

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: P701319 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-70-2S-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701319 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-40-70-2S-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

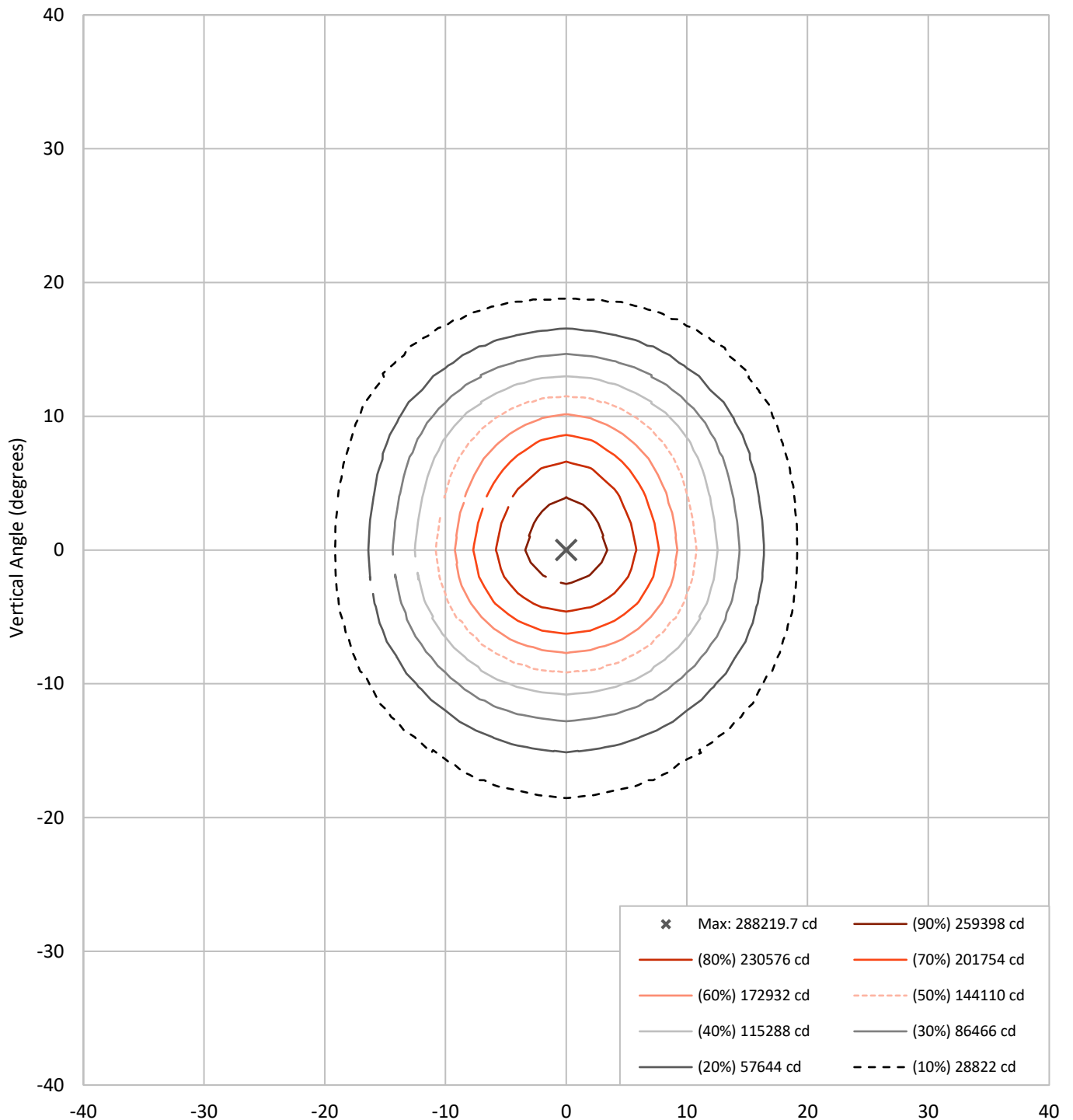
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	46605.4 lumens	Max Intensity:	288219.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	134.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.6°H x 20.7°V	Field Angle (10%):	38.3°H x 37.3°V
Beam Lumens:	21641.4 lumens	Field Lumens:	39399.2 lumens
Beam Efficiency:	46.4%	Field Efficiency:	84.5%

Input Watts (W): 346.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Candela Plot





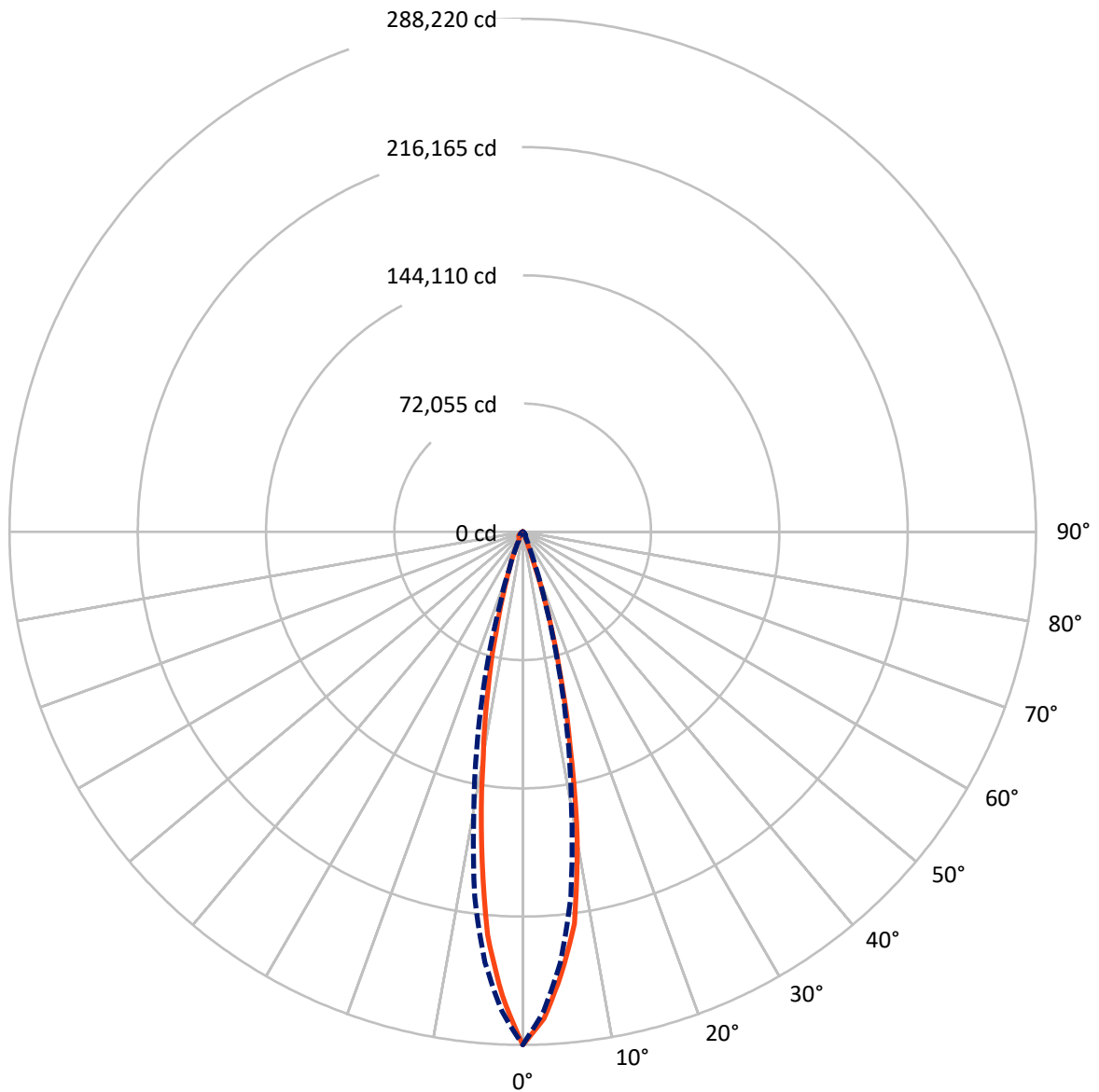
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### Lumen Table

90	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1							
80	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1							
70	0.1	0.0	0.1	0.4	0.4	0.3	0.2	0.1	0.1	0.2	0.3	0.4	0.4	0.1	0.0	0.1	
60		0.1	0.2	0.4	0.3	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.4	0.2	0.1		
50	0.1	0.1	0.3	0.3	0.4	0.6	1.1	0.7	0.7	1.1	0.6	0.4	0.3	0.3	0.1	0.1	
40		0.2	0.6	1.6	3.1	4.5	6.2	7.5	7.5	6.2	4.5	3.1	1.6	0.6	0.2		
30	0.2	0.3	3.0	9.4	22.3	33.8	58.6	111.0	111.0	58.6	33.8	22.3	9.4	3.0	0.3	0.2	
20		0.9	6.3	24.9	57.1	106.7	697.3	2160.7	2160.7	697.3	106.7	57.1	24.9	6.3	0.9		
10	0.2	1.4	8.1	33.4	67.8	213.9	2049.4	6142.1	6142.1	2049.4	213.9	67.8	33.4	8.1	1.4	0.2	
0		1.7	8.7	33.5	67.7	203.9	1927.5	5586.2	5586.2	1927.5	203.9	67.7	33.5	8.7	1.7		
-10	0.4	2.0	8.3	26.8	57.2	99.2	567.0	1641.8	1641.8	567.0	99.2	57.2	26.8	8.3	2.0	0.4	
-20		2.0	7.8	19.0	51.3	76.5	116.3	224.8	224.8	116.3	76.5	51.3	19.0	7.8	2.0		
-30	0.3	1.8	6.8	14.3	35.8	74.3	96.5	107.9	107.9	96.5	74.3	35.8	14.3	6.8	1.8	0.3	
-40		1.3	5.0	11.8	21.1	35.8	61.2	81.6	81.6	61.2	35.8	21.1	11.8	5.0	1.3		
-50	0.2	0.6	3.0	7.8	15.1	22.8	29.7	33.6	33.6	29.7	22.8	15.1	7.8	3.0	0.6	0.2	
-60		0.3	1.0	3.2	6.6	10.6	14.6	16.9	16.9	14.6	10.6	6.6	3.2	1.0	0.3		
-70	0.1	0.6	3.0	7.8	15.1	22.8	29.7	33.6	33.6	29.7	22.8	15.1	7.8	3.0	0.6	0.1	
-80		0.3	1.0	3.2	6.6	10.6	14.6	16.9	16.9	14.6	10.6	6.6	3.2	1.0	0.3		
-90	0.1	0.8	2.3	5.2	7.0	5.2	2.3	0.8	0.1								

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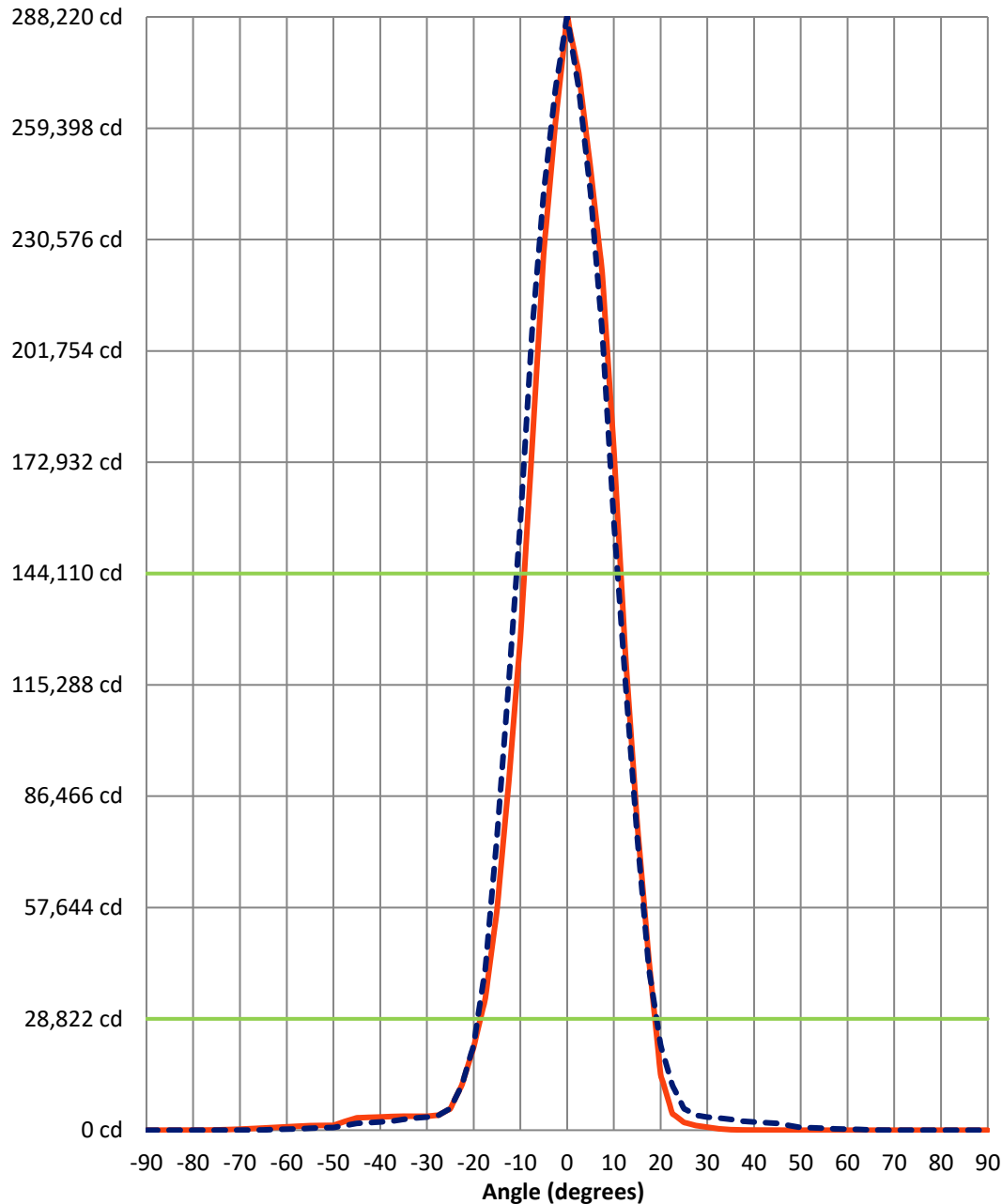
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 21.6°  
 V Angle: 20.7°  
 Lumens: 21641.4  
 Efficiency: 46.4%

**Field:**  
 H Angle: 38.3°  
 V Angle: 37.3°  
 Lumens: 39399.2  
 Efficiency: 84.5%

**Spill:**  
 Lumens: 7206.2  
 Efficiency: 15.5%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	3.4	4.0	4.6	4.9	5.2	5.4	5.7	6.0	6.3	6.5	6.8
87.5°	3.4	3.4	3.4	3.2	2.9	2.8	2.6	2.5	2.5	2.4	2.3
85°	3.4	3.5	3.4	3.2	3.0	2.9	2.9	2.8	2.7	2.5	2.3
82.5°	3.4	3.5	3.4	3.2	3.1	3.1	3.2	3.1	2.9	2.7	2.6
80°	3.4	3.5	3.4	3.3	3.2	3.3	3.4	3.2	3.1	3.0	3.1
77.5°	3.4	3.5	3.4	3.3	3.3	3.4	3.4	3.3	3.2	3.3	3.4
75°	3.4	3.6	3.4	3.3	3.4	3.5	3.4	3.4	3.4	3.4	3.4
72.5°	3.4	3.6	3.4	3.4	3.5	3.6	3.5	3.4	3.4	3.4	3.4
70°	3.4	3.6	3.4	3.4	3.6	3.7	3.5	3.4	3.4	3.4	3.5
67.5°	3.4	3.6	3.5	3.5	3.8	3.8	3.5	3.4	3.4	3.6	3.5
65°	3.4	3.7	3.5	3.7	3.9	3.8	3.6	3.4	3.7	3.8	3.7
62.5°	3.4	3.7	3.5	3.8	4.0	3.9	3.6	3.6	3.9	4.0	3.7
60°	3.4	3.7	3.6	3.9	4.2	3.9	3.6	3.9	4.2	4.0	3.8
57.5°	3.4	3.8	3.7	4.0	4.2	3.9	3.9	4.3	4.4	4.1	4.1
55°	3.4	3.8	3.8	4.2	4.2	4.0	4.2	4.6	4.4	4.2	4.6
52.5°	3.4	3.8	3.9	4.3	4.2	4.0	4.5	4.7	4.5	4.7	5.1
50°	3.4	3.9	3.9	4.4	4.3	4.3	4.8	4.8	4.6	5.1	6.2
47.5°	3.4	3.9	4.0	4.5	4.3	4.5	5.0	4.8	5.0	5.5	7.3
45°	3.4	3.9	4.1	4.6	4.3	4.7	5.1	4.9	5.4	6.3	8.2
42.5°	3.4	4.0	4.2	4.6	4.4	4.9	5.1	5.1	5.8	7.0	9.5
40°	3.4	4.0	4.2	4.6	4.5	5.2	5.2	5.5	6.3	7.6	10.7
37.5°	3.4	4.1	4.3	4.6	4.7	5.4	5.2	5.9	7.0	8.5	11.9
35°	3.4	4.1	4.4	4.7	4.8	5.5	5.3	6.3	7.6	9.9	13.0
32.5°	3.4	4.1	4.4	4.7	5.0	5.5	5.4	6.7	8.2	11.3	14.3
30°	3.4	4.2	4.4	4.8	5.1	5.6	5.8	7.2	8.8	12.7	15.8
27.5°	3.4	4.2	4.5	4.8	5.2	5.6	6.1	7.7	9.6	14.1	17.4
25°	3.4	4.3	4.5	4.9	5.3	5.7	6.4	8.2	10.8	15.5	19.2
22.5°	3.4	4.3	4.5	5.0	5.4	5.7	6.8	8.6	11.9	16.8	22.3
20°	3.4	4.3	4.6	5.0	5.5	5.8	7.1	9.0	13.0	18.2	25.8
17.5°	3.4	4.4	4.6	5.1	5.6	5.9	7.4	9.4	14.0	19.6	29.6
15°	3.4	4.4	4.6	5.2	5.6	6.0	7.7	9.8	15.0	21.0	33.6
12.5°	3.4	4.4	4.6	5.3	5.7	6.1	8.0	10.1	15.9	22.4	37.8
10°	3.4	4.5	4.6	5.4	5.7	6.3	8.3	10.5	16.6	24.1	42.0
7.5°	3.4	4.5	4.6	5.5	5.7	6.4	8.5	10.7	17.2	25.9	46.3
5°	3.4	4.5	4.6	5.5	5.7	6.5	8.8	11.0	17.6	27.6	50.3
2.5°	3.4	4.6	4.6	5.6	5.7	6.7	8.9	11.2	18.0	29.3	53.9
0°	3.4	4.6	4.6	5.7	5.7	6.8	9.1	11.4	18.3	30.8	57.1
-2.5°	3.4	4.6	4.6	5.8	5.9	7.2	10.0	14.1	23.8	40.6	71.2
-5°	3.4	4.6	4.7	5.8	6.1	7.5	10.9	16.6	29.1	49.9	84.4
-7.5°	3.4	4.7	4.7	5.9	6.3	7.9	11.7	19.0	34.0	58.6	96.7
-10°	3.4	4.7	4.8	5.9	6.5	8.2	12.4	21.2	38.4	66.4	107.8
-12.5°	3.4	4.7	4.8	6.0	6.7	8.5	13.0	23.0	42.2	73.1	117.3
-15°	3.4	4.7	4.9	6.0	6.8	8.8	13.5	24.5	45.9	78.9	124.9
-17.5°	3.4	4.7	4.9	6.0	7.0	9.0	13.9	26.1	49.6	83.7	130.7
-20°	3.4	4.7	5.0	6.1	7.1	9.2	14.4	27.8	52.4	87.4	134.5



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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°	3.4	4.7	5.0	6.1	7.2	9.3	14.9	28.8	54.2	90.1	136.1
-25°	3.4	4.7	5.1	6.1	7.3	9.5	15.1	29.1	54.9	91.6	135.3
-27.5°	3.4	4.7	5.1	6.1	7.3	9.6	15.0	28.6	54.4	92.1	136.4
-30°	3.4	4.7	5.2	6.1	7.4	9.6	14.5	27.2	53.5	91.4	136.1
-32.5°	3.4	4.7	5.2	6.1	7.4	9.6	13.7	26.4	52.0	89.2	134.3
-35°	3.4	4.7	5.2	6.1	7.5	9.5	13.3	25.4	49.2	85.2	130.9
-37.5°	3.4	4.7	5.3	6.0	7.5	9.5	13.2	23.8	45.2	79.6	122.8
-40°	3.4	4.7	5.3	6.0	7.6	9.5	13.0	21.7	40.0	73.5	112.8
-42.5°	3.4	4.7	5.3	6.0	7.5	9.5	12.6	18.9	35.8	65.2	101.2
-45°	3.4	4.6	5.4	5.9	7.5	9.4	12.2	16.8	31.9	55.5	88.3
-47.5°	3.4	4.6	5.4	5.9	7.5	9.4	11.6	16.1	27.3	45.0	76.3
-50°	3.4	4.6	5.4	5.9	7.4	9.3	11.4	15.3	21.7	38.5	62.9
-52.5°	3.4	4.6	5.5	6.0	7.3	9.1	11.3	14.3	19.0	31.4	49.1
-55°	3.4	4.6	5.5	6.0	7.2	9.0	11.0	13.3	17.6	23.8	40.3
-57.5°	3.4	4.5	5.5	6.0	7.1	8.8	10.8	13.0	16.1	20.6	30.8
-60°	3.4	4.5	5.6	6.0	6.9	8.6	10.5	12.6	14.7	18.7	23.3
-62.5°	3.4	4.5	5.5	6.0	6.9	8.3	10.1	12.1	14.1	16.6	20.8
-65°	3.4	4.4	5.4	6.0	6.8	8.0	9.7	11.5	13.4	15.4	18.2
-67.5°	3.4	4.4	5.4	6.0	6.7	7.8	9.3	11.0	12.6	14.5	16.6
-70°	3.4	4.4	5.3	5.9	6.6	7.5	8.9	10.3	11.9	13.6	15.4
-72.5°	3.4	4.3	5.2	5.8	6.4	7.2	8.4	9.7	11.0	12.6	14.2
-75°	3.4	4.3	5.1	5.7	6.2	6.9	7.9	9.1	10.2	11.5	12.9
-77.5°	3.4	4.2	5.0	5.6	6.1	6.6	7.4	8.4	9.5	10.5	11.6
-80°	3.4	4.2	5.0	5.4	5.9	6.4	6.8	7.8	8.7	9.7	10.6
-82.5°	3.4	4.1	4.9	5.3	5.7	6.1	6.5	7.2	8.0	8.8	9.7
-85°	3.4	4.1	4.8	5.2	5.5	5.9	6.3	6.8	7.4	8.0	8.7
-87.5°	3.4	4.0	4.7	5.0	5.3	5.7	6.0	6.4	6.8	7.3	7.8
-90°	3.4	3.4	3.4	3.1	2.9	2.6	2.3	2.3	2.3	2.3	2.3





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.8	6.8	6.8	6.8	7.1	7.4	7.7	8.0	8.3	8.6	8.8
87.5°	2.1	2.0	1.9	1.8	1.6	1.5	1.3	1.1	1.1	1.1	1.1
85°	2.3	2.3	2.3	2.3	2.0	1.7	1.4	1.1	1.1	1.1	1.1
82.5°	2.6	2.6	2.5	2.3	2.0	1.7	1.4	1.3	1.3	1.3	1.2
80°	3.0	2.9	2.6	2.3	2.2	2.1	2.0	2.1	2.0	1.8	1.6
77.5°	3.2	2.9	2.6	2.4	2.3	2.5	2.7	2.9	2.8	2.7	2.6
75°	3.2	2.9	2.8	2.8	3.0	3.2	3.4	3.4	3.3	3.2	3.2
72.5°	3.3	3.2	3.2	3.4	3.4	3.4	3.4	3.4	4.3	5.6	6.5
70°	3.4	3.4	3.4	3.4	3.4	3.7	5.3	7.6	9.9	11.2	12.3
67.5°	3.4	3.4	3.4	3.5	4.4	6.1	8.7	13.6	18.8	20.1	19.9
65°	3.4	3.4	3.8	4.6	5.6	9.8	15.2	21.3	25.9	25.3	23.6
62.5°	3.4	3.9	4.7	6.3	9.7	14.8	19.6	24.1	28.5	27.7	23.8
60°	3.9	4.5	6.4	9.7	13.5	17.1	21.7	24.6	27.5	28.2	21.5
57.5°	4.4	5.8	9.0	12.5	15.7	18.3	20.1	22.6	23.5	22.9	16.7
55°	5.4	7.7	11.1	14.5	16.7	16.0	17.1	17.9	17.5	16.2	11.9
52.5°	7.0	9.5	12.9	15.7	15.9	14.4	13.5	13.6	12.6	10.7	9.3
50°	8.4	11.3	14.4	16.0	15.2	12.9	10.8	10.4	9.7	8.8	8.0
47.5°	9.9	13.0	15.5	16.3	14.1	12.0	9.9	9.2	8.7	9.0	8.5
45°	11.4	14.4	16.8	15.4	13.5	11.8	11.0	9.1	10.3	11.0	11.4
42.5°	12.9	15.5	16.5	14.7	13.6	13.6	13.4	13.0	13.7	16.5	18.1
40°	14.0	16.6	16.5	16.1	14.9	17.2	19.3	21.0	21.1	24.8	27.7
37.5°	14.9	17.0	17.9	20.2	19.2	23.3	26.9	41.2	41.8	34.5	46.8
35°	15.8	17.9	23.6	30.1	32.7	31.8	52.0	70.7	75.3	67.8	80.4
32.5°	16.8	19.2	31.3	46.5	60.3	61.3	84.3	114.1	129.9	135.2	142.2
30°	18.5	26.3	43.2	67.2	100.3	127.3	138.3	170.4	199.4	257.5	298.1
27.5°	21.8	35.6	63.0	104.1	154.9	205.9	223.4	245.8	321.8	424.6	526.3
25°	25.8	55.3	85.6	153.0	230.6	287.3	309.5	339.7	483.2	681.9	798.8
22.5°	36.1	80.7	119.9	209.3	314.5	366.5	395.6	503.8	723.4	987.3	1105.7
20°	54.7	110.9	161.5	256.3	398.8	445.2	477.8	702.8	1022.4	1273.2	1458.9
17.5°	76.1	141.2	202.9	305.9	435.3	505.0	573.4	922.5	1335.9	1556.3	1775.1
15°	99.7	171.3	238.7	350.0	468.4	541.0	720.3	1171.2	1619.2	1834.3	2052.5
12.5°	124.7	201.0	269.5	388.8	501.0	574.5	853.7	1348.5	1770.6	2053.6	2315.4
10°	150.2	230.0	295.7	422.3	532.7	605.5	978.5	1499.2	1850.9	2102.6	2399.2
7.5°	167.5	248.8	316.2	450.6	562.7	634.0	1091.6	1623.5	1905.3	2127.2	2390.8
5°	181.1	256.0	324.0	470.7	587.4	656.5	1180.7	1721.7	1938.4	2131.0	2346.6
2.5°	191.9	260.8	330.2	486.4	607.1	670.8	1210.3	1752.0	1945.0	2130.8	2325.4
0°	199.7	263.6	334.4	497.6	623.1	682.5	1216.6	1758.7	1940.1	2126.2	2333.9
-2.5°	206.8	271.7	347.5	507.1	623.8	683.8	1210.6	1750.9	1962.0	2177.7	2425.7
-5°	211.1	278.2	358.3	512.0	621.4	683.0	1183.0	1719.7	1959.8	2178.5	2440.8
-7.5°	213.2	283.1	366.3	511.4	612.8	673.7	1109.8	1619.8	1882.7	2088.8	2363.8
-10°	213.9	289.2	371.5	500.5	596.8	658.2	1015.5	1501.2	1797.6	1990.6	2257.5
-12.5°	215.8	296.1	374.8	488.3	580.9	640.5	908.7	1366.6	1705.2	1885.3	2136.0
-15°	215.7	301.5	376.5	475.7	566.1	620.7	792.2	1218.0	1636.6	1865.3	2070.2
-17.5°	213.7	305.2	376.6	463.6	553.3	598.8	672.3	1086.7	1579.8	1857.1	2055.9
-20°	210.0	307.4	375.5	452.9	541.4	589.6	649.4	959.6	1428.7	1827.8	2050.2



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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°	204.7	308.0	374.2	447.4	532.1	592.6	643.8	820.2	1229.2	1779.3	2012.0
-25°	201.9	299.0	372.6	441.0	522.1	596.2	638.1	691.7	1032.1	1535.0	1922.5
-27.5°	200.3	288.6	364.1	430.5	509.4	595.3	638.6	683.9	865.3	1256.2	1784.0
-30°	195.6	271.4	352.6	416.6	494.5	578.5	642.8	678.4	729.2	1032.4	1463.2
-32.5°	185.8	253.3	333.6	401.6	474.9	558.8	638.4	678.2	721.7	811.6	1159.2
-35°	175.5	239.2	311.9	383.1	450.8	532.4	610.1	676.7	714.4	760.9	916.3
-37.5°	167.3	223.2	289.7	360.3	427.2	500.4	578.8	652.4	708.7	755.6	814.8
-40°	157.0	205.5	269.4	335.5	401.0	468.7	542.0	616.1	687.1	758.3	812.3
-42.5°	144.6	191.8	248.2	310.3	373.1	438.2	503.7	575.0	657.9	747.6	816.8
-45°	129.9	175.7	226.0	283.6	342.6	405.2	468.5	532.9	620.3	712.5	799.3
-47.5°	113.3	157.3	205.2	254.8	310.5	368.8	430.5	498.0	574.6	662.5	757.2
-50°	95.8	136.6	181.3	227.4	277.0	331.0	388.0	456.1	528.2	605.2	690.6
-52.5°	79.3	114.0	155.3	199.2	244.2	292.5	345.9	406.9	474.5	546.3	618.0
-55°	61.4	92.6	127.1	168.2	211.4	254.8	301.6	355.7	414.4	479.8	544.2
-57.5°	47.6	70.4	100.2	134.5	174.7	216.9	258.2	302.2	353.6	409.4	463.6
-60°	36.0	51.7	73.7	102.7	135.0	172.9	212.6	252.6	294.0	335.5	381.7
-62.5°	25.5	37.6	52.2	71.4	99.0	127.1	160.3	197.2	236.3	271.9	305.9
-65°	22.3	25.8	35.8	49.4	63.6	86.9	112.0	137.8	170.0	201.9	234.4
-67.5°	19.0	22.2	25.4	30.6	42.8	55.0	67.2	89.1	111.5	131.8	153.5
-70°	17.2	18.8	21.5	24.3	27.1	32.2	42.8	53.4	63.6	75.7	92.9
-72.5°	15.7	17.0	18.5	20.1	22.5	25.0	27.4	29.8	35.8	44.2	52.1
-75°	14.1	15.2	16.4	17.7	19.1	20.6	22.2	24.3	26.2	28.1	30.0
-77.5°	12.6	13.6	14.5	15.4	16.3	17.5	18.7	20.0	21.1	22.2	23.3
-80°	11.2	11.9	12.7	13.5	14.2	14.8	15.5	16.3	16.9	17.5	18.2
-82.5°	10.1	10.5	11.0	11.6	12.0	12.4	12.7	13.1	13.7	14.3	14.8
-85°	8.9	9.1	9.3	9.6	10.1	10.5	10.9	11.2	11.5	11.8	12.1
-87.5°	7.9	7.9	8.0	8.1	8.5	8.9	9.3	9.6	9.8	9.9	10.0
-90°	2.0	1.7	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	9.1	9.1	9.1	9.1	9.1	9.4	9.7	10.0	10.3	10.3	10.3
87.5°	1.1	1.1	1.0	1.0	1.0	0.8	0.5	0.3	0.0	0.0	0.0
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.5	1.4	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	2.5	2.3	2.0	1.6	1.2	1.1	1.1	1.1	1.1	1.1	1.1
75°	3.3	3.2	3.1	2.8	2.3	2.2	2.2	2.2	2.1	2.1	2.2
72.5°	6.9	6.9	6.5	5.9	5.1	4.7	4.6	4.4	4.2	4.0	3.9
70°	12.6	12.2	11.4	10.2	8.5	7.3	6.7	5.9	5.0	4.6	4.5
67.5°	18.2	16.3	14.7	13.0	10.6	8.7	7.7	6.7	5.8	5.3	5.1
65°	21.0	16.8	14.0	11.8	10.1	8.5	7.3	6.3	5.4	4.8	4.7
62.5°	19.3	14.0	11.0	9.2	7.7	6.7	5.9	5.1	4.3	3.8	4.0
60°	15.7	10.7	8.2	7.2	6.4	5.8	5.0	4.3	3.8	3.5	3.8
57.5°	12.0	8.6	6.7	6.3	5.7	4.9	4.4	4.2	4.2	4.2	4.4
55°	8.9	7.6	6.8	6.0	5.4	4.8	4.6	4.8	4.8	4.6	4.6
52.5°	7.6	7.0	6.2	5.5	5.4	5.4	5.6	5.4	5.3	5.3	5.4
50°	7.5	6.9	6.3	5.7	5.9	5.9	5.7	5.9	6.3	6.4	6.5
47.5°	8.1	7.6	8.0	6.7	7.0	7.9	7.9	8.1	9.1	9.5	9.7
45°	10.6	13.0	12.9	12.0	11.6	16.7	17.0	14.2	23.2	22.3	15.7
42.5°	19.7	20.9	21.0	26.2	35.5	40.4	53.6	74.5	69.8	54.2	32.8
40°	32.6	31.0	37.8	48.5	59.2	71.9	90.0	125.6	119.6	95.7	105.2
37.5°	56.2	56.2	59.5	74.4	78.5	67.6	96.1	92.8	74.0	104.0	110.1
35°	102.8	113.1	96.0	119.1	122.2	112.4	117.8	130.3	112.7	134.8	144.3
32.5°	184.6	203.7	206.2	211.8	228.8	241.9	238.2	268.6	270.1	298.8	338.1
30°	295.1	334.7	375.6	382.0	403.2	437.6	454.9	516.1	580.9	623.4	701.4
27.5°	518.7	528.5	610.8	675.8	650.0	701.4	830.3	905.0	1029.0	1102.8	1181.4
25°	833.1	859.9	976.1	1095.8	1111.7	1158.7	1345.9	1452.8	1580.6	1655.2	1817.1
22.5°	1232.0	1348.0	1475.9	1633.2	1697.8	1808.3	1990.3	2147.0	2413.1	2742.4	3452.0
20°	1676.5	1850.8	2022.6	2160.9	2294.0	2469.8	2691.1	3447.4	4343.5	7043.4	8906.2
17.5°	2056.8	2342.3	2506.6	2640.4	2807.5	3146.5	4025.5	6254.1	10551.6	16562.6	22064.9
15°	2352.5	2619.1	2883.3	3051.0	3312.1	4062.7	5851.2	11316.7	20221.8	30368.8	42647.8
12.5°	2587.0	2808.4	3030.2	3277.1	3759.6	5222.3	9772.6	18213.1	31162.7	47564.8	69333.1
10°	2713.7	2935.1	3149.2	3500.6	4393.7	7057.3	13434.4	24565.4	44889.7	70506.1	98248.3
7.5°	2712.8	2982.8	3247.5	3676.1	5040.0	9250.0	17747.8	32810.3	56850.4	88966.1	124681.7
5°	2711.3	3038.0	3315.4	3799.1	5444.3	10746.4	20425.2	37376.3	66589.5	102832.1	141074.7
2.5°	2737.6	3097.2	3359.2	3880.1	5631.6	11549.4	21910.5	40982.9	73398.3	110724.4	151589.7
0°	2799.5	3149.9	3385.0	3888.2	5609.3	11714.9	22083.2	41855.4	76018.8	115674.4	157609.1
-2.5°	2901.9	3142.3	3370.4	3855.4	5534.5	11373.2	21679.7	41094.2	72982.4	110166.2	150751.3
-5°	2840.2	3034.4	3236.2	3672.5	5167.4	10175.3	19528.6	36772.6	64008.6	97400.0	132166.7
-7.5°	2682.0	2878.8	3065.7	3442.0	4638.3	8397.0	15974.7	29540.4	50813.4	76818.4	104125.4
-10°	2537.8	2714.3	2890.3	3191.3	3963.2	6158.9	11431.3	20906.3	37099.7	56702.8	77571.0
-12.5°	2426.7	2575.0	2710.5	2912.2	3341.5	4567.9	8316.4	15348.6	24913.1	37393.5	52666.0
-15°	2329.0	2444.2	2543.9	2738.1	3057.2	3697.9	5182.0	9199.5	15159.1	23023.1	31362.4
-17.5°	2238.6	2349.1	2466.9	2614.8	2815.7	3123.3	3975.9	5665.7	9103.9	14240.9	19159.1
-20°	2192.4	2327.6	2428.9	2544.6	2715.1	2951.4	3251.0	4089.3	5506.4	8663.4	11861.3



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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°	2155.9	2284.9	2400.4	2534.6	2709.8	2896.3	3058.0	3314.0	3982.6	4974.1	6624.9
-25°	2111.5	2238.6	2409.5	2604.9	2755.3	2896.4	2978.4	3031.8	3318.7	3602.1	4234.1
-27.5°	2027.2	2228.7	2479.5	2690.5	2852.4	2939.9	3006.0	3049.3	3221.3	3390.2	3574.1
-30°	1951.8	2260.7	2531.6	2776.9	2917.8	3024.7	3110.9	3188.8	3307.7	3450.8	3517.7
-32.5°	1684.3	2252.0	2553.3	2779.2	2924.0	3050.1	3182.9	3254.9	3359.6	3464.5	3549.0
-35°	1323.0	1899.9	2529.7	2659.1	2802.8	2967.3	3126.8	3229.3	3335.9	3443.9	3543.4
-37.5°	991.0	1422.5	1933.3	2400.5	2593.4	2761.8	2957.6	3115.5	3255.0	3372.7	3486.1
-40°	868.7	985.7	1361.5	1732.6	2126.7	2488.4	2681.9	2893.3	3103.3	3248.6	3378.0
-42.5°	867.4	912.2	950.5	1199.2	1502.4	1813.5	2142.7	2449.4	2791.0	3030.5	3212.1
-45°	872.9	907.8	943.5	979.5	1012.6	1241.5	1481.6	1724.9	2081.4	2435.3	2741.2
-47.5°	831.4	898.7	941.5	976.0	1008.8	1040.9	1072.3	1138.0	1365.8	1607.0	1827.5
-50°	765.4	834.8	898.6	962.5	1000.1	1031.8	1066.0	1103.5	1140.0	1177.1	1201.7
-52.5°	684.6	752.9	819.3	880.0	934.6	988.4	1042.1	1085.7	1124.6	1162.6	1181.5
-55°	607.3	668.8	729.3	782.7	836.0	888.9	942.4	995.5	1048.3	1100.1	1126.6
-57.5°	521.5	581.3	638.1	683.1	728.4	773.6	822.1	872.0	920.1	964.2	987.5
-60°	430.6	481.7	530.4	574.1	616.5	657.3	698.4	740.1	780.8	816.7	837.7
-62.5°	340.0	379.5	420.1	458.2	494.3	529.1	566.6	602.5	636.3	664.9	684.8
-65°	266.1	295.7	321.7	348.1	374.9	405.5	436.4	465.6	493.0	515.6	532.6
-67.5°	180.7	207.8	231.7	254.1	274.6	295.5	317.7	339.0	359.2	375.9	389.0
-70°	109.3	124.6	138.1	153.2	171.1	188.7	206.3	222.5	237.2	249.3	258.9
-72.5°	59.4	65.9	72.8	83.7	93.6	103.6	113.4	122.5	130.6	137.9	144.2
-75°	31.9	34.7	39.8	44.3	48.3	52.3	56.2	59.8	63.0	65.7	67.9
-77.5°	24.7	26.0	27.3	28.3	29.3	30.1	31.0	31.8	32.6	33.4	34.1
-80°	19.0	19.9	20.8	21.7	22.5	23.1	23.6	24.0	24.3	24.8	25.3
-82.5°	15.2	15.6	16.1	16.5	17.0	17.4	17.9	18.4	18.8	19.0	19.1
-85°	12.5	12.6	12.8	12.9	13.1	13.2	13.4	13.5	13.5	13.6	13.6
-87.5°	10.1	10.1	10.1	10.2	10.2	10.5	10.8	11.1	11.4	11.4	11.4
-90°	1.1	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.0
87.5°	0.0	0.0	0.5	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.3
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.2
72.5°	3.7	3.4	3.4	3.4	3.4	3.4	3.7	3.9	4.0	4.2	4.4
70°	4.5	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.6	5.0	5.9
67.5°	4.9	4.6	4.1	3.4	4.1	4.6	4.9	5.1	5.3	5.8	6.7
65°	4.6	4.6	4.1	3.4	4.1	4.6	4.6	4.7	4.8	5.4	6.3
62.5°	4.2	4.5	4.1	3.4	4.1	4.5	4.2	4.0	3.8	4.3	5.1
60°	4.2	4.5	4.6	4.6	4.6	4.5	4.2	3.8	3.5	3.8	4.3
57.5°	4.5	4.6	4.6	4.6	4.6	4.6	4.5	4.4	4.2	4.2	4.2
55°	4.6	4.6	5.0	5.7	5.0	4.6	4.6	4.6	4.6	4.8	4.8
52.5°	5.5	5.6	5.7	5.7	5.7	5.6	5.5	5.4	5.3	5.3	5.4
50°	6.6	6.7	6.8	6.8	6.8	6.7	6.6	6.5	6.4	6.3	5.9
47.5°	9.7	9.3	9.1	9.1	9.1	9.3	9.7	9.7	9.5	9.1	8.1
45°	15.9	15.9	15.8	16.0	15.8	15.9	15.9	15.7	22.3	23.2	14.2
42.5°	31.9	28.7	26.3	27.4	26.3	28.7	31.9	32.8	54.2	69.8	74.5
40°	93.9	64.5	37.4	37.7	37.4	64.5	93.9	105.2	95.7	119.6	125.6
37.5°	87.8	70.8	63.9	62.8	63.9	70.8	87.8	110.1	104.0	74.0	92.8
35°	144.8	143.9	137.6	137.0	137.6	143.9	144.8	144.3	134.8	112.7	130.3
32.5°	353.3	367.8	363.1	357.2	363.1	367.8	353.3	338.1	298.8	270.1	268.6
30°	738.5	770.7	764.1	781.8	764.1	770.7	738.5	701.4	623.4	580.9	516.1
27.5°	1224.8	1245.9	1224.1	1217.7	1224.1	1245.9	1224.8	1181.4	1102.8	1029.0	905.0
25°	1927.7	1968.5	1987.3	2025.7	1987.3	1968.5	1927.7	1817.1	1655.2	1580.6	1452.8
22.5°	4334.3	4586.9	4457.2	4341.3	4457.2	4586.9	4334.3	3452.0	2742.4	2413.1	2147.0
20°	12719.9	14966.5	14800.9	14505.3	14800.9	14966.5	12719.9	8906.2	7043.4	4343.5	3447.4
17.5°	30671.5	37573.3	41871.5	44133.3	41871.5	37573.3	30671.5	22064.9	16562.6	10551.6	6254.1
15°	57220.1	68829.0	75645.2	79511.0	75645.2	68829.0	57220.1	42647.8	30368.8	20221.8	11316.7
12.5°	90260.8	108456.1	120527.1	122834.7	120527.1	108456.1	90260.8	69333.1	47564.8	31162.7	18213.1
10°	126643.0	149947.1	169166.6	176176.2	169166.6	149947.1	126643.0	98248.3	70506.1	44889.7	24565.4
7.5°	157714.7	187453.4	212974.1	222051.1	212974.1	187453.4	157714.7	124681.7	88966.1	56850.4	32810.3
5°	180308.7	219758.3	242858.8	249091.9	242858.8	219758.3	180308.7	141074.7	102832.1	66589.5	37376.3
2.5°	198700.4	236147.8	260914.6	273684.2	260914.6	236147.8	198700.4	151589.7	110724.4	73398.3	40982.9
0°	206786.8	242773.9	269484.9	288219.7	269484.9	242773.9	206786.8	157609.1	115674.4	76018.8	41855.4
-2.5°	196849.2	233651.0	252651.9	260863.4	252651.9	233651.0	196849.2	150751.3	110166.2	72982.4	41094.2
-5°	167363.0	202055.3	221152.6	227219.8	221152.6	202055.3	167363.0	132166.7	97400.0	64008.6	36772.6
-7.5°	130550.0	154584.9	171061.5	176803.9	171061.5	154584.9	130550.0	104125.4	76818.4	50813.4	29540.4
-10°	98301.4	115538.5	124368.0	127352.3	124368.0	115538.5	98301.4	77571.0	56702.8	37099.7	20906.3
-12.5°	67499.1	80475.2	86182.7	89932.3	86182.7	80475.2	67499.1	52666.0	37393.5	24913.1	15348.6
-15°	41520.5	49980.0	54474.2	57039.8	54474.2	49980.0	41520.5	31362.4	23023.1	15159.1	9199.5
-17.5°	25225.9	29824.2	32802.6	34152.0	32802.6	29824.2	25225.9	19159.1	14240.9	9103.9	5665.7
-20°	15660.9	18722.5	20461.6	21459.0	20461.6	18722.5	15660.9	11861.3	8663.4	5506.4	4089.3



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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°	8797.8	10477.7	11419.7	11748.0	11419.7	10477.7	8797.8	6624.9	4974.1	3982.6	3314.0
-25°	4892.4	5320.0	5507.1	5551.0	5507.1	5320.0	4892.4	4234.1	3602.1	3318.7	3031.8
-27.5°	3733.5	3824.7	3882.4	3899.7	3882.4	3824.7	3733.5	3574.1	3390.2	3221.3	3049.3
-30°	3581.3	3590.9	3606.7	3604.1	3606.7	3590.9	3581.3	3517.7	3450.8	3307.7	3188.8
-32.5°	3608.5	3612.0	3615.2	3609.8	3615.2	3612.0	3608.5	3549.0	3464.5	3359.6	3254.9
-35°	3597.7	3608.1	3616.2	3620.1	3616.2	3608.1	3597.7	3543.4	3443.9	3335.9	3229.3
-37.5°	3531.2	3545.4	3552.4	3545.9	3552.4	3545.4	3531.2	3486.1	3372.7	3255.0	3115.5
-40°	3409.1	3419.4	3420.0	3414.6	3420.0	3419.4	3409.1	3378.0	3248.6	3103.3	2893.3
-42.5°	3267.5	3303.5	3320.5	3321.0	3320.5	3303.5	3267.5	3212.1	3030.5	2791.0	2449.4
-45°	2935.2	3085.6	3174.9	3196.6	3174.9	3085.6	2935.2	2741.2	2435.3	2081.4	1724.9
-47.5°	2003.7	2153.1	2250.4	2287.1	2250.4	2153.1	2003.7	1827.5	1607.0	1365.8	1138.0
-50°	1219.7	1237.8	1245.7	1244.0	1245.7	1237.8	1219.7	1201.7	1177.1	1140.0	1103.5
-52.5°	1196.0	1210.3	1219.1	1223.4	1219.1	1210.3	1196.0	1181.5	1162.6	1124.6	1085.7
-55°	1148.4	1166.4	1175.6	1177.8	1175.6	1166.4	1148.4	1126.6	1100.1	1048.3	995.5
-57.5°	1007.0	1022.6	1031.5	1035.1	1031.5	1022.6	1007.0	987.5	964.2	920.1	872.0
-60°	854.8	867.9	873.6	874.2	873.6	867.9	854.8	837.7	816.7	780.8	740.1
-62.5°	701.3	714.3	718.6	717.8	718.6	714.3	701.3	684.8	664.9	636.3	602.5
-65°	546.8	558.1	560.3	558.1	560.3	558.1	546.8	532.6	515.6	493.0	465.6
-67.5°	400.1	408.9	411.5	410.9	411.5	408.9	400.1	389.0	375.9	359.2	339.0
-70°	266.6	272.3	272.1	269.3	272.1	272.3	266.6	258.9	249.3	237.2	222.5
-72.5°	149.6	153.9	157.4	159.8	157.4	153.9	149.6	144.2	137.9	130.6	122.5
-75°	69.7	71.0	72.8	74.2	72.8	71.0	69.7	67.9	65.7	63.0	59.8
-77.5°	34.7	35.2	35.9	36.5	35.9	35.2	34.7	34.1	33.4	32.6	31.8
-80°	25.7	26.1	26.2	26.2	26.2	26.1	25.7	25.3	24.8	24.3	24.0
-82.5°	19.3	19.3	19.4	19.4	19.4	19.3	19.3	19.1	19.0	18.8	18.4
-85°	13.7	13.7	14.2	14.8	14.2	13.7	13.7	13.6	13.6	13.5	13.5
-87.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	9.7	9.4	9.1	9.1	9.1	9.1	9.1	8.8	8.6	8.3	8.0
87.5°	0.5	0.8	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.3
80°	1.1	1.1	1.1	1.3	1.4	1.4	1.5	1.6	1.8	2.0	2.1
77.5°	1.1	1.1	1.2	1.6	2.0	2.3	2.5	2.6	2.7	2.8	2.9
75°	2.2	2.2	2.3	2.8	3.1	3.2	3.3	3.2	3.2	3.3	3.4
72.5°	4.6	4.7	5.1	5.9	6.5	6.9	6.9	6.5	5.6	4.3	3.4
70°	6.7	7.3	8.5	10.2	11.4	12.2	12.6	12.3	11.2	9.9	7.6
67.5°	7.7	8.7	10.6	13.0	14.7	16.3	18.2	19.9	20.1	18.8	13.6
65°	7.3	8.5	10.1	11.8	14.0	16.8	21.0	23.6	25.3	25.9	21.3
62.5°	5.9	6.7	7.7	9.2	11.0	14.0	19.3	23.8	27.7	28.5	24.1
60°	5.0	5.8	6.4	7.2	8.2	10.7	15.7	21.5	28.2	27.5	24.6
57.5°	4.4	4.9	5.7	6.3	6.7	8.6	12.0	16.7	22.9	23.5	22.6
55°	4.6	4.8	5.4	6.0	6.8	7.6	8.9	11.9	16.2	17.5	17.9
52.5°	5.6	5.4	5.4	5.5	6.2	7.0	7.6	9.3	10.7	12.6	13.6
50°	5.7	5.9	5.9	5.7	6.3	6.9	7.5	8.0	8.8	9.7	10.4
47.5°	7.9	7.9	7.0	6.7	8.0	7.6	8.1	8.5	9.0	8.7	9.2
45°	17.0	16.7	11.6	12.0	12.9	13.0	10.6	11.4	11.0	10.3	9.1
42.5°	53.6	40.4	35.5	26.2	21.0	20.9	19.7	18.1	16.5	13.7	13.0
40°	90.0	71.9	59.2	48.5	37.8	31.0	32.6	27.7	24.8	21.1	21.0
37.5°	96.1	67.6	78.5	74.4	59.5	56.2	56.2	46.8	34.5	41.8	41.2
35°	117.8	112.4	122.2	119.1	96.0	113.1	102.8	80.4	67.8	75.3	70.7
32.5°	238.2	241.9	228.8	211.8	206.2	203.7	184.6	142.2	135.2	129.9	114.1
30°	454.9	437.6	403.2	382.0	375.6	334.7	295.1	298.1	257.5	199.4	170.4
27.5°	830.3	701.4	650.0	675.8	610.8	528.5	518.7	526.3	424.6	321.8	245.8
25°	1345.9	1158.7	1111.7	1095.8	976.1	859.9	833.1	798.8	681.9	483.2	339.7
22.5°	1990.3	1808.3	1697.8	1633.2	1475.9	1348.0	1232.0	1105.7	987.3	723.4	503.8
20°	2691.1	2469.8	2294.0	2160.9	2022.6	1850.8	1676.5	1458.9	1273.2	1022.4	702.8
17.5°	4025.5	3146.5	2807.5	2640.4	2506.6	2342.3	2056.8	1775.1	1556.3	1335.9	922.5
15°	5851.2	4062.7	3312.1	3051.0	2883.3	2619.1	2352.5	2052.5	1834.3	1619.2	1171.2
12.5°	9772.6	5222.3	3759.6	3277.1	3030.2	2808.4	2587.0	2315.4	2053.6	1770.6	1348.5
10°	13434.4	7057.3	4393.7	3500.6	3149.2	2935.1	2713.7	2399.2	2102.6	1850.9	1499.2
7.5°	17747.8	9250.0	5040.0	3676.1	3247.5	2982.8	2712.8	2390.8	2127.2	1905.3	1623.5
5°	20425.2	10746.4	5444.3	3799.1	3315.4	3038.0	2711.3	2346.6	2131.0	1938.4	1721.7
2.5°	21910.5	11549.4	5631.6	3880.1	3359.2	3097.2	2737.6	2325.4	2130.8	1945.0	1752.0
0°	22083.2	11714.9	5609.3	3888.2	3385.0	3149.9	2799.5	2333.9	2126.2	1940.1	1758.7
-2.5°	21679.7	11373.2	5534.5	3855.4	3370.4	3142.3	2901.9	2425.7	2177.7	1962.0	1750.9
-5°	19528.6	10175.3	5167.4	3672.5	3236.2	3034.4	2840.2	2440.8	2178.5	1959.8	1719.7
-7.5°	15974.7	8397.0	4638.3	3442.0	3065.7	2878.8	2682.0	2363.8	2088.8	1882.7	1619.8
-10°	11431.3	6158.9	3963.2	3191.3	2890.3	2714.3	2537.8	2257.5	1990.6	1797.6	1501.2
-12.5°	8316.4	4567.9	3341.5	2912.2	2710.5	2575.0	2426.7	2136.0	1885.3	1705.2	1366.6
-15°	5182.0	3697.9	3057.2	2738.1	2543.9	2444.2	2329.0	2070.2	1865.3	1636.6	1218.0
-17.5°	3975.9	3123.3	2815.7	2614.8	2466.9	2349.1	2238.6	2055.9	1857.1	1579.8	1086.7
-20°	3251.0	2951.4	2715.1	2544.6	2428.9	2327.6	2192.4	2050.2	1827.8	1428.7	959.6



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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°	3058.0	2896.3	2709.8	2534.6	2400.4	2284.9	2155.9	2012.0	1779.3	1229.2	820.2
-25°	2978.4	2896.4	2755.3	2604.9	2409.5	2238.6	2111.5	1922.5	1535.0	1032.1	691.7
-27.5°	3006.0	2939.9	2852.4	2690.5	2479.5	2228.7	2027.2	1784.0	1256.2	865.3	683.9
-30°	3110.9	3024.7	2917.8	2776.9	2531.6	2260.7	1951.8	1463.2	1032.4	729.2	678.4
-32.5°	3182.9	3050.1	2924.0	2779.2	2553.3	2252.0	1684.3	1159.2	811.6	721.7	678.2
-35°	3126.8	2967.3	2802.8	2659.1	2529.7	1899.9	1323.0	916.3	760.9	714.4	676.7
-37.5°	2957.6	2761.8	2593.4	2400.5	1933.3	1422.5	991.0	814.8	755.6	708.7	652.4
-40°	2681.9	2488.4	2126.7	1732.6	1361.5	985.7	868.7	812.3	758.3	687.1	616.1
-42.5°	2142.7	1813.5	1502.4	1199.2	950.5	912.2	867.4	816.8	747.6	657.9	575.0
-45°	1481.6	1241.5	1012.6	979.5	943.5	907.8	872.9	799.3	712.5	620.3	532.9
-47.5°	1072.3	1040.9	1008.8	976.0	941.5	898.7	831.4	757.2	662.5	574.6	498.0
-50°	1066.0	1031.8	1000.1	962.5	898.6	834.8	765.4	690.6	605.2	528.2	456.1
-52.5°	1042.1	988.4	934.6	880.0	819.3	752.9	684.6	618.0	546.3	474.5	406.9
-55°	942.4	888.9	836.0	782.7	729.3	668.8	607.3	544.2	479.8	414.4	355.7
-57.5°	822.1	773.6	728.4	683.1	638.1	581.3	521.5	463.6	409.4	353.6	302.2
-60°	698.4	657.3	616.5	574.1	530.4	481.7	430.6	381.7	335.5	294.0	252.6
-62.5°	566.6	529.1	494.3	458.2	420.1	379.5	340.0	305.9	271.9	236.3	197.2
-65°	436.4	405.5	374.9	348.1	321.7	295.7	266.1	234.4	201.9	170.0	137.8
-67.5°	317.7	295.5	274.6	254.1	231.7	207.8	180.7	153.5	131.8	111.5	89.1
-70°	206.3	188.7	171.1	153.2	138.1	124.6	109.3	92.9	75.7	63.6	53.4
-72.5°	113.4	103.6	93.6	83.7	72.8	65.9	59.4	52.1	44.2	35.8	29.8
-75°	56.2	52.3	48.3	44.3	39.8	34.7	31.9	30.0	28.1	26.2	24.3
-77.5°	31.0	30.1	29.3	28.3	27.3	26.0	24.7	23.3	22.2	21.1	20.0
-80°	23.6	23.1	22.5	21.7	20.8	19.9	19.0	18.2	17.5	16.9	16.3
-82.5°	17.9	17.4	17.0	16.5	16.1	15.6	15.2	14.8	14.3	13.7	13.1
-85°	13.4	13.2	13.1	12.9	12.8	12.6	12.5	12.1	11.8	11.5	11.2
-87.5°	10.8	10.5	10.2	10.2	10.1	10.1	10.1	10.0	9.9	9.8	9.6
-90°	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.1	1.1	1.1	1.1





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	7.7	7.4	7.1	6.8	6.8	6.8	6.8	6.8	6.5	6.3	6.0
87.5°	1.3	1.5	1.6	1.8	1.9	2.0	2.1	2.3	2.4	2.5	2.5
85°	1.4	1.7	2.0	2.3	2.3	2.3	2.3	2.3	2.5	2.7	2.8
82.5°	1.4	1.7	2.0	2.3	2.5	2.6	2.6	2.6	2.7	2.9	3.1
80°	2.0	2.1	2.2	2.3	2.6	2.9	3.0	3.1	3.0	3.1	3.2
77.5°	2.7	2.5	2.3	2.4	2.6	2.9	3.2	3.4	3.3	3.2	3.3
75°	3.4	3.2	3.0	2.8	2.8	2.9	3.2	3.4	3.4	3.4	3.4
72.5°	3.4	3.4	3.4	3.4	3.2	3.2	3.3	3.4	3.4	3.4	3.4
70°	5.3	3.7	3.4	3.4	3.4	3.4	3.4	3.5	3.4	3.4	3.4
67.5°	8.7	6.1	4.4	3.5	3.4	3.4	3.4	3.5	3.6	3.4	3.4
65°	15.2	9.8	5.6	4.6	3.8	3.4	3.4	3.7	3.8	3.7	3.4
62.5°	19.6	14.8	9.7	6.3	4.7	3.9	3.4	3.7	4.0	3.9	3.6
60°	21.7	17.1	13.5	9.7	6.4	4.5	3.9	3.8	4.0	4.2	3.9
57.5°	20.1	18.3	15.7	12.5	9.0	5.8	4.4	4.1	4.1	4.4	4.3
55°	17.1	16.0	16.7	14.5	11.1	7.7	5.4	4.6	4.2	4.4	4.6
52.5°	13.5	14.4	15.9	15.7	12.9	9.5	7.0	5.1	4.7	4.5	4.7
50°	10.8	12.9	15.2	16.0	14.4	11.3	8.4	6.2	5.1	4.6	4.8
47.5°	9.9	12.0	14.1	16.3	15.5	13.0	9.9	7.3	5.5	5.0	4.8
45°	11.0	11.8	13.5	15.4	16.8	14.4	11.4	8.2	6.3	5.4	4.9
42.5°	13.4	13.6	13.6	14.7	16.5	15.5	12.9	9.5	7.0	5.8	5.1
40°	19.3	17.2	14.9	16.1	16.5	16.6	14.0	10.7	7.6	6.3	5.5
37.5°	26.9	23.3	19.2	20.2	17.9	17.0	14.9	11.9	8.5	7.0	5.9
35°	52.0	31.8	32.7	30.1	23.6	17.9	15.8	13.0	9.9	7.6	6.3
32.5°	84.3	61.3	60.3	46.5	31.3	19.2	16.8	14.3	11.3	8.2	6.7
30°	138.3	127.3	100.3	67.2	43.2	26.3	18.5	15.8	12.7	8.8	7.2
27.5°	223.4	205.9	154.9	104.1	63.0	35.6	21.8	17.4	14.1	9.6	7.7
25°	309.5	287.3	230.6	153.0	85.6	55.3	25.8	19.2	15.5	10.8	8.2
22.5°	395.6	366.5	314.5	209.3	119.9	80.7	36.1	22.3	16.8	11.9	8.6
20°	477.8	445.2	398.8	256.3	161.5	110.9	54.7	25.8	18.2	13.0	9.0
17.5°	573.4	505.0	435.3	305.9	202.9	141.2	76.1	29.6	19.6	14.0	9.4
15°	720.3	541.0	468.4	350.0	238.7	171.3	99.7	33.6	21.0	15.0	9.8
12.5°	853.7	574.5	501.0	388.8	269.5	201.0	124.7	37.8	22.4	15.9	10.1
10°	978.5	605.5	532.7	422.3	295.7	230.0	150.2	42.0	24.1	16.6	10.5
7.5°	1091.6	634.0	562.7	450.6	316.2	248.8	167.5	46.3	25.9	17.2	10.7
5°	1180.7	656.5	587.4	470.7	324.0	256.0	181.1	50.3	27.6	17.6	11.0
2.5°	1210.3	670.8	607.1	486.4	330.2	260.8	191.9	53.9	29.3	18.0	11.2
0°	1216.6	682.5	623.1	497.6	334.4	263.6	199.7	57.1	30.8	18.3	11.4
-2.5°	1210.6	683.8	623.8	507.1	347.5	271.7	206.8	71.2	40.6	23.8	14.1
-5°	1183.0	683.0	621.4	512.0	358.3	278.2	211.1	84.4	49.9	29.1	16.6
-7.5°	1109.8	673.7	612.8	511.4	366.3	283.1	213.2	96.7	58.6	34.0	19.0
-10°	1015.5	658.2	596.8	500.5	371.5	289.2	213.9	107.8	66.4	38.4	21.2
-12.5°	908.7	640.5	580.9	488.3	374.8	296.1	215.8	117.3	73.1	42.2	23.0
-15°	792.2	620.7	566.1	475.7	376.5	301.5	215.7	124.9	78.9	45.9	24.5
-17.5°	672.3	598.8	553.3	463.6	376.6	305.2	213.7	130.7	83.7	49.6	26.1
-20°	649.4	589.6	541.4	452.9	375.5	307.4	210.0	134.5	87.4	52.4	27.8



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	643.8	592.6	532.1	447.4	374.2	308.0	204.7	136.1	90.1	54.2	28.8
-25°	638.1	596.2	522.1	441.0	372.6	299.0	201.9	135.3	91.6	54.9	29.1
-27.5°	638.6	595.3	509.4	430.5	364.1	288.6	200.3	136.4	92.1	54.4	28.6
-30°	642.8	578.5	494.5	416.6	352.6	271.4	195.6	136.1	91.4	53.5	27.2
-32.5°	638.4	558.8	474.9	401.6	333.6	253.3	185.8	134.3	89.2	52.0	26.4
-35°	610.1	532.4	450.8	383.1	311.9	239.2	175.5	130.9	85.2	49.2	25.4
-37.5°	578.8	500.4	427.2	360.3	289.7	223.2	167.3	122.8	79.6	45.2	23.8
-40°	542.0	468.7	401.0	335.5	269.4	205.5	157.0	112.8	73.5	40.0	21.7
-42.5°	503.7	438.2	373.1	310.3	248.2	191.8	144.6	101.2	65.2	35.8	18.9
-45°	468.5	405.2	342.6	283.6	226.0	175.7	129.9	88.3	55.5	31.9	16.8
-47.5°	430.5	368.8	310.5	254.8	205.2	157.3	113.3	76.3	45.0	27.3	16.1
-50°	388.0	331.0	277.0	227.4	181.3	136.6	95.8	62.9	38.5	21.7	15.3
-52.5°	345.9	292.5	244.2	199.2	155.3	114.0	79.3	49.1	31.4	19.0	14.3
-55°	301.6	254.8	211.4	168.2	127.1	92.6	61.4	40.3	23.8	17.6	13.3
-57.5°	258.2	216.9	174.7	134.5	100.2	70.4	47.6	30.8	20.6	16.1	13.0
-60°	212.6	172.9	135.0	102.7	73.7	51.7	36.0	23.3	18.7	14.7	12.6
-62.5°	160.3	127.1	99.0	71.4	52.2	37.6	25.5	20.8	16.6	14.1	12.1
-65°	112.0	86.9	63.6	49.4	35.8	25.8	22.3	18.2	15.4	13.4	11.5
-67.5°	67.2	55.0	42.8	30.6	25.4	22.2	19.0	16.6	14.5	12.6	11.0
-70°	42.8	32.2	27.1	24.3	21.5	18.8	17.2	15.4	13.6	11.9	10.3
-72.5°	27.4	25.0	22.5	20.1	18.5	17.0	15.7	14.2	12.6	11.0	9.7
-75°	22.2	20.6	19.1	17.7	16.4	15.2	14.1	12.9	11.5	10.2	9.1
-77.5°	18.7	17.5	16.3	15.4	14.5	13.6	12.6	11.6	10.5	9.5	8.4
-80°	15.5	14.8	14.2	13.5	12.7	11.9	11.2	10.6	9.7	8.7	7.8
-82.5°	12.7	12.4	12.0	11.6	11.0	10.5	10.1	9.7	8.8	8.0	7.2
-85°	10.9	10.5	10.1	9.6	9.3	9.1	8.9	8.7	8.0	7.4	6.8
-87.5°	9.3	8.9	8.5	8.1	8.0	7.9	7.9	7.8	7.3	6.8	6.4
-90°	1.1	1.1	1.1	1.1	1.4	1.7	2.0	2.3	2.3	2.3	2.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.7	5.4	5.2	4.9	4.6	4.0	3.4
87.5°	2.6	2.8	2.9	3.2	3.4	3.4	3.4
85°	2.9	2.9	3.0	3.2	3.4	3.5	3.4
82.5°	3.2	3.1	3.1	3.2	3.4	3.5	3.4
80°	3.4	3.3	3.2	3.3	3.4	3.5	3.4
77.5°	3.4	3.4	3.3	3.3	3.4	3.5	3.4
75°	3.4	3.5	3.4	3.3	3.4	3.6	3.4
72.5°	3.5	3.6	3.5	3.4	3.4	3.6	3.4
70°	3.5	3.7	3.6	3.4	3.4	3.6	3.4
67.5°	3.5	3.8	3.8	3.5	3.5	3.6	3.4
65°	3.6	3.8	3.9	3.7	3.5	3.7	3.4
62.5°	3.6	3.9	4.0	3.8	3.5	3.7	3.4
60°	3.6	3.9	4.2	3.9	3.6	3.7	3.4
57.5°	3.9	3.9	4.2	4.0	3.7	3.8	3.4
55°	4.2	4.0	4.2	4.2	3.8	3.8	3.4
52.5°	4.5	4.0	4.2	4.3	3.9	3.8	3.4
50°	4.8	4.3	4.3	4.4	3.9	3.9	3.4
47.5°	5.0	4.5	4.3	4.5	4.0	3.9	3.4
45°	5.1	4.7	4.3	4.6	4.1	3.9	3.4
42.5°	5.1	4.9	4.4	4.6	4.2	4.0	3.4
40°	5.2	5.2	4.5	4.6	4.2	4.0	3.4
37.5°	5.2	5.4	4.7	4.6	4.3	4.1	3.4
35°	5.3	5.5	4.8	4.7	4.4	4.1	3.4
32.5°	5.4	5.5	5.0	4.7	4.4	4.1	3.4
30°	5.8	5.6	5.1	4.8	4.4	4.2	3.4
27.5°	6.1	5.6	5.2	4.8	4.5	4.2	3.4
25°	6.4	5.7	5.3	4.9	4.5	4.3	3.4
22.5°	6.8	5.7	5.4	5.0	4.5	4.3	3.4
20°	7.1	5.8	5.5	5.0	4.6	4.3	3.4
17.5°	7.4	5.9	5.6	5.1	4.6	4.4	3.4
15°	7.7	6.0	5.6	5.2	4.6	4.4	3.4
12.5°	8.0	6.1	5.7	5.3	4.6	4.4	3.4
10°	8.3	6.3	5.7	5.4	4.6	4.5	3.4
7.5°	8.5	6.4	5.7	5.5	4.6	4.5	3.4
5°	8.8	6.5	5.7	5.5	4.6	4.5	3.4
2.5°	8.9	6.7	5.7	5.6	4.6	4.6	3.4
0°	9.1	6.8	5.7	5.7	4.6	4.6	3.4
-2.5°	10.0	7.2	5.9	5.8	4.6	4.6	3.4
-5°	10.9	7.5	6.1	5.8	4.7	4.6	3.4
-7.5°	11.7	7.9	6.3	5.9	4.7	4.7	3.4
-10°	12.4	8.2	6.5	5.9	4.8	4.7	3.4
-12.5°	13.0	8.5	6.7	6.0	4.8	4.7	3.4
-15°	13.5	8.8	6.8	6.0	4.9	4.7	3.4
-17.5°	13.9	9.0	7.0	6.0	4.9	4.7	3.4
-20°	14.4	9.2	7.1	6.1	5.0	4.7	3.4



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	14.9	9.3	7.2	6.1	5.0	4.7	3.4
-25°	15.1	9.5	7.3	6.1	5.1	4.7	3.4
-27.5°	15.0	9.6	7.3	6.1	5.1	4.7	3.4
-30°	14.5	9.6	7.4	6.1	5.2	4.7	3.4
-32.5°	13.7	9.6	7.4	6.1	5.2	4.7	3.4
-35°	13.3	9.5	7.5	6.1	5.2	4.7	3.4
-37.5°	13.2	9.5	7.5	6.0	5.3	4.7	3.4
-40°	13.0	9.5	7.6	6.0	5.3	4.7	3.4
-42.5°	12.6	9.5	7.5	6.0	5.3	4.7	3.4
-45°	12.2	9.4	7.5	5.9	5.4	4.6	3.4
-47.5°	11.6	9.4	7.5	5.9	5.4	4.6	3.4
-50°	11.4	9.3	7.4	5.9	5.4	4.6	3.4
-52.5°	11.3	9.1	7.3	6.0	5.5	4.6	3.4
-55°	11.0	9.0	7.2	6.0	5.5	4.6	3.4
-57.5°	10.8	8.8	7.1	6.0	5.5	4.5	3.4
-60°	10.5	8.6	6.9	6.0	5.6	4.5	3.4
-62.5°	10.1	8.3	6.9	6.0	5.5	4.5	3.4
-65°	9.7	8.0	6.8	6.0	5.4	4.4	3.4
-67.5°	9.3	7.8	6.7	6.0	5.4	4.4	3.4
-70°	8.9	7.5	6.6	5.9	5.3	4.4	3.4
-72.5°	8.4	7.2	6.4	5.8	5.2	4.3	3.4
-75°	7.9	6.9	6.2	5.7	5.1	4.3	3.4
-77.5°	7.4	6.6	6.1	5.6	5.0	4.2	3.4
-80°	6.8	6.4	5.9	5.4	5.0	4.2	3.4
-82.5°	6.5	6.1	5.7	5.3	4.9	4.1	3.4
-85°	6.3	5.9	5.5	5.2	4.8	4.1	3.4
-87.5°	6.0	5.7	5.3	5.0	4.7	4.0	3.4
-90°	2.3	2.6	2.9	3.1	3.4	3.4	3.4

(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

