

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: P701712 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-70-4S-CV2-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701712 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-57-70-4S-CV2-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

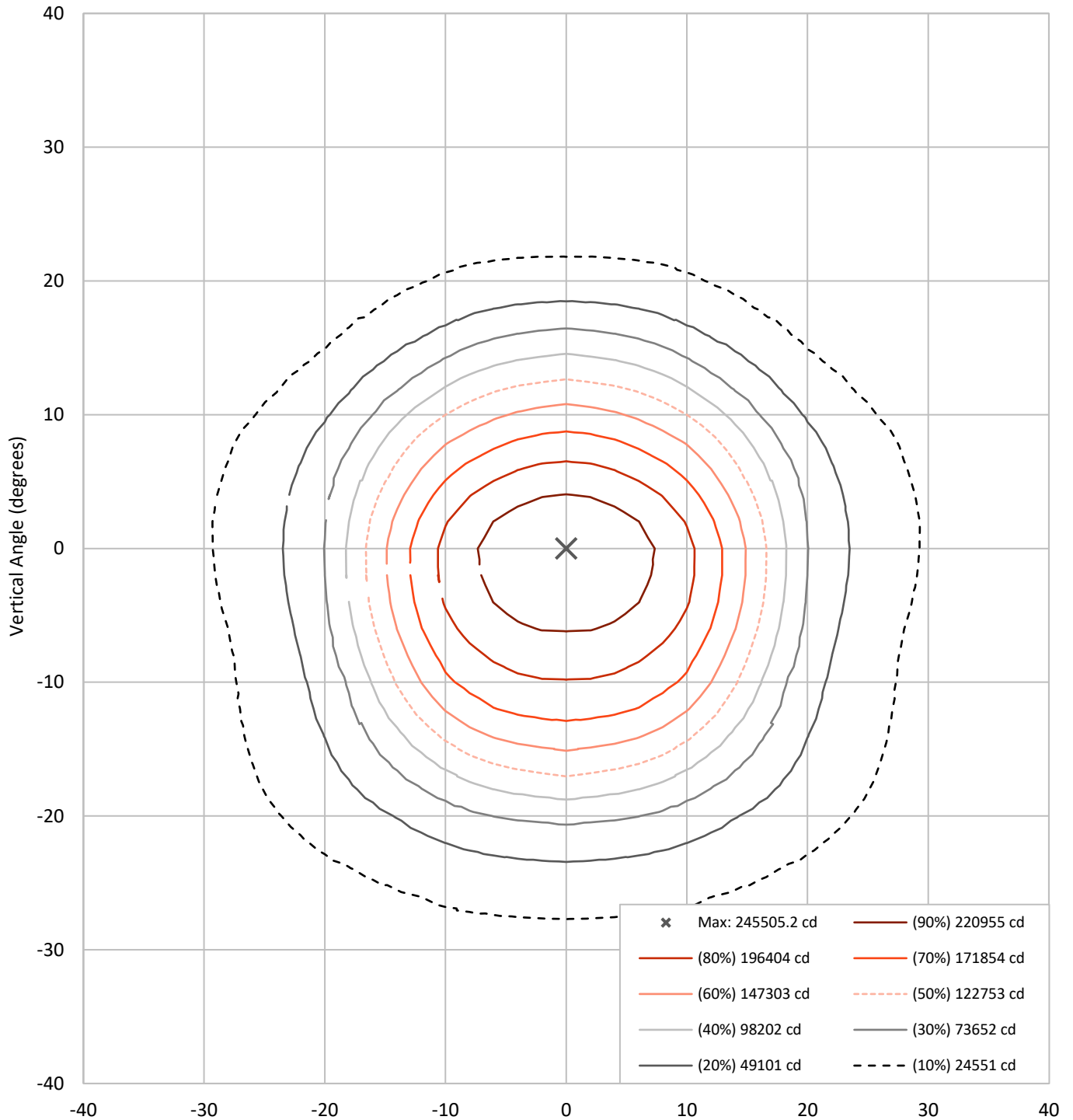
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	78572.8 lumens	Max Intensity:	245505.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	112.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.2°H x 29.7°V	Field Angle (10%):	58.6°H x 49.3°V
Beam Lumens:	43115.4 lumens	Field Lumens:	69080.2 lumens
Beam Efficiency:	54.9%	Field Efficiency:	87.9%

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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CATALOG NUMBER: EPH-LS-08-0680R-57-70-4S-CV2-S

### Iso-Candela Plot





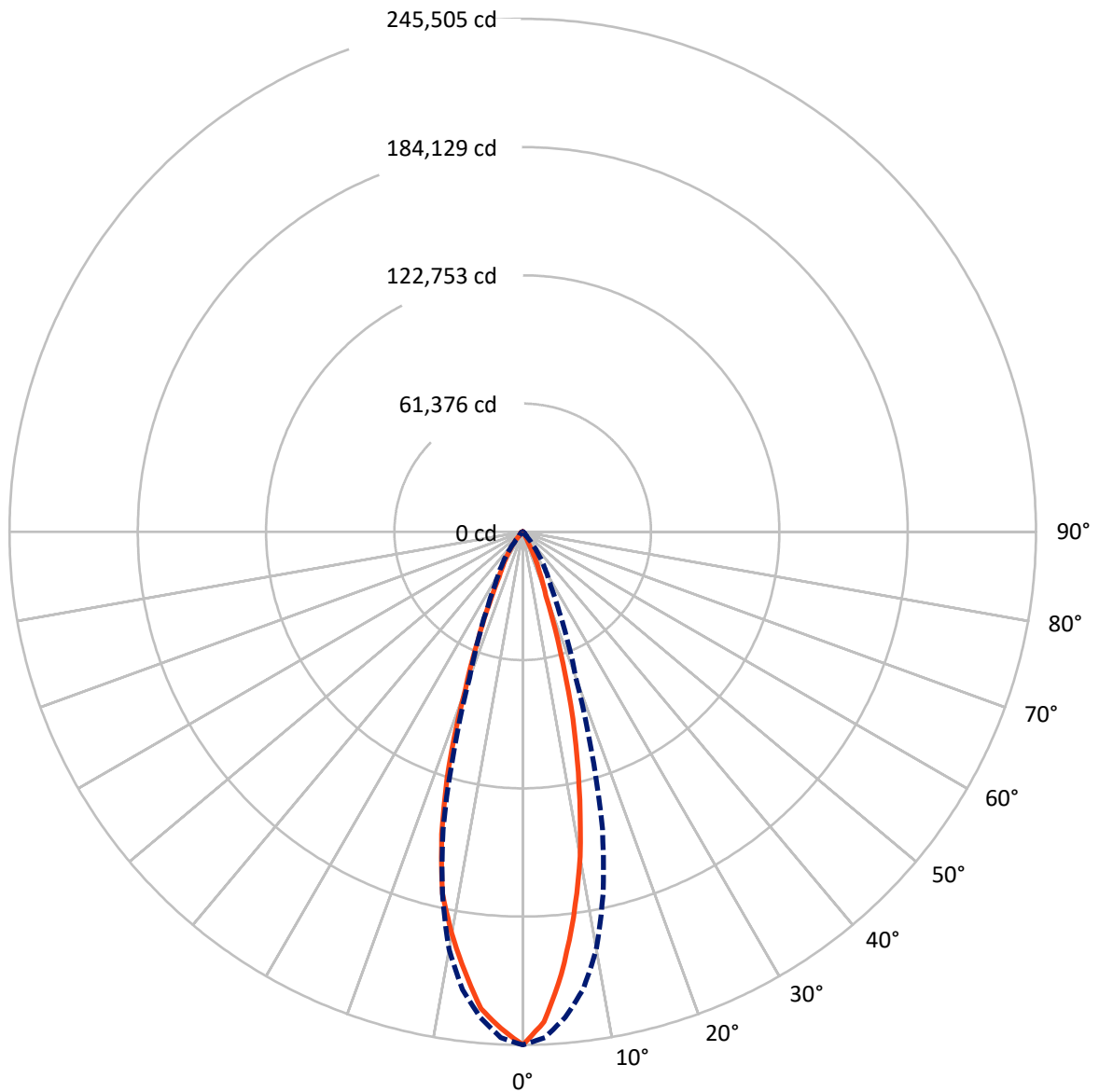
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### Lumen Table

90																			
80	0.2	0.5		0.7		0.6		0.5		0.6		0.7		0.5		0.2			
70																			
60	0.2	0.1	0.2	0.5	0.6	0.4	0.3	0.4	0.4	0.3	0.4	0.6	0.5	0.2	0.1	0.2			
50		0.1	0.3	0.9	0.8	0.4	0.3	0.4	0.4	0.3	0.4	0.8	0.9	0.3	0.1				
40	0.2	0.2	0.4	0.7	0.7	0.9	1.3	1.5	1.5	1.3	0.9	0.7	0.7	0.4	0.2	0.2			
30		0.2	0.9	1.9	3.3	7.4	14.8	20.4	20.4	14.8	7.4	3.3	1.9	0.9	0.2				
20	0.3	0.4	2.8	7.7	28.8	104.7	248.1	419.7	419.7	248.1	104.7	28.8	7.7	2.8	0.4	0.3			
10		1.0	6.4	20.7	127.2	440.4	1351.5	2553.4	2553.4	1351.5	440.4	127.2	20.7	6.4	1.0				
0	0.3	1.8	11.0	39.1	296.3	1055.3	3500.5	5914.6	5914.6	3500.5	1055.3	296.3	39.1	11.0	1.8	0.3			
-10		3.0	14.6	46.3	308.8	1088.2	3928.8	6493.5	6493.5	3928.8	1088.2	308.8	46.3	14.6	3.0				
-20	0.5	3.5	14.9	39.9	241.0	802.2	2346.4	4099.2	4099.2	2346.4	802.2	241.0	39.9	14.9	3.5	0.5			
-30		3.2	12.8	27.4	104.1	380.7	792.5	1186.0	1186.0	792.5	380.7	104.1	27.4	12.8	3.2				
-40	0.4	2.5	9.8	19.0	35.8	102.8	233.5	329.8	329.8	233.5	102.8	35.8	19.0	9.8	2.5	0.4			
-50		1.6	6.6	14.4	23.5	35.7	52.4	68.5	68.5	52.4	35.7	23.5	14.4	6.6	1.6				
-60	0.3	0.8	3.5	9.5	17.4	25.1	32.2	36.5	36.5	32.2	25.1	17.4	9.5	3.5	0.8	0.3			
-70		0.3	1.3	3.9	8.4	14.5	20.8	24.5	24.5	20.8	14.5	8.4	3.9	1.3	0.3				
-80	0.2	0.9		3.1		8.2		11.6		8.2		3.1		0.9		0.2			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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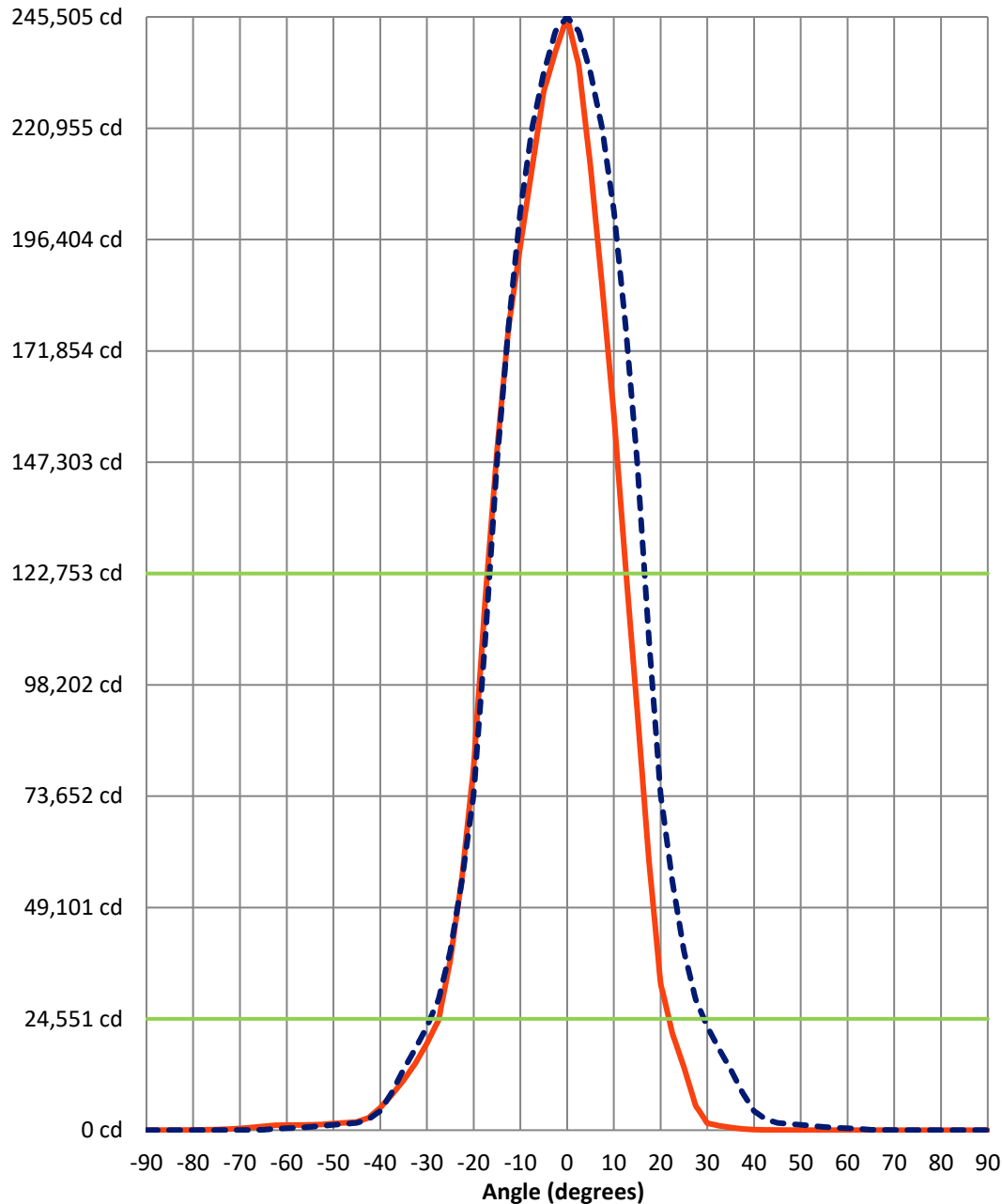
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 33.2°  
 V Angle: 29.7°  
 Lumens: 43115.4  
 Efficiency: 54.9%

**Field:**  
 H Angle: 58.6°  
 V Angle: 49.3°  
 Lumens: 69080.2  
 Efficiency: 87.9%

**Spill:**  
 Lumens: 9492.6  
 Efficiency: 12.1%

- 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°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
85°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
82.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.8	8.7
80°	8.7	8.7	8.7	8.7	8.7	8.7	8.8	9.0	9.1	9.0	8.7
77.5°	8.7	8.7	8.7	8.7	8.7	8.9	9.3	9.5	9.5	9.3	8.8
75°	8.7	8.7	8.7	8.7	8.8	9.3	9.8	10.0	9.9	9.4	8.9
72.5°	8.7	8.7	8.7	8.7	9.1	9.7	10.3	10.4	9.9	9.4	8.9
70°	8.7	8.7	8.7	8.7	9.5	10.2	10.8	10.5	10.0	9.5	9.6
67.5°	8.7	8.7	8.7	9.0	9.8	10.6	10.8	10.5	10.1	10.0	10.3
65°	8.7	8.7	8.7	9.3	10.1	10.8	10.8	10.6	10.3	10.5	10.8
62.5°	8.7	8.7	8.7	9.5	10.5	10.8	10.8	10.7	10.6	10.8	10.8
60°	8.7	8.7	8.7	9.7	10.8	10.8	10.8	10.8	10.8	10.8	10.8
57.5°	8.7	8.7	8.9	10.0	10.8	10.8	10.8	10.8	10.8	10.8	10.8
55°	8.7	8.7	9.0	10.2	10.8	10.8	10.8	10.8	10.8	10.8	10.8
52.5°	8.7	8.7	9.2	10.4	10.8	10.8	10.8	10.8	10.8	10.8	10.8
50°	8.7	8.7	9.3	10.6	10.8	10.8	10.8	10.8	10.8	10.8	11.8
47.5°	8.7	8.7	9.4	10.8	10.8	10.8	10.8	10.8	10.8	10.8	12.8
45°	8.7	8.7	9.6	10.8	10.8	10.8	10.8	10.8	10.9	11.5	13.6
42.5°	8.7	8.7	9.7	10.8	10.8	10.8	10.8	10.9	11.0	12.1	14.1
40°	8.7	8.7	9.8	10.8	10.8	10.8	10.8	11.1	11.4	12.6	14.6
37.5°	8.7	8.7	9.9	10.8	10.8	10.8	10.8	11.3	12.0	13.3	15.0
35°	8.7	8.7	10.0	10.8	10.8	10.8	10.8	11.5	12.6	14.0	15.4
32.5°	8.7	8.7	10.1	10.8	10.8	10.8	10.9	11.8	13.2	14.7	16.4
30°	8.7	8.7	10.2	10.8	10.8	10.8	11.1	12.2	13.8	15.3	17.8
27.5°	8.7	8.7	10.3	10.8	10.8	10.8	11.3	12.7	14.3	15.9	19.5
25°	8.7	8.7	10.4	10.8	10.8	10.8	11.6	13.1	14.9	17.0	21.6
22.5°	8.7	8.7	10.5	10.8	10.8	10.8	11.9	13.6	15.3	18.5	26.1
20°	8.7	8.7	10.5	10.8	10.8	11.0	12.2	14.0	15.8	20.2	30.7
17.5°	8.7	8.7	10.6	10.8	10.8	11.2	12.4	14.4	16.2	21.9	35.4
15°	8.7	8.7	10.7	10.8	10.8	11.4	12.6	14.8	16.6	23.7	40.0
12.5°	8.7	8.7	10.7	10.8	10.8	11.7	12.8	15.2	17.8	25.6	44.5
10°	8.7	8.7	10.7	10.8	10.8	11.9	12.9	15.7	19.7	29.8	50.8
7.5°	8.7	8.7	10.8	10.8	10.8	12.2	13.0	16.1	21.8	34.4	61.1
5°	8.7	8.7	10.8	10.8	10.8	12.5	13.0	16.5	23.9	39.0	71.4
2.5°	8.7	8.7	10.8	10.8	10.8	12.7	13.0	16.9	26.1	43.4	81.4
0°	8.7	8.7	10.8	10.8	10.8	13.0	13.0	17.3	28.1	47.6	90.9
-2.5°	8.7	8.7	10.8	10.8	10.8	13.0	14.2	20.7	36.3	63.1	117.6
-5°	8.7	8.7	10.8	10.8	10.8	13.0	15.3	23.9	44.0	77.8	142.8
-7.5°	8.7	8.7	10.8	10.8	10.8	12.9	16.3	26.9	51.2	91.4	165.8
-10°	8.7	8.7	10.7	10.8	10.8	12.8	17.2	29.5	57.5	103.6	185.9
-12.5°	8.7	8.7	10.7	10.8	10.8	12.7	17.9	31.8	62.7	113.9	199.2
-15°	8.7	8.7	10.7	10.8	10.8	12.6	18.5	33.5	67.1	121.8	208.0
-17.5°	8.7	8.7	10.6	10.8	10.8	12.5	18.7	35.4	70.7	127.6	213.8
-20°	8.7	8.7	10.5	10.8	10.8	12.3	19.2	37.1	72.8	131.3	216.5



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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°	8.7	8.7	10.5	10.8	10.8	12.2	19.9	38.3	73.3	132.4	216.0
-25°	8.7	8.7	10.4	10.8	10.8	12.3	20.3	38.7	72.0	131.0	212.1
-27.5°	8.7	8.7	10.3	10.8	10.8	12.5	20.2	38.4	68.9	128.0	210.0
-30°	8.7	8.7	10.2	10.8	10.8	12.5	19.6	37.3	66.9	124.3	204.5
-32.5°	8.7	8.7	10.1	10.8	10.9	12.4	18.5	36.4	65.5	118.0	195.3
-35°	8.7	8.7	10.0	10.8	11.0	12.2	18.0	35.1	62.9	109.1	182.4
-37.5°	8.7	8.7	9.9	10.8	11.1	12.0	17.7	33.0	59.2	97.5	162.4
-40°	8.7	8.7	9.8	10.8	11.1	12.0	17.1	30.2	54.4	89.9	143.0
-42.5°	8.7	8.7	9.7	10.8	11.2	12.1	16.2	26.6	49.7	81.4	122.5
-45°	8.7	8.7	9.6	10.9	11.3	12.1	15.1	23.5	44.7	71.8	102.6
-47.5°	8.7	8.7	9.4	10.9	11.3	12.1	13.8	21.8	38.6	61.7	91.2
-50°	8.7	8.7	9.3	10.8	11.4	12.0	13.5	19.8	31.1	53.1	79.1
-52.5°	8.7	8.7	9.2	10.6	11.5	11.9	13.3	17.4	26.4	43.8	66.4
-55°	8.7	8.7	9.0	10.5	11.5	12.0	13.1	14.9	22.9	33.8	54.9
-57.5°	8.7	8.7	8.9	10.3	11.6	12.0	12.8	14.5	19.0	27.8	42.7
-60°	8.7	8.7	8.7	10.1	11.6	12.1	12.6	14.1	15.6	22.8	32.1
-62.5°	8.7	8.7	8.7	9.9	11.3	12.1	12.6	13.6	15.0	17.4	25.7
-65°	8.7	8.7	8.7	9.6	11.0	12.2	12.7	13.2	14.4	15.8	19.0
-67.5°	8.7	8.7	8.7	9.4	10.7	12.0	12.8	13.2	13.8	15.1	16.4
-70°	8.7	8.7	8.7	9.2	10.4	11.6	12.8	13.1	13.6	14.4	15.6
-72.5°	8.7	8.7	8.7	9.1	10.1	11.2	12.4	13.0	13.3	13.9	14.8
-75°	8.7	8.7	8.7	9.1	9.7	10.8	11.9	12.5	13.0	13.4	14.0
-77.5°	8.7	8.7	8.7	9.0	9.6	10.4	11.4	11.9	12.3	12.8	13.2
-80°	8.7	8.7	8.7	9.0	9.4	10.0	10.8	11.2	11.6	12.0	12.3
-82.5°	8.7	8.7	8.7	8.9	9.2	9.7	10.3	10.6	10.9	11.1	11.4
-85°	8.7	8.7	8.7	8.8	9.1	9.4	9.8	10.0	10.1	10.3	10.5
-87.5°	8.7	8.7	8.7	8.8	8.9	9.0	9.2	9.3	9.4	9.5	9.6
-90°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7





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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°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.2	7.6	7.1
87.5°	8.2	7.6	7.1	6.5	6.5	6.5	6.5	6.5	6.0	5.4	4.9
85°	8.2	7.6	7.2	6.8	6.9	6.8	6.7	6.5	6.2	6.0	5.8
82.5°	8.4	8.2	8.1	8.1	7.9	7.6	7.1	6.6	6.5	6.5	6.5
80°	8.6	8.7	8.7	8.7	8.2	7.7	7.1	6.6	6.5	6.6	6.6
77.5°	8.7	8.7	8.7	8.7	8.3	7.9	7.7	7.7	7.7	7.5	7.2
75°	8.7	8.7	8.8	8.8	8.6	8.6	8.7	8.7	8.4	7.8	7.3
72.5°	9.0	9.3	9.3	9.0	8.7	8.7	8.7	8.7	8.9	9.1	8.9
70°	9.9	10.0	9.6	9.0	8.7	9.0	10.2	11.3	12.0	12.1	12.5
67.5°	10.7	10.2	9.6	9.4	10.4	11.7	13.0	14.7	16.5	17.1	18.0
65°	10.7	10.2	10.3	11.2	12.8	14.5	16.4	18.6	23.3	26.1	27.5
62.5°	10.8	10.7	11.3	12.9	15.1	17.2	20.6	25.9	32.9	37.8	38.0
60°	10.8	11.0	12.7	15.1	17.4	20.3	25.3	33.3	43.9	51.8	47.3
57.5°	10.8	12.0	14.6	17.0	19.4	22.6	30.3	40.6	51.4	62.9	53.8
55°	11.4	13.8	16.2	18.4	21.4	25.5	33.5	43.3	55.2	58.5	48.1
52.5°	12.8	15.3	17.2	19.8	23.5	27.5	33.1	41.6	45.4	46.3	40.0
50°	14.1	16.0	18.0	21.0	24.9	28.2	29.9	35.0	36.4	34.6	31.2
47.5°	14.9	16.7	18.5	21.9	25.8	28.6	28.7	28.9	28.4	27.9	23.1
45°	15.5	17.3	19.2	22.9	27.0	29.5	28.1	24.1	27.4	26.5	25.4
42.5°	16.0	17.9	21.1	24.1	29.4	31.0	28.8	29.8	30.7	32.0	32.5
40°	16.5	18.5	23.7	29.5	32.6	33.3	36.8	39.6	38.4	42.0	44.1
37.5°	17.0	21.5	28.7	39.4	36.0	40.8	47.5	58.2	58.7	55.3	63.5
35°	17.4	24.8	40.8	52.5	49.7	52.5	70.3	84.5	88.8	84.1	89.4
32.5°	19.5	28.6	56.1	68.2	75.1	78.7	99.0	120.3	136.4	139.5	126.4
30°	23.5	42.5	73.6	87.2	107.3	126.8	140.9	166.7	199.8	225.6	236.1
27.5°	28.7	59.5	91.9	116.5	147.1	180.3	204.7	236.9	290.7	337.0	375.0
25°	34.3	82.6	112.3	152.3	197.8	240.8	278.3	332.0	403.3	480.1	613.5
22.5°	46.6	108.9	143.1	191.8	251.9	305.7	368.1	444.5	535.8	641.1	888.6
20°	66.8	134.8	180.1	235.9	310.1	373.9	461.7	559.3	683.8	908.5	1328.6
17.5°	88.2	162.7	218.1	288.0	380.1	460.7	559.1	673.3	838.3	1197.7	2025.2
15°	110.5	192.0	254.2	343.2	456.7	571.6	690.5	814.8	1050.8	1606.9	2912.2
12.5°	133.1	222.1	288.6	400.3	537.8	687.4	829.2	987.3	1328.7	2310.3	4226.2
10°	155.2	252.3	321.1	458.0	621.4	805.7	966.7	1152.8	1617.5	2947.5	5401.3
7.5°	191.8	291.8	355.8	514.8	705.6	924.1	1101.7	1310.6	1899.6	3502.8	6483.6
5°	230.3	340.2	411.2	584.3	788.7	1029.6	1223.7	1459.4	2166.7	3970.1	7498.7
2.5°	267.2	386.8	465.3	651.0	866.5	1111.6	1301.2	1542.6	2309.5	4188.5	8125.8
0°	300.9	430.8	517.4	712.3	937.5	1184.3	1370.5	1615.1	2396.7	4230.5	8326.8
-2.5°	341.7	479.1	571.3	761.0	976.3	1227.0	1414.4	1670.2	2486.8	4467.1	8363.1
-5°	376.8	523.9	622.7	804.3	1008.8	1260.3	1451.2	1713.1	2528.9	4574.8	8187.3
-7.5°	405.1	564.8	671.3	838.6	1025.6	1267.0	1464.6	1720.2	2499.6	4519.3	7827.5
-10°	422.2	582.0	683.0	838.0	1020.2	1252.9	1464.7	1714.0	2415.2	4289.3	7322.2
-12.5°	409.9	577.3	685.2	831.7	1009.7	1229.2	1454.3	1694.3	2271.4	3864.5	6730.9
-15°	394.5	569.6	683.8	819.6	994.8	1195.9	1432.7	1660.9	2047.3	3205.9	6000.7
-17.5°	377.0	558.9	678.6	801.5	975.9	1153.1	1388.7	1573.7	1815.5	2731.5	5158.9
-20°	357.9	545.6	669.4	777.6	952.7	1091.3	1285.2	1475.7	1696.2	2322.8	4026.5



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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°	338.0	529.6	654.1	762.0	893.7	1020.2	1176.3	1362.9	1565.0	1815.0	2822.1
-25°	326.4	499.7	632.2	726.0	829.9	947.6	1064.4	1236.8	1428.1	1629.4	2159.5
-27.5°	320.3	470.8	596.3	689.9	768.4	875.1	974.3	1111.9	1289.3	1461.4	1629.4
-30°	309.9	429.8	559.7	652.6	723.7	807.8	893.3	1004.9	1162.4	1313.5	1452.8
-32.5°	287.6	388.2	514.7	611.0	684.2	745.5	830.0	929.7	1050.8	1182.1	1294.1
-35°	260.2	355.4	466.2	569.5	645.3	703.4	779.4	863.2	952.1	1065.9	1200.0
-37.5°	234.7	319.7	417.9	523.1	600.6	671.3	729.7	805.1	881.8	966.1	1100.2
-40°	207.3	281.3	374.2	470.9	560.7	633.9	694.6	751.0	818.1	902.3	991.9
-42.5°	178.8	248.9	329.4	419.8	509.9	588.8	657.8	709.8	767.1	839.6	919.4
-45°	155.2	214.8	283.6	369.1	454.1	537.2	607.5	673.1	728.1	781.5	850.4
-47.5°	130.6	181.3	244.6	317.4	398.2	476.2	552.4	624.8	694.7	744.6	786.8
-50°	108.1	153.5	205.0	271.9	342.4	415.4	486.7	571.5	645.6	708.5	757.6
-52.5°	93.7	124.8	172.1	227.1	290.4	356.1	426.5	504.5	584.8	659.6	717.0
-55°	78.6	105.3	138.8	186.3	240.0	299.6	365.4	437.0	510.0	585.2	658.7
-57.5°	63.9	87.7	113.2	146.3	192.9	243.8	304.2	367.8	434.9	503.1	571.1
-60°	49.2	70.0	93.0	117.2	145.7	191.5	241.5	297.3	357.1	418.3	479.6
-62.5°	35.1	52.2	72.4	94.3	116.9	141.7	182.1	228.6	276.8	327.6	381.0
-65°	27.2	36.2	51.1	70.3	91.0	112.7	136.7	162.9	203.1	242.5	280.0
-67.5°	19.1	27.3	35.4	45.3	63.0	81.7	101.8	123.6	146.9	169.9	196.8
-70°	17.1	19.3	25.7	33.0	39.9	49.0	65.5	83.0	101.1	118.5	137.7
-72.5°	16.0	17.7	20.0	22.8	28.6	34.3	39.9	45.3	55.9	70.3	84.4
-75°	14.9	16.0	17.6	19.6	21.9	24.3	27.1	31.9	36.4	40.7	45.0
-77.5°	13.8	14.5	15.4	16.6	17.9	19.7	21.7	23.8	25.6	27.3	29.1
-80°	12.6	13.0	13.5	14.2	15.0	16.0	17.1	18.3	19.1	20.1	21.2
-82.5°	11.6	11.9	12.1	12.4	12.5	12.8	13.1	13.8	14.4	14.9	15.5
-85°	10.6	10.8	11.0	11.1	10.9	10.7	10.6	10.5	10.7	11.0	11.2
-87.5°	9.7	9.7	9.8	9.9	9.7	9.4	9.1	8.7	8.6	8.4	8.4
-90°	8.2	7.6	7.1	6.5	6.5	6.5	6.5	6.5	6.0	5.4	4.9



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	6.5	6.5	6.5	6.5	6.5	7.6	8.7	9.7	10.8	11.9	13.0
87.5°	4.3	4.3	4.3	4.3	4.3	3.8	3.3	2.7	2.2	2.2	2.2
85°	5.7	5.4	5.1	4.7	4.3	4.2	4.2	4.2	4.2	3.7	3.2
82.5°	6.5	6.0	5.4	4.9	4.3	4.3	4.3	4.3	4.3	3.8	3.3
80°	6.5	6.0	5.5	4.9	4.4	4.3	4.3	4.3	4.3	3.8	3.3
77.5°	6.6	6.2	5.8	5.6	5.5	5.4	5.1	4.8	4.4	3.8	3.3
75°	6.7	6.6	6.7	6.7	6.6	6.1	5.5	5.0	4.4	4.2	4.2
72.5°	8.5	8.2	8.1	8.3	8.2	8.0	7.5	7.0	6.2	6.1	6.3
70°	12.7	13.0	13.1	12.9	12.1	11.1	10.3	9.4	8.5	8.3	8.4
67.5°	19.2	19.5	18.8	17.4	15.2	13.3	12.4	11.6	10.6	10.3	10.5
65°	27.6	25.5	23.3	20.9	18.1	15.0	14.1	13.3	12.6	12.7	13.4
62.5°	35.6	29.0	23.4	19.9	17.2	15.0	14.0	13.0	12.1	11.6	12.0
60°	39.2	27.9	20.3	17.9	15.6	13.4	12.1	11.1	10.1	9.5	9.9
57.5°	39.4	27.3	18.7	16.0	13.6	11.5	10.5	9.9	9.3	8.8	9.4
55°	35.0	24.2	15.9	13.7	12.3	11.3	10.7	10.5	10.3	10.0	10.4
52.5°	28.1	20.3	14.8	12.8	12.9	12.9	12.8	12.8	13.1	13.4	14.0
50°	22.4	17.3	15.7	14.8	15.3	15.4	15.1	15.9	17.0	17.7	18.3
47.5°	20.6	18.9	19.0	18.5	19.3	20.8	21.1	21.8	23.4	24.4	25.2
45°	22.9	24.5	25.5	27.3	28.3	30.8	31.7	31.7	35.2	37.7	39.0
42.5°	31.9	34.6	38.0	41.4	43.1	46.3	49.6	51.4	56.8	61.0	62.7
40°	48.1	49.7	56.9	61.2	64.4	68.4	78.5	85.1	95.5	115.0	129.2
37.5°	70.7	75.9	80.2	86.4	100.0	106.6	138.7	167.8	187.8	236.1	263.5
35°	103.6	117.9	113.0	140.7	174.9	218.0	264.8	334.6	389.9	455.4	515.8
32.5°	162.5	197.2	230.9	263.0	340.1	463.6	467.0	597.6	685.1	791.1	884.3
30°	257.1	380.1	534.8	586.0	802.9	1045.3	978.0	1178.4	1377.0	1495.1	1902.9
27.5°	507.3	784.5	1091.9	1482.5	1886.6	2303.3	2579.3	2675.9	3680.5	4419.3	5380.8
25°	868.1	1354.3	2213.1	2845.8	3555.3	4480.8	5015.4	5735.0	7410.8	9499.1	11121.1
22.5°	1383.3	2233.0	3367.6	4325.0	5388.6	6635.8	7763.8	9489.0	12094.9	14945.5	17370.4
20°	1960.9	3056.3	4494.0	5928.4	7322.5	8947.9	10910.4	14433.6	18460.0	22928.3	26967.8
17.5°	3026.4	4103.6	5944.7	7905.6	9886.5	11844.2	16160.0	21377.7	27680.8	34301.6	40182.2
15°	4549.0	6292.4	8118.6	10711.4	14008.5	17770.7	23236.4	32387.8	42177.2	52510.1	64828.5
12.5°	6536.0	9063.5	11802.9	14805.0	19275.3	26143.1	35210.0	46380.2	60392.4	75894.4	93423.0
10°	8563.7	12208.8	15981.5	20269.0	26160.8	35006.9	46716.2	60702.4	82738.8	104458.5	122752.7
7.5°	10212.4	14460.4	19220.3	24915.7	32595.0	43373.7	57843.7	78057.1	104336.7	130179.3	150645.2
5°	11759.2	16425.7	21380.9	27200.1	36458.1	49456.2	66882.3	92101.4	123540.5	151024.6	172954.8
2.5°	12881.2	17783.1	22909.5	28830.6	39385.6	53153.7	72285.6	103568.2	139754.6	167913.6	193059.0
0°	13377.8	17913.6	22817.4	28892.5	39481.8	55039.8	74159.3	108410.3	147259.8	177532.5	202791.1
-2.5°	12762.0	17165.5	22226.0	28161.0	38775.9	53721.5	73471.3	107865.0	146848.2	177549.5	202452.1
-5°	12110.5	16285.1	20982.7	26468.8	36148.1	50044.8	70195.1	103057.1	140465.6	171331.1	195623.4
-7.5°	11416.0	15236.8	19439.5	24361.6	32948.7	46321.5	65032.3	92767.9	127734.8	159161.2	182008.1
-10°	10622.0	14100.2	18519.9	23736.6	31212.1	42836.6	58310.3	80529.9	113281.0	142479.4	167563.9
-12.5°	10155.7	13865.8	18282.2	23073.9	29104.0	39348.2	53427.2	72380.9	94799.9	121922.2	144242.4
-15°	9556.5	13311.9	17691.8	22187.3	27769.1	35767.5	46883.5	60804.9	77863.8	96140.9	115952.3
-17.5°	8571.3	12324.5	15851.7	20070.9	25372.4	31691.8	39680.0	50484.1	61802.6	74752.8	86605.8
-20°	6948.9	9980.6	13316.3	17291.7	21849.2	26637.9	31972.4	39333.9	46513.8	55580.1	62858.5



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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°	4999.4	7562.0	10452.0	13737.5	17346.5	21446.3	25464.9	29349.7	34270.4	40009.3	45857.3
-25°	3256.0	5151.9	7654.4	10347.1	12867.6	16144.1	19031.2	21351.3	24669.4	27266.2	30810.2
-27.5°	2254.7	3486.9	5351.1	7496.6	9484.7	11581.9	13932.3	15516.3	18101.0	19505.8	21678.3
-30°	1649.8	2341.4	3682.1	5286.7	7018.9	8804.0	10481.9	12223.5	14021.5	15611.5	16817.2
-32.5°	1463.0	1734.7	2395.9	3550.8	4906.1	6403.0	7823.9	9342.1	10774.5	12007.0	13001.6
-35°	1336.2	1488.6	1696.3	2307.0	3115.8	4284.4	5402.2	6631.2	7781.7	8734.5	9533.0
-37.5°	1235.8	1357.8	1488.6	1622.6	2076.6	2588.0	3382.5	4236.7	4975.0	5818.5	6470.0
-40°	1121.7	1252.1	1356.8	1463.7	1584.1	1712.5	2142.5	2524.9	2942.0	3511.5	3976.8
-42.5°	1004.1	1117.6	1235.4	1335.0	1425.8	1521.7	1618.4	1704.1	1915.9	2166.9	2357.5
-45°	922.7	1002.9	1089.3	1194.9	1292.7	1375.7	1453.9	1528.8	1605.8	1676.8	1735.7
-47.5°	851.0	915.8	987.0	1059.5	1133.0	1218.5	1298.7	1374.8	1441.5	1502.0	1550.7
-50°	798.6	843.5	902.7	959.8	1022.7	1082.4	1135.6	1198.0	1266.3	1328.3	1377.9
-52.5°	772.1	811.3	845.3	886.3	943.1	993.0	1036.9	1086.3	1133.7	1177.2	1209.1
-55°	720.1	771.4	821.0	867.1	906.2	941.9	979.9	1028.4	1070.1	1106.0	1125.7
-57.5°	638.4	704.3	766.8	825.3	880.4	932.2	975.2	1013.7	1052.3	1089.0	1105.8
-60°	541.9	604.9	670.1	740.6	811.6	882.3	934.5	984.2	1031.1	1070.4	1091.2
-62.5°	438.3	495.6	554.0	617.4	685.0	751.2	808.1	867.4	928.1	980.5	1013.9
-65°	320.5	369.4	421.6	473.6	525.0	577.9	628.6	678.5	727.0	766.3	793.6
-67.5°	229.7	261.3	293.6	327.0	366.8	407.6	445.1	481.4	516.0	543.8	564.2
-70°	157.9	178.2	197.3	218.5	244.0	268.9	292.0	313.9	334.5	351.9	366.5
-72.5°	98.3	111.6	124.8	139.7	154.2	168.1	181.2	193.4	204.8	215.1	224.4
-75°	49.4	55.6	66.1	76.0	85.5	95.2	104.2	112.1	119.0	124.8	129.7
-77.5°	32.0	35.9	39.8	43.4	46.8	51.3	56.3	61.4	66.4	70.5	74.3
-80°	22.4	24.6	26.9	29.3	31.7	34.6	37.5	40.4	43.2	45.0	46.7
-82.5°	16.0	17.2	18.5	19.9	21.3	23.3	25.4	27.4	29.3	30.7	32.0
-85°	11.4	12.0	12.6	13.3	14.0	15.8	17.6	19.4	21.2	22.4	23.6
-87.5°	8.3	8.4	8.4	8.5	8.5	10.1	11.7	13.4	15.0	15.6	16.2
-90°	4.3	4.3	4.3	4.3	4.3	3.8	3.3	2.7	2.2	2.2	2.2



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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°	14.1	15.2	15.2	15.2	15.2	15.2	14.1	13.0	11.9	10.8	9.7
87.5°	2.2	2.2	1.1	0.0	1.1	2.2	2.2	2.2	2.2	2.2	2.7
85°	2.7	2.2	2.2	2.2	2.2	2.2	2.7	3.2	3.7	4.2	4.2
82.5°	2.7	2.2	2.2	2.2	2.2	2.2	2.7	3.3	3.8	4.3	4.3
80°	2.7	2.2	2.2	2.2	2.2	2.2	2.7	3.3	3.8	4.3	4.3
77.5°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.8	4.4	4.8
75°	4.2	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2	4.4	5.0
72.5°	6.4	6.4	6.5	6.5	6.5	6.4	6.4	6.3	6.1	6.2	7.0
70°	8.5	8.6	7.7	6.5	7.7	8.6	8.5	8.4	8.3	8.5	9.4
67.5°	10.6	10.7	11.8	13.0	11.8	10.7	10.6	10.5	10.3	10.6	11.6
65°	14.1	14.9	14.2	13.0	14.2	14.9	14.1	13.4	12.7	12.6	13.3
62.5°	12.5	13.0	12.1	10.8	12.1	13.0	12.5	12.0	11.6	12.1	13.0
60°	10.3	10.7	10.8	10.8	10.8	10.7	10.3	9.9	9.5	10.1	11.1
57.5°	10.0	10.6	10.8	10.8	10.8	10.6	10.0	9.4	8.8	9.3	9.9
55°	10.7	10.8	10.8	10.8	10.8	10.8	10.7	10.4	10.0	10.3	10.5
52.5°	14.5	14.9	15.1	15.2	15.1	14.9	14.5	14.0	13.4	13.1	12.8
50°	18.8	19.2	19.4	19.5	19.4	19.2	18.8	18.3	17.7	17.0	15.9
47.5°	25.7	25.8	25.9	26.0	25.9	25.8	25.7	25.2	24.4	23.4	21.8
45°	39.6	39.1	38.7	39.0	38.7	39.1	39.6	39.0	37.7	35.2	31.7
42.5°	64.4	64.5	64.4	65.0	64.4	64.5	64.4	62.7	61.0	56.8	51.4
40°	133.0	128.3	121.4	121.2	121.4	128.3	133.0	129.2	115.0	95.5	85.1
37.5°	277.0	281.8	281.2	285.8	281.2	281.8	277.0	263.5	236.1	187.8	167.8
35°	561.6	586.8	592.5	591.1	592.5	586.8	561.6	515.8	455.4	389.9	334.6
32.5°	925.0	958.5	967.9	980.8	967.9	958.5	925.0	884.3	791.1	685.1	597.6
30°	1626.3	1671.3	1628.5	1541.5	1628.5	1671.3	1626.3	1902.9	1495.1	1377.0	1178.4
27.5°	5892.9	6109.0	5622.7	5445.1	5622.7	6109.0	5892.9	5380.8	4419.3	3680.5	2675.9
25°	12009.7	12965.6	13945.4	13858.5	13945.4	12965.6	12009.7	11121.1	9499.1	7410.8	5735.0
22.5°	19382.1	20350.7	21158.0	21436.1	21158.0	20350.7	19382.1	17370.4	14945.5	12094.9	9489.0
20°	30699.6	32586.1	33936.9	32497.3	33936.9	32586.1	30699.6	26967.8	22928.3	18460.0	14433.6
17.5°	49071.5	54752.3	57703.3	59566.9	57703.3	54752.3	49071.5	40182.2	34301.6	27680.8	21377.7
15°	76175.0	84742.2	89488.4	92631.4	89488.4	84742.2	76175.0	64828.5	52510.1	42177.2	32387.8
12.5°	107432.1	116772.9	120967.8	124391.6	120967.8	116772.9	107432.1	93423.0	75894.4	60392.4	46380.2
10°	137146.2	147237.6	154224.4	157855.6	154224.4	147237.6	137146.2	122752.7	104458.5	82738.8	60702.4
7.5°	164371.5	176716.1	183806.0	186062.9	183806.0	176716.1	164371.5	150645.2	130179.3	104336.7	78057.1
5°	191001.4	202015.5	210542.0	212475.3	210542.0	202015.5	191001.4	172954.8	151024.6	123540.5	92101.4
2.5°	211505.3	224705.4	232360.5	234674.6	232360.5	224705.4	211505.3	193059.0	167913.6	139754.6	103568.2
0°	220901.6	233190.5	242254.4	245505.2	242254.4	233190.5	220901.6	202791.1	177532.5	147259.8	108410.3
-2.5°	218936.3	230261.1	236749.1	237867.0	236749.1	230261.1	218936.3	202452.1	177549.5	146848.2	107865.0
-5°	212024.0	222429.2	228837.3	229020.6	228837.3	222429.2	212024.0	195623.4	171331.1	140465.6	103057.1
-7.5°	196840.9	206570.9	211038.3	212160.3	211038.3	206570.9	196840.9	182008.1	159161.2	127734.8	92767.9
-10°	181387.3	190414.3	194635.9	195103.0	194635.9	190414.3	181387.3	167563.9	142479.4	113281.0	80529.9
-12.5°	161369.9	171028.9	175243.9	177226.2	175243.9	171028.9	161369.9	144242.4	121922.2	94799.9	72380.9
-15°	131581.9	140922.0	145978.8	149712.8	145978.8	140922.0	131581.9	115952.3	96140.9	77863.8	60804.9
-17.5°	99664.2	107669.8	112653.3	117189.5	112653.3	107669.8	99664.2	86605.8	74752.8	61802.6	50484.1
-20°	70956.7	76055.0	77621.0	80065.5	77621.0	76055.0	70956.7	62858.5	55580.1	46513.8	39333.9



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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°	49836.5	52735.3	54571.5	55609.2	54571.5	52735.3	49836.5	45857.3	40009.3	34270.4	29349.7
-25°	33785.6	35796.0	36577.9	37479.1	36577.9	35796.0	33785.6	30810.2	27266.2	24669.4	21351.3
-27.5°	22631.0	23456.5	24020.3	24326.4	24020.3	23456.5	22631.0	21678.3	19505.8	18101.0	15516.3
-30°	17787.7	18542.6	18995.2	19139.0	18995.2	18542.6	17787.7	16817.2	15611.5	14021.5	12223.5
-32.5°	13771.6	14342.2	14647.3	14687.7	14647.3	14342.2	13771.6	13001.6	12007.0	10774.5	9342.1
-35°	10202.4	10722.2	11009.9	10989.8	11009.9	10722.2	10202.4	9533.0	8734.5	7781.7	6631.2
-37.5°	7030.3	7470.9	7741.3	7811.5	7741.3	7470.9	7030.3	6470.0	5818.5	4975.0	4236.7
-40°	4398.1	4721.7	4914.9	4940.6	4914.9	4721.7	4398.1	3976.8	3511.5	2942.0	2524.9
-42.5°	2524.6	2655.7	2729.3	2725.8	2729.3	2655.7	2524.6	2357.5	2166.9	1915.9	1704.1
-45°	1774.3	1803.7	1820.3	1823.0	1820.3	1803.7	1774.3	1735.7	1676.8	1605.8	1528.8
-47.5°	1585.9	1613.7	1628.5	1630.3	1628.5	1613.7	1585.9	1550.7	1502.0	1441.5	1374.8
-50°	1417.6	1450.5	1468.4	1472.2	1468.4	1450.5	1417.6	1377.9	1328.3	1266.3	1198.0
-52.5°	1234.9	1256.6	1263.9	1260.1	1263.9	1256.6	1234.9	1209.1	1177.2	1133.7	1086.3
-55°	1144.1	1161.8	1169.5	1171.3	1169.5	1161.8	1144.1	1125.7	1106.0	1070.1	1028.4
-57.5°	1122.2	1138.0	1143.0	1143.1	1143.0	1138.0	1122.2	1105.8	1089.0	1052.3	1013.7
-60°	1111.7	1131.5	1135.3	1132.3	1135.3	1131.5	1111.7	1091.2	1070.4	1031.1	984.2
-62.5°	1043.6	1069.0	1077.0	1076.0	1077.0	1069.0	1043.6	1013.9	980.5	928.1	867.4
-65°	816.7	835.4	845.0	848.7	845.0	835.4	816.7	793.6	766.3	727.0	678.5
-67.5°	580.9	593.9	598.0	597.6	598.0	593.9	580.9	564.2	543.8	516.0	481.4
-70°	378.7	388.7	389.8	387.5	389.8	388.7	378.7	366.5	351.9	334.5	313.9
-72.5°	232.5	239.3	238.7	236.0	238.7	239.3	232.5	224.4	215.1	204.8	193.4
-75°	133.8	137.2	136.2	134.2	136.2	137.2	133.8	129.7	124.8	119.0	112.1
-77.5°	78.0	81.5	82.1	82.3	82.1	81.5	78.0	74.3	70.5	66.4	61.4
-80°	48.2	49.5	49.7	49.8	49.7	49.5	48.2	46.7	45.0	43.2	40.4
-82.5°	33.3	34.5	34.6	34.6	34.6	34.5	33.3	32.0	30.7	29.3	27.4
-85°	24.8	25.9	26.0	26.0	26.0	25.9	24.8	23.6	22.4	21.2	19.4
-87.5°	16.8	17.3	17.3	17.3	17.3	17.3	16.8	16.2	15.6	15.0	13.4
-90°	2.2	2.2	1.1	0.0	1.1	2.2	2.2	2.2	2.2	2.2	2.7



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	8.7	7.6	6.5	6.5	6.5	6.5	6.5	7.1	7.6	8.2	8.7
87.5°	3.3	3.8	4.3	4.3	4.3	4.3	4.3	4.9	5.4	6.0	6.5
85°	4.2	4.2	4.3	4.7	5.1	5.4	5.7	5.8	6.0	6.2	6.5
82.5°	4.3	4.3	4.3	4.9	5.4	6.0	6.5	6.5	6.5	6.5	6.6
80°	4.3	4.3	4.4	4.9	5.5	6.0	6.5	6.6	6.6	6.5	6.6
77.5°	5.1	5.4	5.5	5.6	5.8	6.2	6.6	7.2	7.5	7.7	7.7
75°	5.5	6.1	6.6	6.7	6.7	6.6	6.7	7.3	7.8	8.4	8.7
72.5°	7.5	8.0	8.2	8.3	8.1	8.2	8.5	8.9	9.1	8.9	8.7
70°	10.3	11.1	12.1	12.9	13.1	13.0	12.7	12.5	12.1	12.0	11.3
67.5°	12.4	13.3	15.2	17.4	18.8	19.5	19.2	18.0	17.1	16.5	14.7
65°	14.1	15.0	18.1	20.9	23.3	25.5	27.6	27.5	26.1	23.3	18.6
62.5°	14.0	15.0	17.2	19.9	23.4	29.0	35.6	38.0	37.8	32.9	25.9
60°	12.1	13.4	15.6	17.9	20.3	27.9	39.2	47.3	51.8	43.9	33.3
57.5°	10.5	11.5	13.6	16.0	18.7	27.3	39.4	53.8	62.9	51.4	40.6
55°	10.7	11.3	12.3	13.7	15.9	24.2	35.0	48.1	58.5	55.2	43.3
52.5°	12.8	12.9	12.9	12.8	14.8	20.3	28.1	40.0	46.3	45.4	41.6
50°	15.1	15.4	15.3	14.8	15.7	17.3	22.4	31.2	34.6	36.4	35.0
47.5°	21.1	20.8	19.3	18.5	19.0	18.9	20.6	23.1	27.9	28.4	28.9
45°	31.7	30.8	28.3	27.3	25.5	24.5	22.9	25.4	26.5	27.4	24.1
42.5°	49.6	46.3	43.1	41.4	38.0	34.6	31.9	32.5	32.0	30.7	29.8
40°	78.5	68.4	64.4	61.2	56.9	49.7	48.1	44.1	42.0	38.4	39.6
37.5°	138.7	106.6	100.0	86.4	80.2	75.9	70.7	63.5	55.3	58.7	58.2
35°	264.8	218.0	174.9	140.7	113.0	117.9	103.6	89.4	84.1	88.8	84.5
32.5°	467.0	463.6	340.1	263.0	230.9	197.2	162.5	126.4	139.5	136.4	120.3
30°	978.0	1045.3	802.9	586.0	534.8	380.1	257.1	236.1	225.6	199.8	166.7
27.5°	2579.3	2303.3	1886.6	1482.5	1091.9	784.5	507.3	375.0	337.0	290.7	236.9
25°	5015.4	4480.8	3555.3	2845.8	2213.1	1354.3	868.1	613.5	480.1	403.3	332.0
22.5°	7763.8	6635.8	5388.6	4325.0	3367.6	2233.0	1383.3	888.6	641.1	535.8	444.5
20°	10910.4	8947.9	7322.5	5928.4	4494.0	3056.3	1960.9	1328.6	908.5	683.8	559.3
17.5°	16160.0	11844.2	9886.5	7905.6	5944.7	4103.6	3026.4	2025.2	1197.7	838.3	673.3
15°	23236.4	17770.7	14008.5	10711.4	8118.6	6292.4	4549.0	2912.2	1606.9	1050.8	814.8
12.5°	35210.0	26143.1	19275.3	14805.0	11802.9	9063.5	6536.0	4226.2	2310.3	1328.7	987.3
10°	46716.2	35006.9	26160.8	20269.0	15981.5	12208.8	8563.7	5401.3	2947.5	1617.5	1152.8
7.5°	57843.7	43373.7	32595.0	24915.7	19220.3	14460.4	10212.4	6483.6	3502.8	1899.6	1310.6
5°	66882.3	49456.2	36458.1	27200.1	21380.9	16425.7	11759.2	7498.7	3970.1	2166.7	1459.4
2.5°	72285.6	53153.7	39385.6	28830.6	22909.5	17783.1	12881.2	8125.8	4188.5	2309.5	1542.6
0°	74159.3	55039.8	39481.8	28892.5	22817.4	17913.6	13377.8	8326.8	4230.5	2396.7	1615.1
-2.5°	73471.3	53721.5	38775.9	28161.0	22226.0	17165.5	12762.0	8363.1	4467.1	2486.8	1670.2
-5°	70195.1	50044.8	36148.1	26468.8	20982.7	16285.1	12110.5	8187.3	4574.8	2528.9	1713.1
-7.5°	65032.3	46321.5	32948.7	24361.6	19439.5	15236.8	11416.0	7827.5	4519.3	2499.6	1720.2
-10°	58310.3	42836.6	31212.1	23736.6	18519.9	14100.2	10622.0	7322.2	4289.3	2415.2	1714.0
-12.5°	53427.2	39348.2	29104.0	23073.9	18282.2	13865.8	10155.7	6730.9	3864.5	2271.4	1694.3
-15°	46883.5	35767.5	27769.1	22187.3	17691.8	13311.9	9556.5	6000.7	3205.9	2047.3	1660.9
-17.5°	39680.0	31691.8	25372.4	20070.9	15851.7	12324.5	8571.3	5158.9	2731.5	1815.5	1573.7
-20°	31972.4	26637.9	21849.2	17291.7	13316.3	9980.6	6948.9	4026.5	2322.8	1696.2	1475.7





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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°	25464.9	21446.3	17346.5	13737.5	10452.0	7562.0	4999.4	2822.1	1815.0	1565.0	1362.9
-25°	19031.2	16144.1	12867.6	10347.1	7654.4	5151.9	3256.0	2159.5	1629.4	1428.1	1236.8
-27.5°	13932.3	11581.9	9484.7	7496.6	5351.1	3486.9	2254.7	1629.4	1461.4	1289.3	1111.9
-30°	10481.9	8804.0	7018.9	5286.7	3682.1	2341.4	1649.8	1452.8	1313.5	1162.4	1004.9
-32.5°	7823.9	6403.0	4906.1	3550.8	2395.9	1734.7	1463.0	1294.1	1182.1	1050.8	929.7
-35°	5402.2	4284.4	3115.8	2307.0	1696.3	1488.6	1336.2	1200.0	1065.9	952.1	863.2
-37.5°	3382.5	2588.0	2076.6	1622.6	1488.6	1357.8	1235.8	1100.2	966.1	881.8	805.1
-40°	2142.5	1712.5	1584.1	1463.7	1356.8	1252.1	1121.7	991.9	902.3	818.1	751.0
-42.5°	1618.4	1521.7	1425.8	1335.0	1235.4	1117.6	1004.1	919.4	839.6	767.1	709.8
-45°	1453.9	1375.7	1292.7	1194.9	1089.3	1002.9	922.7	850.4	781.5	728.1	673.1
-47.5°	1298.7	1218.5	1133.0	1059.5	987.0	915.8	851.0	786.8	744.6	694.7	624.8
-50°	1135.6	1082.4	1022.7	959.8	902.7	843.5	798.6	757.6	708.5	645.6	571.5
-52.5°	1036.9	993.0	943.1	886.3	845.3	811.3	772.1	717.0	659.6	584.8	504.5
-55°	979.9	941.9	906.2	867.1	821.0	771.4	720.1	658.7	585.2	510.0	437.0
-57.5°	975.2	932.2	880.4	825.3	766.8	704.3	638.4	571.1	503.1	434.9	367.8
-60°	934.5	882.3	811.6	740.6	670.1	604.9	541.9	479.6	418.3	357.1	297.3
-62.5°	808.1	751.2	685.0	617.4	554.0	495.6	438.3	381.0	327.6	276.8	228.6
-65°	628.6	577.9	525.0	473.6	421.6	369.4	320.5	280.0	242.5	203.1	162.9
-67.5°	445.1	407.6	366.8	327.0	293.6	261.3	229.7	196.8	169.9	146.9	123.6
-70°	292.0	268.9	244.0	218.5	197.3	178.2	157.9	137.7	118.5	101.1	83.0
-72.5°	181.2	168.1	154.2	139.7	124.8	111.6	98.3	84.4	70.3	55.9	45.3
-75°	104.2	95.2	85.5	76.0	66.1	55.6	49.4	45.0	40.7	36.4	31.9
-77.5°	56.3	51.3	46.8	43.4	39.8	35.9	32.0	29.1	27.3	25.6	23.8
-80°	37.5	34.6	31.7	29.3	26.9	24.6	22.4	21.2	20.1	19.1	18.3
-82.5°	25.4	23.3	21.3	19.9	18.5	17.2	16.0	15.5	14.9	14.4	13.8
-85°	17.6	15.8	14.0	13.3	12.6	12.0	11.4	11.2	11.0	10.7	10.5
-87.5°	11.7	10.1	8.5	8.5	8.4	8.4	8.3	8.4	8.4	8.6	8.7
-90°	3.3	3.8	4.3	4.3	4.3	4.3	4.3	4.9	5.4	6.0	6.5





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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°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
87.5°	6.5	6.5	6.5	6.5	7.1	7.6	8.2	8.7	8.7	8.7	8.7
85°	6.7	6.8	6.9	6.8	7.2	7.6	8.2	8.7	8.7	8.7	8.7
82.5°	7.1	7.6	7.9	8.1	8.1	8.2	8.4	8.7	8.8	8.7	8.7
80°	7.1	7.7	8.2	8.7	8.7	8.7	8.6	8.7	9.0	9.1	9.0
77.5°	7.7	7.9	8.3	8.7	8.7	8.7	8.7	8.8	9.3	9.5	9.5
75°	8.7	8.6	8.6	8.8	8.8	8.7	8.7	8.9	9.4	9.9	10.0
72.5°	8.7	8.7	8.7	9.0	9.3	9.3	9.0	8.9	9.4	9.9	10.4
70°	10.2	9.0	8.7	9.0	9.6	10.0	9.9	9.6	9.5	10.0	10.5
67.5°	13.0	11.7	10.4	9.4	9.6	10.2	10.7	10.3	10.0	10.1	10.5
65°	16.4	14.5	12.8	11.2	10.3	10.2	10.7	10.8	10.5	10.3	10.6
62.5°	20.6	17.2	15.1	12.9	11.3	10.7	10.8	10.8	10.8	10.6	10.7
60°	25.3	20.3	17.4	15.1	12.7	11.0	10.8	10.8	10.8	10.8	10.8
57.5°	30.3	22.6	19.4	17.0	14.6	12.0	10.8	10.8	10.8	10.8	10.8
55°	33.5	25.5	21.4	18.4	16.2	13.8	11.4	10.8	10.8	10.8	10.8
52.5°	33.1	27.5	23.5	19.8	17.2	15.3	12.8	10.8	10.8	10.8	10.8
50°	29.9	28.2	24.9	21.0	18.0	16.0	14.1	11.8	10.8	10.8	10.8
47.5°	28.7	28.6	25.8	21.9	18.5	16.7	14.9	12.8	10.8	10.8	10.8
45°	28.1	29.5	27.0	22.9	19.2	17.3	15.5	13.6	11.5	10.9	10.8
42.5°	28.8	31.0	29.4	24.1	21.1	17.9	16.0	14.1	12.1	11.0	10.9
40°	36.8	33.3	32.6	29.5	23.7	18.5	16.5	14.6	12.6	11.4	11.1
37.5°	47.5	40.8	36.0	39.4	28.7	21.5	17.0	15.0	13.3	12.0	11.3
35°	70.3	52.5	49.7	52.5	40.8	24.8	17.4	15.4	14.0	12.6	11.5
32.5°	99.0	78.7	75.1	68.2	56.1	28.6	19.5	16.4	14.7	13.2	11.8
30°	140.9	126.8	107.3	87.2	73.6	42.5	23.5	17.8	15.3	13.8	12.2
27.5°	204.7	180.3	147.1	116.5	91.9	59.5	28.7	19.5	15.9	14.3	12.7
25°	278.3	240.8	197.8	152.3	112.3	82.6	34.3	21.6	17.0	14.9	13.1
22.5°	368.1	305.7	251.9	191.8	143.1	108.9	46.6	26.1	18.5	15.3	13.6
20°	461.7	373.9	310.1	235.9	180.1	134.8	66.8	30.7	20.2	15.8	14.0
17.5°	559.1	460.7	380.1	288.0	218.1	162.7	88.2	35.4	21.9	16.2	14.4
15°	690.5	571.6	456.7	343.2	254.2	192.0	110.5	40.0	23.7	16.6	14.8
12.5°	829.2	687.4	537.8	400.3	288.6	222.1	133.1	44.5	25.6	17.8	15.2
10°	966.7	805.7	621.4	458.0	321.1	252.3	155.2	50.8	29.8	19.7	15.7
7.5°	1101.7	924.1	705.6	514.8	355.8	291.8	191.8	61.1	34.4	21.8	16.1
5°	1223.7	1029.6	788.7	584.3	411.2	340.2	230.3	71.4	39.0	23.9	16.5
2.5°	1301.2	1111.6	866.5	651.0	465.3	386.8	267.2	81.4	43.4	26.1	16.9
0°	1370.5	1184.3	937.5	712.3	517.4	430.8	300.9	90.9	47.6	28.1	17.3
-2.5°	1414.4	1227.0	976.3	761.0	571.3	479.1	341.7	117.6	63.1	36.3	20.7
-5°	1451.2	1260.3	1008.8	804.3	622.7	523.9	376.8	142.8	77.8	44.0	23.9
-7.5°	1464.6	1267.0	1025.6	838.6	671.3	564.8	405.1	165.8	91.4	51.2	26.9
-10°	1464.7	1252.9	1020.2	838.0	683.0	582.0	422.2	185.9	103.6	57.5	29.5
-12.5°	1454.3	1229.2	1009.7	831.7	685.2	577.3	409.9	199.2	113.9	62.7	31.8
-15°	1432.7	1195.9	994.8	819.6	683.8	569.6	394.5	208.0	121.8	67.1	33.5
-17.5°	1388.7	1153.1	975.9	801.5	678.6	558.9	377.0	213.8	127.6	70.7	35.4
-20°	1285.2	1091.3	952.7	777.6	669.4	545.6	357.9	216.5	131.3	72.8	37.1



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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°	1176.3	1020.2	893.7	762.0	654.1	529.6	338.0	216.0	132.4	73.3	38.3
-25°	1064.4	947.6	829.9	726.0	632.2	499.7	326.4	212.1	131.0	72.0	38.7
-27.5°	974.3	875.1	768.4	689.9	596.3	470.8	320.3	210.0	128.0	68.9	38.4
-30°	893.3	807.8	723.7	652.6	559.7	429.8	309.9	204.5	124.3	66.9	37.3
-32.5°	830.0	745.5	684.2	611.0	514.7	388.2	287.6	195.3	118.0	65.5	36.4
-35°	779.4	703.4	645.3	569.5	466.2	355.4	260.2	182.4	109.1	62.9	35.1
-37.5°	729.7	671.3	600.6	523.1	417.9	319.7	234.7	162.4	97.5	59.2	33.0
-40°	694.6	633.9	560.7	470.9	374.2	281.3	207.3	143.0	89.9	54.4	30.2
-42.5°	657.8	588.8	509.9	419.8	329.4	248.9	178.8	122.5	81.4	49.7	26.6
-45°	607.5	537.2	454.1	369.1	283.6	214.8	155.2	102.6	71.8	44.7	23.5
-47.5°	552.4	476.2	398.2	317.4	244.6	181.3	130.6	91.2	61.7	38.6	21.8
-50°	486.7	415.4	342.4	271.9	205.0	153.5	108.1	79.1	53.1	31.1	19.8
-52.5°	426.5	356.1	290.4	227.1	172.1	124.8	93.7	66.4	43.8	26.4	17.4
-55°	365.4	299.6	240.0	186.3	138.8	105.3	78.6	54.9	33.8	22.9	14.9
-57.5°	304.2	243.8	192.9	146.3	113.2	87.7	63.9	42.7	27.8	19.0	14.5
-60°	241.5	191.5	145.7	117.2	93.0	70.0	49.2	32.1	22.8	15.6	14.1
-62.5°	182.1	141.7	116.9	94.3	72.4	52.2	35.1	25.7	17.4	15.0	13.6
-65°	136.7	112.7	91.0	70.3	51.1	36.2	27.2	19.0	15.8	14.4	13.2
-67.5°	101.8	81.7	63.0	45.3	35.4	27.3	19.1	16.4	15.1	13.8	13.2
-70°	65.5	49.0	39.9	33.0	25.7	19.3	17.1	15.6	14.4	13.6	13.1
-72.5°	39.9	34.3	28.6	22.8	20.0	17.7	16.0	14.8	13.9	13.3	13.0
-75°	27.1	24.3	21.9	19.6	17.6	16.0	14.9	14.0	13.4	13.0	12.5
-77.5°	21.7	19.7	17.9	16.6	15.4	14.5	13.8	13.2	12.8	12.3	11.9
-80°	17.1	16.0	15.0	14.2	13.5	13.0	12.6	12.3	12.0	11.6	11.2
-82.5°	13.1	12.8	12.5	12.4	12.1	11.9	11.6	11.4	11.1	10.9	10.6
-85°	10.6	10.7	10.9	11.1	11.0	10.8	10.6	10.5	10.3	10.1	10.0
-87.5°	9.1	9.4	9.7	9.9	9.8	9.7	9.7	9.6	9.5	9.4	9.3
-90°	6.5	6.5	6.5	6.5	7.1	7.6	8.2	8.7	8.7	8.7	8.7



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	8.7	8.7	8.7	8.7	8.7	8.7	8.7
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7
85°	8.7	8.7	8.7	8.7	8.7	8.7	8.7
82.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7
80°	8.8	8.7	8.7	8.7	8.7	8.7	8.7
77.5°	9.3	8.9	8.7	8.7	8.7	8.7	8.7
75°	9.8	9.3	8.8	8.7	8.7	8.7	8.7
72.5°	10.3	9.7	9.1	8.7	8.7	8.7	8.7
70°	10.8	10.2	9.5	8.7	8.7	8.7	8.7
67.5°	10.8	10.6	9.8	9.0	8.7	8.7	8.7
65°	10.8	10.8	10.1	9.3	8.7	8.7	8.7
62.5°	10.8	10.8	10.5	9.5	8.7	8.7	8.7
60°	10.8	10.8	10.8	9.7	8.7	8.7	8.7
57.5°	10.8	10.8	10.8	10.0	8.9	8.7	8.7
55°	10.8	10.8	10.8	10.2	9.0	8.7	8.7
52.5°	10.8	10.8	10.8	10.4	9.2	8.7	8.7
50°	10.8	10.8	10.8	10.6	9.3	8.7	8.7
47.5°	10.8	10.8	10.8	10.8	9.4	8.7	8.7
45°	10.8	10.8	10.8	10.8	9.6	8.7	8.7
42.5°	10.8	10.8	10.8	10.8	9.7	8.7	8.7
40°	10.8	10.8	10.8	10.8	9.8	8.7	8.7
37.5°	10.8	10.8	10.8	10.8	9.9	8.7	8.7
35°	10.8	10.8	10.8	10.8	10.0	8.7	8.7
32.5°	10.9	10.8	10.8	10.8	10.1	8.7	8.7
30°	11.1	10.8	10.8	10.8	10.2	8.7	8.7
27.5°	11.3	10.8	10.8	10.8	10.3	8.7	8.7
25°	11.6	10.8	10.8	10.8	10.4	8.7	8.7
22.5°	11.9	10.8	10.8	10.8	10.5	8.7	8.7
20°	12.2	11.0	10.8	10.8	10.5	8.7	8.7
17.5°	12.4	11.2	10.8	10.8	10.6	8.7	8.7
15°	12.6	11.4	10.8	10.8	10.7	8.7	8.7
12.5°	12.8	11.7	10.8	10.8	10.7	8.7	8.7
10°	12.9	11.9	10.8	10.8	10.7	8.7	8.7
7.5°	13.0	12.2	10.8	10.8	10.8	8.7	8.7
5°	13.0	12.5	10.8	10.8	10.8	8.7	8.7
2.5°	13.0	12.7	10.8	10.8	10.8	8.7	8.7
0°	13.0	13.0	10.8	10.8	10.8	8.7	8.7
-2.5°	14.2	13.0	10.8	10.8	10.8	8.7	8.7
-5°	15.3	13.0	10.8	10.8	10.8	8.7	8.7
-7.5°	16.3	12.9	10.8	10.8	10.8	8.7	8.7
-10°	17.2	12.8	10.8	10.8	10.7	8.7	8.7
-12.5°	17.9	12.7	10.8	10.8	10.7	8.7	8.7
-15°	18.5	12.6	10.8	10.8	10.7	8.7	8.7
-17.5°	18.7	12.5	10.8	10.8	10.6	8.7	8.7
-20°	19.2	12.3	10.8	10.8	10.5	8.7	8.7



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	19.9	12.2	10.8	10.8	10.5	8.7	8.7
-25°	20.3	12.3	10.8	10.8	10.4	8.7	8.7
-27.5°	20.2	12.5	10.8	10.8	10.3	8.7	8.7
-30°	19.6	12.5	10.8	10.8	10.2	8.7	8.7
-32.5°	18.5	12.4	10.9	10.8	10.1	8.7	8.7
-35°	18.0	12.2	11.0	10.8	10.0	8.7	8.7
-37.5°	17.7	12.0	11.1	10.8	9.9	8.7	8.7
-40°	17.1	12.0	11.1	10.8	9.8	8.7	8.7
-42.5°	16.2	12.1	11.2	10.8	9.7	8.7	8.7
-45°	15.1	12.1	11.3	10.9	9.6	8.7	8.7
-47.5°	13.8	12.1	11.3	10.9	9.4	8.7	8.7
-50°	13.5	12.0	11.4	10.8	9.3	8.7	8.7
-52.5°	13.3	11.9	11.5	10.6	9.2	8.7	8.7
-55°	13.1	12.0	11.5	10.5	9.0	8.7	8.7
-57.5°	12.8	12.0	11.6	10.3	8.9	8.7	8.7
-60°	12.6	12.1	11.6	10.1	8.7	8.7	8.7
-62.5°	12.6	12.1	11.3	9.9	8.7	8.7	8.7
-65°	12.7	12.2	11.0	9.6	8.7	8.7	8.7
-67.5°	12.8	12.0	10.7	9.4	8.7	8.7	8.7
-70°	12.8	11.6	10.4	9.2	8.7	8.7	8.7
-72.5°	12.4	11.2	10.1	9.1	8.7	8.7	8.7
-75°	11.9	10.8	9.7	9.1	8.7	8.7	8.7
-77.5°	11.4	10.4	9.6	9.0	8.7	8.7	8.7
-80°	10.8	10.0	9.4	9.0	8.7	8.7	8.7
-82.5°	10.3	9.7	9.2	8.9	8.7	8.7	8.7
-85°	9.8	9.4	9.1	8.8	8.7	8.7	8.7
-87.5°	9.2	9.0	8.9	8.8	8.7	8.7	8.7
-90°	8.7	8.7	8.7	8.7	8.7	8.7	8.7

(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

