

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: P701622 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-5S-VHE-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701622 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-40-70-5S-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

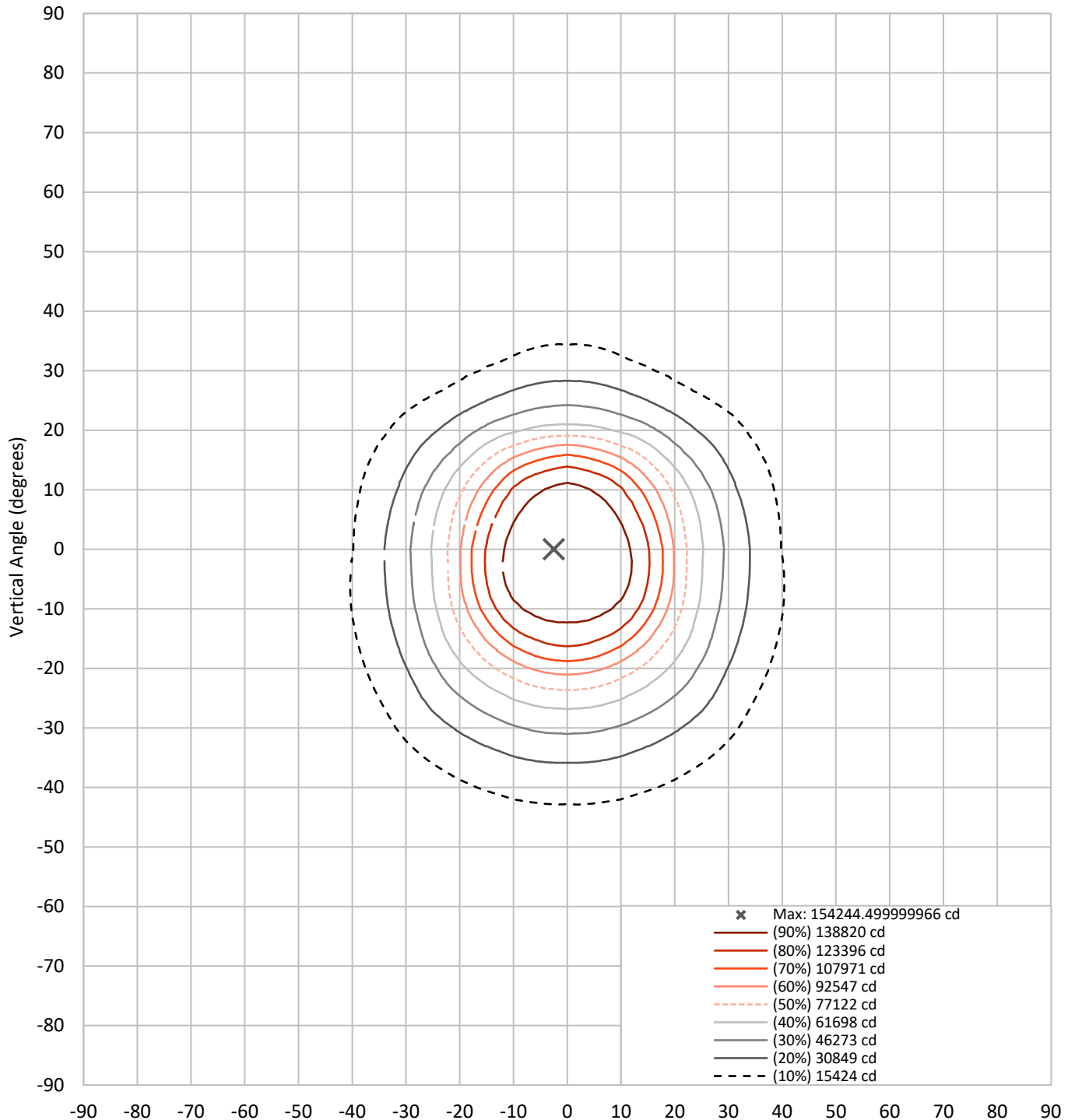
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	100434.1 lumens	Max Intensity:	154244.5 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	144.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	55147.8 lumens	Field Lumens:	92286.7 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

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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### Iso-Candela Plot





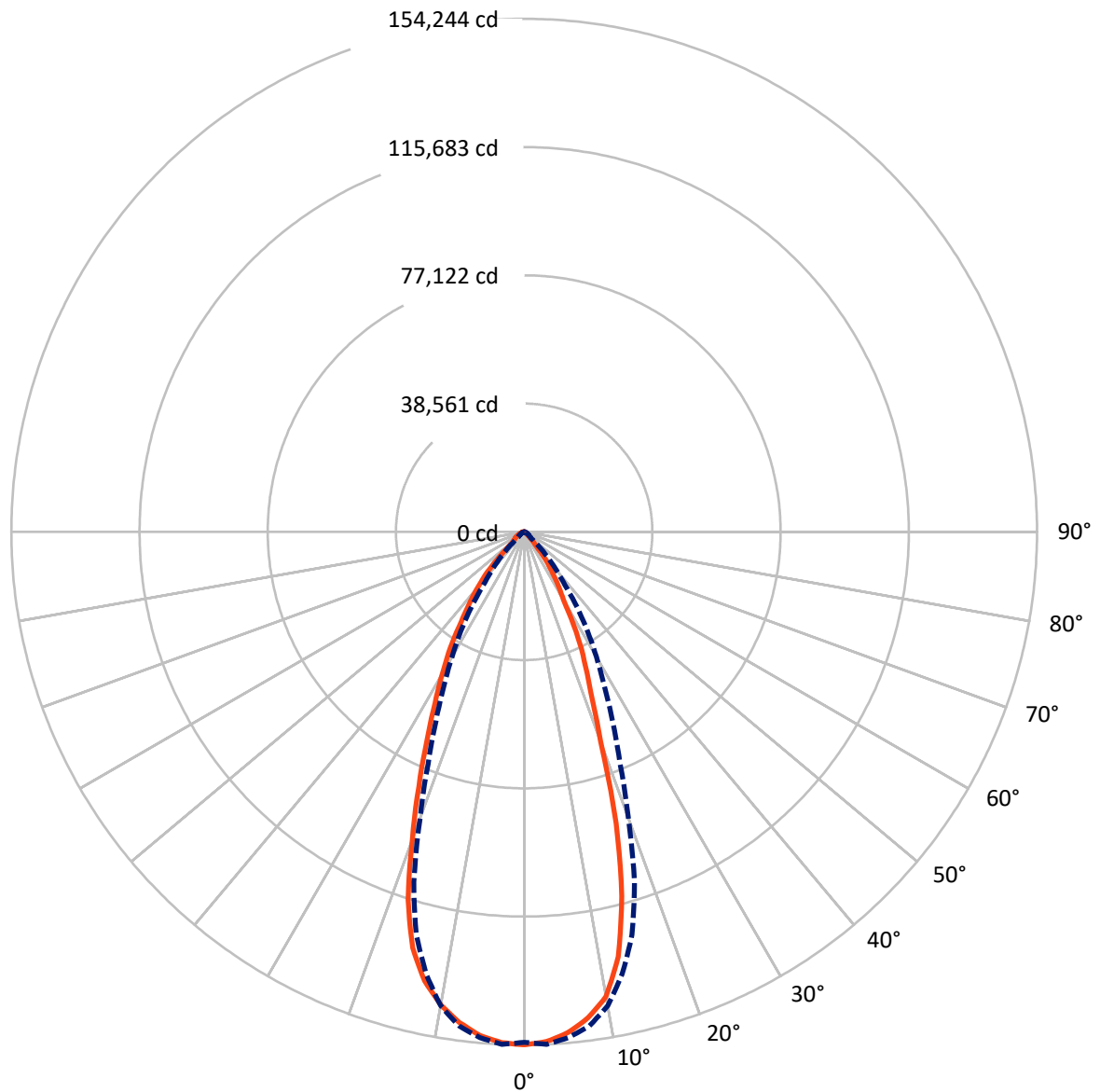
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### Lumen Table

90	0.4	1.5	2.5	3.4	3.9	3.4	2.5	1.5	0.4										
80	0.4	0.2	0.3	0.6	0.8	0.8	1.0	1.0	0.8	0.8	0.8	0.6	0.3	0.2	0.4				
70	0.4	0.5	0.9	1.4	1.5	1.1	1.3	1.5	1.5	1.3	1.1	1.5	1.4	0.9	0.5	0.4			
60	0.4	1.4	3.0	6.0	10.8	22.1	48.7	65.7	65.7	48.7	22.1	10.8	6.0	3.0	1.4	0.4			
50	1.2	3.0	10.0	20.4	51.6	153.3	283.9	418.3	418.3	283.9	153.3	51.6	20.4	10.0	3.0	1.2			
40	1.2	5.2	17.4	44.2	212.6	502.6	924.0	1268.6	1268.6	924.0	502.6	212.6	44.2	17.4	5.2	1.2			
30	2.5	7.2	23.2	100.0	464.4	1148.0	2233.6	3192.2	3192.2	2233.6	1148.0	464.4	100.0	23.2	7.2	2.5			
20	2.5	8.9	27.3	151.7	653.8	1667.0	3344.3	4436.3	4436.3	3344.3	1667.0	653.8	151.7	27.3	8.9	2.5			
10	3.6	9.9	30.4	161.7	704.4	1748.1	3547.9	4505.7	4505.7	3547.9	1748.1	704.4	161.7	30.4	9.9	3.6			
0	3.6	10.2	32.0	133.4	599.8	1460.9	2752.1	3716.0	3716.0	2752.1	1460.9	599.8	133.4	32.0	10.2	3.6			
-10	4.3	9.7	32.0	82.8	389.0	967.3	1608.5	2085.1	2085.1	1608.5	967.3	389.0	82.8	32.0	9.7	4.3			
-20	4.3	8.7	28.0	59.6	158.3	470.5	791.8	1005.9	1005.9	791.8	470.5	158.3	59.6	28.0	8.7	4.3			
-30	4.4	7.3	20.7	45.1	76.4	124.8	233.6	327.4	327.4	233.6	124.8	76.4	45.1	20.7	7.3	4.4			
-40	4.4	5.9	13.7	28.3	50.0	70.0	86.2	98.5	98.5	86.2	70.0	50.0	28.3	13.7	5.9	4.4			
-50	4.0	4.8	9.2	15.9	25.9	35.4	45.1	51.9	51.9	45.1	35.4	25.9	15.9	9.2	4.8	4.0			
-60	4.0	4.8	9.2	15.9	25.9	35.4	45.1	51.9	51.9	45.1	35.4	25.9	15.9	9.2	4.8	4.0			
-70	4.0	4.8	9.2	15.9	25.9	35.4	45.1	51.9	51.9	45.1	35.4	25.9	15.9	9.2	4.8	4.0			
-80	2.9	17.6	38.9	61.0	74.8	61.0	38.9	17.6	2.9							2.9			
-90	2.9	17.6	38.9	61.0	74.8	61.0	38.9	17.6	2.9							2.9			

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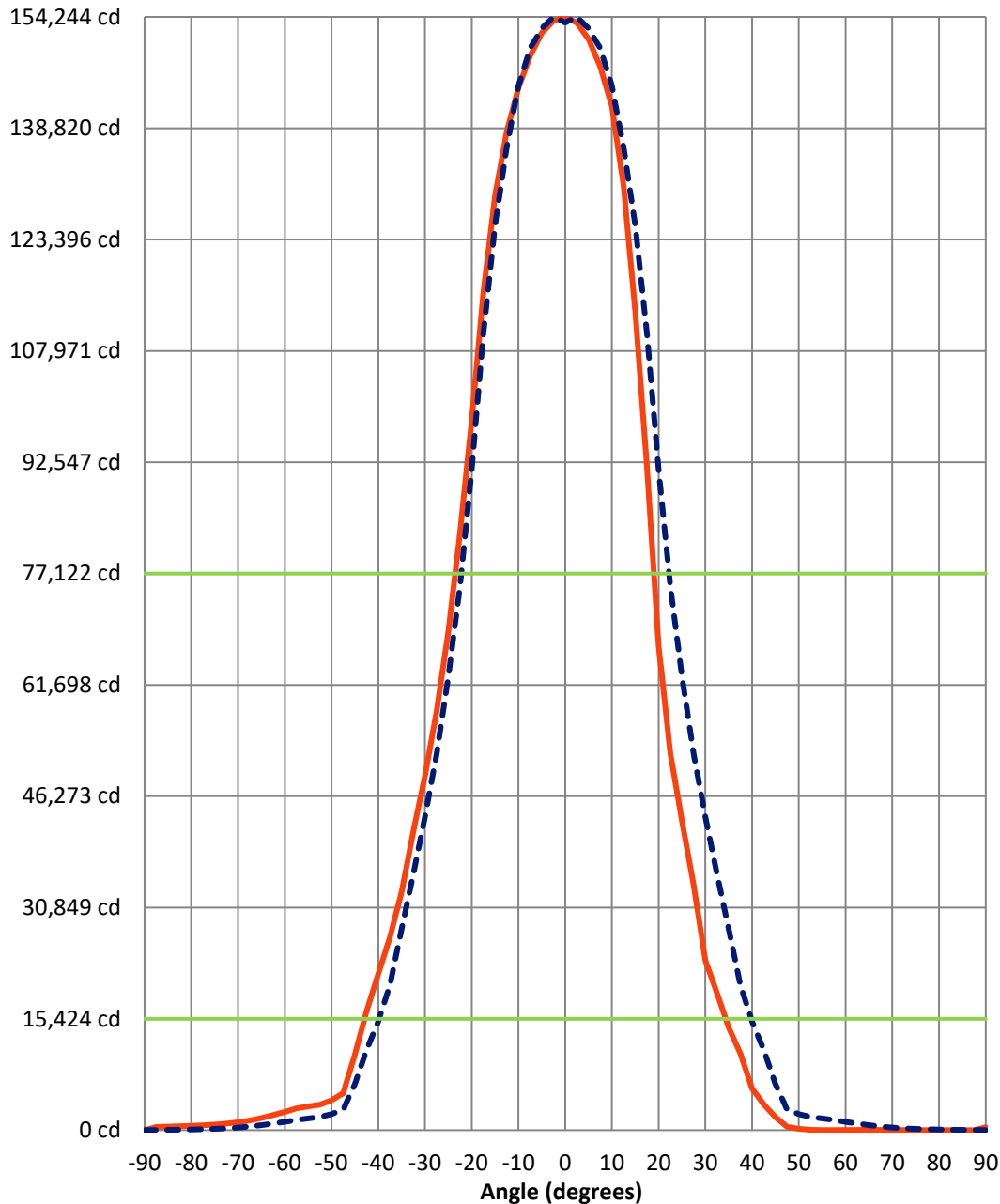
### Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 44.5°  
V Angle: 42.5°  
Lumens: 55147.8  
Efficiency: 54.9%

**Field:**  
H Angle: 79.6°  
V Angle: 77.3°  
Lumens: 92286.7  
Efficiency: 91.9%

**Spill:**  
Lumens: 8147.5  
Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	13.3	26.0	38.8	64.2	89.7	113.3	137.0	156.4	175.8	189.7	203.6
87.5°	13.3	12.4	11.2	11.3	11.3	11.4	11.5	11.0	10.5	10.4	10.2
85°	13.3	12.6	11.5	11.7	11.7	11.9	12.1	11.8	11.4	11.1	10.7
82.5°	13.3	12.9	11.9	12.1	12.2	12.5	12.8	12.5	12.2	11.8	11.3
80°	13.3	13.2	12.2	12.5	12.6	13.0	13.4	13.2	13.0	12.6	11.9
77.5°	13.3	13.5	12.6	12.9	13.0	13.6	14.1	14.0	13.9	13.3	12.5
75°	13.3	13.7	12.9	13.3	13.5	14.4	14.8	14.8	14.7	14.0	13.1
72.5°	13.3	14.0	13.3	13.7	14.4	15.3	15.5	15.6	15.3	14.6	13.7
70°	13.3	14.3	13.7	14.1	15.3	16.1	16.3	16.5	16.0	15.2	14.9
67.5°	13.3	14.6	14.1	14.9	16.1	17.0	17.4	17.4	16.9	16.6	16.2
65°	13.3	14.9	14.5	15.6	17.0	18.0	18.5	18.5	18.5	18.0	18.0
62.5°	13.3	15.2	15.0	16.3	17.9	19.0	19.6	20.1	20.3	19.9	21.0
60°	13.3	15.4	15.5	17.0	18.8	20.0	20.7	21.9	22.2	24.0	24.4
57.5°	13.3	15.7	16.3	17.7	20.0	21.0	23.0	24.0	27.3	29.2	31.0
55°	13.3	16.0	17.1	18.4	21.3	22.1	25.7	26.6	33.8	36.1	39.9
52.5°	13.3	16.3	18.0	19.1	22.7	23.5	28.6	33.4	41.1	47.0	49.9
50°	13.3	16.6	18.9	19.8	24.2	26.8	31.7	40.8	49.9	58.6	64.5
47.5°	13.3	16.9	19.9	20.6	25.8	30.4	35.6	48.4	61.3	70.9	80.8
45°	13.3	17.2	20.9	22.0	27.6	34.1	42.3	56.1	72.8	86.7	98.0
42.5°	13.3	17.5	22.0	23.3	29.4	38.0	49.0	65.5	84.7	103.1	124.1
40°	13.3	17.8	23.1	25.3	31.9	42.1	56.1	76.2	98.0	120.1	153.1
37.5°	13.3	18.1	24.2	27.8	35.1	46.3	63.8	87.1	113.4	140.5	183.7
35°	13.3	18.4	25.4	30.2	38.4	51.9	71.6	98.1	129.2	168.1	219.1
32.5°	13.3	18.7	26.7	32.8	41.7	58.1	80.0	109.7	145.4	196.3	259.3
30°	13.3	19.0	27.9	35.4	45.0	64.2	89.8	122.0	162.0	224.9	298.8
27.5°	13.3	19.3	29.2	38.0	49.4	70.3	99.3	135.4	180.5	253.8	337.4
25°	13.3	19.6	30.5	40.6	53.9	76.2	108.6	148.2	202.0	284.9	375.4
22.5°	13.3	19.8	31.7	43.3	58.3	82.3	117.6	160.6	222.3	311.7	415.4
20°	13.3	20.1	33.0	45.9	62.6	88.9	126.4	172.3	241.3	337.0	448.9
17.5°	13.3	20.3	34.3	48.6	66.8	95.2	135.1	183.4	259.0	360.8	480.6
15°	13.3	20.6	35.6	51.2	70.9	101.3	143.5	194.2	275.4	383.0	510.6
12.5°	13.3	20.8	36.8	53.8	74.8	107.0	151.4	204.8	291.9	403.4	538.8
10°	13.3	21.0	38.1	56.3	78.6	112.5	158.9	214.8	308.3	427.5	568.5
7.5°	13.3	21.3	39.2	58.7	82.3	117.6	165.7	224.1	323.4	450.9	604.1
5°	13.3	21.5	40.3	61.1	85.7	122.4	172.1	232.6	337.2	472.5	637.5
2.5°	13.3	21.6	41.4	63.4	89.0	126.8	177.8	240.4	349.4	492.0	668.3
0°	13.3	21.8	42.4	65.5	92.1	130.9	183.0	247.3	360.0	509.1	695.8
-2.5°	13.3	22.6	44.2	68.4	96.4	136.9	190.8	257.3	372.3	523.6	710.0
-5°	13.3	23.5	45.9	71.1	100.4	142.5	198.0	266.4	382.8	535.3	720.5
-7.5°	13.3	24.3	47.6	73.7	104.2	147.6	204.4	274.5	391.3	544.1	727.3
-10°	13.3	25.0	49.1	76.1	107.8	152.3	210.2	281.6	397.8	550.0	730.6
-12.5°	13.3	25.8	50.6	78.4	111.1	156.5	215.2	287.5	402.2	553.2	735.7
-15°	13.3	26.5	51.9	80.5	114.1	160.1	219.4	292.3	404.6	554.1	738.4
-17.5°	13.3	27.2	53.2	82.4	116.7	163.3	222.8	296.4	405.2	551.7	735.3
-20°	13.3	27.8	54.3	84.2	119.1	165.8	225.9	299.9	403.7	546.0	726.1



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	13.3	28.4	55.3	85.7	121.1	167.8	229.0	302.3	400.1	537.0	711.6
-25°	13.3	28.9	56.2	87.1	122.8	170.1	231.2	303.6	394.4	524.6	698.9
-27.5°	13.3	29.5	57.0	88.2	124.2	172.3	232.6	303.8	386.7	516.2	689.5
-30°	13.3	29.9	57.6	89.2	125.3	174.0	233.0	303.0	383.4	509.5	675.0
-32.5°	13.3	30.3	58.1	89.9	127.4	175.1	232.6	302.2	383.1	499.3	654.9
-35°	13.3	30.7	58.5	90.5	129.2	175.6	232.6	301.1	380.9	485.5	629.1
-37.5°	13.3	31.0	58.8	90.8	130.6	176.2	232.6	299.2	376.8	468.3	605.7
-40°	13.3	31.3	59.0	90.9	131.7	177.5	231.9	296.1	370.8	457.8	583.2
-42.5°	13.3	31.5	59.0	91.1	132.6	178.4	230.6	291.8	365.0	449.2	556.8
-45°	13.3	31.7	58.8	91.7	133.3	178.9	228.6	287.6	358.5	438.1	529.1
-47.5°	13.3	31.8	58.6	91.9	133.6	178.9	225.8	284.2	350.5	424.7	513.5
-50°	13.3	31.8	58.2	91.9	133.4	178.4	224.8	279.8	340.3	412.6	495.2
-52.5°	13.3	31.8	57.7	91.8	132.7	177.6	223.5	274.4	331.7	398.3	473.0
-55°	13.3	31.7	57.1	91.4	131.7	176.0	221.7	268.4	323.2	381.8	450.8
-57.5°	13.3	31.6	56.3	90.7	130.2	173.8	219.3	265.4	313.5	368.8	426.6
-60°	13.3	31.5	55.4	89.8	128.3	171.2	216.2	261.1	303.8	356.0	403.4
-62.5°	13.3	31.3	54.7	88.6	126.5	168.0	212.1	256.0	297.6	341.2	385.0
-65°	13.3	31.0	53.8	87.2	124.4	164.4	207.5	250.0	290.5	329.7	365.4
-67.5°	13.3	30.7	52.8	85.5	121.9	160.5	202.3	242.9	282.7	318.8	350.1
-70°	13.3	30.3	51.6	83.6	119.0	156.2	196.5	235.1	273.2	307.1	336.4
-72.5°	13.3	29.9	50.4	81.8	115.9	151.3	189.6	226.6	262.9	293.9	321.8
-75°	13.3	29.5	49.0	79.8	112.4	146.0	182.0	216.7	251.9	280.2	306.4
-77.5°	13.3	29.0	47.5	77.7	109.2	140.2	173.8	206.0	238.8	265.5	290.5
-80°	13.3	28.5	45.9	75.3	105.7	135.0	165.1	194.7	225.0	248.6	271.9
-82.5°	13.3	27.9	44.2	72.8	102.1	130.0	158.3	184.0	210.6	231.4	252.0
-85°	13.3	27.3	42.5	70.1	98.2	124.7	151.5	175.2	199.2	216.6	233.9
-87.5°	13.3	26.7	40.7	67.3	94.0	119.1	144.4	165.9	187.7	203.3	218.9
-90°	13.3	12.1	10.9	10.9	10.9	10.9	10.9	10.3	9.7	9.7	9.7





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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°	212.1	220.6	228.5	236.4	246.1	255.8	266.1	276.4	287.3	298.2	308.5
87.5°	9.7	9.1	9.1	9.2	8.6	8.1	7.7	7.3	6.7	6.1	6.0
85°	10.2	9.7	9.8	9.7	9.2	8.9	8.3	7.8	7.3	6.8	6.8
82.5°	11.0	10.9	10.5	9.8	9.6	9.6	9.2	8.6	8.1	7.7	7.5
80°	11.8	12.1	11.2	10.2	10.0	9.8	9.2	8.6	8.5	8.5	8.1
77.5°	12.3	12.2	11.5	10.9	10.5	10.1	9.7	9.3	9.0	8.6	8.5
75°	12.7	12.3	11.9	11.2	10.8	10.7	10.6	10.2	10.0	10.0	10.0
72.5°	13.4	13.1	12.4	11.5	11.2	11.4	11.5	11.1	11.4	11.9	11.9
70°	14.5	14.0	13.1	12.3	11.9	12.3	12.9	13.7	14.7	14.9	16.0
67.5°	15.7	15.1	14.0	13.3	13.0	13.8	14.5	17.6	20.4	21.9	23.6
65°	17.4	16.5	15.4	15.2	14.5	17.5	20.0	23.1	28.9	31.7	31.5
62.5°	19.5	19.8	18.3	18.6	21.1	23.7	28.1	34.7	41.5	44.1	41.7
60°	24.8	24.1	24.1	25.8	28.5	31.6	38.4	46.6	54.4	58.6	52.3
57.5°	31.7	31.5	33.3	34.4	38.0	39.0	48.0	58.2	64.9	69.9	61.6
55°	41.5	41.8	45.4	46.5	49.1	49.0	56.8	66.4	73.2	75.6	67.0
52.5°	55.1	55.7	62.1	63.0	62.2	63.0	65.9	76.1	81.9	82.1	74.4
50°	69.9	77.7	81.7	84.3	79.6	82.6	79.9	91.3	100.0	99.1	101.9
47.5°	92.1	102.5	108.2	112.4	109.0	118.0	116.0	133.6	139.6	172.9	178.1
45°	118.3	134.9	142.6	152.0	162.5	173.4	201.6	201.7	280.4	311.4	393.1
42.5°	147.7	172.6	194.0	197.8	250.1	280.5	319.0	397.9	474.8	571.4	608.2
40°	186.6	214.3	257.9	307.3	365.2	431.5	503.0	598.8	699.8	749.8	756.1
37.5°	229.8	281.8	342.7	432.2	521.3	608.1	698.9	792.5	865.3	883.8	951.6
35°	276.2	352.5	466.1	568.8	672.5	792.5	873.2	959.5	1003.2	1079.7	1210.3
32.5°	334.5	425.0	566.2	699.8	815.0	945.6	1022.9	1089.0	1191.6	1324.3	1612.7
30°	395.5	506.8	649.6	803.8	945.8	1055.3	1143.2	1226.2	1386.8	1707.4	2696.2
27.5°	446.2	577.1	727.2	899.2	1061.1	1161.0	1260.7	1405.5	1692.6	2353.2	4228.6
25°	491.7	633.8	803.3	1002.9	1161.4	1271.4	1401.3	1605.7	2056.2	3849.1	6252.3
22.5°	536.2	689.7	890.2	1112.0	1263.2	1380.0	1576.6	1945.9	2889.8	5410.4	8298.7
20°	582.0	761.1	984.5	1213.3	1360.7	1476.2	1729.8	2276.3	4208.5	7091.2	10104.5
17.5°	630.1	833.2	1076.3	1285.3	1423.2	1577.1	1891.4	2547.2	5309.3	8661.0	12034.1
15°	677.0	902.3	1154.8	1347.5	1480.4	1685.9	2108.4	3346.5	6473.5	10413.8	14097.2
12.5°	722.0	965.1	1215.6	1396.2	1536.9	1787.3	2286.6	4227.0	7873.1	12041.3	15890.7
10°	764.4	1021.3	1266.9	1442.3	1598.3	1895.6	2458.3	5089.0	9098.4	13099.0	16997.7
7.5°	808.0	1068.2	1310.1	1486.3	1657.5	1997.6	2647.3	5758.6	10013.2	13912.6	17853.0
5°	847.4	1104.3	1351.7	1535.5	1718.5	2088.1	2800.1	6270.6	10699.6	14584.7	18614.7
2.5°	881.9	1132.6	1387.1	1581.9	1778.0	2163.9	2844.2	6412.9	11022.2	14946.4	19364.0
0°	911.5	1154.0	1415.8	1623.1	1831.5	2225.5	2855.8	6388.0	11102.0	15056.0	20093.6
-2.5°	928.3	1181.6	1467.0	1682.2	1879.4	2275.2	2916.2	6397.4	11169.4	15823.4	21031.8
-5°	940.0	1202.3	1509.1	1734.6	1921.9	2310.1	2949.9	6252.0	11078.2	16227.4	21306.1
-7.5°	946.7	1215.3	1540.0	1778.2	1960.5	2335.4	2968.8	6015.5	11083.3	16245.8	20961.2
-10°	950.1	1227.7	1554.5	1802.7	1993.5	2347.6	2959.7	5609.4	10643.3	15806.0	20392.9
-12.5°	961.6	1239.1	1559.7	1820.9	2019.9	2350.4	2973.2	5211.9	9818.0	15005.5	19580.6
-15°	966.0	1242.1	1556.8	1835.8	2062.6	2379.1	2973.6	4594.5	8746.6	13989.6	18559.1
-17.5°	963.0	1236.5	1547.9	1857.5	2101.9	2381.5	2906.1	3784.7	7522.8	12544.5	17214.2
-20°	952.5	1223.7	1528.6	1868.2	2124.5	2401.2	2886.3	3653.2	6323.4	10737.7	15581.2



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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°	937.3	1203.8	1500.9	1844.6	2150.1	2444.4	2859.4	3478.3	4913.1	8673.6	13559.5
-25°	919.1	1181.8	1471.2	1817.5	2162.1	2472.1	2775.5	3244.8	4085.0	6907.6	11057.3
-27.5°	900.1	1150.6	1439.5	1772.4	2154.9	2458.8	2726.1	3115.4	3709.1	4945.5	8450.1
-30°	876.0	1113.2	1392.9	1714.0	2091.0	2418.3	2696.0	2947.9	3353.4	4096.4	6200.1
-32.5°	846.6	1069.3	1341.0	1647.5	1994.8	2369.6	2626.5	2845.3	3154.2	3609.5	4472.7
-35°	813.4	1030.6	1283.3	1563.6	1880.8	2247.6	2521.9	2753.5	2962.1	3312.6	3864.5
-37.5°	779.4	982.7	1209.1	1474.8	1776.8	2076.3	2400.0	2630.8	2841.0	3061.0	3454.1
-40°	739.8	923.3	1135.3	1381.0	1637.1	1908.8	2209.1	2498.2	2706.0	2935.2	3170.8
-42.5°	696.5	866.8	1056.3	1269.4	1499.2	1743.4	2009.9	2299.6	2578.0	2797.1	3013.8
-45°	661.5	805.8	972.1	1161.9	1359.7	1577.1	1820.1	2073.8	2369.3	2653.1	2853.5
-47.5°	619.2	745.0	898.4	1048.9	1227.9	1421.8	1629.5	1869.7	2117.6	2397.0	2671.1
-50°	578.7	694.1	812.0	947.8	1099.7	1270.1	1455.2	1666.8	1896.0	2124.9	2373.5
-52.5°	551.0	639.3	739.8	846.8	979.6	1125.7	1289.7	1469.3	1670.2	1870.3	2085.8
-55°	520.6	597.0	669.2	759.9	864.3	991.1	1133.4	1290.4	1443.6	1626.2	1809.3
-57.5°	491.0	554.4	612.3	682.0	769.1	862.2	991.6	1122.2	1255.3	1396.7	1551.4
-60°	461.0	512.9	563.5	619.8	683.4	765.8	855.8	965.0	1073.7	1186.6	1323.5
-62.5°	430.9	473.2	516.7	565.2	619.2	674.9	748.4	828.0	904.2	1007.1	1116.2
-65°	406.8	435.9	471.8	514.5	558.0	609.0	660.3	710.1	777.0	855.0	934.1
-67.5°	380.9	408.2	434.6	464.5	503.9	545.9	588.3	633.0	678.3	731.9	789.7
-70°	361.9	381.3	404.7	429.5	455.3	485.8	523.5	560.5	598.7	643.5	689.5
-72.5°	344.0	361.9	379.4	396.7	419.9	445.2	470.2	495.1	526.8	564.9	601.6
-75°	325.7	342.1	358.1	373.9	391.4	410.3	429.8	452.3	477.0	503.4	528.9
-77.5°	307.0	321.5	336.1	350.7	366.7	383.4	400.5	417.6	437.0	457.5	477.3
-80°	287.0	300.5	313.6	326.6	341.1	355.9	371.2	386.5	403.7	421.4	437.8
-82.5°	264.9	276.9	289.1	301.2	314.6	327.8	341.4	354.8	370.0	385.3	399.4
-85°	243.7	253.0	263.8	274.5	286.7	298.8	310.9	322.9	336.8	350.6	362.8
-87.5°	228.0	236.9	245.7	254.4	264.8	275.2	285.6	296.0	308.1	320.4	331.0
-90°	9.1	8.5	8.5	8.5	7.9	7.3	7.3	7.3	6.7	6.1	5.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	318.8	325.5	332.1	337.6	343.0	350.3	357.6	367.3	377.0	386.7	396.4
87.5°	5.9	5.4	4.8	4.7	4.7	4.7	4.7	4.1	3.6	3.6	3.6
85°	6.9	6.7	6.6	6.3	5.9	5.9	5.9	5.9	5.9	5.4	4.8
82.5°	7.3	7.3	7.3	6.7	6.1	6.1	6.1	6.1	6.1	5.5	4.8
80°	7.7	7.6	7.3	7.1	6.9	6.6	6.2	5.6	5.0	4.9	4.8
77.5°	8.6	8.3	7.8	7.6	7.4	6.8	6.2	5.6	4.9	4.8	4.8
75°	9.8	9.4	9.1	8.7	8.1	7.7	7.7	7.3	6.9	6.9	7.1
72.5°	11.7	11.5	11.5	11.8	11.8	12.2	12.7	13.2	13.8	14.7	15.8
70°	17.4	18.6	19.2	19.6	19.5	19.3	19.2	19.5	20.1	20.7	21.2
67.5°	25.5	27.4	28.4	28.9	27.0	25.9	26.0	26.6	27.6	29.2	31.7
65°	33.3	32.8	31.9	31.2	31.5	31.6	31.5	31.8	33.5	36.0	39.1
62.5°	39.1	33.8	30.7	29.2	30.2	32.1	30.8	29.8	31.2	32.8	34.3
60°	44.7	35.0	28.0	25.8	25.4	26.2	24.1	22.2	22.8	23.3	24.1
57.5°	50.0	37.4	26.0	22.1	18.5	16.8	16.2	15.5	15.1	14.7	14.8
55°	54.8	40.7	25.4	22.5	20.0	19.5	17.9	17.0	16.3	16.0	16.4
52.5°	60.7	52.4	41.7	38.8	43.7	44.0	39.0	46.3	51.9	54.5	55.5
50°	99.4	89.0	106.9	105.2	126.2	140.9	135.6	152.1	176.6	192.0	198.4
47.5°	218.4	218.9	254.1	285.3	311.2	345.1	371.0	396.1	431.0	452.7	462.5
45°	414.4	449.7	486.5	540.1	591.6	654.2	729.6	788.9	1026.6	1263.4	1478.8
42.5°	634.4	673.1	727.0	843.8	982.6	1304.0	1878.7	2199.4	2599.7	3035.5	3202.8
40°	817.4	873.6	1021.7	1350.6	2151.8	2914.6	3752.5	4461.0	5088.2	5449.1	5750.6
37.5°	1043.6	1177.7	1852.1	2783.1	3779.1	4735.1	5598.1	6346.9	6996.8	7523.9	8045.6
35°	1373.1	2263.8	3260.0	4470.6	5529.4	6415.0	7309.1	8167.1	8904.2	9691.5	10861.4
32.5°	2603.0	3767.1	5048.6	6133.7	7168.5	8286.0	9225.4	10598.3	11673.5	13108.9	15302.6
30°	4178.0	5639.0	6801.0	7886.4	9213.3	10717.0	12285.7	14385.5	16579.7	18868.6	21224.2
27.5°	6200.3	7675.9	8900.9	10348.7	12100.7	14101.8	17101.0	20060.8	23207.5	26069.9	28245.3
25°	8637.8	10200.5	12294.5	14395.1	16902.4	20322.1	23691.6	27318.1	30473.1	33282.0	36426.4
22.5°	10922.2	13483.9	16249.1	19420.3	23503.3	27360.2	31526.3	35196.3	39155.7	43159.1	46255.4
20°	12850.8	16188.1	20154.7	24726.4	29252.1	33621.2	38469.4	44319.1	50213.5	55479.5	59300.9
17.5°	15452.4	19678.9	24616.3	30050.5	34922.8	40337.1	47084.6	54685.3	62944.8	70252.8	76047.3
15°	18294.9	23230.3	28813.1	34507.0	40671.2	47926.3	56602.7	66309.5	76412.5	86659.9	96206.7
12.5°	20227.4	26009.6	32106.1	38876.3	46564.8	56292.1	66827.6	77588.2	89133.8	101883.9	112958.3
10°	21879.5	28294.3	35649.3	43524.3	52358.9	62815.5	73704.4	86774.5	101185.9	113741.8	125603.5
7.5°	23513.5	31051.2	38734.3	46933.9	56640.2	67997.4	80884.5	94941.1	109607.4	123254.7	132954.9
5°	25447.0	33267.1	40949.7	49611.3	59775.9	71589.5	85182.5	101324.0	116776.6	129321.3	138070.3
2.5°	27045.8	34596.4	42463.1	51035.7	61482.4	73816.9	88569.8	106507.8	122363.7	134093.3	142010.1
0°	27859.8	35447.8	43415.1	52126.8	62836.0	75421.6	91517.6	110361.5	125347.2	136183.0	144661.4
-2.5°	27959.0	35177.2	42997.6	51589.9	62056.6	74891.7	91392.8	110459.3	126123.7	137386.1	145751.0
-5°	27670.0	34820.6	42626.1	51223.6	61548.7	74918.2	91486.3	109820.2	124956.6	136622.4	144500.1
-7.5°	26973.2	34165.8	41985.9	50456.7	60619.5	73585.9	89038.6	105657.1	121226.3	133831.0	141098.2
-10°	25952.3	33019.5	40719.0	48827.9	58412.1	70400.3	84219.9	99434.2	115167.0	127218.9	135599.6
-12.5°	24661.1	31349.6	38709.8	46376.1	55424.9	66593.9	78912.7	91652.4	104840.8	118580.6	127309.5
-15°	23178.7	29290.5	36180.1	43887.6	52833.7	62141.8	71927.0	82306.3	94362.6	105601.4	115762.1
-17.5°	21772.2	27036.0	33464.3	40973.8	48591.7	56679.6	65065.7	73539.8	83207.8	92030.0	99922.2
-20°	20004.5	24486.6	30409.5	37082.0	44160.8	51168.7	58371.9	65237.4	72256.0	79436.9	85704.9



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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°	17921.1	22279.9	27221.5	33031.3	39827.3	46064.4	51833.6	57198.9	62824.6	67793.3	72951.7
-25°	15651.5	19842.4	24383.6	29679.8	34897.7	40552.0	45340.3	49903.1	54266.7	58168.2	62179.4
-27.5°	12864.4	17288.7	21765.0	26003.8	30309.6	34369.5	38833.9	43043.6	46682.7	49901.4	53080.5
-30°	9724.5	14420.4	18654.7	22290.9	25704.5	29090.7	32508.5	36041.0	39486.0	42417.0	45020.9
-32.5°	7174.9	11092.3	15006.3	18569.5	21557.1	24355.8	27013.8	29785.3	32194.8	34668.9	37076.9
-35°	4747.0	7515.9	10765.1	14387.5	17499.0	19853.5	22263.6	24473.1	26289.6	28207.7	30025.5
-37.5°	3995.0	4731.9	6905.5	9846.5	12728.3	15435.7	17839.1	19760.1	21431.8	22964.0	24534.0
-40°	3524.0	3944.3	4562.8	5631.4	8054.9	10436.6	12912.8	14954.7	16735.7	18204.4	19649.9
-42.5°	3214.9	3503.3	3811.4	4232.3	4647.0	5813.5	7846.1	9608.6	11279.1	12933.7	14423.0
-45°	3054.8	3216.7	3392.9	3621.7	3799.1	4115.3	4468.3	4800.0	6129.5	7566.2	8768.7
-47.5°	2862.7	3035.3	3167.0	3274.8	3361.1	3500.0	3646.7	3838.6	4146.3	4509.2	4786.2
-50°	2617.1	2826.7	2958.1	3066.1	3128.1	3181.8	3234.7	3354.9	3521.6	3719.6	3876.6
-52.5°	2299.6	2507.0	2693.1	2833.6	2902.0	2968.8	3035.3	3117.9	3212.8	3327.0	3409.0
-55°	2000.4	2173.6	2334.7	2465.7	2583.8	2691.5	2795.0	2882.5	2984.8	3093.4	3169.9
-57.5°	1716.4	1856.2	1988.3	2101.9	2204.1	2294.6	2400.5	2515.4	2646.3	2771.0	2858.6
-60°	1451.0	1562.2	1672.1	1764.3	1847.5	1921.7	2019.5	2115.9	2230.7	2332.8	2407.1
-62.5°	1213.5	1310.7	1391.9	1461.5	1524.2	1586.3	1668.6	1749.3	1843.6	1925.2	1987.0
-65°	1008.3	1089.4	1146.5	1198.2	1243.6	1296.6	1360.2	1424.9	1499.0	1562.4	1613.1
-67.5°	850.0	904.9	940.9	972.8	1010.5	1052.6	1100.7	1152.4	1210.0	1257.9	1296.7
-70°	730.4	764.6	786.4	810.2	837.7	866.9	899.5	938.3	982.2	1019.6	1051.8
-72.5°	635.7	661.9	679.9	698.3	714.9	734.8	756.6	785.7	818.1	847.3	874.5
-75°	553.6	572.3	589.1	605.1	619.5	636.4	653.9	678.3	704.9	729.0	751.7
-77.5°	498.4	512.9	524.1	534.8	545.2	559.3	573.7	593.4	614.1	634.0	653.3
-80°	454.2	465.3	474.8	482.6	489.9	501.8	514.2	530.3	546.8	564.0	581.1
-82.5°	413.2	423.0	432.0	439.5	446.4	457.2	468.2	482.7	497.1	511.5	525.7
-85°	374.9	383.8	392.3	399.4	406.4	415.1	423.8	436.3	448.8	461.8	474.8
-87.5°	341.6	349.9	358.3	363.8	369.3	377.1	384.9	395.6	406.2	417.4	428.6
-90°	4.8	4.8	4.8	4.2	3.6	3.6	3.6	3.0	2.4	2.4	2.4



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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°	401.3	406.1	408.5	410.9	408.5	406.1	401.3	396.4	386.7	377.0	367.3
87.5°	3.0	2.4	2.4	2.4	2.4	2.4	3.0	3.6	3.6	3.6	4.1
85°	4.2	3.6	4.2	4.8	4.2	3.6	4.2	4.8	5.4	5.9	5.9
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.5	6.1	6.1
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	5.0	5.6
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	5.6
75°	6.7	6.1	6.1	6.1	6.1	6.1	6.7	7.1	6.9	6.9	7.3
72.5°	16.4	16.7	17.5	18.2	17.5	16.7	16.4	15.8	14.7	13.8	13.2
70°	21.5	21.6	21.8	21.8	21.8	21.6	21.5	21.2	20.7	20.1	19.5
67.5°	32.9	33.5	34.9	36.4	34.9	33.5	32.9	31.7	29.2	27.6	26.6
65°	41.3	43.0	43.5	43.6	43.5	43.0	41.3	39.1	36.0	33.5	31.8
62.5°	35.8	37.4	37.7	37.6	37.7	37.4	35.8	34.3	32.8	31.2	29.8
60°	24.9	25.7	26.2	26.7	26.2	25.7	24.9	24.1	23.3	22.8	22.2
57.5°	15.1	15.9	15.9	15.8	15.9	15.9	15.1	14.8	14.7	15.1	15.5
55°	16.6	16.9	16.5	15.8	16.5	16.9	16.6	16.4	16.0	16.3	17.0
52.5°	54.0	51.3	48.6	46.1	48.6	51.3	54.0	55.5	54.5	51.9	46.3
50°	196.3	193.0	188.4	183.0	188.4	193.0	196.3	198.4	192.0	176.6	152.1
47.5°	471.2	472.3	467.7	459.4	467.7	472.3	471.2	462.5	452.7	431.0	396.1
45°	1666.5	1757.2	1806.1	1840.0	1806.1	1757.2	1666.5	1478.8	1263.4	1026.6	788.9
42.5°	3349.0	3476.2	3572.9	3592.8	3572.9	3476.2	3349.0	3202.8	3035.5	2599.7	2199.4
40°	6108.2	6129.5	5775.0	5240.1	5775.0	6129.5	6108.2	5750.6	5449.1	5088.2	4461.0
37.5°	8667.4	9561.8	10600.8	11131.1	10600.8	9561.8	8667.4	8045.6	7523.9	6996.8	6346.9
35°	12439.9	13785.2	14221.6	14232.9	14221.6	13785.2	12439.9	10861.4	9691.5	8904.2	8167.1
32.5°	17281.0	18374.8	18958.8	18800.3	18958.8	18374.8	17281.0	15302.6	13108.9	11673.5	10598.3
30°	22596.9	23548.6	23556.2	23237.9	23556.2	23548.6	22596.9	21224.2	18868.6	16579.7	14385.5
27.5°	30497.0	32508.0	33923.3	34304.7	33923.3	32508.0	30497.0	28245.3	26069.9	23207.5	20060.8
25°	39259.7	41469.5	42828.2	43323.0	42828.2	41469.5	39259.7	36426.4	33282.0	30473.1	27318.1
22.5°	49137.1	51285.6	52266.2	52778.9	52266.2	51285.6	49137.1	46255.4	43159.1	39155.7	35196.3
20°	62943.6	65998.4	67150.0	67642.1	67150.0	65998.4	62943.6	59300.9	55479.5	50213.5	44319.1
17.5°	82068.1	88101.4	91873.7	93811.0	91873.7	88101.4	82068.1	76047.3	70252.8	62944.8	54685.3
15°	103272.1	109397.1	113425.1	115840.4	113425.1	109397.1	103272.1	96206.7	86659.9	76412.5	66309.5
12.5°	121462.6	126922.7	130813.3	133126.1	130813.3	126922.7	121462.6	112958.3	101883.9	89133.8	77588.2
10°	133132.4	137814.9	141851.3	143822.6	141851.3	137814.9	133132.4	125603.5	113741.8	101185.9	86774.5
7.5°	139727.8	145172.5	147360.6	148708.8	147360.6	145172.5	139727.8	132954.9	123254.7	109607.4	94941.1
5°	144839.4	149142.1	151161.9	152147.5	151161.9	149142.1	144839.4	138070.3	129321.3	116776.6	101324.0
2.5°	148251.7	151987.0	153415.4	154210.6	153415.4	151987.0	148251.7	142010.1	134093.3	122363.7	106507.8
0°	149889.3	152643.3	154244.5	153463.9	154244.5	152643.3	149889.3	144661.4	136183.0	125347.2	110361.5
-2.5°	149900.8	152518.5	153708.8	153129.4	153708.8	152518.5	149900.8	145751.0	137386.1	126123.7	110459.3
-5°	148618.3	150571.9	152021.7	151557.2	152021.7	150571.9	148618.3	144500.1	136622.4	124956.6	109820.2
-7.5°	145159.8	147756.3	148818.2	148869.9	148818.2	147756.3	145159.8	141098.2	133831.0	121226.3	105657.1
-10°	140402.1	143280.9	144411.4	144526.8	144411.4	143280.9	140402.1	135599.6	127218.9	115167.0	99434.2
-12.5°	133330.9	136708.0	138335.0	138624.9	138335.0	136708.0	133330.9	127309.5	118580.6	104840.8	91652.4
-15°	122353.9	126905.6	129474.8	130376.3	129474.8	126905.6	122353.9	115762.1	105601.4	94362.6	82306.3
-17.5°	107431.1	112869.4	116073.1	117202.8	116073.1	112869.4	107431.1	99922.2	92030.0	83207.8	73539.8
-20°	91865.2	95897.0	98366.7	99384.4	98366.7	95897.0	91865.2	85704.9	79436.9	72256.0	65237.4



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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°	77706.6	80957.2	82792.2	83607.2	82792.2	80957.2	77706.6	72951.7	67793.3	62824.6	57198.9
-25°	65426.6	68164.5	69105.5	69636.1	69105.5	68164.5	65426.6	62179.4	58168.2	54266.7	49903.1
-27.5°	55393.1	57565.0	58071.8	58540.2	58071.8	57565.0	55393.1	53080.5	49901.4	46682.7	43043.6
-30°	46938.5	48828.6	49086.9	49605.5	49086.9	48828.6	46938.5	45020.9	42417.0	39486.0	36041.0
-32.5°	39032.0	40714.9	41359.6	41458.8	41359.6	40714.9	39032.0	37076.9	34668.9	32194.8	29785.3
-35°	31460.8	32569.9	33008.8	33035.6	33008.8	32569.9	31460.8	30025.5	28207.7	26289.6	24473.1
-37.5°	25508.0	26215.1	26723.4	26583.4	26723.4	26215.1	25508.0	24534.0	22964.0	21431.8	19760.1
-40°	20459.9	21171.2	21635.8	21522.7	21635.8	21171.2	20459.9	19649.9	18204.4	16735.7	14954.7
-42.5°	15244.5	16026.8	16465.9	16344.5	16465.9	16026.8	15244.5	14423.0	12933.7	11279.1	9608.6
-45°	9454.3	10143.9	10467.4	10270.4	10467.4	10143.9	9454.3	8768.7	7566.2	6129.5	4800.0
-47.5°	4932.3	5089.2	5139.4	5069.2	5139.4	5089.2	4932.3	4786.2	4509.2	4146.3	3838.6
-50°	3999.1	4097.5	4139.8	4127.3	4139.8	4097.5	3999.1	3876.6	3719.6	3521.6	3354.9
-52.5°	3473.4	3518.8	3533.9	3524.9	3533.9	3518.8	3473.4	3409.0	3327.0	3212.8	3117.9
-55°	3234.4	3279.6	3295.2	3289.7	3295.2	3279.6	3234.4	3169.9	3093.4	2984.8	2882.5
-57.5°	2931.4	2986.8	3021.1	3038.8	3021.1	2986.8	2931.4	2858.6	2771.0	2646.3	2515.4
-60°	2467.0	2511.4	2524.1	2517.6	2524.1	2511.4	2467.0	2407.1	2332.8	2230.7	2115.9
-62.5°	2035.5	2072.0	2099.2	2117.6	2099.2	2072.0	2035.5	1987.0	1925.2	1843.6	1749.3
-65°	1650.3	1676.6	1682.2	1677.6	1682.2	1676.6	1650.3	1613.1	1562.4	1499.0	1424.9
-67.5°	1323.9	1343.5	1346.1	1341.8	1346.1	1343.5	1323.9	1296.7	1257.9	1210.0	1152.4
-70°	1073.4	1089.9	1092.1	1089.7	1092.1	1089.9	1073.4	1051.8	1019.6	982.2	938.3
-72.5°	890.3	902.4	911.5	918.8	911.5	902.4	890.3	874.5	847.3	818.1	785.7
-75°	763.2	771.9	774.0	774.6	774.0	771.9	763.2	751.7	729.0	704.9	678.3
-77.5°	663.5	672.1	678.3	683.6	678.3	672.1	663.5	653.3	634.0	614.1	593.4
-80°	588.8	595.4	600.4	604.9	600.4	595.4	588.8	581.1	564.0	546.8	530.3
-82.5°	533.0	539.9	544.1	547.9	544.1	539.9	533.0	525.7	511.5	497.1	482.7
-85°	480.4	485.7	489.6	493.3	489.6	485.7	480.4	474.8	461.8	448.8	436.3
-87.5°	433.7	438.7	441.2	443.6	441.2	438.7	433.7	428.6	417.4	406.2	395.6
-90°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.4	2.4	2.4	3.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	357.6	350.3	343.0	337.6	332.1	325.5	318.8	308.5	298.2	287.3	276.4
87.5°	4.7	4.7	4.7	4.7	4.8	5.4	5.9	6.0	6.1	6.7	7.3
85°	5.9	5.9	5.9	6.3	6.6	6.7	6.9	6.8	6.8	7.3	7.8
82.5°	6.1	6.1	6.1	6.7	7.3	7.3	7.3	7.5	7.7	8.1	8.6
80°	6.2	6.6	6.9	7.1	7.3	7.6	7.7	8.1	8.5	8.5	8.6
77.5°	6.2	6.8	7.4	7.6	7.8	8.3	8.6	8.5	8.6	9.0	9.3
75°	7.7	7.7	8.1	8.7	9.1	9.4	9.8	10.0	10.0	10.0	10.2
72.5°	12.7	12.2	11.8	11.8	11.5	11.5	11.7	11.9	11.9	11.4	11.1
70°	19.2	19.3	19.5	19.6	19.2	18.6	17.4	16.0	14.9	14.7	13.7
67.5°	26.0	25.9	27.0	28.9	28.4	27.4	25.5	23.6	21.9	20.4	17.6
65°	31.5	31.6	31.5	31.2	31.9	32.8	33.3	31.5	31.7	28.9	23.1
62.5°	30.8	32.1	30.2	29.2	30.7	33.8	39.1	41.7	44.1	41.5	34.7
60°	24.1	26.2	25.4	25.8	28.0	35.0	44.7	52.3	58.6	54.4	46.6
57.5°	16.2	16.8	18.5	22.1	26.0	37.4	50.0	61.6	69.9	64.9	58.2
55°	17.9	19.5	20.0	22.5	25.4	40.7	54.8	67.0	75.6	73.2	66.4
52.5°	39.0	44.0	43.7	38.8	41.7	52.4	60.7	74.4	82.1	81.9	76.1
50°	135.6	140.9	126.2	105.2	106.9	89.0	99.4	101.9	99.1	100.0	91.3
47.5°	371.0	345.1	311.2	285.3	254.1	218.9	218.4	178.1	172.9	139.6	133.6
45°	729.6	654.2	591.6	540.1	486.5	449.7	414.4	393.1	311.4	280.4	201.7
42.5°	1878.7	1304.0	982.6	843.8	727.0	673.1	634.4	608.2	571.4	474.8	397.9
40°	3752.5	2914.6	2151.8	1350.6	1021.7	873.6	817.4	756.1	749.8	699.8	598.8
37.5°	5598.1	4735.1	3779.1	2783.1	1852.1	1177.7	1043.6	951.6	883.8	865.3	792.5
35°	7309.1	6415.0	5529.4	4470.6	3260.0	2263.8	1373.1	1210.3	1079.7	1003.2	959.5
32.5°	9225.4	8286.0	7168.5	6133.7	5048.6	3767.1	2603.0	1612.7	1324.3	1191.6	1089.0
30°	12285.7	10717.0	9213.3	7886.4	6801.0	5639.0	4178.0	2696.2	1707.4	1386.8	1226.2
27.5°	17101.0	14101.8	12100.7	10348.7	8900.9	7675.9	6200.3	4228.6	2353.2	1692.6	1405.5
25°	23691.6	20322.1	16902.4	14395.1	12294.5	10200.5	8637.8	6252.3	3849.1	2056.2	1605.7
22.5°	31526.3	27360.2	23503.3	19420.3	16249.1	13483.9	10922.2	8298.7	5410.4	2889.8	1945.9
20°	38469.4	33621.2	29252.1	24726.4	20154.7	16188.1	12850.8	10104.5	7091.2	4208.5	2276.3
17.5°	47084.6	40337.1	34922.8	30050.5	24616.3	19678.9	15452.4	12034.1	8661.0	5309.3	2547.2
15°	56602.7	47926.3	40671.2	34507.0	28813.1	23230.3	18294.9	14097.2	10413.8	6473.5	3346.5
12.5°	66827.6	56292.1	46564.8	38876.3	32106.1	26009.6	20227.4	15890.7	12041.3	7873.1	4227.0
10°	73704.4	62815.5	52358.9	43524.3	35649.3	28294.3	21879.5	16997.7	13099.0	9098.4	5089.0
7.5°	80884.5	67997.4	56640.2	46933.9	38734.3	31051.2	23513.5	17853.0	13912.6	10013.2	5758.6
5°	85182.5	71589.5	59775.9	49611.3	40949.7	33267.1	25447.0	18614.7	14584.7	10699.6	6270.6
2.5°	88569.8	73816.9	61482.4	51035.7	42463.1	34596.4	27045.8	19364.0	14946.4	11022.2	6412.9
0°	91517.6	75421.6	62836.0	52126.8	43415.1	35447.8	27859.8	20093.6	15056.0	11102.0	6388.0
-2.5°	91392.8	74891.7	62056.6	51589.9	42997.6	35177.2	27959.0	21031.8	15823.4	11169.4	6397.4
-5°	91486.3	74918.2	61548.7	51223.6	42626.1	34820.6	27670.0	21306.1	16227.4	11078.2	6252.0
-7.5°	89038.6	73585.9	60619.5	50456.7	41985.9	34165.8	26973.2	20961.2	16245.8	11083.3	6015.5
-10°	84219.9	70400.3	58412.1	48827.9	40719.0	33019.5	25952.3	20392.9	15806.0	10643.3	5609.4
-12.5°	78912.7	66593.9	55424.9	46376.1	38709.8	31349.6	24661.1	19580.6	15005.5	9818.0	5211.9
-15°	71927.0	62141.8	52833.7	43887.6	36180.1	29290.5	23178.7	18559.1	13989.6	8746.6	4594.5
-17.5°	65065.7	56679.6	48591.7	40973.8	33464.3	27036.0	21772.2	17214.2	12544.5	7522.8	3784.7
-20°	58371.9	51168.7	44160.8	37082.0	30409.5	24486.6	20004.5	15581.2	10737.7	6323.4	3653.2



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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°	51833.6	46064.4	39827.3	33031.3	27221.5	22279.9	17921.1	13559.5	8673.6	4913.1	3478.3
-25°	45340.3	40552.0	34897.7	29679.8	24383.6	19842.4	15651.5	11057.3	6907.6	4085.0	3244.8
-27.5°	38833.9	34369.5	30309.6	26003.8	21765.0	17288.7	12864.4	8450.1	4945.5	3709.1	3115.4
-30°	32508.5	29090.7	25704.5	22290.9	18654.7	14420.4	9724.5	6200.1	4096.4	3353.4	2947.9
-32.5°	27013.8	24355.8	21557.1	18569.5	15006.3	11092.3	7174.9	4472.7	3609.5	3154.2	2845.3
-35°	22263.6	19853.5	17499.0	14387.5	10765.1	7515.9	4747.0	3864.5	3312.6	2962.1	2753.5
-37.5°	17839.1	15435.7	12728.3	9846.5	6905.5	4731.9	3995.0	3454.1	3061.0	2841.0	2630.8
-40°	12912.8	10436.6	8054.9	5631.4	4562.8	3944.3	3524.0	3170.8	2935.2	2706.0	2498.2
-42.5°	7846.1	5813.5	4647.0	4232.3	3811.4	3503.3	3214.9	3013.8	2797.1	2578.0	2299.6
-45°	4468.3	4115.3	3799.1	3621.7	3392.9	3216.7	3054.8	2853.5	2653.1	2369.3	2073.8
-47.5°	3646.7	3500.0	3361.1	3274.8	3167.0	3035.3	2862.7	2671.1	2397.0	2117.6	1869.7
-50°	3234.7	3181.8	3128.1	3066.1	2958.1	2826.7	2617.1	2373.5	2124.9	1896.0	1666.8
-52.5°	3035.3	2968.8	2902.0	2833.6	2693.1	2507.0	2299.6	2085.8	1870.3	1670.2	1469.3
-55°	2795.0	2691.5	2583.8	2465.7	2334.7	2173.6	2000.4	1809.3	1626.2	1443.6	1290.4
-57.5°	2400.5	2294.6	2204.1	2101.9	1988.3	1856.2	1716.4	1551.4	1396.7	1255.3	1122.2
-60°	2019.5	1921.7	1847.5	1764.3	1672.1	1562.2	1451.0	1323.5	1186.6	1073.7	965.0
-62.5°	1668.6	1586.3	1524.2	1461.5	1391.9	1310.7	1213.5	1116.2	1007.1	904.2	828.0
-65°	1360.2	1296.6	1243.6	1198.2	1146.5	1089.4	1008.3	934.1	855.0	777.0	710.1
-67.5°	1100.7	1052.6	1010.5	972.8	940.9	904.9	850.0	789.7	731.9	678.3	633.0
-70°	899.5	866.9	837.7	810.2	786.4	764.6	730.4	689.5	643.5	598.7	560.5
-72.5°	756.6	734.8	714.9	698.3	679.9	661.9	635.7	601.6	564.9	526.8	495.1
-75°	653.9	636.4	619.5	605.1	589.1	572.3	553.6	528.9	503.4	477.0	452.3
-77.5°	573.7	559.3	545.2	534.8	524.1	512.9	498.4	477.3	457.5	437.0	417.6
-80°	514.2	501.8	489.9	482.6	474.8	465.3	454.2	437.8	421.4	403.7	386.5
-82.5°	468.2	457.2	446.4	439.5	432.0	423.0	413.2	399.4	385.3	370.0	354.8
-85°	423.8	415.1	406.4	399.4	392.3	383.8	374.9	362.8	350.6	336.8	322.9
-87.5°	384.9	377.1	369.3	363.8	358.3	349.9	341.6	331.0	320.4	308.1	296.0
-90°	3.6	3.6	3.6	4.2	4.8	4.8	4.8	5.5	6.1	6.7	7.3





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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°	266.1	255.8	246.1	236.4	228.5	220.6	212.1	203.6	189.7	175.8	156.4
87.5°	7.7	8.1	8.6	9.2	9.1	9.1	9.7	10.2	10.4	10.5	11.0
85°	8.3	8.9	9.2	9.7	9.8	9.7	10.2	10.7	11.1	11.4	11.8
82.5°	9.2	9.6	9.6	9.8	10.5	10.9	11.0	11.3	11.8	12.2	12.5
80°	9.2	9.8	10.0	10.2	11.2	12.1	11.8	11.9	12.6	13.0	13.2
77.5°	9.7	10.1	10.5	10.9	11.5	12.2	12.3	12.5	13.3	13.9	14.0
75°	10.6	10.7	10.8	11.2	11.9	12.3	12.7	13.1	14.0	14.7	14.8
72.5°	11.5	11.4	11.2	11.5	12.4	13.1	13.4	13.7	14.6	15.3	15.6
70°	12.9	12.3	11.9	12.3	13.1	14.0	14.5	14.9	15.2	16.0	16.5
67.5°	14.5	13.8	13.0	13.3	14.0	15.1	15.7	16.2	16.6	16.9	17.4
65°	20.0	17.5	14.5	15.2	15.4	16.5	17.4	18.0	18.0	18.5	18.5
62.5°	28.1	23.7	21.1	18.6	18.3	19.8	19.5	21.0	19.9	20.3	20.1
60°	38.4	31.6	28.5	25.8	24.1	24.1	24.8	24.4	24.0	22.2	21.9
57.5°	48.0	39.0	38.0	34.4	33.3	31.5	31.7	31.0	29.2	27.3	24.0
55°	56.8	49.0	49.1	46.5	45.4	41.8	41.5	39.9	36.1	33.8	26.6
52.5°	65.9	63.0	62.2	63.0	62.1	55.7	55.1	49.9	47.0	41.1	33.4
50°	79.9	82.6	79.6	84.3	81.7	77.7	69.9	64.5	58.6	49.9	40.8
47.5°	116.0	118.0	109.0	112.4	108.2	102.5	92.1	80.8	70.9	61.3	48.4
45°	201.6	173.4	162.5	152.0	142.6	134.9	118.3	98.0	86.7	72.8	56.1
42.5°	319.0	280.5	250.1	197.8	194.0	172.6	147.7	124.1	103.1	84.7	65.5
40°	503.0	431.5	365.2	307.3	257.9	214.3	186.6	153.1	120.1	98.0	76.2
37.5°	698.9	608.1	521.3	432.2	342.7	281.8	229.8	183.7	140.5	113.4	87.1
35°	873.2	792.5	672.5	568.8	466.1	352.5	276.2	219.1	168.1	129.2	98.1
32.5°	1022.9	945.6	815.0	699.8	566.2	425.0	334.5	259.3	196.3	145.4	109.7
30°	1143.2	1055.3	945.8	803.8	649.6	506.8	395.5	298.8	224.9	162.0	122.0
27.5°	1260.7	1161.0	1061.1	899.2	727.2	577.1	446.2	337.4	253.8	180.5	135.4
25°	1401.3	1271.4	1161.4	1002.9	803.3	633.8	491.7	375.4	284.9	202.0	148.2
22.5°	1576.6	1380.0	1263.2	1112.0	890.2	689.7	536.2	415.4	311.7	222.3	160.6
20°	1729.8	1476.2	1360.7	1213.3	984.5	761.1	582.0	448.9	337.0	241.3	172.3
17.5°	1891.4	1577.1	1423.2	1285.3	1076.3	833.2	630.1	480.6	360.8	259.0	183.4
15°	2108.4	1685.9	1480.4	1347.5	1154.8	902.3	677.0	510.6	383.0	275.4	194.2
12.5°	2286.6	1787.3	1536.9	1396.2	1215.6	965.1	722.0	538.8	403.4	291.9	204.8
10°	2458.3	1895.6	1598.3	1442.3	1266.9	1021.3	764.4	568.5	427.5	308.3	214.8
7.5°	2647.3	1997.6	1657.5	1486.3	1310.1	1068.2	808.0	604.1	450.9	323.4	224.1
5°	2800.1	2088.1	1718.5	1535.5	1351.7	1104.3	847.4	637.5	472.5	337.2	232.6
2.5°	2844.2	2163.9	1778.0	1581.9	1387.1	1132.6	881.9	668.3	492.0	349.4	240.4
0°	2855.8	2225.5	1831.5	1623.1	1415.8	1154.0	911.5	695.8	509.1	360.0	247.3
-2.5°	2916.2	2275.2	1879.4	1682.2	1467.0	1181.6	928.3	710.0	523.6	372.3	257.3
-5°	2949.9	2310.1	1921.9	1734.6	1509.1	1202.3	940.0	720.5	535.3	382.8	266.4
-7.5°	2968.8	2335.4	1960.5	1778.2	1540.0	1215.3	946.7	727.3	544.1	391.3	274.5
-10°	2959.7	2347.6	1993.5	1802.7	1554.5	1227.7	950.1	730.6	550.0	397.8	281.6
-12.5°	2973.2	2350.4	2019.9	1820.9	1559.7	1239.1	961.6	735.7	553.2	402.2	287.5
-15°	2973.6	2379.1	2062.6	1835.8	1556.8	1242.1	966.0	738.4	554.1	404.6	292.3
-17.5°	2906.1	2381.5	2101.9	1857.5	1547.9	1236.5	963.0	735.3	551.7	405.2	296.4
-20°	2886.3	2401.2	2124.5	1868.2	1528.6	1223.7	952.5	726.1	546.0	403.7	299.9



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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°	2859.4	2444.4	2150.1	1844.6	1500.9	1203.8	937.3	711.6	537.0	400.1	302.3
-25°	2775.5	2472.1	2162.1	1817.5	1471.2	1181.8	919.1	698.9	524.6	394.4	303.6
-27.5°	2726.1	2458.8	2154.9	1772.4	1439.5	1150.6	900.1	689.5	516.2	386.7	303.8
-30°	2696.0	2418.3	2091.0	1714.0	1392.9	1113.2	876.0	675.0	509.5	383.4	303.0
-32.5°	2626.5	2369.6	1994.8	1647.5	1341.0	1069.3	846.6	654.9	499.3	383.1	302.2
-35°	2521.9	2247.6	1880.8	1563.6	1283.3	1030.6	813.4	629.1	485.5	380.9	301.1
-37.5°	2400.0	2076.3	1776.8	1474.8	1209.1	982.7	779.4	605.7	468.3	376.8	299.2
-40°	2209.1	1908.8	1637.1	1381.0	1135.3	923.3	739.8	583.2	457.8	370.8	296.1
-42.5°	2009.9	1743.4	1499.2	1269.4	1056.3	866.8	696.5	556.8	449.2	365.0	291.8
-45°	1820.1	1577.1	1359.7	1161.9	972.1	805.8	661.5	529.1	438.1	358.5	287.6
-47.5°	1629.5	1421.8	1227.9	1048.9	898.4	745.0	619.2	513.5	424.7	350.5	284.2
-50°	1455.2	1270.1	1099.7	947.8	812.0	694.1	578.7	495.2	412.6	340.3	279.8
-52.5°	1289.7	1125.7	979.6	846.8	739.8	639.3	551.0	473.0	398.3	331.7	274.4
-55°	1133.4	991.1	864.3	759.9	669.2	597.0	520.6	450.8	381.8	323.2	268.4
-57.5°	991.6	862.2	769.1	682.0	612.3	554.4	491.0	426.6	368.8	313.5	265.4
-60°	855.8	765.8	683.4	619.8	563.5	512.9	461.0	403.4	356.0	303.8	261.1
-62.5°	748.4	674.9	619.2	565.2	516.7	473.2	430.9	385.0	341.2	297.6	256.0
-65°	660.3	609.0	558.0	514.5	471.8	435.9	406.8	365.4	329.7	290.5	250.0
-67.5°	588.3	545.9	503.9	464.5	434.6	408.2	380.9	350.1	318.8	282.7	242.9
-70°	523.5	485.8	455.3	429.5	404.7	381.3	361.9	336.4	307.1	273.2	235.1
-72.5°	470.2	445.2	419.9	396.7	379.4	361.9	344.0	321.8	293.9	262.9	226.6
-75°	429.8	410.3	391.4	373.9	358.1	342.1	325.7	306.4	280.2	251.9	216.7
-77.5°	400.5	383.4	366.7	350.7	336.1	321.5	307.0	290.5	265.5	238.8	206.0
-80°	371.2	355.9	341.1	326.6	313.6	300.5	287.0	271.9	248.6	225.0	194.7
-82.5°	341.4	327.8	314.6	301.2	289.1	276.9	264.9	252.0	231.4	210.6	184.0
-85°	310.9	298.8	286.7	274.5	263.8	253.0	243.7	233.9	216.6	199.2	175.2
-87.5°	285.6	275.2	264.8	254.4	245.7	236.9	228.0	218.9	203.3	187.7	165.9
-90°	7.3	7.3	7.9	8.5	8.5	8.5	9.1	9.7	9.7	9.7	10.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	137.0	113.3	89.7	64.2	38.8	26.0	13.3
87.5°	11.5	11.4	11.3	11.3	11.2	12.4	13.3
85°	12.1	11.9	11.7	11.7	11.5	12.6	13.3
82.5°	12.8	12.5	12.2	12.1	11.9	12.9	13.3
80°	13.4	13.0	12.6	12.5	12.2	13.2	13.3
77.5°	14.1	13.6	13.0	12.9	12.6	13.5	13.3
75°	14.8	14.4	13.5	13.3	12.9	13.7	13.3
72.5°	15.5	15.3	14.4	13.7	13.3	14.0	13.3
70°	16.3	16.1	15.3	14.1	13.7	14.3	13.3
67.5°	17.4	17.0	16.1	14.9	14.1	14.6	13.3
65°	18.5	18.0	17.0	15.6	14.5	14.9	13.3
62.5°	19.6	19.0	17.9	16.3	15.0	15.2	13.3
60°	20.7	20.0	18.8	17.0	15.5	15.4	13.3
57.5°	23.0	21.0	20.0	17.7	16.3	15.7	13.3
55°	25.7	22.1	21.3	18.4	17.1	16.0	13.3
52.5°	28.6	23.5	22.7	19.1	18.0	16.3	13.3
50°	31.7	26.8	24.2	19.8	18.9	16.6	13.3
47.5°	35.6	30.4	25.8	20.6	19.9	16.9	13.3
45°	42.3	34.1	27.6	22.0	20.9	17.2	13.3
42.5°	49.0	38.0	29.4	23.3	22.0	17.5	13.3
40°	56.1	42.1	31.9	25.3	23.1	17.8	13.3
37.5°	63.8	46.3	35.1	27.8	24.2	18.1	13.3
35°	71.6	51.9	38.4	30.2	25.4	18.4	13.3
32.5°	80.0	58.1	41.7	32.8	26.7	18.7	13.3
30°	89.8	64.2	45.0	35.4	27.9	19.0	13.3
27.5°	99.3	70.3	49.4	38.0	29.2	19.3	13.3
25°	108.6	76.2	53.9	40.6	30.5	19.6	13.3
22.5°	117.6	82.3	58.3	43.3	31.7	19.8	13.3
20°	126.4	88.9	62.6	45.9	33.0	20.1	13.3
17.5°	135.1	95.2	66.8	48.6	34.3	20.3	13.3
15°	143.5	101.3	70.9	51.2	35.6	20.6	13.3
12.5°	151.4	107.0	74.8	53.8	36.8	20.8	13.3
10°	158.9	112.5	78.6	56.3	38.1	21.0	13.3
7.5°	165.7	117.6	82.3	58.7	39.2	21.3	13.3
5°	172.1	122.4	85.7	61.1	40.3	21.5	13.3
2.5°	177.8	126.8	89.0	63.4	41.4	21.6	13.3
0°	183.0	130.9	92.1	65.5	42.4	21.8	13.3
-2.5°	190.8	136.9	96.4	68.4	44.2	22.6	13.3
-5°	198.0	142.5	100.4	71.1	45.9	23.5	13.3
-7.5°	204.4	147.6	104.2	73.7	47.6	24.3	13.3
-10°	210.2	152.3	107.8	76.1	49.1	25.0	13.3
-12.5°	215.2	156.5	111.1	78.4	50.6	25.8	13.3
-15°	219.4	160.1	114.1	80.5	51.9	26.5	13.3
-17.5°	222.8	163.3	116.7	82.4	53.2	27.2	13.3
-20°	225.9	165.8	119.1	84.2	54.3	27.8	13.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	229.0	167.8	121.1	85.7	55.3	28.4	13.3
-25°	231.2	170.1	122.8	87.1	56.2	28.9	13.3
-27.5°	232.6	172.3	124.2	88.2	57.0	29.5	13.3
-30°	233.0	174.0	125.3	89.2	57.6	29.9	13.3
-32.5°	232.6	175.1	127.4	89.9	58.1	30.3	13.3
-35°	232.6	175.6	129.2	90.5	58.5	30.7	13.3
-37.5°	232.6	176.2	130.6	90.8	58.8	31.0	13.3
-40°	231.9	177.5	131.7	90.9	59.0	31.3	13.3
-42.5°	230.6	178.4	132.6	91.1	59.0	31.5	13.3
-45°	228.6	178.9	133.3	91.7	58.8	31.7	13.3
-47.5°	225.8	178.9	133.6	91.9	58.6	31.8	13.3
-50°	224.8	178.4	133.4	91.9	58.2	31.8	13.3
-52.5°	223.5	177.6	132.7	91.8	57.7	31.8	13.3
-55°	221.7	176.0	131.7	91.4	57.1	31.7	13.3
-57.5°	219.3	173.8	130.2	90.7	56.3	31.6	13.3
-60°	216.2	171.2	128.3	89.8	55.4	31.5	13.3
-62.5°	212.1	168.0	126.5	88.6	54.7	31.3	13.3
-65°	207.5	164.4	124.4	87.2	53.8	31.0	13.3
-67.5°	202.3	160.5	121.9	85.5	52.8	30.7	13.3
-70°	196.5	156.2	119.0	83.6	51.6	30.3	13.3
-72.5°	189.6	151.3	115.9	81.8	50.4	29.9	13.3
-75°	182.0	146.0	112.4	79.8	49.0	29.5	13.3
-77.5°	173.8	140.2	109.2	77.7	47.5	29.0	13.3
-80°	165.1	135.0	105.7	75.3	45.9	28.5	13.3
-82.5°	158.3	130.0	102.1	72.8	44.2	27.9	13.3
-85°	151.5	124.7	98.2	70.1	42.5	27.3	13.3
-87.5°	144.4	119.1	94.0	67.3	40.7	26.7	13.3
-90°	10.9	10.9	10.9	10.9	10.9	12.1	13.3

(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

