

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: P735978 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-80-4S-VHE-S**

Issue Date: 1/29/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P735978 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-57-80-4S-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

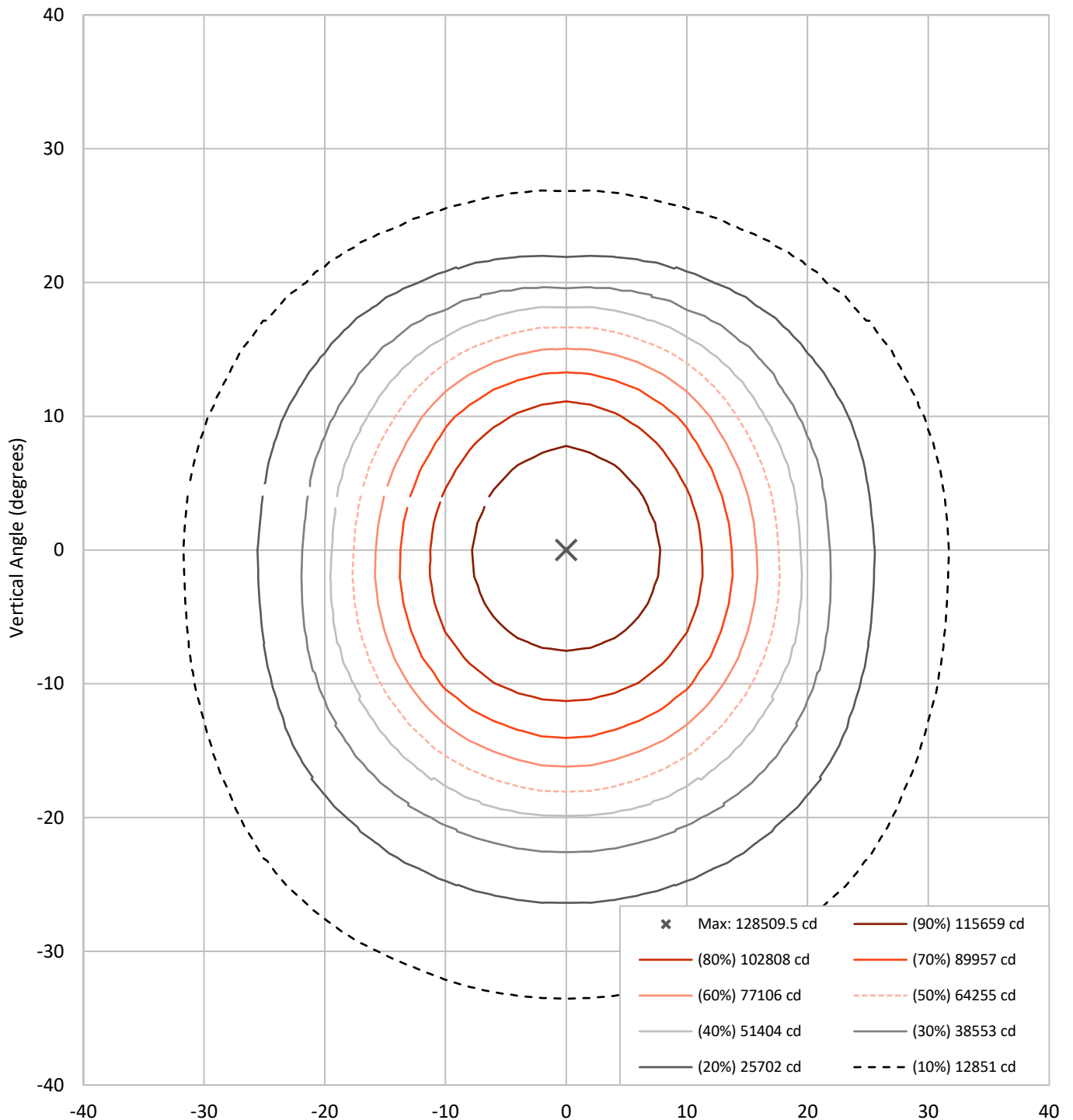
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	53308.3 lumens	Max Intensity:	128509.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	154.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	28612.2 lumens	Field Lumens:	46560.5 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

Input Watts (W): 344.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





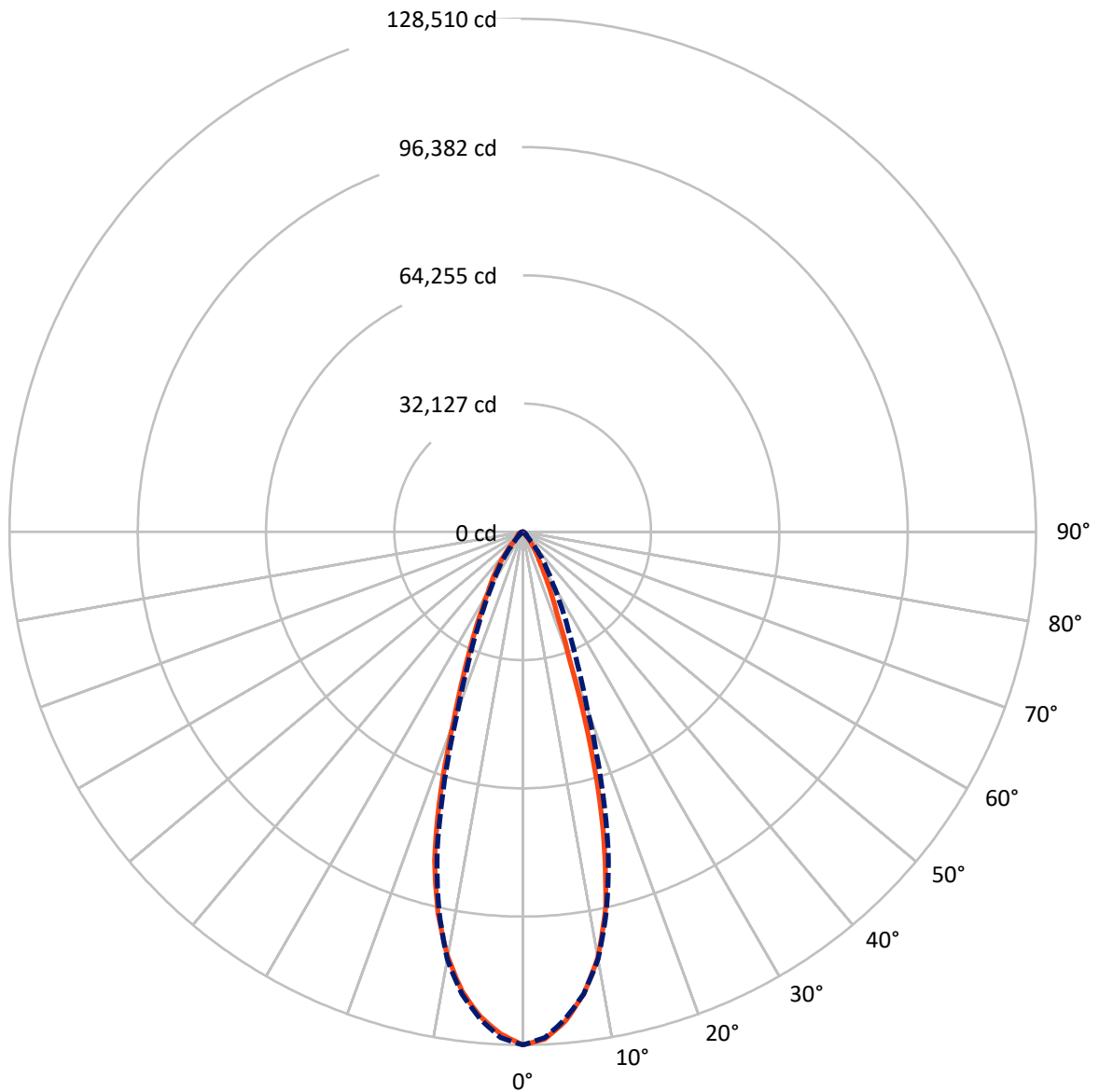
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### Lumen Table

90	0.2		0.6		1.0		1.4		1.6		1.4		1.0		0.6		0.2	
80	0.2		0.1	0.1	0.3	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.1	0.1	0.2	
70	0.2		0.2	0.4	0.7	0.7	0.5	0.6	0.7	0.7	0.6	0.5	0.7	0.7	0.4	0.2	0.2	
60	0.5		0.7	1.5	3.1	5.6	8.9	12.9	16.7	16.7	12.9	8.9	5.6	3.1	1.5	0.7	0.5	
50	0.5		1.6	5.1	9.7	15.9	36.8	82.3	133.3	133.3	82.3	36.8	15.9	9.7	5.1	1.6	0.5	
40	1.2		2.8	8.5	16.4	51.5	158.3	345.3	523.7	523.7	345.3	158.3	51.5	16.4	8.5	2.8	1.2	
30	1.2		3.8	11.1	26.2	133.9	444.1	1186.5	2108.4	2108.4	1186.5	444.1	133.9	26.2	11.1	3.8	1.2	
20	1.7		4.6	13.0	36.4	209.6	728.9	2157.4	3454.6	3454.6	2157.4	728.9	209.6	36.4	13.0	4.6	1.7	
10	1.7		5.2	14.5	40.7	224.6	765.5	2261.7	3481.9	3481.9	2261.7	765.5	224.6	40.7	14.5	5.2	1.7	
0	2.0		5.3	15.3	37.4	179.3	565.5	1423.7	2339.0	2339.0	1423.7	565.5	179.3	37.4	15.3	5.3	2.0	
-10	2.0		5.0	15.2	32.1	98.7	314.1	616.6	890.4	890.4	616.6	314.1	98.7	32.1	15.2	5.0	2.0	
-20	1.8		4.3	13.7	26.9	47.4	116.5	234.8	324.6	324.6	234.8	116.5	47.4	26.9	13.7	4.3	1.8	
-30	1.8		3.3	10.3	21.5	33.9	47.0	64.2	82.1	82.1	64.2	47.0	33.9	21.5	10.3	3.3	1.8	
-40	1.6		2.5	6.4	14.0	24.1	32.5	39.2	44.0	44.0	39.2	32.5	24.1	14.0	6.4	2.5	1.6	
-50	1.6		1.9	3.8	7.1	12.1	17.1	21.8	24.9	24.9	21.8	17.1	12.1	7.1	3.8	1.9	1.6	
-60	1.1		6.7		15.2		24.6		30.2		24.6		15.2		6.7		1.1	
-70	1.1		6.7		15.2		24.6		30.2		24.6		15.2		6.7		1.1	
-80	1.1		6.7		15.2		24.6		30.2		24.6		15.2		6.7		1.1	
-90	1.1		6.7		15.2		24.6		30.2		24.6		15.2		6.7		1.1	

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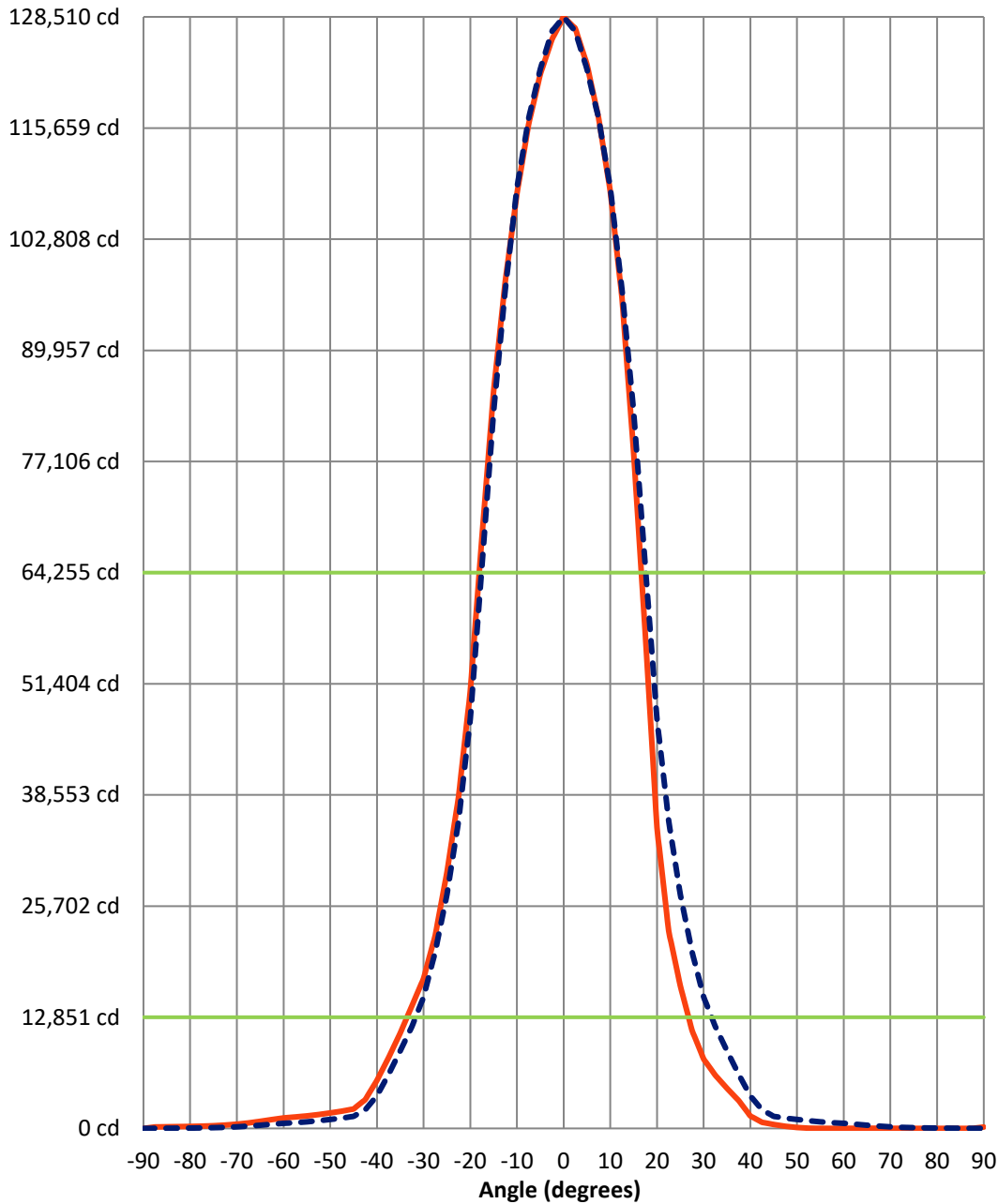
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 35.2°  
 V Angle: 34.7°  
 Lumens: 28612.2  
 Efficiency: 53.7%

**Field:**  
 H Angle: 63.4°  
 V Angle: 60.3°  
 Lumens: 46560.5  
 Efficiency: 87.3%

**Spill:**  
 Lumens: 6747.8  
 Efficiency: 12.7%

— 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°	5.7	10.8	15.9	26.0	36.2	45.4	54.7	62.0	69.3	74.1	78.8
87.5°	5.7	5.2	4.6	4.7	4.7	4.7	4.7	4.3	4.0	4.1	4.1
85°	5.7	5.3	4.7	4.8	4.9	4.9	4.8	4.5	4.3	4.3	4.4
82.5°	5.7	5.4	4.8	5.0	5.1	5.1	5.0	4.8	4.5	4.6	4.7
80°	5.7	5.5	4.9	5.1	5.3	5.3	5.2	5.1	5.0	5.0	4.9
77.5°	5.7	5.7	5.1	5.3	5.5	5.5	5.5	5.5	5.4	5.4	5.2
75°	5.7	5.8	5.2	5.4	5.7	5.8	5.9	5.9	5.8	5.6	5.2
72.5°	5.7	5.9	5.3	5.6	6.0	6.1	6.2	6.2	6.1	5.8	5.4
70°	5.7	6.0	5.5	5.7	6.2	6.4	6.6	6.6	6.4	6.1	5.9
67.5°	5.7	6.1	5.7	6.0	6.5	6.7	7.0	6.9	6.8	6.6	6.5
65°	5.7	6.3	5.8	6.3	6.8	7.1	7.5	7.3	7.5	7.1	7.2
62.5°	5.7	6.4	6.0	6.5	7.0	7.7	8.0	8.1	8.4	7.9	8.6
60°	5.7	6.5	6.2	6.8	7.3	8.3	8.6	9.2	9.4	10.0	10.2
57.5°	5.7	6.6	6.6	7.1	8.0	8.9	9.8	10.4	11.7	12.5	13.9
55°	5.7	6.8	6.9	7.3	8.7	9.6	11.1	11.8	14.5	15.8	18.6
52.5°	5.7	6.9	7.3	7.6	9.4	10.4	12.5	14.6	17.5	21.3	23.8
50°	5.7	7.0	7.7	7.9	10.2	11.8	13.9	17.7	21.5	27.2	30.8
47.5°	5.7	7.2	8.2	8.3	11.0	13.3	15.7	21.0	27.3	33.5	38.7
45°	5.7	7.3	8.6	8.9	11.9	14.9	18.6	24.3	33.5	41.3	47.2
42.5°	5.7	7.4	9.1	9.6	12.7	16.5	21.5	29.0	39.9	49.5	60.9
40°	5.7	7.6	9.6	10.5	13.8	18.2	24.6	34.8	47.0	58.1	76.7
37.5°	5.7	7.7	10.1	11.6	15.2	20.0	27.9	40.7	55.1	69.2	93.8
35°	5.7	7.9	10.7	12.7	16.5	22.3	31.2	46.7	63.6	85.1	114.6
32.5°	5.7	8.0	11.2	13.9	17.9	24.9	34.9	52.7	72.5	101.3	138.3
30°	5.7	8.1	11.8	15.0	19.2	27.5	39.8	58.8	81.6	117.9	160.9
27.5°	5.7	8.3	12.4	16.2	21.1	30.0	44.5	65.5	91.6	134.7	182.4
25°	5.7	8.4	13.0	17.3	23.0	32.5	49.1	71.9	103.1	152.2	202.7
22.5°	5.7	8.5	13.5	18.5	24.8	35.0	53.5	78.0	113.8	165.8	223.5
20°	5.7	8.6	14.1	19.7	26.6	37.9	57.7	83.7	123.8	178.5	240.4
17.5°	5.7	8.8	14.7	20.8	28.4	40.7	62.1	89.1	133.0	190.2	256.1
15°	5.7	8.9	15.3	21.9	30.0	43.5	66.5	94.5	141.4	201.0	270.9
12.5°	5.7	9.0	15.9	23.0	31.7	46.1	70.5	99.9	149.8	210.8	284.7
10°	5.7	9.1	16.4	24.1	33.2	48.6	74.3	105.0	158.1	223.4	299.8
7.5°	5.7	9.2	16.9	25.1	34.7	51.0	77.9	109.7	165.7	235.8	319.2
5°	5.7	9.3	17.5	26.1	36.2	53.2	81.1	114.1	172.4	247.4	337.5
2.5°	5.7	9.4	17.9	27.1	37.5	55.3	83.9	118.0	178.2	257.8	354.3
0°	5.7	9.5	18.4	28.0	38.8	57.2	86.5	121.4	183.1	267.0	369.4
-2.5°	5.7	9.8	19.1	29.2	40.6	59.5	89.5	125.6	189.5	274.5	376.9
-5°	5.7	10.2	19.8	30.3	42.3	61.6	92.1	129.2	194.9	280.5	382.4
-7.5°	5.7	10.5	20.4	31.4	43.9	63.6	94.3	132.3	199.0	284.9	385.9
-10°	5.7	10.8	21.0	32.4	45.4	65.3	96.2	134.8	201.9	287.7	387.4
-12.5°	5.7	11.1	21.6	33.3	46.8	66.8	97.7	136.7	203.4	288.7	389.1
-15°	5.7	11.4	22.1	34.1	48.1	68.1	98.7	137.9	203.2	287.4	389.0
-17.5°	5.7	11.7	22.6	34.9	49.2	69.2	99.3	138.7	201.2	284.2	385.7
-20°	5.7	11.9	23.0	35.6	50.2	70.1	99.8	139.1	198.0	279.1	379.1



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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°	5.7	12.2	23.4	36.2	51.1	70.8	100.3	138.9	193.6	272.0	369.2
-25°	5.7	12.4	23.7	36.7	51.8	71.7	100.3	138.1	188.0	262.8	358.9
-27.5°	5.7	12.6	24.0	37.1	52.3	72.4	99.9	136.7	181.2	255.0	350.1
-30°	5.7	12.8	24.2	37.4	52.8	72.9	99.0	134.6	177.2	247.7	338.5
-32.5°	5.7	12.9	24.4	37.7	53.5	73.2	97.7	132.9	174.8	238.6	324.1
-35°	5.7	13.1	24.6	37.8	54.0	73.2	97.2	130.9	171.4	227.5	306.7
-37.5°	5.7	13.2	24.7	37.9	54.4	73.2	96.9	128.2	167.1	214.4	290.0
-40°	5.7	13.3	24.7	37.8	54.6	73.5	96.3	124.9	161.8	206.1	273.7
-42.5°	5.7	13.4	24.7	37.8	54.8	73.6	95.3	120.8	156.6	199.2	255.5
-45°	5.7	13.4	24.6	37.9	54.9	73.5	93.8	117.4	151.2	191.0	237.0
-47.5°	5.7	13.4	24.5	37.8	54.9	73.2	92.1	115.3	144.8	181.6	226.2
-50°	5.7	13.5	24.4	37.8	54.7	72.7	91.1	112.9	137.6	173.1	214.0
-52.5°	5.7	13.4	24.2	37.8	54.3	72.1	90.2	110.1	132.8	163.7	199.8
-55°	5.7	13.4	23.9	37.6	53.7	71.2	89.0	107.1	128.8	153.2	186.2
-57.5°	5.7	13.3	23.6	37.3	53.1	70.1	87.5	105.4	124.3	146.5	171.7
-60°	5.7	13.3	23.3	37.0	52.2	68.9	85.9	103.2	119.8	140.6	158.7
-62.5°	5.7	13.1	22.9	36.5	51.5	67.4	84.0	100.6	116.6	133.8	150.5
-65°	5.7	13.0	22.5	35.9	50.6	65.8	81.8	97.8	113.1	128.3	141.9
-67.5°	5.7	12.9	22.1	35.3	49.6	64.1	79.4	94.5	109.2	123.1	135.1
-70°	5.7	12.7	21.5	34.5	48.5	62.3	76.8	91.1	105.1	117.6	129.0
-72.5°	5.7	12.5	21.0	33.7	47.3	60.4	74.2	87.5	100.7	112.1	122.6
-75°	5.7	12.3	20.4	32.8	45.9	58.4	71.4	83.7	96.2	106.4	116.1
-77.5°	5.7	12.1	19.7	31.9	44.5	56.1	68.3	79.8	91.4	100.6	109.3
-80°	5.7	11.9	19.0	30.9	43.0	54.1	65.1	75.7	86.4	94.6	102.5
-82.5°	5.7	11.6	18.3	29.7	41.5	52.1	62.6	71.9	81.3	88.5	95.7
-85°	5.7	11.4	17.5	28.6	39.8	49.9	60.1	68.7	77.4	83.4	89.4
-87.5°	5.7	11.1	16.7	27.3	38.0	47.7	57.4	65.4	73.4	78.8	84.1
-90°	5.7	5.1	4.5	4.5	4.5	4.5	4.5	4.2	3.8	3.8	3.8





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	82.3	85.8	89.0	92.2	96.0	99.8	103.6	107.4	111.6	115.7	119.9
87.5°	3.8	3.5	3.5	3.5	3.2	3.0	2.7	2.5	2.5	2.5	2.4
85°	4.1	3.8	3.8	3.8	3.6	3.4	3.1	2.8	2.8	2.9	2.7
82.5°	4.4	4.2	4.0	3.8	3.8	3.8	3.5	3.3	3.3	3.2	3.0
80°	4.7	4.5	4.2	4.0	4.0	3.8	3.7	3.7	3.5	3.3	3.3
77.5°	4.9	4.6	4.4	4.4	4.2	3.9	3.8	3.8	3.7	3.7	3.6
75°	4.9	4.6	4.6	4.5	4.3	3.9	3.8	4.0	4.0	3.9	3.8
72.5°	5.1	5.0	4.8	4.6	4.5	4.3	4.3	4.4	4.8	5.1	5.4
70°	5.7	5.4	5.3	5.1	4.9	4.9	5.4	6.5	7.5	8.0	9.0
67.5°	6.3	6.1	6.0	5.8	5.8	6.3	7.0	9.4	11.4	12.8	14.4
65°	6.9	6.8	6.9	6.9	7.0	9.0	11.1	13.4	16.9	18.9	19.0
62.5°	7.7	8.7	8.3	8.9	10.7	12.8	16.0	20.1	24.6	26.5	25.3
60°	11.0	11.5	11.8	13.1	14.9	17.2	21.6	26.6	31.9	35.1	30.4
57.5°	15.1	15.8	17.0	17.8	19.8	21.1	26.3	32.5	35.9	38.0	32.6
55°	20.3	21.3	23.1	23.5	25.1	25.7	30.1	34.3	37.1	37.8	32.0
52.5°	26.9	28.0	30.6	31.0	31.1	31.6	32.2	36.9	39.2	38.5	33.2
50°	34.0	38.0	39.4	40.8	38.9	39.7	37.6	43.0	47.5	46.3	47.9
47.5°	44.5	49.5	51.4	54.0	52.7	57.1	55.5	65.8	69.4	89.9	94.4
45°	57.2	65.9	68.5	74.6	80.7	85.8	102.4	103.7	147.1	165.2	199.2
42.5°	72.4	86.0	97.0	99.3	128.8	144.6	167.6	205.5	243.5	278.3	301.5
40°	94.8	109.0	132.7	160.4	191.8	225.6	256.3	300.3	337.1	364.5	380.8
37.5°	120.5	147.4	179.7	229.7	272.1	306.6	341.4	379.4	414.1	438.2	469.5
35°	148.6	187.8	247.9	299.9	345.4	377.8	411.8	452.1	484.9	523.7	562.4
32.5°	182.7	229.1	304.4	360.6	397.5	435.9	475.2	517.6	564.5	612.3	661.8
30°	216.5	275.5	349.2	407.5	443.3	488.0	535.8	585.5	647.0	707.2	774.2
27.5°	243.1	315.4	385.4	445.8	487.4	540.4	598.7	663.5	736.6	810.3	899.3
25°	266.8	345.1	422.0	486.0	538.9	597.7	666.1	743.9	830.9	934.6	1214.3
22.5°	289.9	374.0	462.4	529.1	588.5	654.9	737.5	828.3	930.6	1068.4	1563.1
20°	313.7	406.7	501.1	564.9	633.8	708.3	805.0	910.4	1037.2	1362.7	2092.4
17.5°	338.1	440.5	534.0	596.3	668.9	759.7	872.2	991.0	1145.7	1638.2	2755.3
15°	361.9	472.3	560.4	624.1	704.2	809.8	935.5	1081.1	1337.8	2022.7	3419.4
12.5°	384.7	500.9	580.0	648.0	739.0	857.1	994.2	1157.6	1563.4	2541.7	4143.8
10°	406.1	526.3	597.1	670.9	773.0	901.5	1046.8	1225.0	1760.4	2956.4	4717.3
7.5°	429.3	548.0	612.5	692.5	804.4	942.1	1090.1	1276.8	1907.1	3274.4	5143.2
5°	450.3	565.6	630.3	717.9	835.6	978.7	1127.1	1320.2	2007.3	3475.9	5438.9
2.5°	468.7	579.7	646.9	742.0	864.8	1010.8	1160.7	1363.6	2096.7	3646.3	5813.1
0°	484.4	590.6	661.8	763.5	890.0	1037.5	1188.2	1398.6	2156.5	3761.1	6246.9
-2.5°	494.0	607.0	686.6	786.1	910.9	1056.5	1213.0	1436.0	2217.0	4009.1	6412.1
-5°	500.9	620.2	708.9	805.8	927.8	1070.3	1231.2	1462.5	2243.0	4077.4	6364.0
-7.5°	504.9	629.9	728.0	823.1	942.9	1086.4	1259.9	1498.0	2254.8	3909.2	6091.3
-10°	507.0	637.9	740.5	837.4	956.8	1101.2	1282.2	1520.8	2206.4	3682.3	5777.5
-12.5°	512.5	644.8	750.4	848.0	966.2	1111.8	1299.7	1538.0	2096.1	3370.6	5346.3
-15°	513.9	648.3	758.7	855.2	975.9	1127.4	1312.9	1541.0	1936.8	2967.8	4795.7
-17.5°	511.0	648.5	764.5	860.9	980.8	1133.4	1317.1	1532.5	1817.7	2675.0	4241.7
-20°	503.6	640.9	766.2	861.5	978.9	1135.8	1319.1	1528.9	1788.7	2375.7	3569.8



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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°	491.5	628.9	760.0	860.5	985.3	1136.9	1313.1	1506.2	1725.7	2014.7	2901.0
-25°	478.5	611.9	743.9	863.6	986.5	1131.6	1287.4	1464.8	1667.4	1893.4	2423.9
-27.5°	464.5	592.1	727.4	859.7	980.5	1111.7	1256.4	1422.7	1589.6	1772.2	1998.0
-30°	447.6	570.5	705.2	845.8	966.2	1088.9	1222.3	1356.7	1506.3	1670.6	1862.0
-32.5°	427.3	545.1	677.8	816.7	947.4	1062.3	1173.9	1294.6	1428.1	1573.0	1731.3
-35°	405.3	519.4	645.6	781.2	924.4	1029.9	1126.9	1231.3	1349.5	1481.9	1628.9
-37.5°	382.9	489.7	607.8	740.0	879.3	989.8	1077.2	1174.6	1278.6	1392.0	1528.7
-40°	357.6	455.5	568.5	693.4	816.9	936.3	1032.3	1120.6	1212.0	1315.8	1427.4
-42.5°	330.3	422.3	525.3	638.6	750.7	864.6	984.8	1071.6	1153.4	1241.5	1339.3
-45°	307.4	385.5	478.7	579.4	680.5	790.8	906.7	1022.8	1097.5	1173.7	1257.1
-47.5°	281.0	348.3	433.5	517.4	610.7	714.6	824.5	932.1	1038.2	1112.3	1182.5
-50°	255.8	316.7	381.8	459.0	542.1	638.1	738.7	837.1	936.6	1037.0	1117.1
-52.5°	238.4	282.9	339.4	400.3	477.2	562.0	650.3	737.9	831.4	927.2	1019.5
-55°	219.7	257.8	298.0	349.8	413.1	488.6	562.0	640.6	720.9	809.3	899.1
-57.5°	201.8	233.4	265.0	304.4	357.6	415.3	479.7	544.2	616.9	691.0	767.9
-60°	184.1	210.0	236.9	268.3	305.0	353.6	400.2	456.4	516.8	577.7	646.1
-62.5°	167.2	188.3	210.7	237.2	267.9	296.6	335.1	378.7	422.2	476.2	531.6
-65°	157.3	169.0	186.6	209.6	233.5	258.9	283.9	310.6	348.5	388.7	428.1
-67.5°	146.7	157.5	168.5	182.7	203.7	223.5	243.6	267.0	291.2	317.3	345.9
-70°	138.8	146.4	156.1	167.3	178.2	190.2	208.1	226.7	245.3	265.6	288.1
-72.5°	131.3	138.4	145.7	153.5	163.1	172.2	181.6	191.7	206.4	224.2	240.9
-75°	123.8	130.3	136.9	143.8	151.0	157.9	165.3	174.4	184.5	195.4	205.6
-77.5°	116.1	122.1	128.2	134.1	140.6	147.4	153.8	160.2	168.1	176.6	184.6
-80°	108.5	113.8	119.5	125.0	130.7	136.6	142.2	147.7	154.5	161.8	168.9
-82.5°	101.1	106.1	111.0	115.8	120.8	125.6	130.7	135.8	142.1	148.5	154.5
-85°	93.9	98.4	102.5	106.6	111.2	115.7	120.0	124.3	130.0	135.7	141.0
-87.5°	88.1	92.1	95.6	99.1	103.1	107.2	110.9	114.6	119.5	124.4	128.8
-90°	3.5	3.2	3.2	3.2	2.9	2.5	2.5	2.5	2.5	2.5	2.2



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	124.0	126.9	129.7	131.6	133.5	136.4	139.2	143.4	147.5	151.0	154.5
87.5°	2.4	2.2	1.9	1.9	1.8	1.9	1.9	1.6	1.3	1.3	1.3
85°	2.5	2.4	2.3	2.4	2.4	2.2	1.9	1.9	1.9	1.9	1.9
82.5°	2.8	2.7	2.5	2.5	2.5	2.4	2.4	2.2	1.9	1.9	1.9
80°	3.2	3.0	2.9	2.7	2.5	2.5	2.5	2.2	1.9	1.9	1.9
77.5°	3.3	3.3	3.2	2.9	2.6	2.5	2.5	2.2	1.9	1.9	1.9
75°	3.7	3.7	3.7	3.6	3.5	3.6	3.8	3.7	3.5	3.3	3.1
72.5°	5.7	5.8	5.6	6.0	6.3	6.6	6.8	7.0	7.2	7.7	8.2
70°	10.2	11.0	11.0	10.9	10.9	10.6	10.2	10.1	10.2	10.3	10.5
67.5°	15.3	15.9	16.2	16.4	14.9	14.0	13.6	13.6	14.2	15.3	17.0
65°	19.5	18.3	17.2	16.1	16.2	16.2	15.4	15.1	15.6	16.3	17.1
62.5°	23.2	18.4	15.4	13.8	14.1	14.6	13.2	12.1	11.8	11.6	11.6
60°	24.9	17.4	12.2	10.3	9.3	8.7	7.8	6.7	6.3	6.2	6.4
57.5°	25.2	16.5	9.8	7.7	5.9	4.5	3.8	3.3	3.3	3.2	3.1
55°	24.3	16.7	9.4	8.6	7.9	7.3	6.3	6.2	5.8	5.7	6.1
52.5°	25.2	23.4	19.1	18.6	22.7	22.8	19.6	24.2	27.2	29.6	30.7
50°	49.9	47.9	60.6	60.6	73.3	84.3	81.1	87.5	98.5	108.1	114.0
47.5°	116.5	125.7	144.7	161.7	180.8	205.1	215.8	223.5	233.1	246.1	254.7
45°	217.1	239.8	264.4	292.0	324.1	352.5	369.0	384.9	395.4	407.0	420.6
42.5°	322.4	349.5	386.0	418.9	453.6	486.8	512.9	535.9	580.8	645.0	695.9
40°	412.5	443.3	485.7	529.5	570.5	612.4	727.9	826.3	948.9	1131.9	1294.1
37.5°	502.0	537.6	584.9	638.6	762.1	887.2	1139.3	1411.7	1647.7	1912.3	2179.5
35°	599.5	646.3	709.5	890.3	1118.9	1452.2	1813.8	2218.3	2561.7	2931.2	3472.5
32.5°	714.6	796.5	1000.8	1329.4	1739.3	2212.7	2661.3	3169.8	3598.6	4277.5	5104.3
30°	863.1	1119.5	1511.8	1965.6	2518.7	3117.9	3680.2	4503.9	5466.1	6317.8	7021.2
27.5°	1221.1	1716.4	2264.1	2839.1	3531.8	4257.9	5437.0	6503.0	7538.3	8457.9	9526.4
25°	1755.7	2550.2	3486.3	4257.2	5198.4	6510.7	7844.0	9018.0	10591.4	11975.3	13527.7
22.5°	2511.9	3643.2	4848.8	5974.5	7419.9	9063.5	10857.3	13020.4	15206.1	17634.1	19794.1
20°	3249.9	4681.2	6208.1	7828.6	9679.7	11734.7	14666.9	18177.4	21545.5	25370.7	28596.2
17.5°	4232.8	5963.0	7768.8	9828.7	12208.6	15370.1	19698.1	24498.2	29706.6	35418.5	40700.6
15°	5232.3	7096.3	9194.5	11830.8	15197.2	19494.0	25015.4	31549.9	39166.8	47563.6	57771.9
12.5°	6051.4	8089.6	10543.1	13865.5	18268.3	24014.6	30704.3	38570.3	49012.7	61677.4	73537.6
10°	6751.2	9195.2	12295.5	16227.6	21406.3	27893.5	35492.9	45231.5	59298.1	73969.6	86985.0
7.5°	7472.0	10363.4	13646.8	17910.1	23798.3	31161.8	40519.6	53237.0	68713.9	83762.0	95697.7
5°	8152.0	11160.0	14499.4	19054.3	25421.9	33330.3	43947.9	59437.6	76279.8	91018.5	102232.0
2.5°	8684.6	11560.6	14948.4	19906.4	26299.6	34508.8	46096.9	63271.9	80939.4	95465.0	106963.6
0°	8960.9	11777.9	15197.6	20439.3	27027.6	35590.5	47328.9	64963.9	82834.8	96980.2	108700.2
-2.5°	8899.7	11673.0	15043.3	20028.0	26861.2	35786.1	48353.4	65845.7	83161.3	97497.0	108542.4
-5°	8771.1	11507.8	14831.6	19522.6	26265.4	35294.1	47241.0	63323.0	80045.9	94751.1	105489.1
-7.5°	8531.5	11231.1	14409.2	18783.4	25278.1	33827.9	44608.8	58583.5	74626.3	89359.8	99755.0
-10°	8178.9	10803.8	13803.1	17781.4	23614.1	31467.0	40632.6	51545.8	66553.2	80328.3	91878.8
-12.5°	7677.8	10199.2	12962.2	16380.8	21604.3	28524.9	36426.5	45494.0	56220.1	69505.1	80331.8
-15°	7040.1	9411.4	11978.9	15204.5	19572.1	25242.5	31904.6	38938.9	47160.0	56330.4	66883.6
-17.5°	6257.5	8485.0	10875.9	13656.7	17189.0	21946.5	27216.5	32705.2	38639.3	45387.9	51588.0
-20°	5324.3	7361.8	9615.0	12201.4	15228.2	18664.5	22495.4	26932.7	31532.4	36349.0	40610.5



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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°	4376.7	6235.4	8382.5	10644.1	13274.7	15897.7	18470.8	21770.1	25322.2	28809.2	31981.1
-25°	3424.5	5065.3	7061.6	9182.9	11294.4	13436.9	15526.1	17574.8	20130.8	22375.3	24703.5
-27.5°	2720.0	3947.5	5623.7	7474.9	9314.8	11102.6	12908.9	14620.1	16232.1	17587.6	19157.3
-30°	2139.1	2967.7	4262.6	5719.3	7329.2	8904.4	10460.9	11906.5	13175.9	14291.9	15381.9
-32.5°	1934.1	2272.3	3041.9	4148.9	5418.9	6800.9	8101.9	9343.6	10390.1	11427.3	12403.9
-35°	1789.1	1975.4	2227.0	2918.5	3745.6	4845.4	5865.2	6895.7	7774.5	8810.4	9611.3
-37.5°	1670.2	1813.8	1972.8	2135.9	2638.9	3189.5	3923.8	4696.2	5375.2	6244.1	6951.2
-40°	1555.2	1682.3	1806.6	1930.6	2064.3	2187.2	2624.2	3022.6	3483.2	4077.6	4586.1
-42.5°	1444.0	1555.9	1663.5	1764.3	1857.8	1938.4	2026.4	2110.7	2359.4	2662.4	2895.0
-45°	1344.2	1439.3	1529.4	1614.6	1685.9	1750.4	1818.2	1888.7	1981.2	2065.2	2134.6
-47.5°	1259.3	1334.5	1408.3	1477.8	1532.4	1587.6	1641.5	1702.4	1774.4	1845.0	1904.0
-50°	1182.6	1247.6	1303.7	1352.9	1398.3	1445.0	1488.0	1542.0	1599.9	1658.3	1707.1
-52.5°	1109.0	1166.9	1213.7	1251.2	1285.8	1323.9	1360.8	1404.0	1451.0	1500.1	1538.9
-55°	985.5	1059.0	1127.0	1162.2	1189.4	1220.7	1252.0	1286.9	1326.6	1367.9	1398.7
-57.5°	848.9	921.5	985.6	1031.2	1076.2	1122.2	1156.7	1184.0	1220.0	1255.2	1281.7
-60°	711.7	772.6	829.2	875.3	922.3	968.3	1007.1	1042.8	1087.2	1127.6	1160.5
-62.5°	584.1	637.3	681.0	718.3	758.4	798.4	835.3	870.5	910.9	947.1	977.9
-65°	468.0	512.7	545.0	574.3	606.2	639.4	668.6	697.7	730.2	759.2	784.5
-67.5°	378.4	408.1	428.2	446.9	472.2	498.0	520.8	544.0	568.9	590.9	610.0
-70°	309.8	328.3	340.7	355.1	373.0	389.5	404.5	421.5	439.8	456.6	471.9
-72.5°	256.9	269.6	278.8	290.3	301.7	312.2	321.7	333.8	347.1	360.1	372.5
-75°	215.2	223.4	232.2	240.5	248.3	255.9	263.0	272.8	283.0	292.8	302.1
-77.5°	193.1	199.2	204.1	208.7	213.0	217.9	222.8	231.0	240.0	247.5	254.6
-80°	175.9	180.7	184.8	188.3	191.5	195.5	199.6	206.3	213.4	219.7	225.9
-82.5°	160.5	164.6	168.5	171.7	174.7	178.2	181.6	187.5	193.6	199.0	204.2
-85°	146.2	149.7	153.1	156.0	158.8	162.0	165.1	170.3	175.4	180.2	185.0
-87.5°	133.3	136.4	139.5	141.7	143.9	147.0	150.0	154.6	159.2	163.4	167.6
-90°	1.9	1.9	1.9	1.6	1.3	1.3	1.3	1.3	1.3	1.0	0.6



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	156.4	158.3	158.6	158.9	158.6	158.3	156.4	154.5	151.0	147.5	143.4
87.5°	0.9	0.6	0.9	1.3	0.9	0.6	0.9	1.3	1.3	1.3	1.6
85°	1.9	1.9	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	1.9	1.9	1.9	2.2
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2
77.5°	1.6	1.3	1.6	1.9	1.6	1.3	1.6	1.9	1.9	1.9	2.2
75°	2.8	2.5	2.2	1.9	2.2	2.5	2.8	3.1	3.3	3.5	3.7
72.5°	8.5	8.7	9.1	9.5	9.1	8.7	8.5	8.2	7.7	7.2	7.0
70°	10.2	9.6	9.5	9.5	9.5	9.6	10.2	10.5	10.3	10.2	10.1
67.5°	18.2	19.2	19.6	19.7	19.6	19.2	18.2	17.0	15.3	14.2	13.6
65°	17.7	18.3	18.4	18.4	18.4	18.3	17.7	17.1	16.3	15.6	15.1
62.5°	11.9	12.2	12.4	12.7	12.4	12.2	11.9	11.6	11.6	11.8	12.1
60°	6.6	7.1	7.3	7.6	7.3	7.1	6.6	6.4	6.2	6.3	6.7
57.5°	3.1	3.3	3.5	3.8	3.5	3.3	3.1	3.1	3.2	3.3	3.3
55°	6.4	6.8	6.9	7.0	6.9	6.8	6.4	6.1	5.7	5.8	6.2
52.5°	30.2	28.7	27.5	26.7	27.5	28.7	30.2	30.7	29.6	27.2	24.2
50°	116.5	113.6	110.4	107.4	110.4	113.6	116.5	114.0	108.1	98.5	87.5
47.5°	259.9	257.6	252.8	246.7	252.8	257.6	259.9	254.7	246.1	233.1	223.5
45°	439.3	452.0	457.7	454.6	457.7	452.0	439.3	420.6	407.0	395.4	384.9
42.5°	713.2	724.5	725.5	708.9	725.5	724.5	713.2	695.9	645.0	580.8	535.9
40°	1411.5	1509.3	1542.8	1441.9	1542.8	1509.3	1411.5	1294.1	1131.9	948.9	826.3
37.5°	2501.6	2885.9	3206.4	3218.8	3206.4	2885.9	2501.6	2179.5	1912.3	1647.7	1411.7
35°	4054.3	4449.7	4640.8	4632.7	4640.8	4449.7	4054.3	3472.5	2931.2	2561.7	2218.3
32.5°	5698.4	5997.9	6189.3	6143.2	6189.3	5997.9	5698.4	5104.3	4277.5	3598.6	3169.8
30°	7523.6	7801.5	8024.6	8021.2	8024.6	7801.5	7523.6	7021.2	6317.8	5466.1	4503.9
27.5°	10396.2	10968.8	11424.0	11346.8	11424.0	10968.8	10396.2	9526.4	8457.9	7538.3	6503.0
25°	14837.1	15884.7	16625.3	16472.9	16625.3	15884.7	14837.1	13527.7	11975.3	10591.4	9018.0
22.5°	21397.7	22741.4	23303.3	22857.7	23303.3	22741.4	21397.7	19794.1	17634.1	15206.1	13020.4
20°	31669.0	34160.3	35709.3	34785.6	35709.3	34160.3	31669.0	28596.2	25370.7	21545.5	18177.4
17.5°	47537.1	52941.9	57212.3	57094.6	57212.3	52941.9	47537.1	40700.6	35418.5	29706.6	24498.2
15°	66659.7	72811.4	77548.2	78095.9	77548.2	72811.4	66659.7	57771.9	47563.6	39166.8	31549.9
12.5°	83782.0	90038.3	94673.7	96007.5	94673.7	90038.3	83782.0	73537.6	61677.4	49012.7	38570.3
10°	95985.0	102228.4	106715.0	108297.1	106715.0	102228.4	95985.0	86985.0	73969.6	59298.1	45231.5
7.5°	104937.0	111710.5	115073.7	116792.7	115073.7	111710.5	104937.0	95697.7	83762.0	68713.9	53237.0
5°	111378.5	117673.6	120927.2	123010.3	120927.2	117673.6	111378.5	102232.0	91018.5	76279.8	59437.6
2.5°	115439.1	121382.3	125289.5	127157.9	125289.5	121382.3	115439.1	106963.6	95465.0	80939.4	63271.9
0°	116749.8	122455.3	126834.7	128509.5	126834.7	122455.3	116749.8	108700.2	96980.2	82834.8	64963.9
-2.5°	116140.2	121729.2	125222.1	125899.1	125222.1	121729.2	116140.2	108542.4	97497.0	83161.3	65845.7
-5°	112967.7	118118.9	121344.2	121874.2	121344.2	118118.9	112967.7	105489.1	94751.1	80045.9	63323.0
-7.5°	107498.5	112637.1	115303.0	116087.9	115303.0	112637.1	107498.5	99755.0	89359.8	74626.3	58583.5
-10°	99568.7	104533.1	107382.4	108058.1	107382.4	104533.1	99568.7	91878.8	80328.3	66553.2	51545.8
-12.5°	88748.2	94044.3	97233.2	97935.8	97233.2	94044.3	88748.2	80331.8	69505.1	56220.1	45494.0
-15°	74717.4	80165.1	84235.9	85220.8	84235.9	80165.1	74717.4	66883.6	56330.4	47160.0	38938.9
-17.5°	58543.9	63995.4	67653.5	68351.8	67653.5	63995.4	58543.9	51588.0	45387.9	38639.3	32705.2
-20°	44614.3	48120.4	50185.0	50544.5	50185.0	48120.4	44614.3	40610.5	36349.0	31532.4	26932.7



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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°	34573.4	36929.9	38186.8	38364.2	38186.8	36929.9	34573.4	31981.1	28809.2	25322.2	21770.1
-25°	26791.1	28503.2	29439.5	29595.3	29439.5	28503.2	26791.1	24703.5	22375.3	20130.8	17574.8
-27.5°	20570.9	21634.5	22505.7	22324.3	22505.7	21634.5	20570.9	19157.3	17587.6	16232.1	14620.1
-30°	16277.5	16959.7	17474.2	17339.4	17474.2	16959.7	16277.5	15381.9	14291.9	13175.9	11906.5
-32.5°	13174.5	13708.9	14070.6	14167.0	14070.6	13708.9	13174.5	12403.9	11427.3	10390.1	9343.6
-35°	10239.8	10676.5	10927.2	11024.5	10927.2	10676.5	10239.8	9611.3	8810.4	7774.5	6895.7
-37.5°	7476.1	7859.2	8098.3	8181.4	8098.3	7859.2	7476.1	6951.2	6244.1	5375.2	4696.2
-40°	4975.5	5270.7	5466.6	5542.5	5466.6	5270.7	4975.5	4586.1	4077.6	3483.2	3022.6
-42.5°	3076.3	3214.5	3302.0	3329.4	3302.0	3214.5	3076.3	2895.0	2662.4	2359.4	2110.7
-45°	2188.2	2226.4	2248.3	2252.5	2248.3	2226.4	2188.2	2134.6	2065.2	1981.2	1888.7
-47.5°	1950.1	1980.2	1995.5	1996.2	1995.5	1980.2	1950.1	1904.0	1845.0	1774.4	1702.4
-50°	1747.4	1775.3	1789.4	1790.3	1789.4	1775.3	1747.4	1707.1	1658.3	1599.9	1542.0
-52.5°	1570.6	1592.9	1603.2	1603.4	1603.2	1592.9	1570.6	1538.9	1500.1	1451.0	1404.0
-55°	1423.9	1441.2	1447.6	1446.3	1447.6	1441.2	1423.9	1398.7	1367.9	1326.6	1286.9
-57.5°	1303.8	1320.8	1326.1	1324.3	1326.1	1320.8	1303.8	1281.7	1255.2	1220.0	1184.0
-60°	1186.1	1204.2	1211.1	1210.5	1211.1	1204.2	1186.1	1160.5	1127.6	1087.2	1042.8
-62.5°	999.9	1013.8	1021.3	1023.6	1021.3	1013.8	999.9	977.9	947.1	910.9	870.5
-65°	801.8	812.9	818.9	820.8	818.9	812.9	801.8	784.5	759.2	730.2	697.7
-67.5°	622.3	630.3	634.1	635.1	634.1	630.3	622.3	610.0	590.9	568.9	544.0
-70°	481.3	487.8	490.9	492.1	490.9	487.8	481.3	471.9	456.6	439.8	421.5
-72.5°	379.6	384.9	387.0	387.8	387.0	384.9	379.6	372.5	360.1	347.1	333.8
-75°	306.5	309.7	310.9	311.5	310.9	309.7	306.5	302.1	292.8	283.0	272.8
-77.5°	258.5	261.9	263.0	263.8	263.0	261.9	258.5	254.6	247.5	240.0	231.0
-80°	228.7	231.0	232.0	232.7	232.0	231.0	228.7	225.9	219.7	213.4	206.3
-82.5°	207.6	210.8	211.0	211.1	211.0	210.8	207.6	204.2	199.0	193.6	187.5
-85°	187.5	189.9	190.4	190.7	190.4	189.9	187.5	185.0	180.2	175.4	170.3
-87.5°	169.9	172.2	172.3	172.3	172.3	172.2	169.9	167.6	163.4	159.2	154.6
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.3	1.3



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	139.2	136.4	133.5	131.6	129.7	126.9	124.0	119.9	115.7	111.6	107.4
87.5°	1.9	1.9	1.8	1.9	1.9	2.2	2.4	2.4	2.5	2.5	2.5
85°	1.9	2.2	2.4	2.4	2.3	2.4	2.5	2.7	2.9	2.8	2.8
82.5°	2.4	2.4	2.5	2.5	2.5	2.7	2.8	3.0	3.2	3.3	3.3
80°	2.5	2.5	2.5	2.7	2.9	3.0	3.2	3.3	3.3	3.5	3.7
77.5°	2.5	2.5	2.6	2.9	3.2	3.3	3.3	3.6	3.7	3.7	3.8
75°	3.8	3.6	3.5	3.6	3.7	3.7	3.7	3.8	3.9	4.0	4.0
72.5°	6.8	6.6	6.3	6.0	5.6	5.8	5.7	5.4	5.1	4.8	4.4
70°	10.2	10.6	10.9	10.9	11.0	11.0	10.2	9.0	8.0	7.5	6.5
67.5°	13.6	14.0	14.9	16.4	16.2	15.9	15.3	14.4	12.8	11.4	9.4
65°	15.4	16.2	16.2	16.1	17.2	18.3	19.5	19.0	18.9	16.9	13.4
62.5°	13.2	14.6	14.1	13.8	15.4	18.4	23.2	25.3	26.5	24.6	20.1
60°	7.8	8.7	9.3	10.3	12.2	17.4	24.9	30.4	35.1	31.9	26.6
57.5°	3.8	4.5	5.9	7.7	9.8	16.5	25.2	32.6	38.0	35.9	32.5
55°	6.3	7.3	7.9	8.6	9.4	16.7	24.3	32.0	37.8	37.1	34.3
52.5°	19.6	22.8	22.7	18.6	19.1	23.4	25.2	33.2	38.5	39.2	36.9
50°	81.1	84.3	73.3	60.6	60.6	47.9	49.9	47.9	46.3	47.5	43.0
47.5°	215.8	205.1	180.8	161.7	144.7	125.7	116.5	94.4	89.9	69.4	65.8
45°	369.0	352.5	324.1	292.0	264.4	239.8	217.1	199.2	165.2	147.1	103.7
42.5°	512.9	486.8	453.6	418.9	386.0	349.5	322.4	301.5	278.3	243.5	205.5
40°	727.9	612.4	570.5	529.5	485.7	443.3	412.5	380.8	364.5	337.1	300.3
37.5°	1139.3	887.2	762.1	638.6	584.9	537.6	502.0	469.5	438.2	414.1	379.4
35°	1813.8	1452.2	1118.9	890.3	709.5	646.3	599.5	562.4	523.7	484.9	452.1
32.5°	2661.3	2212.7	1739.3	1329.4	1000.8	796.5	714.6	661.8	612.3	564.5	517.6
30°	3680.2	3117.9	2518.7	1965.6	1511.8	1119.5	863.1	774.2	707.2	647.0	585.5
27.5°	5437.0	4257.9	3531.8	2839.1	2264.1	1716.4	1221.1	899.3	810.3	736.6	663.5
25°	7844.0	6510.7	5198.4	4257.2	3486.3	2550.2	1755.7	1214.3	934.6	830.9	743.9
22.5°	10857.3	9063.5	7419.9	5974.5	4848.8	3643.2	2511.9	1563.1	1068.4	930.6	828.3
20°	14666.9	11734.7	9679.7	7828.6	6208.1	4681.2	3249.9	2092.4	1362.7	1037.2	910.4
17.5°	19698.1	15370.1	12208.6	9828.7	7768.8	5963.0	4232.8	2755.3	1638.2	1145.7	991.0
15°	25015.4	19494.0	15197.2	11830.8	9194.5	7096.3	5232.3	3419.4	2022.7	1337.8	1081.1
12.5°	30704.3	24014.6	18268.3	13865.5	10543.1	8089.6	6051.4	4143.8	2541.7	1563.4	1157.6
10°	35492.9	27893.5	21406.3	16227.6	12295.5	9195.2	6751.2	4717.3	2956.4	1760.4	1225.0
7.5°	40519.6	31161.8	23798.3	17910.1	13646.8	10363.4	7472.0	5143.2	3274.4	1907.1	1276.8
5°	43947.9	33330.3	25421.9	19054.3	14499.4	11160.0	8152.0	5438.9	3475.9	2007.3	1320.2
2.5°	46096.9	34508.8	26299.6	19906.4	14948.4	11560.6	8684.6	5813.1	3646.3	2096.7	1363.6
0°	47328.9	35590.5	27027.6	20439.3	15197.6	11777.9	8960.9	6246.9	3761.1	2156.5	1398.6
-2.5°	48353.4	35786.1	26861.2	20028.0	15043.3	11673.0	8899.7	6412.1	4009.1	2217.0	1436.0
-5°	47241.0	35294.1	26265.4	19522.6	14831.6	11507.8	8771.1	6364.0	4077.4	2243.0	1462.5
-7.5°	44608.8	33827.9	25278.1	18783.4	14409.2	11231.1	8531.5	6091.3	3909.2	2254.8	1498.0
-10°	40632.6	31467.0	23614.1	17781.4	13803.1	10803.8	8178.9	5777.5	3682.3	2206.4	1520.8
-12.5°	36426.5	28524.9	21604.3	16380.8	12962.2	10199.2	7677.8	5346.3	3370.6	2096.1	1538.0
-15°	31904.6	25242.5	19572.1	15204.5	11978.9	9411.4	7040.1	4795.7	2967.8	1936.8	1541.0
-17.5°	27216.5	21946.5	17189.0	13656.7	10875.9	8485.0	6257.5	4241.7	2675.0	1817.7	1532.5
-20°	22495.4	18664.5	15228.2	12201.4	9615.0	7361.8	5324.3	3569.8	2375.7	1788.7	1528.9



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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°	18470.8	15897.7	13274.7	10644.1	8382.5	6235.4	4376.7	2901.0	2014.7	1725.7	1506.2
-25°	15526.1	13436.9	11294.4	9182.9	7061.6	5065.3	3424.5	2423.9	1893.4	1667.4	1464.8
-27.5°	12908.9	11102.6	9314.8	7474.9	5623.7	3947.5	2720.0	1998.0	1772.2	1589.6	1422.7
-30°	10460.9	8904.4	7329.2	5719.3	4262.6	2967.7	2139.1	1862.0	1670.6	1506.3	1356.7
-32.5°	8101.9	6800.9	5418.9	4148.9	3041.9	2272.3	1934.1	1731.3	1573.0	1428.1	1294.6
-35°	5865.2	4845.4	3745.6	2918.5	2227.0	1975.4	1789.1	1628.9	1481.9	1349.5	1231.3
-37.5°	3923.8	3189.5	2638.9	2135.9	1972.8	1813.8	1670.2	1528.7	1392.0	1278.6	1174.6
-40°	2624.2	2187.2	2064.3	1930.6	1806.6	1682.3	1555.2	1427.4	1315.8	1212.0	1120.6
-42.5°	2026.4	1938.4	1857.8	1764.3	1663.5	1555.9	1444.0	1339.3	1241.5	1153.4	1071.6
-45°	1818.2	1750.4	1685.9	1614.6	1529.4	1439.3	1344.2	1257.1	1173.7	1097.5	1022.8
-47.5°	1641.5	1587.6	1532.4	1477.8	1408.3	1334.5	1259.3	1182.5	1112.3	1038.2	932.1
-50°	1488.0	1445.0	1398.3	1352.9	1303.7	1247.6	1182.6	1117.1	1037.0	936.6	837.1
-52.5°	1360.8	1323.9	1285.8	1251.2	1213.7	1166.9	1109.0	1019.5	927.2	831.4	737.9
-55°	1252.0	1220.7	1189.4	1162.2	1127.0	1059.0	985.5	899.1	809.3	720.9	640.6
-57.5°	1156.7	1122.2	1076.2	1031.2	985.6	921.5	848.9	767.9	691.0	616.9	544.2
-60°	1007.1	968.3	922.3	875.3	829.2	772.6	711.7	646.1	577.7	516.8	456.4
-62.5°	835.3	798.4	758.4	718.3	681.0	637.3	584.1	531.6	476.2	422.2	378.7
-65°	668.6	639.4	606.2	574.3	545.0	512.7	468.0	428.1	388.7	348.5	310.6
-67.5°	520.8	498.0	472.2	446.9	428.2	408.1	378.4	345.9	317.3	291.2	267.0
-70°	404.5	389.5	373.0	355.1	340.7	328.3	309.8	288.1	265.6	245.3	226.7
-72.5°	321.7	312.2	301.7	290.3	278.8	269.6	256.9	240.9	224.2	206.4	191.7
-75°	263.0	255.9	248.3	240.5	232.2	223.4	215.2	205.6	195.4	184.5	174.4
-77.5°	222.8	217.9	213.0	208.7	204.1	199.2	193.1	184.6	176.6	168.1	160.2
-80°	199.6	195.5	191.5	188.3	184.8	180.7	175.9	168.9	161.8	154.5	147.7
-82.5°	181.6	178.2	174.7	171.7	168.5	164.6	160.5	154.5	148.5	142.1	135.8
-85°	165.1	162.0	158.8	156.0	153.1	149.7	146.2	141.0	135.7	130.0	124.3
-87.5°	150.0	147.0	143.9	141.7	139.5	136.4	133.3	128.8	124.4	119.5	114.6
-90°	1.3	1.3	1.3	1.6	1.9	1.9	1.9	2.2	2.5	2.5	2.5





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	103.6	99.8	96.0	92.2	89.0	85.8	82.3	78.8	74.1	69.3	62.0
87.5°	2.7	3.0	3.2	3.5	3.5	3.5	3.8	4.1	4.1	4.0	4.3
85°	3.1	3.4	3.6	3.8	3.8	3.8	4.1	4.4	4.3	4.3	4.5
82.5°	3.5	3.8	3.8	3.8	4.0	4.2	4.4	4.7	4.6	4.5	4.8
80°	3.7	3.8	4.0	4.0	4.2	4.5	4.7	4.9	5.0	5.0	5.1
77.5°	3.8	3.9	4.2	4.4	4.4	4.6	4.9	5.2	5.4	5.4	5.5
75°	3.8	3.9	4.3	4.5	4.6	4.6	4.9	5.2	5.6	5.8	5.9
72.5°	4.3	4.3	4.5	4.6	4.8	5.0	5.1	5.4	5.8	6.1	6.2
70°	5.4	4.9	4.9	5.1	5.3	5.4	5.7	5.9	6.1	6.4	6.6
67.5°	7.0	6.3	5.8	5.8	6.0	6.1	6.3	6.5	6.6	6.8	6.9
65°	11.1	9.0	7.0	6.9	6.9	6.8	6.9	7.2	7.1	7.5	7.3
62.5°	16.0	12.8	10.7	8.9	8.3	8.7	7.7	8.6	7.9	8.4	8.1
60°	21.6	17.2	14.9	13.1	11.8	11.5	11.0	10.2	10.0	9.4	9.2
57.5°	26.3	21.1	19.8	17.8	17.0	15.8	15.1	13.9	12.5	11.7	10.4
55°	30.1	25.7	25.1	23.5	23.1	21.3	20.3	18.6	15.8	14.5	11.8
52.5°	32.2	31.6	31.1	31.0	30.6	28.0	26.9	23.8	21.3	17.5	14.6
50°	37.6	39.7	38.9	40.8	39.4	38.0	34.0	30.8	27.2	21.5	17.7
47.5°	55.5	57.1	52.7	54.0	51.4	49.5	44.5	38.7	33.5	27.3	21.0
45°	102.4	85.8	80.7	74.6	68.5	65.9	57.2	47.2	41.3	33.5	24.3
42.5°	167.6	144.6	128.8	99.3	97.0	86.0	72.4	60.9	49.5	39.9	29.0
40°	256.3	225.6	191.8	160.4	132.7	109.0	94.8	76.7	58.1	47.0	34.8
37.5°	341.4	306.6	272.1	229.7	179.7	147.4	120.5	93.8	69.2	55.1	40.7
35°	411.8	377.8	345.4	299.9	247.9	187.8	148.6	114.6	85.1	63.6	46.7
32.5°	475.2	435.9	397.5	360.6	304.4	229.1	182.7	138.3	101.3	72.5	52.7
30°	535.8	488.0	443.3	407.5	349.2	275.5	216.5	160.9	117.9	81.6	58.8
27.5°	598.7	540.4	487.4	445.8	385.4	315.4	243.1	182.4	134.7	91.6	65.5
25°	666.1	597.7	538.9	486.0	422.0	345.1	266.8	202.7	152.2	103.1	71.9
22.5°	737.5	654.9	588.5	529.1	462.4	374.0	289.9	223.5	165.8	113.8	78.0
20°	805.0	708.3	633.8	564.9	501.1	406.7	313.7	240.4	178.5	123.8	83.7
17.5°	872.2	759.7	668.9	596.3	534.0	440.5	338.1	256.1	190.2	133.0	89.1
15°	935.5	809.8	704.2	624.1	560.4	472.3	361.9	270.9	201.0	141.4	94.5
12.5°	994.2	857.1	739.0	648.0	580.0	500.9	384.7	284.7	210.8	149.8	99.9
10°	1046.8	901.5	773.0	670.9	597.1	526.3	406.1	299.8	223.4	158.1	105.0
7.5°	1090.1	942.1	804.4	692.5	612.5	548.0	429.3	319.2	235.8	165.7	109.7
5°	1127.1	978.7	835.6	717.9	630.3	565.6	450.3	337.5	247.4	172.4	114.1
2.5°	1160.7	1010.8	864.8	742.0	646.9	579.7	468.7	354.3	257.8	178.2	118.0
0°	1188.2	1037.5	890.0	763.5	661.8	590.6	484.4	369.4	267.0	183.1	121.4
-2.5°	1213.0	1056.5	910.9	786.1	686.6	607.0	494.0	376.9	274.5	189.5	125.6
-5°	1231.2	1070.3	927.8	805.8	708.9	620.2	500.9	382.4	280.5	194.9	129.2
-7.5°	1259.9	1086.4	942.9	823.1	728.0	629.9	504.9	385.9	284.9	199.0	132.3
-10°	1282.2	1101.2	956.8	837.4	740.5	637.9	507.0	387.4	287.7	201.9	134.8
-12.5°	1299.7	1111.8	966.2	848.0	750.4	644.8	512.5	389.1	288.7	203.4	136.7
-15°	1312.9	1127.4	975.9	855.2	758.7	648.3	513.9	389.0	287.4	203.2	137.9
-17.5°	1317.1	1133.4	980.8	860.9	764.5	648.5	511.0	385.7	284.2	201.2	138.7
-20°	1319.1	1135.8	978.9	861.5	766.2	640.9	503.6	379.1	279.1	198.0	139.1



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1313.1	1136.9	985.3	860.5	760.0	628.9	491.5	369.2	272.0	193.6	138.9
-25°	1287.4	1131.6	986.5	863.6	743.9	611.9	478.5	358.9	262.8	188.0	138.1
-27.5°	1256.4	1111.7	980.5	859.7	727.4	592.1	464.5	350.1	255.0	181.2	136.7
-30°	1222.3	1088.9	966.2	845.8	705.2	570.5	447.6	338.5	247.7	177.2	134.6
-32.5°	1173.9	1062.3	947.4	816.7	677.8	545.1	427.3	324.1	238.6	174.8	132.9
-35°	1126.9	1029.9	924.4	781.2	645.6	519.4	405.3	306.7	227.5	171.4	130.9
-37.5°	1077.2	989.8	879.3	740.0	607.8	489.7	382.9	290.0	214.4	167.1	128.2
-40°	1032.3	936.3	816.9	693.4	568.5	455.5	357.6	273.7	206.1	161.8	124.9
-42.5°	984.8	864.6	750.7	638.6	525.3	422.3	330.3	255.5	199.2	156.6	120.8
-45°	906.7	790.8	680.5	579.4	478.7	385.5	307.4	237.0	191.0	151.2	117.4
-47.5°	824.5	714.6	610.7	517.4	433.5	348.3	281.0	226.2	181.6	144.8	115.3
-50°	738.7	638.1	542.1	459.0	381.8	316.7	255.8	214.0	173.1	137.6	112.9
-52.5°	650.3	562.0	477.2	400.3	339.4	282.9	238.4	199.8	163.7	132.8	110.1
-55°	562.0	488.6	413.1	349.8	298.0	257.8	219.7	186.2	153.2	128.8	107.1
-57.5°	479.7	415.3	357.6	304.4	265.0	233.4	201.8	171.7	146.5	124.3	105.4
-60°	400.2	353.6	305.0	268.3	236.9	210.0	184.1	158.7	140.6	119.8	103.2
-62.5°	335.1	296.6	267.9	237.2	210.7	188.3	167.2	150.5	133.8	116.6	100.6
-65°	283.9	258.9	233.5	209.6	186.6	169.0	157.3	141.9	128.3	113.1	97.8
-67.5°	243.6	223.5	203.7	182.7	168.5	157.5	146.7	135.1	123.1	109.2	94.5
-70°	208.1	190.2	178.2	167.3	156.1	146.4	138.8	129.0	117.6	105.1	91.1
-72.5°	181.6	172.2	163.1	153.5	145.7	138.4	131.3	122.6	112.1	100.7	87.5
-75°	165.3	157.9	151.0	143.8	136.9	130.3	123.8	116.1	106.4	96.2	83.7
-77.5°	153.8	147.4	140.6	134.1	128.2	122.1	116.1	109.3	100.6	91.4	79.8
-80°	142.2	136.6	130.7	125.0	119.5	113.8	108.5	102.5	94.6	86.4	75.7
-82.5°	130.7	125.6	120.8	115.8	111.0	106.1	101.1	95.7	88.5	81.3	71.9
-85°	120.0	115.7	111.2	106.6	102.5	98.4	93.9	89.4	83.4	77.4	68.7
-87.5°	110.9	107.2	103.1	99.1	95.6	92.1	88.1	84.1	78.8	73.4	65.4
-90°	2.5	2.5	2.9	3.2	3.2	3.2	3.5	3.8	3.8	3.8	4.2



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	54.7	45.4	36.2	26.0	15.9	10.8	5.7
87.5°	4.7	4.7	4.7	4.7	4.6	5.2	5.7
85°	4.8	4.9	4.9	4.8	4.7	5.3	5.7
82.5°	5.0	5.1	5.1	5.0	4.8	5.4	5.7
80°	5.2	5.3	5.3	5.1	4.9	5.5	5.7
77.5°	5.5	5.5	5.5	5.3	5.1	5.7	5.7
75°	5.9	5.8	5.7	5.4	5.2	5.8	5.7
72.5°	6.2	6.1	6.0	5.6	5.3	5.9	5.7
70°	6.6	6.4	6.2	5.7	5.5	6.0	5.7
67.5°	7.0	6.7	6.5	6.0	5.7	6.1	5.7
65°	7.5	7.1	6.8	6.3	5.8	6.3	5.7
62.5°	8.0	7.7	7.0	6.5	6.0	6.4	5.7
60°	8.6	8.3	7.3	6.8	6.2	6.5	5.7
57.5°	9.8	8.9	8.0	7.1	6.6	6.6	5.7
55°	11.1	9.6	8.7	7.3	6.9	6.8	5.7
52.5°	12.5	10.4	9.4	7.6	7.3	6.9	5.7
50°	13.9	11.8	10.2	7.9	7.7	7.0	5.7
47.5°	15.7	13.3	11.0	8.3	8.2	7.2	5.7
45°	18.6	14.9	11.9	8.9	8.6	7.3	5.7
42.5°	21.5	16.5	12.7	9.6	9.1	7.4	5.7
40°	24.6	18.2	13.8	10.5	9.6	7.6	5.7
37.5°	27.9	20.0	15.2	11.6	10.1	7.7	5.7
35°	31.2	22.3	16.5	12.7	10.7	7.9	5.7
32.5°	34.9	24.9	17.9	13.9	11.2	8.0	5.7
30°	39.8	27.5	19.2	15.0	11.8	8.1	5.7
27.5°	44.5	30.0	21.1	16.2	12.4	8.3	5.7
25°	49.1	32.5	23.0	17.3	13.0	8.4	5.7
22.5°	53.5	35.0	24.8	18.5	13.5	8.5	5.7
20°	57.7	37.9	26.6	19.7	14.1	8.6	5.7
17.5°	62.1	40.7	28.4	20.8	14.7	8.8	5.7
15°	66.5	43.5	30.0	21.9	15.3	8.9	5.7
12.5°	70.5	46.1	31.7	23.0	15.9	9.0	5.7
10°	74.3	48.6	33.2	24.1	16.4	9.1	5.7
7.5°	77.9	51.0	34.7	25.1	16.9	9.2	5.7
5°	81.1	53.2	36.2	26.1	17.5	9.3	5.7
2.5°	83.9	55.3	37.5	27.1	17.9	9.4	5.7
0°	86.5	57.2	38.8	28.0	18.4	9.5	5.7
-2.5°	89.5	59.5	40.6	29.2	19.1	9.8	5.7
-5°	92.1	61.6	42.3	30.3	19.8	10.2	5.7
-7.5°	94.3	63.6	43.9	31.4	20.4	10.5	5.7
-10°	96.2	65.3	45.4	32.4	21.0	10.8	5.7
-12.5°	97.7	66.8	46.8	33.3	21.6	11.1	5.7
-15°	98.7	68.1	48.1	34.1	22.1	11.4	5.7
-17.5°	99.3	69.2	49.2	34.9	22.6	11.7	5.7
-20°	99.8	70.1	50.2	35.6	23.0	11.9	5.7



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	100.3	70.8	51.1	36.2	23.4	12.2	5.7
-25°	100.3	71.7	51.8	36.7	23.7	12.4	5.7
-27.5°	99.9	72.4	52.3	37.1	24.0	12.6	5.7
-30°	99.0	72.9	52.8	37.4	24.2	12.8	5.7
-32.5°	97.7	73.2	53.5	37.7	24.4	12.9	5.7
-35°	97.2	73.2	54.0	37.8	24.6	13.1	5.7
-37.5°	96.9	73.2	54.4	37.9	24.7	13.2	5.7
-40°	96.3	73.5	54.6	37.8	24.7	13.3	5.7
-42.5°	95.3	73.6	54.8	37.8	24.7	13.4	5.7
-45°	93.8	73.5	54.9	37.9	24.6	13.4	5.7
-47.5°	92.1	73.2	54.9	37.8	24.5	13.4	5.7
-50°	91.1	72.7	54.7	37.8	24.4	13.5	5.7
-52.5°	90.2	72.1	54.3	37.8	24.2	13.4	5.7
-55°	89.0	71.2	53.7	37.6	23.9	13.4	5.7
-57.5°	87.5	70.1	53.1	37.3	23.6	13.3	5.7
-60°	85.9	68.9	52.2	37.0	23.3	13.3	5.7
-62.5°	84.0	67.4	51.5	36.5	22.9	13.1	5.7
-65°	81.8	65.8	50.6	35.9	22.5	13.0	5.7
-67.5°	79.4	64.1	49.6	35.3	22.1	12.9	5.7
-70°	76.8	62.3	48.5	34.5	21.5	12.7	5.7
-72.5°	74.2	60.4	47.3	33.7	21.0	12.5	5.7
-75°	71.4	58.4	45.9	32.8	20.4	12.3	5.7
-77.5°	68.3	56.1	44.5	31.9	19.7	12.1	5.7
-80°	65.1	54.1	43.0	30.9	19.0	11.9	5.7
-82.5°	62.6	52.1	41.5	29.7	18.3	11.6	5.7
-85°	60.1	49.9	39.8	28.6	17.5	11.4	5.7
-87.5°	57.4	47.7	38.0	27.3	16.7	11.1	5.7
-90°	4.5	4.5	4.5	4.5	4.5	5.1	5.7

(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

