°	13.2	12.2	12.1	12.1	11.8	10.6	10.1
32.5°	13.5	12.4	12.1	12.1	11.8	10.6	10.1
30°	13.6	12.7	12.1	12.1	11.8	10.5	10.1
27.5°	13.7	12.9	12.1	12.1	11.9	10.5	10.1
25°	13.8	13.1	12.1	12.1	11.9	10.5	10.1
22.5°	13.9	13.3	12.1	12.1	11.9	10.5	10.1
20°	14.1	13.5	12.1	12.1	11.9	10.4	10.1
17.5°	14.2	13.6	12.1	12.1	12.0	10.4	10.1
15°	14.4	13.8	12.1	12.1	12.0	10.4	10.1
12.5°	14.7	13.9	12.1	12.1	12.0	10.3	10.1
10°	14.9	13.9	12.1	12.1	12.0	10.3	10.1
7.5°	15.2	14.0	12.1	12.1	12.1	10.2	10.1
5°	15.5	14.1	12.1	12.1	12.1	10.2	10.1
2.5°	15.8	14.1	12.1	12.1	12.1	10.1	10.1
0°	16.1	14.1	12.1	12.1	12.1	10.1	10.1
-2.5°	17.7	14.1	12.1	12.1	12.1	10.1	10.1
-5°	19.2	14.1	12.1	12.1	12.1	10.1	10.1
-7.5°	20.6	14.0	12.1	12.1	12.1	10.1	10.1
-10°	21.8	13.9	12.1	12.1	12.0	10.1	10.1
-12.5°	22.7	13.9	12.1	12.1	12.0	10.1	10.1
-15°	23.3	13.8	12.1	12.1	12.0	10.1	10.1
-17.5°	23.5	13.6	12.1	12.1	11.9	10.1	10.1
-20°	23.9	13.5	12.1	12.1	11.9	10.1	10.1



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	24.6	13.3	12.1	12.1	11.8	10.1	10.1
-25°	24.6	13.5	12.1	12.1	11.7	10.1	10.1
-27.5°	23.9	13.8	12.1	12.1	11.6	10.1	10.1
-30°	22.5	14.0	12.1	12.1	11.6	10.1	10.1
-32.5°	20.3	14.0	12.3	12.1	11.5	10.1	10.1
-35°	19.5	13.8	12.5	12.1	11.4	10.1	10.1
-37.5°	19.3	13.7	12.6	12.1	11.3	10.1	10.1
-40°	18.9	13.9	12.7	12.1	11.2	10.1	10.1
-42.5°	18.2	14.0	12.8	12.1	11.0	10.1	10.1
-45°	17.2	14.1	12.9	12.2	10.9	10.1	10.1
-47.5°	16.0	14.1	12.9	12.2	10.8	10.1	10.1
-50°	15.8	14.1	12.9	12.1	10.7	10.1	10.1
-52.5°	15.8	14.1	12.9	11.9	10.5	10.1	10.1
-55°	15.7	14.1	12.9	11.8	10.4	10.1	10.1
-57.5°	15.5	14.0	12.9	11.6	10.2	10.1	10.1
-60°	15.3	13.8	12.8	11.4	10.1	10.1	10.1
-62.5°	15.0	13.7	12.6	11.2	10.1	10.1	10.1
-65°	14.7	13.5	12.3	11.0	10.1	10.1	10.1
-67.5°	14.4	13.2	12.0	10.8	10.1	10.1	10.1
-70°	14.0	12.8	11.7	10.6	10.1	10.1	10.1
-72.5°	13.5	12.5	11.4	10.5	10.1	10.1	10.1
-75°	13.1	12.1	11.1	10.4	10.1	10.1	10.1
-77.5°	12.6	11.7	10.9	10.4	10.1	10.1	10.1
-80°	12.1	11.4	10.8	10.3	10.1	10.1	10.1
-82.5°	11.6	11.1	10.6	10.3	10.1	10.1	10.1
-85°	11.1	10.7	10.4	10.2	10.1	10.1	10.1
-87.5°	10.6	10.4	10.3	10.2	10.1	10.1	10.1
-90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1

(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

