

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: P701637 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-3S-CV5-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701637 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-16)  
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-CV5-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

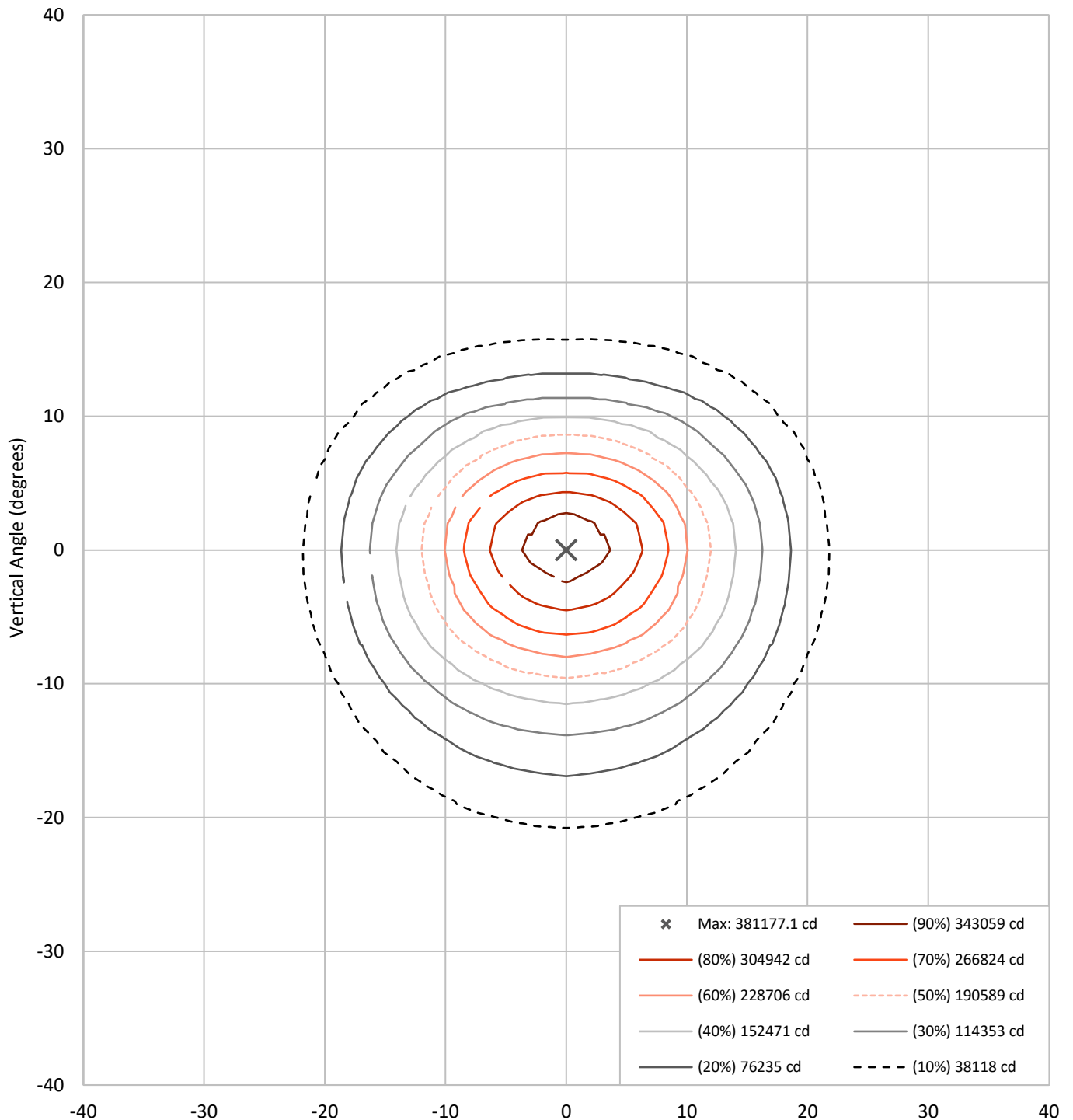
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	63723.4 lumens	Max Intensity:	381177.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	91.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24°H x 18.2°V	Field Angle (10%):	43.7°H x 36.4°V
Beam Lumens:	27259.4 lumens	Field Lumens:	54457.9 lumens
Beam Efficiency:	42.8%	Field Efficiency:	85.5%

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





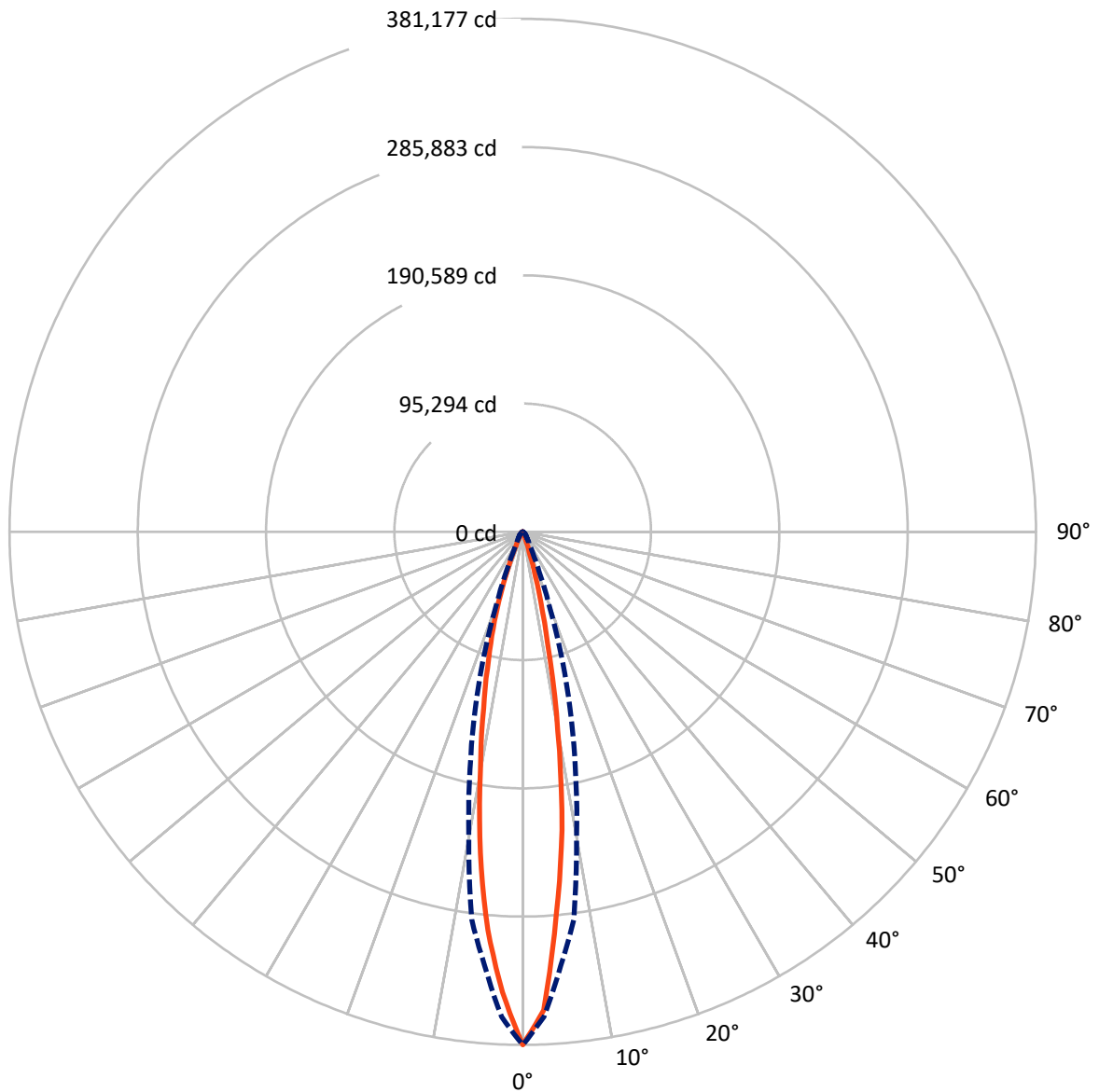
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### Lumen Table

90	0.2		0.5		0.8		0.8		0.9		0.8		0.8		0.5		0.2	
80	0.2		0.1	0.2	0.7	0.8	0.5	0.3	0.3	0.3	0.3	0.5	0.8	0.7	0.2	0.1	0.2	
70	0.2		0.1	0.4	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.7	0.4	0.1	0.2	
60	0.2		0.2	0.4	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.4	0.2	0.2	
50	0.2		0.3	0.6	1.0	1.7	2.5	3.1	4.1	4.1	3.1	2.5	1.7	1.0	0.6	0.3	0.2	
40	0.3		0.5	1.8	4.4	8.4	12.8	29.0	58.3	58.3	29.0	12.8	8.4	4.4	1.8	0.5	0.3	
30	0.3		1.2	6.6	20.9	45.9	123.1	682.6	1562.0	1562.0	682.6	123.1	45.9	20.9	6.6	1.2	0.3	
20	0.4		2.3	13.7	49.5	115.6	508.3	3187.8	7441.0	7441.0	3187.8	508.3	115.6	49.5	13.7	2.3	0.4	
10	0.4		3.1	16.4	58.0	129.6	541.7	3400.0	7664.0	7664.0	3400.0	541.7	129.6	58.0	16.4	3.1	0.4	
0	0.7		3.3	14.1	44.0	92.0	233.5	1234.5	2778.2	2778.2	1234.5	233.5	92.0	44.0	14.1	3.3	0.7	
-10	0.7		3.2	11.4	27.6	65.0	110.1	239.0	480.7	480.7	239.0	110.1	65.0	27.6	11.4	3.2	0.7	
-20	0.5		2.9	9.1	19.3	42.1	75.9	103.2	120.4	120.4	103.2	75.9	42.1	19.3	9.1	2.9	0.5	
-30	0.5		2.0	6.8	14.6	26.1	42.6	65.3	82.1	82.1	65.3	42.6	26.1	14.6	6.8	2.0	0.5	
-40	0.3		0.9	4.0	9.3	16.6	24.4	30.9	34.7	34.7	30.9	24.4	16.6	9.3	4.0	0.9	0.3	
-50	0.3		0.3	1.4	4.0	7.5	11.5	15.4	17.8	17.8	15.4	11.5	7.5	4.0	1.4	0.3	0.3	
-60	0.3		0.3	1.4	4.0	7.5	11.5	15.4	17.8	17.8	15.4	11.5	7.5	4.0	1.4	0.3	0.3	
-70	0.3		0.3	1.4	4.0	7.5	11.5	15.4	17.8	17.8	15.4	11.5	7.5	4.0	1.4	0.3	0.3	
-80	0.2		0.9		3.1		8.2		12.7		8.2		3.1		0.9		0.2	
-90	0.2		0.9		3.1		8.2		12.7		8.2		3.1		0.9		0.2	

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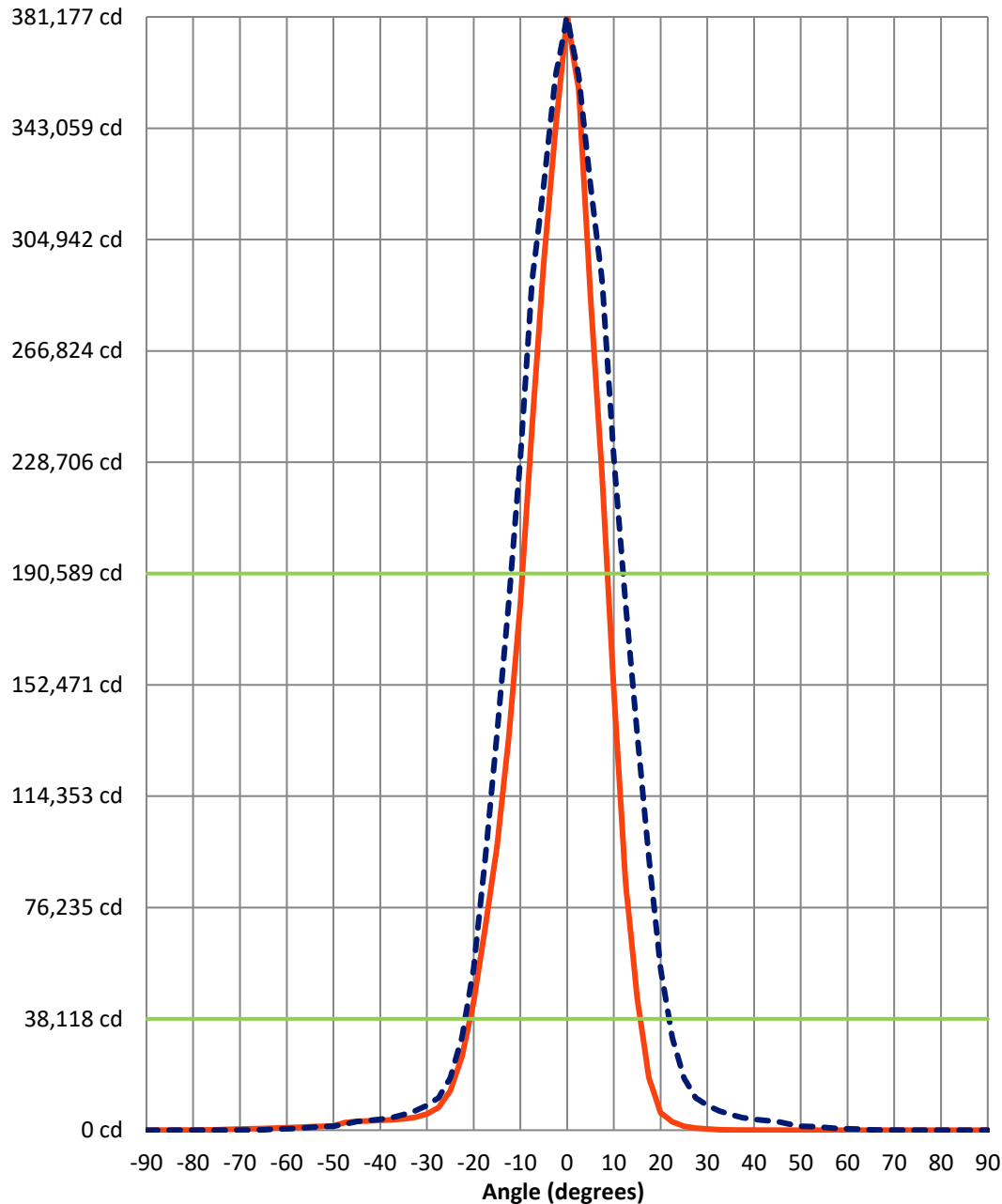
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 24°  
 V Angle: 18.2°  
 Lumens: 27259.4  
 Efficiency: 42.8%

**Field:**  
 H Angle: 43.7°  
 V Angle: 36.4°  
 Lumens: 54457.9  
 Efficiency: 85.5%

**Spill:**  
 Lumens: 9265.5  
 Efficiency: 14.5%

— 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°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
87.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
72.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
70°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.7
67.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.2	8.1	8.1	8.8	9.5
65°	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.7	9.5	9.9
62.5°	8.1	8.1	8.1	8.1	8.1	8.3	8.3	8.5	9.4	10.0	9.4
60°	8.1	8.1	8.1	8.1	8.1	8.5	8.5	9.0	10.0	9.7	8.9
57.5°	8.1	8.1	8.1	8.1	8.3	8.7	8.9	9.5	10.0	9.5	8.8
55°	8.1	8.1	8.2	8.1	8.5	8.9	9.2	10.0	9.9	9.4	8.9
52.5°	8.1	8.1	8.2	8.1	8.7	9.1	9.6	10.1	9.9	9.5	9.0
50°	8.1	8.1	8.2	8.1	8.9	9.4	9.9	10.2	10.0	9.6	10.9
47.5°	8.1	8.1	8.3	8.1	9.2	9.6	10.1	10.4	10.1	9.7	12.6
45°	8.1	8.1	8.3	8.3	9.4	9.7	10.3	10.5	10.3	10.7	13.8
42.5°	8.1	8.1	8.4	8.5	9.6	9.9	10.5	10.8	10.5	11.4	15.2
40°	8.1	8.1	8.5	8.7	9.8	10.0	10.7	11.0	11.0	11.8	16.5
37.5°	8.1	8.1	8.6	9.0	9.9	10.1	10.9	11.4	11.8	13.1	17.6
35°	8.1	8.1	8.6	9.2	10.0	10.2	11.2	11.7	12.7	15.1	18.3
32.5°	8.1	8.1	8.7	9.3	10.0	10.4	11.5	12.1	13.6	17.3	20.1
30°	8.1	8.1	8.8	9.5	10.1	10.7	11.8	12.6	14.6	19.5	22.3
27.5°	8.1	8.1	8.9	9.6	10.1	10.9	12.2	13.4	15.9	21.8	24.9
25°	8.1	8.1	9.0	9.7	10.1	11.1	12.5	14.2	17.8	24.1	28.0
22.5°	8.1	8.1	9.1	9.8	10.1	11.3	12.9	15.0	19.6	26.4	33.8
20°	8.1	8.1	9.3	9.9	10.1	11.5	13.3	15.8	21.5	29.0	40.2
17.5°	8.1	8.1	9.4	10.0	10.1	11.6	13.5	16.5	23.3	31.7	47.0
15°	8.1	8.1	9.5	10.0	10.1	11.8	13.7	17.4	25.0	34.5	54.1
12.5°	8.1	8.1	9.6	10.1	10.1	11.9	13.8	18.5	27.0	37.4	61.4
10°	8.1	8.1	9.7	10.1	10.1	11.9	13.9	19.7	29.1	42.1	70.4
7.5°	8.1	8.1	9.8	10.1	10.1	12.0	14.0	20.9	31.1	47.3	82.9
5°	8.1	8.1	9.9	10.1	10.1	12.1	14.1	22.1	32.9	52.5	95.4
2.5°	8.1	8.1	10.0	10.1	10.1	12.1	14.1	23.2	34.7	57.6	107.5
0°	8.1	8.1	10.1	10.1	10.1	12.1	14.1	24.2	36.2	62.4	118.8
-2.5°	8.1	8.1	10.1	10.1	10.3	12.5	16.0	28.9	46.0	76.7	136.0
-5°	8.1	8.1	10.1	10.1	10.4	12.9	17.8	33.3	55.3	90.4	152.0
-7.5°	8.1	8.1	10.1	10.1	10.6	13.3	19.4	37.3	64.0	103.1	166.6
-10°	8.1	8.1	10.0	10.1	10.8	13.6	20.9	40.9	71.8	114.7	179.6
-12.5°	8.1	8.1	10.0	10.1	10.9	13.9	22.2	43.9	78.5	125.1	191.5
-15°	8.1	8.1	10.0	10.1	11.0	14.2	23.2	46.2	84.7	134.6	201.7
-17.5°	8.1	8.1	9.9	10.1	11.1	14.3	23.9	48.8	90.5	142.7	209.9
-20°	8.1	8.1	9.9	10.1	11.1	14.4	24.6	51.2	94.8	149.4	216.0



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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°	8.1	8.1	9.8	10.1	11.2	14.5	25.3	52.5	97.6	154.6	219.9
-25°	8.1	8.1	9.7	10.1	11.2	14.6	25.5	52.6	98.6	158.1	221.4
-27.5°	8.1	8.1	9.6	10.1	11.1	14.7	24.9	51.5	98.0	159.7	224.4
-30°	8.1	8.1	9.6	10.1	11.0	14.7	23.6	48.9	96.3	158.6	225.5
-32.5°	8.1	8.1	9.5	10.1	11.1	14.6	21.6	47.0	93.2	155.0	224.4
-35°	8.1	8.1	9.4	10.1	11.0	14.4	20.7	44.7	88.2	148.9	221.2
-37.5°	8.1	8.1	9.3	10.1	11.0	14.1	20.4	41.1	81.2	140.2	206.4
-40°	8.1	8.1	9.2	10.1	10.8	14.0	19.9	36.4	72.1	130.1	188.1
-42.5°	8.1	8.1	9.0	10.1	10.8	13.8	19.2	30.5	64.1	114.3	168.0
-45°	8.1	8.1	8.9	10.1	10.8	13.5	18.3	26.0	55.9	96.6	146.3
-47.5°	8.1	8.1	8.8	10.1	10.8	13.2	17.3	24.7	46.1	77.8	125.0
-50°	8.1	8.1	8.7	10.0	10.7	12.7	16.6	23.2	34.2	64.2	102.2
-52.5°	8.1	8.1	8.5	9.8	10.6	12.2	15.9	21.4	28.7	50.0	79.0
-55°	8.1	8.1	8.4	9.6	10.5	11.9	15.1	19.5	26.1	35.1	62.3
-57.5°	8.1	8.1	8.2	9.4	10.3	11.6	14.2	18.3	23.3	29.4	45.0
-60°	8.1	8.1	8.1	9.2	10.1	11.2	13.2	17.0	20.8	26.2	31.8
-62.5°	8.1	8.1	8.1	9.1	9.9	10.8	12.6	15.5	19.1	22.9	28.2
-65°	8.1	8.1	8.1	8.9	9.7	10.4	11.9	14.2	17.4	20.7	24.5
-67.5°	8.1	8.1	8.1	8.7	9.6	10.0	11.1	13.2	15.6	18.7	21.8
-70°	8.1	8.1	8.1	8.5	9.4	9.9	10.2	12.1	14.4	16.7	19.5
-72.5°	8.1	8.1	8.1	8.5	9.2	9.8	10.1	11.1	13.2	15.3	17.4
-75°	8.1	8.1	8.1	8.4	9.1	9.7	10.1	10.7	12.0	13.9	15.8
-77.5°	8.1	8.1	8.1	8.4	8.9	9.6	10.1	10.5	11.4	12.6	14.3
-80°	8.1	8.1	8.1	8.3	8.8	9.4	10.1	10.3	10.8	11.6	12.7
-82.5°	8.1	8.1	8.1	8.3	8.6	9.1	9.6	9.9	10.1	10.5	11.1
-85°	8.1	8.1	8.1	8.2	8.4	8.7	9.1	9.3	9.5	9.6	9.8
-87.5°	8.1	8.1	8.1	8.2	8.3	8.4	8.6	8.7	8.8	8.9	8.9
-90°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1





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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°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.6	9.1	9.6
87.5°	7.8	7.6	7.4	7.2	7.0	6.7	6.4	6.0	6.0	6.0	6.0
85°	8.1	8.1	8.1	8.1	7.6	7.1	6.5	6.0	6.0	6.0	6.0
82.5°	8.1	8.1	8.1	8.1	7.6	7.1	6.6	6.3	6.3	6.3	6.2
80°	8.1	8.1	8.1	8.1	7.9	7.7	7.6	7.7	7.6	7.1	6.6
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	7.7	7.2	6.7
75°	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	7.9	7.7	7.7
72.5°	8.4	8.7	8.6	8.3	8.1	8.1	8.1	8.1	9.5	11.5	13.1
70°	9.2	9.3	8.7	8.3	8.1	8.6	11.1	14.4	18.0	20.5	23.9
67.5°	9.8	8.9	8.3	8.3	9.8	12.4	16.2	24.9	34.4	38.2	39.3
65°	9.1	8.3	8.6	9.9	11.9	19.0	28.5	39.6	47.8	47.2	44.8
62.5°	8.3	8.4	9.4	12.7	19.1	28.0	36.6	44.4	52.2	50.1	43.0
60°	8.2	8.6	12.4	19.0	25.8	32.2	40.3	44.7	48.3	48.0	38.0
57.5°	8.4	10.9	17.5	23.9	29.3	34.3	36.8	39.9	41.2	41.2	30.9
55°	9.7	15.0	21.4	26.8	30.9	30.2	31.1	31.5	31.7	29.5	21.0
52.5°	12.8	18.4	23.7	28.5	29.4	26.5	23.1	23.2	21.7	18.3	15.2
50°	15.5	20.5	25.6	28.8	27.5	22.0	17.0	17.0	15.5	13.4	11.6
47.5°	17.3	22.4	27.3	29.1	24.5	19.9	15.8	13.8	12.3	11.9	10.6
45°	19.0	23.9	29.1	27.2	23.1	19.7	16.3	12.1	12.6	12.5	12.9
42.5°	20.5	24.9	27.8	25.9	23.6	21.1	18.0	15.5	14.5	15.9	16.6
40°	21.2	25.5	26.9	27.3	25.1	23.8	23.3	21.5	18.6	21.2	22.0
37.5°	21.5	25.5	28.0	31.4	28.3	29.1	30.3	30.7	29.0	28.4	31.9
35°	21.4	26.2	33.8	37.7	35.3	37.0	40.5	42.1	42.2	41.4	47.5
32.5°	22.0	27.6	41.8	45.1	47.7	49.9	52.2	55.9	59.4	63.3	73.2
30°	24.8	35.1	50.9	53.5	63.0	72.9	70.1	72.0	79.9	105.0	127.0
27.5°	30.9	45.2	58.8	66.9	82.3	103.1	109.5	96.8	119.8	158.8	196.2
25°	38.2	73.2	67.4	83.5	112.1	143.2	160.5	158.7	181.1	230.5	274.8
22.5°	53.7	109.7	106.3	101.5	146.7	192.4	222.1	273.6	346.2	345.9	361.9
20°	80.6	144.6	155.3	168.7	197.9	248.9	291.4	427.9	579.1	630.5	574.5
17.5°	112.1	183.1	211.2	256.7	321.4	354.4	378.6	612.3	867.9	969.2	1001.0
15°	147.1	224.5	270.9	355.0	458.3	516.8	620.0	886.9	1189.0	1360.7	1488.4
12.5°	184.5	268.1	333.5	461.3	605.1	682.4	911.1	1297.5	1598.3	1805.5	2130.1
10°	223.0	313.1	397.8	572.9	758.6	850.0	1222.8	1720.4	2034.7	2274.4	2718.5
7.5°	265.4	357.9	461.8	686.8	915.5	1018.3	1544.8	2146.5	2459.9	2727.0	3228.9
5°	306.7	400.9	519.1	783.6	1041.2	1160.3	1835.1	2564.7	2873.0	3162.9	3689.7
2.5°	344.8	442.1	574.2	872.8	1140.9	1259.7	1974.9	2777.5	3113.7	3473.4	4037.8
0°	378.4	481.1	626.1	954.2	1232.0	1354.8	2085.5	2961.2	3309.4	3718.1	4291.8
-2.5°	385.5	496.6	644.6	953.0	1219.8	1352.4	2096.2	2969.3	3376.8	3808.8	4370.3
-5°	387.4	509.0	658.8	943.5	1199.5	1344.6	2074.6	2939.3	3387.9	3786.7	4292.3
-7.5°	384.7	517.9	668.5	924.7	1160.1	1299.9	1952.3	2757.1	3210.8	3558.2	4033.7
-10°	377.8	516.6	657.6	882.7	1097.2	1232.1	1784.9	2546.9	3026.4	3325.4	3739.7
-12.5°	365.7	507.0	640.3	837.6	1033.5	1162.9	1589.8	2314.1	2839.5	3094.8	3429.9
-15°	352.2	495.5	619.8	791.0	971.3	1093.3	1368.5	2063.0	2661.4	2921.4	3170.5
-17.5°	338.1	482.5	596.5	744.4	912.5	1024.2	1129.5	1796.1	2436.1	2744.6	2985.2
-20°	324.3	468.3	570.6	699.1	857.2	970.6	1057.0	1525.7	2119.6	2548.8	2790.3



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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°	311.4	453.2	546.1	663.9	808.4	928.0	1015.6	1261.1	1785.6	2335.8	2596.8
-25°	306.6	431.5	526.1	633.2	761.7	885.0	975.2	1036.6	1470.0	2014.6	2412.5
-27.5°	306.8	413.3	506.9	600.0	715.1	839.2	929.2	992.5	1230.2	1699.0	2204.6
-30°	304.1	391.4	485.8	567.9	674.2	786.4	881.6	968.9	1044.1	1419.5	1865.7
-32.5°	292.6	368.3	460.3	542.7	633.2	735.6	842.6	936.1	1017.7	1139.7	1544.0
-35°	277.1	349.2	432.7	515.7	591.5	690.2	795.4	897.7	984.3	1060.1	1244.5
-37.5°	262.9	327.6	404.1	485.9	560.4	645.0	744.7	847.2	940.2	1030.3	1113.7
-40°	246.8	303.5	376.8	453.9	528.1	602.0	692.1	788.9	887.0	990.8	1091.2
-42.5°	228.2	283.5	347.8	420.3	490.8	563.2	637.1	728.1	826.8	936.6	1041.3
-45°	203.8	261.4	317.3	382.7	449.4	519.8	591.0	664.4	759.8	861.0	970.5
-47.5°	177.2	235.8	290.2	342.6	405.4	471.0	540.3	612.3	687.6	779.9	878.2
-50°	149.5	204.0	259.2	306.5	359.2	419.7	483.4	554.9	626.7	699.2	782.8
-52.5°	122.5	170.1	221.7	270.9	316.3	367.0	426.0	490.8	559.4	629.0	693.7
-55°	93.9	137.1	181.8	229.7	275.7	318.7	366.4	424.5	485.9	550.4	609.7
-57.5°	70.8	103.4	143.1	185.0	229.4	273.0	314.7	356.8	409.8	466.7	517.4
-60°	50.9	74.6	105.0	141.9	179.8	221.0	262.9	302.2	340.9	378.2	423.6
-62.5°	33.4	51.8	73.3	99.1	132.9	167.6	204.6	242.5	280.2	312.6	342.5
-65°	29.3	33.5	48.0	67.4	86.6	117.9	149.3	179.5	212.6	242.4	271.1
-67.5°	25.0	28.9	32.8	39.5	56.9	76.3	96.7	124.3	150.5	171.9	193.2
-70°	22.2	24.5	27.7	31.1	34.7	42.6	59.7	77.5	95.0	111.5	129.7
-72.5°	19.6	21.7	23.7	25.8	28.9	32.6	36.4	40.4	50.2	63.4	76.0
-75°	17.3	18.8	20.6	22.4	24.4	26.6	29.1	32.4	35.5	38.3	40.8
-77.5°	15.4	16.5	17.7	19.1	20.7	22.4	24.2	26.1	28.2	30.3	32.5
-80°	13.5	14.1	14.9	15.8	17.1	18.4	19.7	20.9	22.1	23.6	25.2
-82.5°	11.6	12.1	12.5	13.0	13.8	14.7	15.7	16.8	17.1	17.5	18.0
-85°	9.9	10.1	10.4	10.7	11.1	11.5	12.0	12.6	12.7	12.8	12.7
-87.5°	9.0	9.1	9.2	9.2	9.3	9.4	9.5	9.5	9.7	9.9	10.0
-90°	7.6	7.1	6.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	10.1	10.6	11.1	11.6	12.1	16.6	21.1	25.7	30.2	37.7	45.3
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	3.9	3.9	3.9	3.9	3.4	3.0
82.5°	6.0	5.5	5.0	4.5	4.0	4.0	4.0	4.0	4.0	3.5	3.0
80°	6.1	5.7	5.5	5.3	5.3	5.1	4.8	4.4	4.0	4.0	3.9
77.5°	6.3	6.4	6.4	6.3	6.1	5.6	5.1	4.6	4.1	4.0	4.0
75°	7.9	8.1	8.2	8.0	7.3	6.8	6.4	6.1	5.7	5.4	5.0
72.5°	14.1	14.2	13.5	13.1	11.8	11.3	11.3	11.2	10.8	10.7	10.5
70°	25.8	26.3	25.2	22.8	19.2	16.9	15.8	14.4	12.7	12.0	12.0
67.5°	36.7	33.7	30.3	26.9	22.6	18.9	16.7	14.7	12.9	11.9	11.4
65°	40.2	32.9	27.5	23.2	19.9	17.1	14.8	12.6	10.4	9.0	8.6
62.5°	35.0	26.1	20.8	17.6	15.2	13.7	11.5	9.5	7.7	6.7	7.0
60°	28.4	19.3	14.3	12.5	11.1	10.1	8.9	7.7	6.7	6.0	6.1
57.5°	21.3	14.0	10.1	9.8	9.3	8.5	7.8	7.2	6.6	6.0	6.0
55°	14.7	11.7	10.1	9.6	9.0	8.5	7.9	7.3	6.7	6.0	6.0
52.5°	11.6	10.6	10.2	9.8	9.2	8.6	8.0	7.4	6.8	6.1	6.0
50°	10.5	10.2	10.3	9.9	9.4	8.8	8.2	7.8	7.6	7.4	7.5
47.5°	10.9	11.1	10.9	10.2	9.8	9.9	9.9	9.9	10.0	9.6	9.5
45°	12.4	12.4	12.3	12.2	11.7	12.8	13.5	13.6	15.7	14.9	12.6
42.5°	15.4	16.1	16.9	18.0	16.6	21.2	28.5	33.4	28.5	22.6	19.0
40°	23.2	23.8	28.9	31.6	37.4	44.1	40.1	33.6	29.9	32.0	33.1
37.5°	36.6	42.8	51.2	60.5	58.3	48.3	49.4	49.3	47.6	51.7	52.0
35°	59.8	74.9	82.0	84.3	80.1	77.0	79.8	82.5	76.3	86.1	89.2
32.5°	97.7	116.2	120.3	116.0	116.5	123.3	128.3	137.5	146.7	161.3	178.8
30°	144.2	164.0	173.5	164.8	166.7	182.7	193.1	214.0	247.3	285.5	333.0
27.5°	213.6	228.3	245.3	247.7	239.7	263.2	300.0	321.9	411.7	471.1	578.1
25°	305.2	328.1	343.0	368.2	381.7	410.1	480.6	548.5	686.3	820.6	1048.4
22.5°	425.5	498.9	526.0	522.1	601.4	677.8	737.8	927.8	1199.3	1596.8	2044.3
20°	584.4	735.3	863.5	905.1	933.3	1134.7	1341.9	1931.6	2607.6	3735.8	4612.9
17.5°	1053.4	1103.0	1384.6	1613.8	1722.9	2149.5	3116.6	4600.9	7152.2	10643.1	12789.4
15°	1758.6	1900.3	2182.7	2667.6	3267.7	4398.5	6012.8	10745.2	17288.5	24439.0	31246.6
12.5°	2537.4	2833.0	3350.3	4064.4	5017.1	8243.6	13453.7	22357.1	34470.8	46859.4	62659.7
10°	3260.1	3854.5	4703.6	5908.9	8355.1	13867.3	22637.0	37771.4	59228.7	81602.6	103954.8
7.5°	3849.6	4700.1	5941.7	7747.2	12131.4	20981.2	35363.5	57662.1	85173.7	113958.8	144265.1
5°	4445.0	5521.6	7017.1	9201.6	14606.0	26477.2	45607.3	76134.7	111638.8	147908.8	186101.5
2.5°	4961.1	6220.6	7951.9	10504.2	16270.1	29451.9	51787.0	89377.4	131062.7	174465.8	223110.3
0°	5342.6	6624.9	8464.8	11120.0	17909.9	31767.6	55404.6	93291.8	135690.2	180499.3	230216.0
-2.5°	5289.5	6449.2	8116.9	10751.9	17340.1	31349.8	53145.0	90068.9	131564.8	173569.0	217909.7
-5°	5047.8	6056.3	7550.7	9909.3	15372.5	27199.9	47691.6	81721.0	120306.6	158691.6	198144.0
-7.5°	4679.5	5552.0	6861.8	8888.0	13103.6	22416.8	39446.6	66066.1	99239.4	132045.6	162479.4
-10°	4299.1	5009.7	6071.3	7672.4	10679.5	17187.0	29229.7	49129.8	76717.5	103734.4	127056.7
-12.5°	3941.4	4470.6	5225.6	6340.4	8193.8	12866.6	21959.5	36478.4	54906.1	75677.9	95872.7
-15°	3607.7	3999.2	4541.3	5440.4	6923.7	9695.4	14631.8	24307.4	37269.2	51768.4	65728.3
-17.5°	3301.9	3624.6	4047.7	4680.7	5599.8	7313.8	10771.9	16303.7	24129.6	34442.9	44083.2
-20°	3027.9	3320.1	3636.6	4110.9	4816.7	5825.5	7528.0	10962.1	15478.0	21978.5	28354.0



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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°	2813.3	3042.8	3288.8	3651.6	4240.0	4955.3	5801.6	7208.6	9694.2	13028.4	16804.5
-25°	2617.2	2787.1	3042.3	3432.8	3835.8	4313.0	4826.1	5390.5	6493.4	7565.7	9542.7
-27.5°	2430.7	2610.0	2875.9	3228.2	3595.9	3818.7	4147.0	4495.5	5023.1	5488.8	6276.3
-30°	2275.2	2463.5	2689.2	2986.5	3296.1	3505.9	3676.7	3928.9	4221.5	4513.5	4852.4
-32.5°	1982.9	2342.1	2498.5	2725.3	3004.1	3224.8	3376.0	3563.4	3719.7	3901.2	4085.3
-35°	1663.2	2059.4	2382.9	2529.6	2722.4	2967.9	3182.9	3333.3	3454.4	3566.4	3671.9
-37.5°	1301.4	1713.4	2066.7	2364.1	2540.6	2705.1	2933.0	3135.5	3281.2	3358.2	3426.8
-40°	1163.7	1282.7	1656.0	1997.1	2262.6	2520.2	2697.8	2896.3	3064.7	3171.1	3250.7
-42.5°	1140.2	1201.3	1249.6	1508.1	1830.3	2106.2	2341.3	2572.8	2778.5	2931.1	3054.3
-45°	1076.5	1149.2	1217.0	1264.8	1314.5	1558.5	1820.9	2076.5	2308.7	2516.4	2698.0
-47.5°	973.7	1060.5	1132.9	1202.3	1256.2	1298.7	1348.0	1429.4	1646.9	1860.3	2063.0
-50°	862.0	940.6	1019.2	1093.8	1152.4	1203.7	1251.1	1291.6	1332.4	1375.1	1415.6
-52.5°	751.5	821.8	891.7	957.2	1019.5	1078.3	1132.9	1173.0	1207.4	1237.6	1260.5
-55°	664.6	716.8	767.8	823.3	878.7	930.6	978.1	1021.5	1061.0	1096.2	1123.3
-57.5°	568.6	619.9	668.6	710.1	750.6	789.6	830.0	868.5	902.5	932.0	955.9
-60°	468.3	512.1	555.4	596.4	635.4	672.1	705.1	735.5	763.0	786.5	804.1
-62.5°	371.6	406.1	445.1	480.7	512.0	542.0	576.0	606.6	633.8	656.4	673.2
-65°	298.3	323.2	351.2	378.8	405.9	435.0	464.7	490.9	514.1	533.0	548.0
-67.5°	217.4	241.8	269.1	293.8	316.7	341.3	369.7	395.7	419.5	438.7	454.2
-70°	146.6	163.9	185.4	208.5	230.9	254.3	280.2	305.1	329.0	347.2	362.0
-72.5°	88.0	99.3	110.8	125.9	141.7	161.0	182.7	204.5	226.2	241.8	254.1
-75°	43.0	47.6	57.1	65.8	73.8	84.1	95.1	105.5	115.2	122.2	128.0
-77.5°	34.8	37.0	39.2	41.3	43.3	47.8	53.2	58.9	64.6	69.2	73.5
-80°	26.8	28.2	29.6	31.2	32.8	36.3	40.0	43.8	47.6	50.4	53.1
-82.5°	18.7	19.4	20.1	20.8	21.3	23.9	26.4	28.9	31.3	33.6	35.8
-85°	12.7	12.8	13.0	13.2	13.3	15.9	18.5	21.1	23.7	25.9	28.0
-87.5°	10.1	10.2	10.2	10.3	10.3	12.4	14.5	16.5	18.5	20.5	22.5
-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°	52.8	60.4	55.3	50.3	55.3	60.4	52.8	45.3	37.7	30.2	25.7
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5
85°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.4	3.9	3.9
82.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.5	4.0	4.0
80°	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.9	4.0	4.0	4.4
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.1	4.6
75°	4.5	4.0	5.0	6.0	5.0	4.0	4.5	5.0	5.4	5.7	6.1
72.5°	10.3	10.0	10.1	10.1	10.1	10.0	10.3	10.5	10.7	10.8	11.2
70°	12.0	12.0	12.1	12.1	12.1	12.0	12.0	12.0	12.0	12.7	14.4
67.5°	10.8	10.3	10.1	10.1	10.1	10.3	10.8	11.4	11.9	12.9	14.7
65°	8.3	8.2	8.1	8.1	8.1	8.2	8.3	8.6	9.0	10.4	12.6
62.5°	7.5	8.0	8.1	8.1	8.1	8.0	7.5	7.0	6.7	7.7	9.5
60°	6.2	6.1	6.0	6.0	6.0	6.1	6.2	6.1	6.0	6.7	7.7
57.5°	6.0	6.0	6.8	8.1	6.8	6.0	6.0	6.0	6.0	6.6	7.2
55°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.7	7.3
52.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.1	6.8	7.4
50°	7.8	7.9	8.1	8.1	8.1	7.9	7.8	7.5	7.4	7.6	7.8
47.5°	9.7	9.9	9.4	8.1	9.4	9.9	9.7	9.5	9.6	10.0	9.9
45°	12.6	12.3	12.0	12.1	12.0	12.3	12.6	12.6	14.9	15.7	13.6
42.5°	19.6	19.8	19.9	20.1	19.9	19.8	19.6	19.0	22.6	28.5	33.4
40°	34.8	35.6	35.8	36.2	35.8	35.6	34.8	33.1	32.0	29.9	33.6
37.5°	52.7	53.6	53.9	54.4	53.9	53.6	52.7	52.0	51.7	47.6	49.3
35°	88.9	88.6	85.6	86.6	85.6	88.6	88.9	89.2	86.1	76.3	82.5
32.5°	190.8	192.3	182.4	167.1	182.4	192.3	190.8	178.8	161.3	146.7	137.5
30°	368.8	400.3	421.6	422.7	421.6	400.3	368.8	333.0	285.5	247.3	214.0
27.5°	649.6	698.7	719.6	730.7	719.6	698.7	649.6	578.1	471.1	411.7	321.9
25°	1227.4	1339.9	1400.7	1354.8	1400.7	1339.9	1227.4	1048.4	820.6	686.3	548.5
22.5°	2469.7	2684.9	2868.4	2878.6	2868.4	2684.9	2469.7	2044.3	1596.8	1199.3	927.8
20°	5832.4	5783.4	6247.3	6014.9	6247.3	5783.4	5832.4	4612.9	3735.8	2607.6	1931.6
17.5°	16543.1	18373.0	19384.3	18000.5	19384.3	18373.0	16543.1	12789.4	10643.1	7152.2	4600.9
15°	38031.9	42596.8	45685.6	45291.1	45685.6	42596.8	38031.9	31246.6	24439.0	17288.5	10745.2
12.5°	71509.8	79011.3	85405.3	85137.1	85405.3	79011.3	71509.8	62659.7	46859.4	34470.8	22357.1
10°	123869.0	136947.3	149135.6	150405.5	149135.6	136947.3	123869.0	103954.8	81602.6	59228.7	37771.4
7.5°	172108.2	201559.1	219114.3	223618.3	219114.3	201559.1	172108.2	144265.1	113958.8	85173.7	57662.1
5°	232512.0	266617.3	285067.8	285560.2	285067.8	266617.3	232512.0	186101.5	147908.8	111638.8	76134.7
2.5°	277227.6	315645.0	338299.6	355828.0	338299.6	315645.0	277227.6	223110.3	174465.8	131062.7	89377.4
0°	290526.4	323656.8	360624.1	381177.1	360624.1	323656.8	290526.4	230216.0	180499.3	135690.2	93291.8
-2.5°	272706.7	307393.7	325744.6	342462.5	325744.6	307393.7	272706.7	217909.7	173569.0	131564.8	90068.9
-5°	238853.9	275593.2	293224.7	296988.2	293224.7	275593.2	238853.9	198144.0	158691.6	120306.6	81721.0
-7.5°	190056.5	215914.8	233764.8	240765.3	233764.8	215914.8	190056.5	162479.4	132045.6	99239.4	66066.1
-10°	148745.2	165442.8	174375.4	180315.1	174375.4	165442.8	148745.2	127056.7	103734.4	76717.5	49129.8
-12.5°	112149.6	124220.1	131225.6	134275.0	131225.6	124220.1	112149.6	95872.7	75677.9	54906.1	36478.4
-15°	79827.3	89378.6	94122.3	97142.7	94122.3	89378.6	79827.3	65728.3	51768.4	37269.2	24307.4
-17.5°	54692.3	62372.2	66749.6	69596.4	66749.6	62372.2	54692.3	44083.2	34442.9	24129.6	16303.7
-20°	34993.6	39566.4	42934.7	43916.2	42934.7	39566.4	34993.6	28354.0	21978.5	15478.0	10962.1



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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°	20445.6	23138.1	24834.3	25219.2	24834.3	23138.1	20445.6	16804.5	13028.4	9694.2	7208.6
-25°	11116.8	12289.9	13179.7	13481.3	13179.7	12289.9	11116.8	9542.7	7565.7	6493.4	5390.5
-27.5°	6826.8	7280.4	7609.1	7778.3	7609.1	7280.4	6826.8	6276.3	5488.8	5023.1	4495.5
-30°	5134.8	5341.7	5465.1	5547.9	5465.1	5341.7	5134.8	4852.4	4513.5	4221.5	3928.9
-32.5°	4215.9	4308.5	4364.3	4402.5	4364.3	4308.5	4215.9	4085.3	3901.2	3719.7	3563.4
-35°	3755.2	3815.4	3856.7	3877.1	3856.7	3815.4	3755.2	3671.9	3566.4	3454.4	3333.3
-37.5°	3477.8	3515.7	3543.2	3559.0	3543.2	3515.7	3477.8	3426.8	3358.2	3281.2	3135.5
-40°	3288.6	3315.2	3337.2	3361.8	3337.2	3315.2	3288.6	3250.7	3171.1	3064.7	2896.3
-42.5°	3116.1	3155.5	3175.4	3180.6	3175.4	3155.5	3116.1	3054.3	2931.1	2778.5	2572.8
-45°	2837.1	2946.7	3014.0	3035.6	3014.0	2946.7	2837.1	2698.0	2516.4	2308.7	2076.5
-47.5°	2249.5	2413.5	2537.3	2612.9	2537.3	2413.5	2249.5	2063.0	1860.3	1646.9	1429.4
-50°	1453.5	1488.2	1501.9	1493.7	1501.9	1488.2	1453.5	1415.6	1375.1	1332.4	1291.6
-52.5°	1278.5	1292.4	1304.0	1312.5	1304.0	1292.4	1278.5	1260.5	1237.6	1207.4	1173.0
-55°	1144.6	1160.3	1175.2	1187.7	1175.2	1160.3	1144.6	1123.3	1096.2	1061.0	1021.5
-57.5°	976.0	991.9	997.8	996.4	997.8	991.9	976.0	955.9	932.0	902.5	868.5
-60°	818.6	829.9	838.3	843.5	838.3	829.9	818.6	804.1	786.5	763.0	735.5
-62.5°	686.4	696.2	707.2	716.6	707.2	696.2	686.4	673.2	656.4	633.8	606.6
-65°	560.6	571.0	579.3	585.8	579.3	571.0	560.6	548.0	533.0	514.1	490.9
-67.5°	468.2	480.5	489.8	497.2	489.8	480.5	468.2	454.2	438.7	419.5	395.7
-70°	375.6	387.9	395.4	400.6	395.4	387.9	375.6	362.0	347.2	329.0	305.1
-72.5°	264.7	273.6	277.8	279.8	277.8	273.6	264.7	254.1	241.8	226.2	204.5
-75°	133.1	137.4	141.5	144.9	141.5	137.4	133.1	128.0	122.2	115.2	105.5
-77.5°	77.7	81.9	84.4	86.6	84.4	81.9	77.7	73.5	69.2	64.6	58.9
-80°	55.7	58.1	60.3	62.4	60.3	58.1	55.7	53.1	50.4	47.6	43.8
-82.5°	38.0	40.2	41.3	42.3	41.3	40.2	38.0	35.8	33.6	31.3	28.9
-85°	30.1	32.1	33.2	34.2	33.2	32.1	30.1	28.0	25.9	23.7	21.1
-87.5°	24.4	26.3	27.2	28.2	27.2	26.3	24.4	22.5	20.5	18.5	16.5
-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°	21.1	16.6	12.1	11.6	11.1	10.6	10.1	9.6	9.1	8.6	8.1
87.5°	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.0	6.0	6.0	6.0
85°	3.9	3.9	4.0	4.5	5.0	5.5	6.0	6.0	6.0	6.0	6.0
82.5°	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.2	6.3	6.3	6.3
80°	4.8	5.1	5.3	5.3	5.5	5.7	6.1	6.6	7.1	7.6	7.7
77.5°	5.1	5.6	6.1	6.3	6.4	6.4	6.3	6.7	7.2	7.7	8.1
75°	6.4	6.8	7.3	8.0	8.2	8.1	7.9	7.7	7.7	7.9	8.1
72.5°	11.3	11.3	11.8	13.1	13.5	14.2	14.1	13.1	11.5	9.5	8.1
70°	15.8	16.9	19.2	22.8	25.2	26.3	25.8	23.9	20.5	18.0	14.4
67.5°	16.7	18.9	22.6	26.9	30.3	33.7	36.7	39.3	38.2	34.4	24.9
65°	14.8	17.1	19.9	23.2	27.5	32.9	40.2	44.8	47.2	47.8	39.6
62.5°	11.5	13.7	15.2	17.6	20.8	26.1	35.0	43.0	50.1	52.2	44.4
60°	8.9	10.1	11.1	12.5	14.3	19.3	28.4	38.0	48.0	48.3	44.7
57.5°	7.8	8.5	9.3	9.8	10.1	14.0	21.3	30.9	41.2	41.2	39.9
55°	7.9	8.5	9.0	9.6	10.1	11.7	14.7	21.0	29.5	31.7	31.5
52.5°	8.0	8.6	9.2	9.8	10.2	10.6	11.6	15.2	18.3	21.7	23.2
50°	8.2	8.8	9.4	9.9	10.3	10.2	10.5	11.6	13.4	15.5	17.0
47.5°	9.9	9.9	9.8	10.2	10.9	11.1	10.9	10.6	11.9	12.3	13.8
45°	13.5	12.8	11.7	12.2	12.3	12.4	12.4	12.9	12.5	12.6	12.1
42.5°	28.5	21.2	16.6	18.0	16.9	16.1	15.4	16.6	15.9	14.5	15.5
40°	40.1	44.1	37.4	31.6	28.9	23.8	23.2	22.0	21.2	18.6	21.5
37.5°	49.4	48.3	58.3	60.5	51.2	42.8	36.6	31.9	28.4	29.0	30.7
35°	79.8	77.0	80.1	84.3	82.0	74.9	59.8	47.5	41.4	42.2	42.1
32.5°	128.3	123.3	116.5	116.0	120.3	116.2	97.7	73.2	63.3	59.4	55.9
30°	193.1	182.7	166.7	164.8	173.5	164.0	144.2	127.0	105.0	79.9	72.0
27.5°	300.0	263.2	239.7	247.7	245.3	228.3	213.6	196.2	158.8	119.8	96.8
25°	480.6	410.1	381.7	368.2	343.0	328.1	305.2	274.8	230.5	181.1	158.7
22.5°	737.8	677.8	601.4	522.1	526.0	498.9	425.5	361.9	345.9	346.2	273.6
20°	1341.9	1134.7	933.3	905.1	863.5	735.3	584.4	574.5	630.5	579.1	427.9
17.5°	3116.6	2149.5	1722.9	1613.8	1384.6	1103.0	1053.4	1001.0	969.2	867.9	612.3
15°	6012.8	4398.5	3267.7	2667.6	2182.7	1900.3	1758.6	1488.4	1360.7	1189.0	886.9
12.5°	13453.7	8243.6	5017.1	4064.4	3350.3	2833.0	2537.4	2130.1	1805.5	1598.3	1297.5
10°	22637.0	13867.3	8355.1	5908.9	4703.6	3854.5	3260.1	2718.5	2274.4	2034.7	1720.4
7.5°	35363.5	20981.2	12131.4	7747.2	5941.7	4700.1	3849.6	3228.9	2727.0	2459.9	2146.5
5°	45607.3	26477.2	14606.0	9201.6	7017.1	5521.6	4445.0	3689.7	3162.9	2873.0	2564.7
2.5°	51787.0	29451.9	16270.1	10504.2	7951.9	6220.6	4961.1	4037.8	3473.4	3113.7	2777.5
0°	55404.6	31767.6	17909.9	11120.0	8464.8	6624.9	5342.6	4291.8	3718.1	3309.4	2961.2
-2.5°	53145.0	31349.8	17340.1	10751.9	8116.9	6449.2	5289.5	4370.3	3808.8	3376.8	2969.3
-5°	47691.6	27199.9	15372.5	9909.3	7550.7	6056.3	5047.8	4292.3	3786.7	3387.9	2939.3
-7.5°	39446.6	22416.8	13103.6	8888.0	6861.8	5552.0	4679.5	4033.7	3558.2	3210.8	2757.1
-10°	29229.7	17187.0	10679.5	7672.4	6071.3	5009.7	4299.1	3739.7	3325.4	3026.4	2546.9
-12.5°	21959.5	12866.6	8193.8	6340.4	5225.6	4470.6	3941.4	3429.9	3094.8	2839.5	2314.1
-15°	14631.8	9695.4	6923.7	5440.4	4541.3	3999.2	3607.7	3170.5	2921.4	2661.4	2063.0
-17.5°	10771.9	7313.8	5599.8	4680.7	4047.7	3624.6	3301.9	2985.2	2744.6	2436.1	1796.1
-20°	7528.0	5825.5	4816.7	4110.9	3636.6	3320.1	3027.9	2790.3	2548.8	2119.6	1525.7



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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°	5801.6	4955.3	4240.0	3651.6	3288.8	3042.8	2813.3	2596.8	2335.8	1785.6	1261.1
-25°	4826.1	4313.0	3835.8	3432.8	3042.3	2787.1	2617.2	2412.5	2014.6	1470.0	1036.6
-27.5°	4147.0	3818.7	3595.9	3228.2	2875.9	2610.0	2430.7	2204.6	1699.0	1230.2	992.5
-30°	3676.7	3505.9	3296.1	2986.5	2689.2	2463.5	2275.2	1865.7	1419.5	1044.1	968.9
-32.5°	3376.0	3224.8	3004.1	2725.3	2498.5	2342.1	1982.9	1544.0	1139.7	1017.7	936.1
-35°	3182.9	2967.9	2722.4	2529.6	2382.9	2059.4	1663.2	1244.5	1060.1	984.3	897.7
-37.5°	2933.0	2705.1	2540.6	2364.1	2066.7	1713.4	1301.4	1113.7	1030.3	940.2	847.2
-40°	2697.8	2520.2	2262.6	1997.1	1656.0	1282.7	1163.7	1091.2	990.8	887.0	788.9
-42.5°	2341.3	2106.2	1830.3	1508.1	1249.6	1201.3	1140.2	1041.3	936.6	826.8	728.1
-45°	1820.9	1558.5	1314.5	1264.8	1217.0	1149.2	1076.5	970.5	861.0	759.8	664.4
-47.5°	1348.0	1298.7	1256.2	1202.3	1132.9	1060.5	973.7	878.2	779.9	687.6	612.3
-50°	1251.1	1203.7	1152.4	1093.8	1019.2	940.6	862.0	782.8	699.2	626.7	554.9
-52.5°	1132.9	1078.3	1019.5	957.2	891.7	821.8	751.5	693.7	629.0	559.4	490.8
-55°	978.1	930.6	878.7	823.3	767.8	716.8	664.6	609.7	550.4	485.9	424.5
-57.5°	830.0	789.6	750.6	710.1	668.6	619.9	568.6	517.4	466.7	409.8	356.8
-60°	705.1	672.1	635.4	596.4	555.4	512.1	468.3	423.6	378.2	340.9	302.2
-62.5°	576.0	542.0	512.0	480.7	445.1	406.1	371.6	342.5	312.6	280.2	242.5
-65°	464.7	435.0	405.9	378.8	351.2	323.2	298.3	271.1	242.4	212.6	179.5
-67.5°	369.7	341.3	316.7	293.8	269.1	241.8	217.4	193.2	171.9	150.5	124.3
-70°	280.2	254.3	230.9	208.5	185.4	163.9	146.6	129.7	111.5	95.0	77.5
-72.5°	182.7	161.0	141.7	125.9	110.8	99.3	88.0	76.0	63.4	50.2	40.4
-75°	95.1	84.1	73.8	65.8	57.1	47.6	43.0	40.8	38.3	35.5	32.4
-77.5°	53.2	47.8	43.3	41.3	39.2	37.0	34.8	32.5	30.3	28.2	26.1
-80°	40.0	36.3	32.8	31.2	29.6	28.2	26.8	25.2	23.6	22.1	20.9
-82.5°	26.4	23.9	21.3	20.8	20.1	19.4	18.7	18.0	17.5	17.1	16.8
-85°	18.5	15.9	13.3	13.2	13.0	12.8	12.7	12.7	12.8	12.7	12.6
-87.5°	14.5	12.4	10.3	10.3	10.2	10.2	10.1	10.0	9.9	9.7	9.5
-90°	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.0	6.0	6.0	6.0





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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°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
87.5°	6.4	6.7	7.0	7.2	7.4	7.6	7.8	8.1	8.1	8.1	8.1
85°	6.5	7.1	7.6	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	6.6	7.1	7.6	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	7.6	7.7	7.9	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.1
72.5°	8.1	8.1	8.1	8.3	8.6	8.7	8.4	8.1	8.1	8.1	8.1
70°	11.1	8.6	8.1	8.3	8.7	9.3	9.2	8.7	8.1	8.1	8.1
67.5°	16.2	12.4	9.8	8.3	8.3	8.9	9.8	9.5	8.8	8.1	8.1
65°	28.5	19.0	11.9	9.9	8.6	8.3	9.1	9.9	9.5	8.7	8.1
62.5°	36.6	28.0	19.1	12.7	9.4	8.4	8.3	9.4	10.0	9.4	8.5
60°	40.3	32.2	25.8	19.0	12.4	8.6	8.2	8.9	9.7	10.0	9.0
57.5°	36.8	34.3	29.3	23.9	17.5	10.9	8.4	8.8	9.5	10.0	9.5
55°	31.1	30.2	30.9	26.8	21.4	15.0	9.7	8.9	9.4	9.9	10.0
52.5°	23.1	26.5	29.4	28.5	23.7	18.4	12.8	9.0	9.5	9.9	10.1
50°	17.0	22.0	27.5	28.8	25.6	20.5	15.5	10.9	9.6	10.0	10.2
47.5°	15.8	19.9	24.5	29.1	27.3	22.4	17.3	12.6	9.7	10.1	10.4
45°	16.3	19.7	23.1	27.2	29.1	23.9	19.0	13.8	10.7	10.3	10.5
42.5°	18.0	21.1	23.6	25.9	27.8	24.9	20.5	15.2	11.4	10.5	10.8
40°	23.3	23.8	25.1	27.3	26.9	25.5	21.2	16.5	11.8	11.0	11.0
37.5°	30.3	29.1	28.3	31.4	28.0	25.5	21.5	17.6	13.1	11.8	11.4
35°	40.5	37.0	35.3	37.7	33.8	26.2	21.4	18.3	15.1	12.7	11.7
32.5°	52.2	49.9	47.7	45.1	41.8	27.6	22.0	20.1	17.3	13.6	12.1
30°	70.1	72.9	63.0	53.5	50.9	35.1	24.8	22.3	19.5	14.6	12.6
27.5°	109.5	103.1	82.3	66.9	58.8	45.2	30.9	24.9	21.8	15.9	13.4
25°	160.5	143.2	112.1	83.5	67.4	73.2	38.2	28.0	24.1	17.8	14.2
22.5°	222.1	192.4	146.7	101.5	106.3	109.7	53.7	33.8	26.4	19.6	15.0
20°	291.4	248.9	197.9	168.7	155.3	144.6	80.6	40.2	29.0	21.5	15.8
17.5°	378.6	354.4	321.4	256.7	211.2	183.1	112.1	47.0	31.7	23.3	16.5
15°	620.0	516.8	458.3	355.0	270.9	224.5	147.1	54.1	34.5	25.0	17.4
12.5°	911.1	682.4	605.1	461.3	333.5	268.1	184.5	61.4	37.4	27.0	18.5
10°	1222.8	850.0	758.6	572.9	397.8	313.1	223.0	70.4	42.1	29.1	19.7
7.5°	1544.8	1018.3	915.5	686.8	461.8	357.9	265.4	82.9	47.3	31.1	20.9
5°	1835.1	1160.3	1041.2	783.6	519.1	400.9	306.7	95.4	52.5	32.9	22.1
2.5°	1974.9	1259.7	1140.9	872.8	574.2	442.1	344.8	107.5	57.6	34.7	23.2
0°	2085.5	1354.8	1232.0	954.2	626.1	481.1	378.4	118.8	62.4	36.2	24.2
-2.5°	2096.2	1352.4	1219.8	953.0	644.6	496.6	385.5	136.0	76.7	46.0	28.9
-5°	2074.6	1344.6	1199.5	943.5	658.8	509.0	387.4	152.0	90.4	55.3	33.3
-7.5°	1952.3	1299.9	1160.1	924.7	668.5	517.9	384.7	166.6	103.1	64.0	37.3
-10°	1784.9	1232.1	1097.2	882.7	657.6	516.6	377.8	179.6	114.7	71.8	40.9
-12.5°	1589.8	1162.9	1033.5	837.6	640.3	507.0	365.7	191.5	125.1	78.5	43.9
-15°	1368.5	1093.3	971.3	791.0	619.8	495.5	352.2	201.7	134.6	84.7	46.2
-17.5°	1129.5	1024.2	912.5	744.4	596.5	482.5	338.1	209.9	142.7	90.5	48.8
-20°	1057.0	970.6	857.2	699.1	570.6	468.3	324.3	216.0	149.4	94.8	51.2



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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°	1015.6	928.0	808.4	663.9	546.1	453.2	311.4	219.9	154.6	97.6	52.5
-25°	975.2	885.0	761.7	633.2	526.1	431.5	306.6	221.4	158.1	98.6	52.6
-27.5°	929.2	839.2	715.1	600.0	506.9	413.3	306.8	224.4	159.7	98.0	51.5
-30°	881.6	786.4	674.2	567.9	485.8	391.4	304.1	225.5	158.6	96.3	48.9
-32.5°	842.6	735.6	633.2	542.7	460.3	368.3	292.6	224.4	155.0	93.2	47.0
-35°	795.4	690.2	591.5	515.7	432.7	349.2	277.1	221.2	148.9	88.2	44.7
-37.5°	744.7	645.0	560.4	485.9	404.1	327.6	262.9	206.4	140.2	81.2	41.1
-40°	692.1	602.0	528.1	453.9	376.8	303.5	246.8	188.1	130.1	72.1	36.4
-42.5°	637.1	563.2	490.8	420.3	347.8	283.5	228.2	168.0	114.3	64.1	30.5
-45°	591.0	519.8	449.4	382.7	317.3	261.4	203.8	146.3	96.6	55.9	26.0
-47.5°	540.3	471.0	405.4	342.6	290.2	235.8	177.2	125.0	77.8	46.1	24.7
-50°	483.4	419.7	359.2	306.5	259.2	204.0	149.5	102.2	64.2	34.2	23.2
-52.5°	426.0	367.0	316.3	270.9	221.7	170.1	122.5	79.0	50.0	28.7	21.4
-55°	366.4	318.7	275.7	229.7	181.8	137.1	93.9	62.3	35.1	26.1	19.5
-57.5°	314.7	273.0	229.4	185.0	143.1	103.4	70.8	45.0	29.4	23.3	18.3
-60°	262.9	221.0	179.8	141.9	105.0	74.6	50.9	31.8	26.2	20.8	17.0
-62.5°	204.6	167.6	132.9	99.1	73.3	51.8	33.4	28.2	22.9	19.1	15.5
-65°	149.3	117.9	86.6	67.4	48.0	33.5	29.3	24.5	20.7	17.4	14.2
-67.5°	96.7	76.3	56.9	39.5	32.8	28.9	25.0	21.8	18.7	15.6	13.2
-70°	59.7	42.6	34.7	31.1	27.7	24.5	22.2	19.5	16.7	14.4	12.1
-72.5°	36.4	32.6	28.9	25.8	23.7	21.7	19.6	17.4	15.3	13.2	11.1
-75°	29.1	26.6	24.4	22.4	20.6	18.8	17.3	15.8	13.9	12.0	10.7
-77.5°	24.2	22.4	20.7	19.1	17.7	16.5	15.4	14.3	12.6	11.4	10.5
-80°	19.7	18.4	17.1	15.8	14.9	14.1	13.5	12.7	11.6	10.8	10.3
-82.5°	15.7	14.7	13.8	13.0	12.5	12.1	11.6	11.1	10.5	10.1	9.9
-85°	12.0	11.5	11.1	10.7	10.4	10.1	9.9	9.8	9.6	9.5	9.3
-87.5°	9.5	9.4	9.3	9.2	9.2	9.1	9.0	8.9	8.9	8.8	8.7
-90°	6.0	6.0	6.0	6.0	6.5	7.1	7.6	8.1	8.1	8.1	8.1



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
87.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
72.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
70°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
67.5°	8.2	8.1	8.1	8.1	8.1	8.1	8.1
65°	8.2	8.2	8.1	8.1	8.1	8.1	8.1
62.5°	8.3	8.3	8.1	8.1	8.1	8.1	8.1
60°	8.5	8.5	8.1	8.1	8.1	8.1	8.1
57.5°	8.9	8.7	8.3	8.1	8.1	8.1	8.1
55°	9.2	8.9	8.5	8.1	8.2	8.1	8.1
52.5°	9.6	9.1	8.7	8.1	8.2	8.1	8.1
50°	9.9	9.4	8.9	8.1	8.2	8.1	8.1
47.5°	10.1	9.6	9.2	8.1	8.3	8.1	8.1
45°	10.3	9.7	9.4	8.3	8.3	8.1	8.1
42.5°	10.5	9.9	9.6	8.5	8.4	8.1	8.1
40°	10.7	10.0	9.8	8.7	8.5	8.1	8.1
37.5°	10.9	10.1	9.9	9.0	8.6	8.1	8.1
35°	11.2	10.2	10.0	9.2	8.6	8.1	8.1
32.5°	11.5	10.4	10.0	9.3	8.7	8.1	8.1
30°	11.8	10.7	10.1	9.5	8.8	8.1	8.1
27.5°	12.2	10.9	10.1	9.6	8.9	8.1	8.1
25°	12.5	11.1	10.1	9.7	9.0	8.1	8.1
22.5°	12.9	11.3	10.1	9.8	9.1	8.1	8.1
20°	13.3	11.5	10.1	9.9	9.3	8.1	8.1
17.5°	13.5	11.6	10.1	10.0	9.4	8.1	8.1
15°	13.7	11.8	10.1	10.0	9.5	8.1	8.1
12.5°	13.8	11.9	10.1	10.1	9.6	8.1	8.1
10°	13.9	11.9	10.1	10.1	9.7	8.1	8.1
7.5°	14.0	12.0	10.1	10.1	9.8	8.1	8.1
5°	14.1	12.1	10.1	10.1	9.9	8.1	8.1
2.5°	14.1	12.1	10.1	10.1	10.0	8.1	8.1
0°	14.1	12.1	10.1	10.1	10.1	8.1	8.1
-2.5°	16.0	12.5	10.3	10.1	10.1	8.1	8.1
-5°	17.8	12.9	10.4	10.1	10.1	8.1	8.1
-7.5°	19.4	13.3	10.6	10.1	10.1	8.1	8.1
-10°	20.9	13.6	10.8	10.1	10.0	8.1	8.1
-12.5°	22.2	13.9	10.9	10.1	10.0	8.1	8.1
-15°	23.2	14.2	11.0	10.1	10.0	8.1	8.1
-17.5°	23.9	14.3	11.1	10.1	9.9	8.1	8.1
-20°	24.6	14.4	11.1	10.1	9.9	8.1	8.1



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	25.3	14.5	11.2	10.1	9.8	8.1	8.1
-25°	25.5	14.6	11.2	10.1	9.7	8.1	8.1
-27.5°	24.9	14.7	11.1	10.1	9.6	8.1	8.1
-30°	23.6	14.7	11.0	10.1	9.6	8.1	8.1
-32.5°	21.6	14.6	11.1	10.1	9.5	8.1	8.1
-35°	20.7	14.4	11.0	10.1	9.4	8.1	8.1
-37.5°	20.4	14.1	11.0	10.1	9.3	8.1	8.1
-40°	19.9	14.0	10.8	10.1	9.2	8.1	8.1
-42.5°	19.2	13.8	10.8	10.1	9.0	8.1	8.1
-45°	18.3	13.5	10.8	10.1	8.9	8.1	8.1
-47.5°	17.3	13.2	10.8	10.1	8.8	8.1	8.1
-50°	16.6	12.7	10.7	10.0	8.7	8.1	8.1
-52.5°	15.9	12.2	10.6	9.8	8.5	8.1	8.1
-55°	15.1	11.9	10.5	9.6	8.4	8.1	8.1
-57.5°	14.2	11.6	10.3	9.4	8.2	8.1	8.1
-60°	13.2	11.2	10.1	9.2	8.1	8.1	8.1
-62.5°	12.6	10.8	9.9	9.1	8.1	8.1	8.1
-65°	11.9	10.4	9.7	8.9	8.1	8.1	8.1
-67.5°	11.1	10.0	9.6	8.7	8.1	8.1	8.1
-70°	10.2	9.9	9.4	8.5	8.1	8.1	8.1
-72.5°	10.1	9.8	9.2	8.5	8.1	8.1	8.1
-75°	10.1	9.7	9.1	8.4	8.1	8.1	8.1
-77.5°	10.1	9.6	8.9	8.4	8.1	8.1	8.1
-80°	10.1	9.4	8.8	8.3	8.1	8.1	8.1
-82.5°	9.6	9.1	8.6	8.3	8.1	8.1	8.1
-85°	9.1	8.7	8.4	8.2	8.1	8.1	8.1
-87.5°	8.6	8.4	8.3	8.2	8.1	8.1	8.1
-90°	8.1	8.1	8.1	8.1	8.1	8.1	8.1

(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

