

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: P701495 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-80-3S-HEG-S**

Issue Date: 8/15/2023

**Test Information**

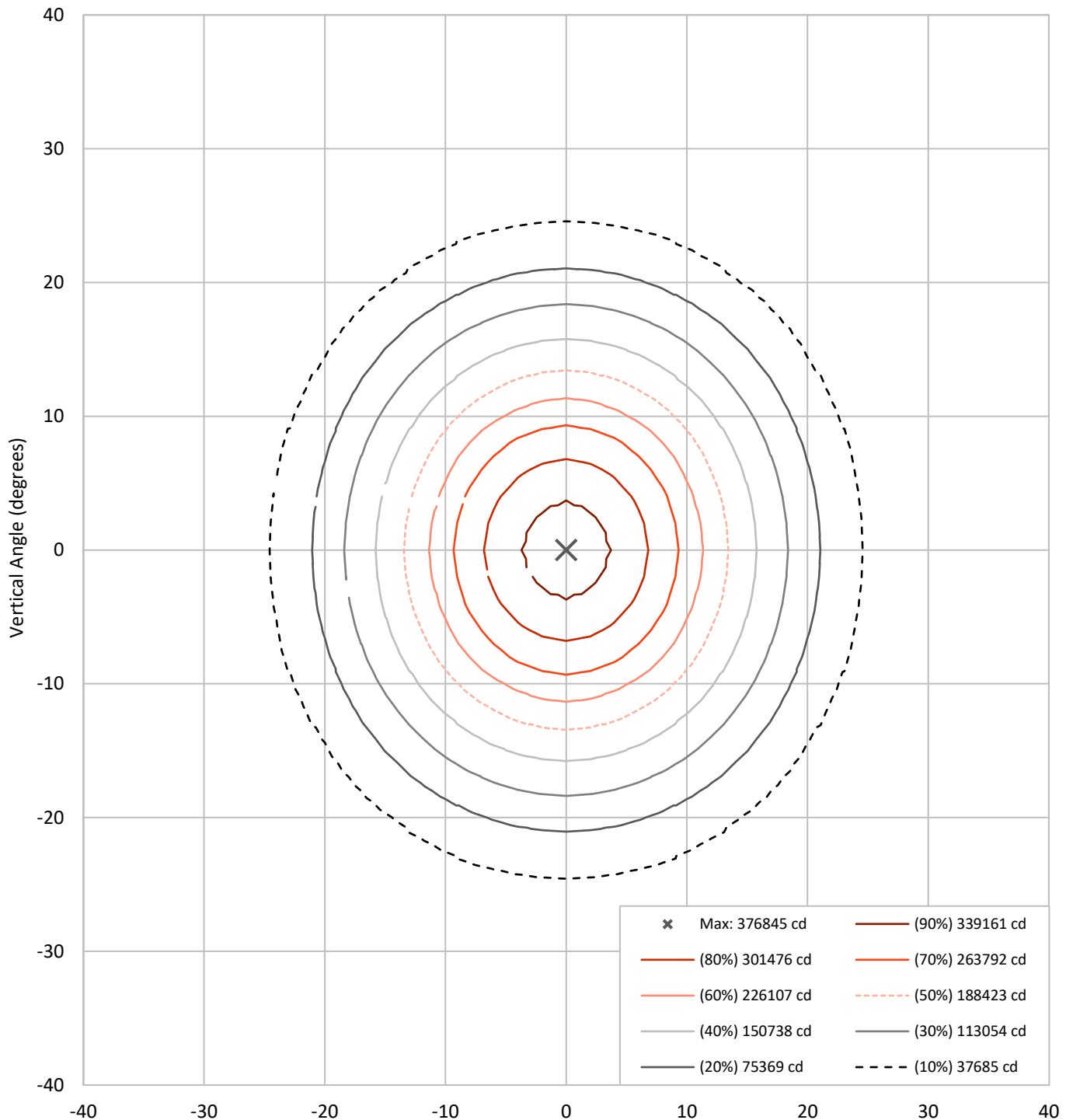
Test Method: LM-79-08  
Report Number: P701495 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-57-80-3S-HEG-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 3S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	101780.8 lumens	Max Intensity:	376845 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	145.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	44130.6 lumens	Field Lumens:	84488.1 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%
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





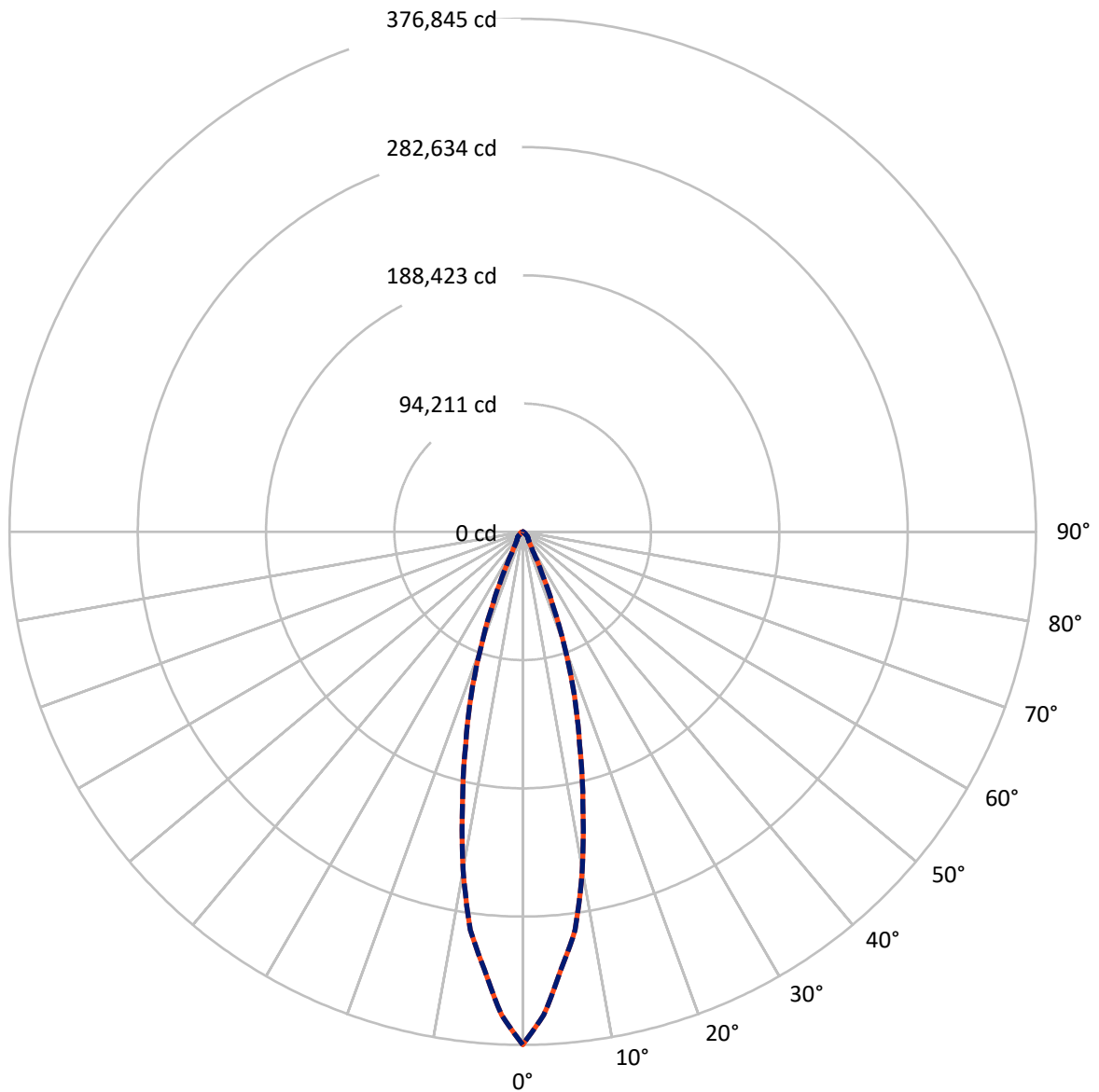
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### Lumen Table

90																			
80	0.1	0.9		3.5		9.2		12.2		9.2		3.5		0.9	0.1				
70																			
60	0.4	0.5	2.2	6.8	13.3	20.2	25.8	29.0	29.0	25.8	20.2	13.3	6.8	2.2	0.5	0.4			
50		1.7	7.9	18.6	31.8	45.4	56.3	62.2	62.2	56.3	45.4	31.8	18.6	7.9	1.7				
40	1.2	4.2	15.2	32.2	53.3	83.9	120.1	141.0	141.0	120.1	83.9	53.3	32.2	15.2	4.2	1.2			
30		7.1	22.5	46.1	94.1	154.9	199.3	234.1	234.1	199.3	154.9	94.1	46.1	22.5	7.1				
20	2.7	9.7	29.1	66.0	140.3	222.1	513.5	1056.0	1056.0	513.5	222.1	140.3	66.0	29.1	9.7	2.7			
10		11.6	33.8	88.9	169.6	484.7	2246.3	4498.4	4498.4	2246.3	484.7	169.6	88.9	33.8	11.6				
0	3.4	12.7	36.2	101.0	193.5	972.1	4375.2	8628.9	8628.9	4375.2	972.1	193.5	101.0	36.2	12.7	3.4			
-10		12.7	36.2	101.0	193.5	972.1	4375.2	8628.9	8628.9	4375.2	972.1	193.5	101.0	36.2	12.7				
-20	2.7	11.6	33.8	88.9	169.6	484.7	2246.3	4498.4	4498.4	2246.3	484.7	169.6	88.9	33.8	11.6	2.7			
-30		9.7	29.1	66.0	140.3	222.1	513.5	1056.0	1056.0	513.5	222.1	140.3	66.0	29.1	9.7				
-40	1.2	7.1	22.5	46.1	94.1	154.9	199.3	234.1	234.1	199.3	154.9	94.1	46.1	22.5	7.1	1.2			
-50		4.2	15.2	32.2	53.3	83.9	120.1	141.0	141.0	120.1	83.9	53.3	32.2	15.2	4.2				
-60	0.4	1.7	7.9	18.6	31.8	45.4	56.3	62.2	62.2	56.3	45.4	31.8	18.6	7.9	1.7	0.4			
-70		0.5	2.2	6.8	13.3	20.2	25.8	29.0	29.0	25.8	20.2	13.3	6.8	2.2	0.5				
-80	0.1	0.9		3.5		9.2		12.2		9.2		3.5		0.9	0.1				
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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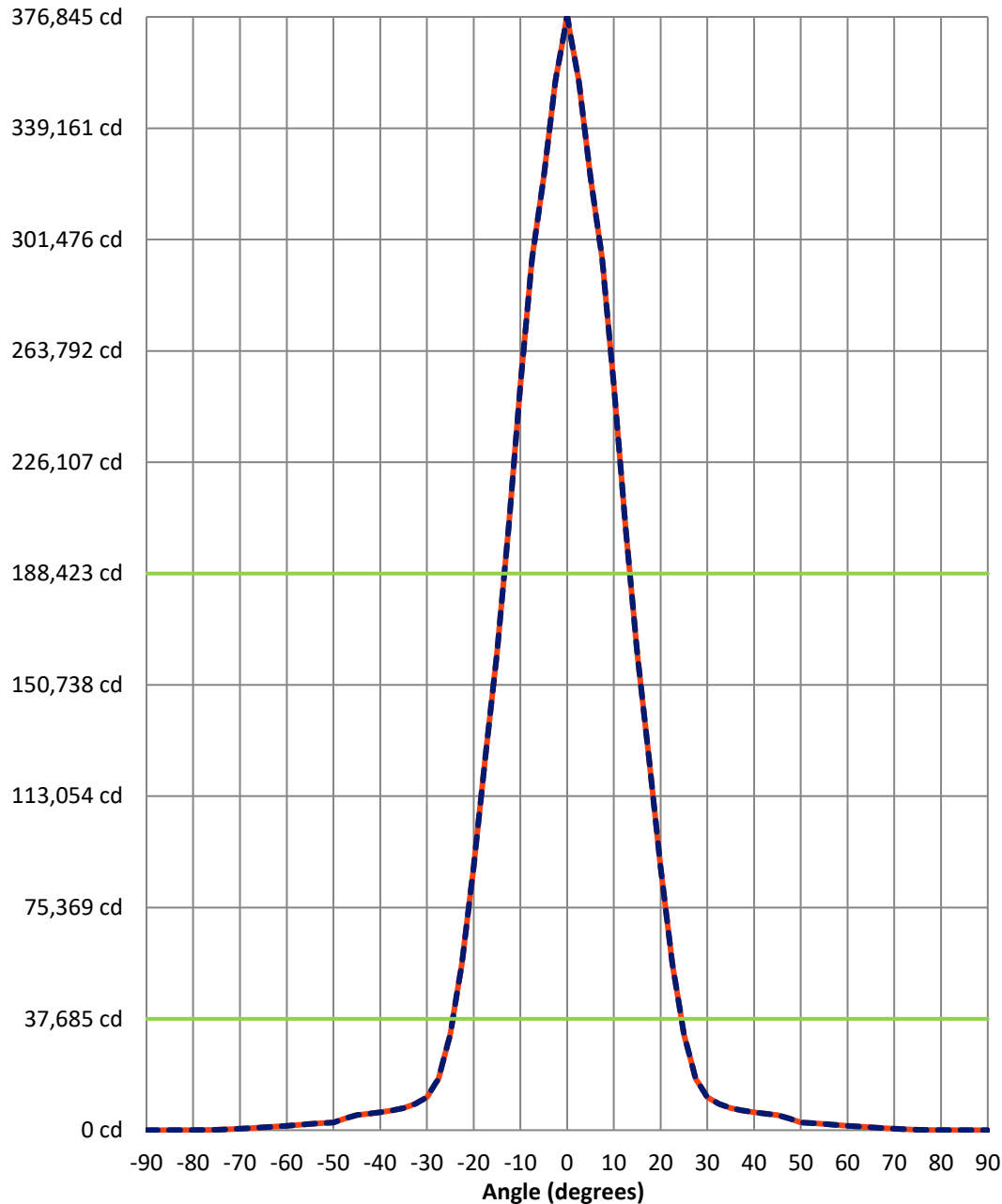
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 26.9°  
V Angle: 26.9°  
Lumens: 44130.6  
Efficiency: 43.4%

**Field:**  
H Angle: 48.9°  
V Angle: 48.9°  
Lumens: 84488.1  
Efficiency: 83.0%

**Spill:**  
Lumens: 17292.8  
Efficiency: 17.0%

— 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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.6	2.9
85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.1	4.7	5.3	5.8
82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.3	6.2	7.0	7.6	8.3
80°	0.0	1.2	2.4	3.6	4.8	5.9	7.1	7.9	8.7	9.6	10.4
77.5°	0.0	1.5	3.0	4.5	5.9	7.3	8.4	9.4	10.5	11.5	12.9
75°	0.0	1.8	3.6	5.3	7.1	8.4	9.6	10.9	12.3	14.4	16.4
72.5°	0.0	2.1	4.1	6.2	7.9	9.4	10.9	12.6	15.1	17.5	19.9
70°	0.0	2.4	4.7	7.0	8.7	10.5	12.3	15.1	17.9	20.7	24.5
67.5°	0.0	2.6	5.3	7.6	9.6	11.5	14.4	17.5	20.7	25.0	29.2
65°	0.0	2.9	5.8	8.3	10.4	12.9	16.4	19.9	24.5	29.2	35.3
62.5°	0.0	3.2	6.4	8.8	11.2	14.5	18.4	22.9	28.2	34.2	44.5
60°	0.0	3.4	6.9	9.4	12.0	16.2	20.4	26.1	31.8	42.4	53.6
57.5°	0.0	3.7	7.3	10.0	13.2	17.8	22.9	29.2	38.2	50.4	77.0
55°	0.0	4.0	7.6	10.6	14.5	19.3	25.5	32.2	45.1	62.4	106.8
52.5°	0.0	4.2	8.0	11.1	15.7	20.9	28.1	37.8	51.9	88.4	135.7
50°	0.0	4.4	8.4	11.6	16.8	23.0	30.5	43.5	63.1	113.7	188.3
47.5°	0.0	4.7	8.7	12.2	18.0	24.9	33.2	49.0	84.8	138.2	242.2
45°	0.0	4.9	9.0	13.0	19.1	26.8	37.7	54.4	105.7	184.2	294.1
42.5°	0.0	5.1	9.3	13.8	20.1	28.6	42.1	66.7	125.7	229.0	355.2
40°	0.0	5.3	9.6	14.5	21.3	30.3	46.3	83.4	151.0	271.9	415.6
37.5°	0.0	5.5	9.9	15.2	22.6	32.0	50.3	99.3	187.1	315.7	473.2
35°	0.0	5.7	10.2	15.9	23.8	34.5	54.0	114.4	221.4	364.6	527.3
32.5°	0.0	5.8	10.4	16.5	25.0	37.5	60.1	128.6	253.6	410.7	577.5
30°	0.0	6.0	10.6	17.1	26.1	40.2	71.4	144.9	283.8	453.8	624.7
27.5°	0.0	6.1	10.8	17.7	27.1	42.8	81.9	169.3	314.6	494.0	668.5
25°	0.0	6.3	11.0	18.2	28.0	45.1	91.6	191.7	347.2	530.4	709.4
22.5°	0.0	6.4	11.2	18.6	28.8	47.2	100.4	212.2	377.0	563.4	756.2
20°	0.0	6.5	11.4	19.0	29.6	49.2	108.3	230.7	403.9	593.1	798.5
17.5°	0.0	6.6	11.5	19.4	30.3	50.9	115.4	247.1	427.8	619.6	836.0
15°	0.0	6.7	11.7	19.7	30.9	52.3	121.5	261.4	448.6	642.7	868.8
12.5°	0.0	6.7	11.8	20.0	31.4	53.6	126.7	273.6	466.3	662.3	896.7
10°	0.0	6.8	11.8	20.2	31.8	54.6	131.0	283.6	480.9	678.4	919.7
7.5°	0.0	6.8	11.9	20.4	32.1	55.5	134.4	291.3	492.2	691.0	937.6
5°	0.0	6.9	12.0	20.5	32.3	56.0	136.8	296.9	500.4	700.1	950.5
2.5°	0.0	6.9	12.0	20.6	32.5	56.4	138.2	300.3	505.3	705.5	958.2
0°	0.0	6.9	12.0	20.6	32.5	56.4	138.2	300.3	505.3	705.5	958.2
-2.5°	0.0	6.9	12.0	20.6	32.5	56.4	138.2	300.3	505.3	705.5	958.2
-5°	0.0	6.9	12.0	20.5	32.3	56.0	136.8	296.9	500.4	700.1	950.5
-7.5°	0.0	6.8	11.9	20.4	32.1	55.5	134.4	291.3	492.2	691.0	937.6
-10°	0.0	6.8	11.8	20.2	31.8	54.6	131.0	283.6	480.9	678.4	919.7
-12.5°	0.0	6.7	11.8	20.0	31.4	53.6	126.7	273.6	466.3	662.3	896.7
-15°	0.0	6.7	11.7	19.7	30.9	52.3	121.5	261.4	448.6	642.7	868.8
-17.5°	0.0	6.6	11.5	19.4	30.3	50.9	115.4	247.1	427.8	619.6	836.0
-20°	0.0	6.5	11.4	19.0	29.6	49.2	108.3	230.7	403.9	593.1	798.5



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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°	0.0	6.4	11.2	18.6	28.8	47.2	100.4	212.2	377.0	563.4	756.2
-25°	0.0	6.3	11.0	18.2	28.0	45.1	91.6	191.7	347.2	530.4	709.4
-27.5°	0.0	6.1	10.8	17.7	27.1	42.8	81.9	169.3	314.6	494.0	668.5
-30°	0.0	6.0	10.6	17.1	26.1	40.2	71.4	144.9	283.8	453.8	624.7
-32.5°	0.0	5.8	10.4	16.5	25.0	37.5	60.1	128.6	253.6	410.7	577.5
-35°	0.0	5.7	10.2	15.9	23.8	34.5	54.0	114.4	221.4	364.6	527.3
-37.5°	0.0	5.5	9.9	15.2	22.6	32.0	50.3	99.3	187.1	315.7	473.2
-40°	0.0	5.3	9.6	14.5	21.3	30.3	46.3	83.4	151.0	271.9	415.6
-42.5°	0.0	5.1	9.3	13.8	20.1	28.6	42.1	66.7	125.7	229.0	355.2
-45°	0.0	4.9	9.0	13.0	19.1	26.8	37.7	54.4	105.7	184.2	294.1
-47.5°	0.0	4.7	8.7	12.2	18.0	24.9	33.2	49.0	84.8	138.2	242.2
-50°	0.0	4.4	8.4	11.6	16.8	23.0	30.5	43.5	63.1	113.7	188.3
-52.5°	0.0	4.2	8.0	11.1	15.7	20.9	28.1	37.8	51.9	88.4	135.7
-55°	0.0	4.0	7.6	10.6	14.5	19.3	25.5	32.2	45.1	62.4	106.8
-57.5°	0.0	3.7	7.3	10.0	13.2	17.8	22.9	29.2	38.2	50.4	77.0
-60°	0.0	3.4	6.9	9.4	12.0	16.2	20.4	26.1	31.8	42.4	53.6
-62.5°	0.0	3.2	6.4	8.8	11.2	14.5	18.4	22.9	28.2	34.2	44.5
-65°	0.0	2.9	5.8	8.3	10.4	12.9	16.4	19.9	24.5	29.2	35.3
-67.5°	0.0	2.6	5.3	7.6	9.6	11.5	14.4	17.5	20.7	25.0	29.2
-70°	0.0	2.4	4.7	7.0	8.7	10.5	12.3	15.1	17.9	20.7	24.5
-72.5°	0.0	2.1	4.1	6.2	7.9	9.4	10.9	12.6	15.1	17.5	19.9
-75°	0.0	1.8	3.6	5.3	7.1	8.4	9.6	10.9	12.3	14.4	16.4
-77.5°	0.0	1.5	3.0	4.5	5.9	7.3	8.4	9.4	10.5	11.5	12.9
-80°	0.0	1.2	2.4	3.6	4.8	5.9	7.1	7.9	8.7	9.6	10.4
-82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.3	6.2	7.0	7.6	8.3
-85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.1	4.7	5.3	5.8
-87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.6	2.9
-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):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	3.4	3.7	4.0	4.2	4.4	4.7	4.9	5.1	5.3	5.5
85°	6.4	6.9	7.3	7.6	8.0	8.4	8.7	9.0	9.3	9.6	9.9
82.5°	8.8	9.4	10.0	10.6	11.1	11.6	12.2	13.0	13.8	14.5	15.2
80°	11.2	12.0	13.2	14.5	15.7	16.8	18.0	19.1	20.1	21.3	22.6
77.5°	14.5	16.2	17.8	19.3	20.9	23.0	24.9	26.8	28.6	30.3	32.0
75°	18.4	20.4	22.9	25.5	28.1	30.5	33.2	37.7	42.1	46.3	50.3
72.5°	22.9	26.1	29.2	32.2	37.8	43.5	49.0	54.4	66.7	83.4	99.3
70°	28.2	31.8	38.2	45.1	51.9	63.1	84.8	105.7	125.7	151.0	187.1
67.5°	34.2	42.4	50.4	62.4	88.4	113.7	138.2	184.2	229.0	271.9	315.7
65°	44.5	53.6	77.0	106.8	135.7	188.3	242.2	294.1	355.2	415.6	473.2
62.5°	54.7	84.4	117.8	162.0	225.0	286.2	357.0	429.4	499.0	564.2	626.3
60°	84.4	121.5	176.7	247.1	319.6	403.9	485.7	563.4	637.7	709.4	795.6
57.5°	117.8	176.7	254.5	338.4	432.3	523.3	609.8	693.6	792.2	890.3	984.7
55°	162.0	247.1	338.4	441.8	541.9	637.9	737.6	852.0	962.5	1070.9	1174.7
52.5°	225.0	319.6	432.3	541.9	647.3	761.6	888.3	1012.2	1133.4	1249.3	1358.3
50°	286.2	403.9	523.3	637.9	761.6	900.4	1037.2	1171.2	1298.8	1420.7	1553.6
47.5°	357.0	485.7	609.8	737.6	888.3	1037.2	1183.9	1323.8	1458.5	1616.7	1771.7
45°	429.4	563.4	693.6	852.0	1012.2	1171.2	1323.8	1471.2	1648.5	1821.7	1994.3
42.5°	499.0	637.7	792.2	962.5	1133.4	1298.8	1458.5	1648.5	1838.5	2028.6	2194.6
40°	564.2	709.4	890.3	1070.9	1249.3	1420.7	1616.7	1821.7	2028.6	2209.2	2370.9
37.5°	626.3	795.6	984.7	1174.7	1358.3	1553.6	1771.7	1994.3	2194.6	2370.9	2514.1
35°	685.2	877.5	1075.8	1272.2	1462.3	1692.1	1926.3	2151.2	2341.3	2501.5	2895.7
32.5°	749.8	954.9	1162.1	1363.5	1582.4	1825.6	2073.9	2282.6	2464.0	2738.6	3701.1
30°	815.9	1029.0	1242.6	1449.4	1697.7	1955.5	2195.8	2402.3	2574.5	3460.7	4383.5
27.5°	877.5	1098.1	1316.4	1543.7	1806.6	2077.2	2304.9	2499.5	3065.7	4114.4	4984.6
25°	934.3	1162.1	1384.7	1635.9	1911.2	2176.6	2401.8	2590.3	3662.7	4642.1	5289.6
22.5°	986.9	1220.6	1447.2	1720.5	2007.2	2263.2	2479.5	3037.0	4173.3	5118.2	5505.3
20°	1034.8	1272.2	1511.7	1797.8	2094.4	2341.9	2550.1	3504.9	4589.6	5302.2	5711.6
17.5°	1077.5	1318.1	1574.2	1869.3	2161.5	2406.7	2666.3	3925.2	4964.2	5468.2	5902.1
15°	1114.7	1358.3	1628.9	1931.8	2218.3	2457.9	3007.4	4239.2	5185.0	5617.7	6072.2
12.5°	1146.5	1392.5	1675.5	1985.2	2266.9	2501.8	3299.6	4500.9	5301.5	5752.1	6251.0
10°	1172.6	1420.7	1714.0	2029.3	2306.9	2538.0	3541.3	4717.6	5398.2	5863.7	6399.9
7.5°	1193.0	1442.7	1744.0	2063.7	2338.3	2566.4	3730.9	4887.8	5474.2	5951.6	6517.4
5°	1207.7	1458.5	1765.6	2088.4	2360.8	2586.8	3867.2	5010.3	5528.9	6015.1	6602.3
2.5°	1216.5	1468.0	1778.6	2103.3	2374.4	2599.1	3949.4	5084.1	5562.0	6053.4	6653.6
0°	1219.4	1471.2	1782.9	2108.3	2378.9	2603.2	3976.8	5108.8	5573.0	6066.2	6670.8
-2.5°	1216.5	1468.0	1778.6	2103.3	2374.4	2599.1	3949.4	5084.1	5562.0	6053.4	6653.6
-5°	1207.7	1458.5	1765.6	2088.4	2360.8	2586.8	3867.2	5010.3	5528.9	6015.1	6602.3
-7.5°	1193.0	1442.7	1744.0	2063.7	2338.3	2566.4	3730.9	4887.8	5474.2	5951.6	6517.4
-10°	1172.6	1420.7	1714.0	2029.3	2306.9	2538.0	3541.3	4717.6	5398.2	5863.7	6399.9
-12.5°	1146.5	1392.5	1675.5	1985.2	2266.9	2501.8	3299.6	4500.9	5301.5	5752.1	6251.0
-15°	1114.7	1358.3	1628.9	1931.8	2218.3	2457.9	3007.4	4239.2	5185.0	5617.7	6072.2
-17.5°	1077.5	1318.1	1574.2	1869.3	2161.5	2406.7	2666.3	3925.2	4964.2	5468.2	5902.1
-20°	1034.8	1272.2	1511.7	1797.8	2094.4	2341.9	2550.1	3504.9	4589.6	5302.2	5711.6



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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°	986.9	1220.6	1447.2	1720.5	2007.2	2263.2	2479.5	3037.0	4173.3	5118.2	5505.3
-25°	934.3	1162.1	1384.7	1635.9	1911.2	2176.6	2401.8	2590.3	3662.7	4642.1	5289.6
-27.5°	877.5	1098.1	1316.4	1543.7	1806.6	2077.2	2304.9	2499.5	3065.7	4114.4	4984.6
-30°	815.9	1029.0	1242.6	1449.4	1697.7	1955.5	2195.8	2402.3	2574.5	3460.7	4383.5
-32.5°	749.8	954.9	1162.1	1363.5	1582.4	1825.6	2073.9	2282.6	2464.0	2738.6	3701.1
-35°	685.2	877.5	1075.8	1272.2	1462.3	1692.1	1926.3	2151.2	2341.3	2501.5	2895.7
-37.5°	626.3	795.6	984.7	1174.7	1358.3	1553.6	1771.7	1994.3	2194.6	2370.9	2514.1
-40°	564.2	709.4	890.3	1070.9	1249.3	1420.7	1616.7	1821.7	2028.6	2209.2	2370.9
-42.5°	499.0	637.7	792.2	962.5	1133.4	1298.8	1458.5	1648.5	1838.5	2028.6	2194.6
-45°	429.4	563.4	693.6	852.0	1012.2	1171.2	1323.8	1471.2	1648.5	1821.7	1994.3
-47.5°	357.0	485.7	609.8	737.6	888.3	1037.2	1183.9	1323.8	1458.5	1616.7	1771.7
-50°	286.2	403.9	523.3	637.9	761.6	900.4	1037.2	1171.2	1298.8	1420.7	1553.6
-52.5°	225.0	319.6	432.3	541.9	647.3	761.6	888.3	1012.2	1133.4	1249.3	1358.3
-55°	162.0	247.1	338.4	441.8	541.9	637.9	737.6	852.0	962.5	1070.9	1174.7
-57.5°	117.8	176.7	254.5	338.4	432.3	523.3	609.8	693.6	792.2	890.3	984.7
-60°	84.4	121.5	176.7	247.1	319.6	403.9	485.7	563.4	637.7	709.4	795.6
-62.5°	54.7	84.4	117.8	162.0	225.0	286.2	357.0	429.4	499.0	564.2	626.3
-65°	44.5	53.6	77.0	106.8	135.7	188.3	242.2	294.1	355.2	415.6	473.2
-67.5°	34.2	42.4	50.4	62.4	88.4	113.7	138.2	184.2	229.0	271.9	315.7
-70°	28.2	31.8	38.2	45.1	51.9	63.1	84.8	105.7	125.7	151.0	187.1
-72.5°	22.9	26.1	29.2	32.2	37.8	43.5	49.0	54.4	66.7	83.4	99.3
-75°	18.4	20.4	22.9	25.5	28.1	30.5	33.2	37.7	42.1	46.3	50.3
-77.5°	14.5	16.2	17.8	19.3	20.9	23.0	24.9	26.8	28.6	30.3	32.0
-80°	11.2	12.0	13.2	14.5	15.7	16.8	18.0	19.1	20.1	21.3	22.6
-82.5°	8.8	9.4	10.0	10.6	11.1	11.6	12.2	13.0	13.8	14.5	15.2
-85°	6.4	6.9	7.3	7.6	8.0	8.4	8.7	9.0	9.3	9.6	9.9
-87.5°	3.2	3.4	3.7	4.0	4.2	4.4	4.7	4.9	5.1	5.3	5.5
-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):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.7	6.8
85°	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.5	11.7	11.8	11.8
82.5°	15.9	16.5	17.1	17.7	18.2	18.6	19.0	19.4	19.7	20.0	20.2
80°	23.8	25.0	26.1	27.1	28.0	28.8	29.6	30.3	30.9	31.4	31.8
77.5°	34.5	37.5	40.2	42.8	45.1	47.2	49.2	50.9	52.3	53.6	54.6
75°	54.0	60.1	71.4	81.9	91.6	100.4	108.3	115.4	121.5	126.7	131.0
72.5°	114.4	128.6	144.9	169.3	191.7	212.2	230.7	247.1	261.4	273.6	283.6
70°	221.4	253.6	283.8	314.6	347.2	377.0	403.9	427.8	448.6	466.3	480.9
67.5°	364.6	410.7	453.8	494.0	530.4	563.4	593.1	619.6	642.7	662.3	678.4
65°	527.3	577.5	624.7	668.5	709.4	756.2	798.5	836.0	868.8	896.7	919.7
62.5°	685.2	749.8	815.9	877.5	934.3	986.9	1034.8	1077.5	1114.7	1146.5	1172.6
60°	877.5	954.9	1029.0	1098.1	1162.1	1220.6	1272.2	1318.1	1358.3	1392.5	1420.7
57.5°	1075.8	1162.1	1242.6	1316.4	1384.7	1447.2	1511.7	1574.2	1628.9	1675.5	1714.0
55°	1272.2	1363.5	1449.4	1543.7	1635.9	1720.5	1797.8	1869.3	1931.8	1985.2	2029.3
52.5°	1462.3	1582.4	1697.7	1806.6	1911.2	2007.2	2094.4	2161.5	2218.3	2266.9	2306.9
50°	1692.1	1825.6	1955.5	2077.2	2176.6	2263.2	2341.9	2406.7	2457.9	2501.8	2538.0
47.5°	1926.3	2073.9	2195.8	2304.9	2401.8	2479.5	2550.1	2666.3	3007.4	3299.6	3541.3
45°	2151.2	2282.6	2402.3	2499.5	2590.3	3037.0	3504.9	3925.2	4239.2	4500.9	4717.6
42.5°	2341.3	2464.0	2574.5	3065.7	3662.7	4173.3	4589.6	4964.2	5185.0	5301.5	5398.2
40°	2501.5	2738.6	3460.7	4114.4	4642.1	5118.2	5302.2	5468.2	5617.7	5752.1	5863.7
37.5°	2895.7	3701.1	4383.5	4984.6	5289.6	5505.3	5711.6	5902.1	6072.2	6251.0	6399.9
35°	3781.8	4519.6	5143.5	5406.2	5659.1	5905.0	6146.4	6398.5	6622.8	6865.1	7080.6
32.5°	4519.6	5172.2	5465.3	5755.6	6036.8	6353.2	6652.0	7007.6	7330.4	7718.3	8137.3
30°	5143.5	5465.3	5788.1	6112.2	6479.8	6876.4	7303.3	7865.9	8490.0	9107.3	9822.9
27.5°	5406.2	5755.6	6112.2	6522.4	6993.6	7493.4	8311.2	9151.5	10210.0	11138.4	13370.9
25°	5659.1	6036.8	6479.8	6993.6	7602.6	8538.2	9703.6	10972.4	13941.7	16840.7	21683.4
22.5°	5905.0	6353.2	6876.4	7493.4	8538.2	9890.2	11770.7	15685.1	21577.1	29016.0	37148.6
20°	6146.4	6652.0	7303.3	8311.2	9703.6	11770.7	16276.3	24489.8	34278.5	47433.0	59576.3
17.5°	6398.5	7007.6	7865.9	9151.5	10972.4	15685.1	24489.8	36792.8	52764.9	70984.6	88069.5
15°	6622.8	7330.4	8490.0	10210.0	13941.7	21577.1	34278.5	52764.9	74897.7	97484.6	119276.5
12.5°	6865.1	7718.3	9107.3	11138.4	16840.7	29016.0	47433.0	70984.6	97484.6	124569.3	148019.3
10°	7080.6	8137.3	9822.9	13370.9	21683.4	37148.6	59576.3	88069.5	119276.5	148019.3	175993.9
7.5°	7251.0	8469.7	10392.4	15161.3	26318.2	45440.7	72096.7	104012.6	137045.3	168900.6	204669.6
5°	7374.3	8710.7	10806.5	16467.9	29715.5	51553.9	81398.7	116089.4	150354.3	187488.6	228402.2
2.5°	7449.0	8856.8	11058.1	17263.5	31790.8	55304.3	87138.6	123602.8	158734.1	199962.4	245821.3
0°	7474.0	8905.8	11142.5	17530.7	32489.0	56568.9	89080.1	126155.6	161600.7	204264.6	252090.3
-2.5°	7449.0	8856.8	11058.1	17263.5	31790.8	55304.3	87138.6	123602.8	158734.1	199962.4	245821.3
-5°	7374.3	8710.7	10806.5	16467.9	29715.5	51553.9	81398.7	116089.4	150354.3	187488.6	228402.2
-7.5°	7251.0	8469.7	10392.4	15161.3	26318.2	45440.7	72096.7	104012.6	137045.3	168900.6	204669.6
-10°	7080.6	8137.3	9822.9	13370.9	21683.4	37148.6	59576.3	88069.5	119276.5	148019.3	175993.9
-12.5°	6865.1	7718.3	9107.3	11138.4	16840.7	29016.0	47433.0	70984.6	97484.6	124569.3	148019.3
-15°	6622.8	7330.4	8490.0	10210.0	13941.7	21577.1	34278.5	52764.9	74897.7	97484.6	119276.5
-17.5°	6398.5	7007.6	7865.9	9151.5	10972.4	15685.1	24489.8	36792.8	52764.9	70984.6	88069.5
-20°	6146.4	6652.0	7303.3	8311.2	9703.6	11770.7	16276.3	24489.8	34278.5	47433.0	59576.3



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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°	5905.0	6353.2	6876.4	7493.4	8538.2	9890.2	11770.7	15685.1	21577.1	29016.0	37148.6
-25°	5659.1	6036.8	6479.8	6993.6	7602.6	8538.2	9703.6	10972.4	13941.7	16840.7	21683.4
-27.5°	5406.2	5755.6	6112.2	6522.4	6993.6	7493.4	8311.2	9151.5	10210.0	11138.4	13370.9
-30°	5143.5	5465.3	5788.1	6112.2	6479.8	6876.4	7303.3	7865.9	8490.0	9107.3	9822.9
-32.5°	4519.6	5172.2	5465.3	5755.6	6036.8	6353.2	6652.0	7007.6	7330.4	7718.3	8137.3
-35°	3781.8	4519.6	5143.5	5406.2	5659.1	5905.0	6146.4	6398.5	6622.8	6865.1	7080.6
-37.5°	2895.7	3701.1	4383.5	4984.6	5289.6	5505.3	5711.6	5902.1	6072.2	6251.0	6399.9
-40°	2501.5	2738.6	3460.7	4114.4	4642.1	5118.2	5302.2	5468.2	5617.7	5752.1	5863.7
-42.5°	2341.3	2464.0	2574.5	3065.7	3662.7	4173.3	4589.6	4964.2	5185.0	5301.5	5398.2
-45°	2151.2	2282.6	2402.3	2499.5	2590.3	3037.0	3504.9	3925.2	4239.2	4500.9	4717.6
-47.5°	1926.3	2073.9	2195.8	2304.9	2401.8	2479.5	2550.1	2666.3	3007.4	3299.6	3541.3
-50°	1692.1	1825.6	1955.5	2077.2	2176.6	2263.2	2341.9	2406.7	2457.9	2501.8	2538.0
-52.5°	1462.3	1582.4	1697.7	1806.6	1911.2	2007.2	2094.4	2161.5	2218.3	2266.9	2306.9
-55°	1272.2	1363.5	1449.4	1543.7	1635.9	1720.5	1797.8	1869.3	1931.8	1985.2	2029.3
-57.5°	1075.8	1162.1	1242.6	1316.4	1384.7	1447.2	1511.7	1574.2	1628.9	1675.5	1714.0
-60°	877.5	954.9	1029.0	1098.1	1162.1	1220.6	1272.2	1318.1	1358.3	1392.5	1420.7
-62.5°	685.2	749.8	815.9	877.5	934.3	986.9	1034.8	1077.5	1114.7	1146.5	1172.6
-65°	527.3	577.5	624.7	668.5	709.4	756.2	798.5	836.0	868.8	896.7	919.7
-67.5°	364.6	410.7	453.8	494.0	530.4	563.4	593.1	619.6	642.7	662.3	678.4
-70°	221.4	253.6	283.8	314.6	347.2	377.0	403.9	427.8	448.6	466.3	480.9
-72.5°	114.4	128.6	144.9	169.3	191.7	212.2	230.7	247.1	261.4	273.6	283.6
-75°	54.0	60.1	71.4	81.9	91.6	100.4	108.3	115.4	121.5	126.7	131.0
-77.5°	34.5	37.5	40.2	42.8	45.1	47.2	49.2	50.9	52.3	53.6	54.6
-80°	23.8	25.0	26.1	27.1	28.0	28.8	29.6	30.3	30.9	31.4	31.8
-82.5°	15.9	16.5	17.1	17.7	18.2	18.6	19.0	19.4	19.7	20.0	20.2
-85°	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.5	11.7	11.8	11.8
-87.5°	5.7	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.7	6.8
-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):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.7	6.6
85°	11.9	12.0	12.0	12.0	12.0	12.0	11.9	11.8	11.8	11.7	11.5
82.5°	20.4	20.5	20.6	20.6	20.6	20.5	20.4	20.2	20.0	19.7	19.4
80°	32.1	32.3	32.5	32.5	32.5	32.3	32.1	31.8	31.4	30.9	30.3
77.5°	55.5	56.0	56.4	56.5	56.4	56.0	55.5	54.6	53.6	52.3	50.9
75°	134.4	136.8	138.2	138.7	138.2	136.8	134.4	131.0	126.7	121.5	115.4
72.5°	291.3	296.9	300.3	301.4	300.3	296.9	291.3	283.6	273.6	261.4	247.1
70°	492.2	500.4	505.3	506.9	505.3	500.4	492.2	480.9	466.3	448.6	427.8
67.5°	691.0	700.1	705.5	707.3	705.5	700.1	691.0	678.4	662.3	642.7	619.6
65°	937.6	950.5	958.2	960.8	958.2	950.5	937.6	919.7	896.7	868.8	836.0
62.5°	1193.0	1207.7	1216.5	1219.4	1216.5	1207.7	1193.0	1172.6	1146.5	1114.7	1077.5
60°	1442.7	1458.5	1468.0	1471.2	1468.0	1458.5	1442.7	1420.7	1392.5	1358.3	1318.1
57.5°	1744.0	1765.6	1778.6	1782.9	1778.6	1765.6	1744.0	1714.0	1675.5	1628.9	1574.2
55°	2063.7	2088.4	2103.3	2108.3	2103.3	2088.4	2063.7	2029.3	1985.2	1931.8	1869.3
52.5°	2338.3	2360.8	2374.4	2378.9	2374.4	2360.8	2338.3	2306.9	2266.9	2218.3	2161.5
50°	2566.4	2586.8	2599.1	2603.2	2599.1	2586.8	2566.4	2538.0	2501.8	2457.9	2406.7
47.5°	3730.9	3867.2	3949.4	3976.8	3949.4	3867.2	3730.9	3541.3	3299.6	3007.4	2666.3
45°	4887.8	5010.3	5084.1	5108.8	5084.1	5010.3	4887.8	4717.6	4500.9	4239.2	3925.2
42.5°	5474.2	5528.9	5562.0	5573.0	5562.0	5528.9	5474.2	5398.2	5301.5	5185.0	4964.2
40°	5951.6	6015.1	6053.4	6066.2	6053.4	6015.1	5951.6	5863.7	5752.1	5617.7	5468.2
37.5°	6517.4	6602.3	6653.6	6670.8	6653.6	6602.3	6517.4	6399.9	6251.0	6072.2	5902.1
35°	7251.0	7374.3	7449.0	7474.0	7449.0	7374.3	7251.0	7080.6	6865.1	6622.8	6398.5
32.5°	8469.7	8710.7	8856.8	8905.8	8856.8	8710.7	8469.7	8137.3	7718.3	7330.4	7007.6
30°	10392.4	10806.5	11058.1	11142.5	11058.1	10806.5	10392.4	9822.9	9107.3	8490.0	7865.9
27.5°	15161.3	16467.9	17263.5	17530.7	17263.5	16467.9	15161.3	13370.9	11138.4	10210.0	9151.5
25°	26318.2	29715.5	31790.8	32489.0	31790.8	29715.5	26318.2	21683.4	16840.7	13941.7	10972.4
22.5°	45440.7	51553.9	55304.3	56568.9	55304.3	51553.9	45440.7	37148.6	29016.0	21577.1	15685.1
20°	72096.7	81398.7	87138.6	89080.1	87138.6	81398.7	72096.7	59576.3	47433.0	34278.5	24489.8
17.5°	104012.6	116089.4	123602.8	126155.6	123602.8	116089.4	104012.6	88069.5	70984.6	52764.9	36792.8
15°	137045.3	150354.3	158734.1	161600.7	158734.1	150354.3	137045.3	119276.5	97484.6	74897.7	52764.9
12.5°	168900.6	187488.6	199962.4	204264.6	199962.4	187488.6	168900.6	148019.3	124569.3	97484.6	70984.6
10°	204669.6	228402.2	245821.3	252090.3	245821.3	228402.2	204669.6	175993.9	148019.3	119276.5	88069.5
7.5°	239921.5	271959.9	289681.9	294943.5	289681.9	271959.9	239921.5	204669.6	168900.6	137045.3	104012.6
5°	271959.9	300596.1	316987.6	322658.4	316987.6	300596.1	271959.9	228402.2	187488.6	150354.3	116089.4
2.5°	289681.9	316987.6	339740.5	355180.0	339740.5	316987.6	289681.9	245821.3	199962.4	158734.1	123602.8
0°	294943.5	322658.4	355180.0	376845.0	355180.0	322658.4	294943.5	252090.3	204264.6	161600.7	126155.6
-2.5°	289681.9	316987.6	339740.5	355180.0	339740.5	316987.6	289681.9	245821.3	199962.4	158734.1	123602.8
-5°	271959.9	300596.1	316987.6	322658.4	316987.6	300596.1	271959.9	228402.2	187488.6	150354.3	116089.4
-7.5°	239921.5	271959.9	289681.9	294943.5	289681.9	271959.9	239921.5	204669.6	168900.6	137045.3	104012.6
-10°	204669.6	228402.2	245821.3	252090.3	245821.3	228402.2	204669.6	175993.9	148019.3	119276.5	88069.5
-12.5°	168900.6	187488.6	199962.4	204264.6	199962.4	187488.6	168900.6	148019.3	124569.3	97484.6	70984.6
-15°	137045.3	150354.3	158734.1	161600.7	158734.1	150354.3	137045.3	119276.5	97484.6	74897.7	52764.9
-17.5°	104012.6	116089.4	123602.8	126155.6	123602.8	116089.4	104012.6	88069.5	70984.6	52764.9	36792.8
-20°	72096.7	81398.7	87138.6	89080.1	87138.6	81398.7	72096.7	59576.3	47433.0	34278.5	24489.8



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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°	45440.7	51553.9	55304.3	56568.9	55304.3	51553.9	45440.7	37148.6	29016.0	21577.1	15685.1
-25°	26318.2	29715.5	31790.8	32489.0	31790.8	29715.5	26318.2	21683.4	16840.7	13941.7	10972.4
-27.5°	15161.3	16467.9	17263.5	17530.7	17263.5	16467.9	15161.3	13370.9	11138.4	10210.0	9151.5
-30°	10392.4	10806.5	11058.1	11142.5	11058.1	10806.5	10392.4	9822.9	9107.3	8490.0	7865.9
-32.5°	8469.7	8710.7	8856.8	8905.8	8856.8	8710.7	8469.7	8137.3	7718.3	7330.4	7007.6
-35°	7251.0	7374.3	7449.0	7474.0	7449.0	7374.3	7251.0	7080.6	6865.1	6622.8	6398.5
-37.5°	6517.4	6602.3	6653.6	6670.8	6653.6	6602.3	6517.4	6399.9	6251.0	6072.2	5902.1
-40°	5951.6	6015.1	6053.4	6066.2	6053.4	6015.1	5951.6	5863.7	5752.1	5617.7	5468.2
-42.5°	5474.2	5528.9	5562.0	5573.0	5562.0	5528.9	5474.2	5398.2	5301.5	5185.0	4964.2
-45°	4887.8	5010.3	5084.1	5108.8	5084.1	5010.3	4887.8	4717.6	4500.9	4239.2	3925.2
-47.5°	3730.9	3867.2	3949.4	3976.8	3949.4	3867.2	3730.9	3541.3	3299.6	3007.4	2666.3
-50°	2566.4	2586.8	2599.1	2603.2	2599.1	2586.8	2566.4	2538.0	2501.8	2457.9	2406.7
-52.5°	2338.3	2360.8	2374.4	2378.9	2374.4	2360.8	2338.3	2306.9	2266.9	2218.3	2161.5
-55°	2063.7	2088.4	2103.3	2108.3	2103.3	2088.4	2063.7	2029.3	1985.2	1931.8	1869.3
-57.5°	1744.0	1765.6	1778.6	1782.9	1778.6	1765.6	1744.0	1714.0	1675.5	1628.9	1574.2
-60°	1442.7	1458.5	1468.0	1471.2	1468.0	1458.5	1442.7	1420.7	1392.5	1358.3	1318.1
-62.5°	1193.0	1207.7	1216.5	1219.4	1216.5	1207.7	1193.0	1172.6	1146.5	1114.7	1077.5
-65°	937.6	950.5	958.2	960.8	958.2	950.5	937.6	919.7	896.7	868.8	836.0
-67.5°	691.0	700.1	705.5	707.3	705.5	700.1	691.0	678.4	662.3	642.7	619.6
-70°	492.2	500.4	505.3	506.9	505.3	500.4	492.2	480.9	466.3	448.6	427.8
-72.5°	291.3	296.9	300.3	301.4	300.3	296.9	291.3	283.6	273.6	261.4	247.1
-75°	134.4	136.8	138.2	138.7	138.2	136.8	134.4	131.0	126.7	121.5	115.4
-77.5°	55.5	56.0	56.4	56.5	56.4	56.0	55.5	54.6	53.6	52.3	50.9
-80°	32.1	32.3	32.5	32.5	32.5	32.3	32.1	31.8	31.4	30.9	30.3
-82.5°	20.4	20.5	20.6	20.6	20.6	20.5	20.4	20.2	20.0	19.7	19.4
-85°	11.9	12.0	12.0	12.0	12.0	12.0	11.9	11.8	11.8	11.7	11.5
-87.5°	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.7	6.6
-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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	6.4	6.3	6.1	6.0	5.8	5.7	5.5	5.3	5.1	4.9
85°	11.4	11.2	11.0	10.8	10.6	10.4	10.2	9.9	9.6	9.3	9.0
82.5°	19.0	18.6	18.2	17.7	17.1	16.5	15.9	15.2	14.5	13.8	13.0
80°	29.6	28.8	28.0	27.1	26.1	25.0	23.8	22.6	21.3	20.1	19.1
77.5°	49.2	47.2	45.1	42.8	40.2	37.5	34.5	32.0	30.3	28.6	26.8
75°	108.3	100.4	91.6	81.9	71.4	60.1	54.0	50.3	46.3	42.1	37.7
72.5°	230.7	212.2	191.7	169.3	144.9	128.6	114.4	99.3	83.4	66.7	54.4
70°	403.9	377.0	347.2	314.6	283.8	253.6	221.4	187.1	151.0	125.7	105.7
67.5°	593.1	563.4	530.4	494.0	453.8	410.7	364.6	315.7	271.9	229.0	184.2
65°	798.5	756.2	709.4	668.5	624.7	577.5	527.3	473.2	415.6	355.2	294.1
62.5°	1034.8	986.9	934.3	877.5	815.9	749.8	685.2	626.3	564.2	499.0	429.4
60°	1272.2	1220.6	1162.1	1098.1	1029.0	954.9	877.5	795.6	709.4	637.7	563.4
57.5°	1511.7	1447.2	1384.7	1316.4	1242.6	1162.1	1075.8	984.7	890.3	792.2	693.6
55°	1797.8	1720.5	1635.9	1543.7	1449.4	1363.5	1272.2	1174.7	1070.9	962.5	852.0
52.5°	2094.4	2007.2	1911.2	1806.6	1697.7	1582.4	1462.3	1358.3	1249.3	1133.4	1012.2
50°	2341.9	2263.2	2176.6	2077.2	1955.5	1825.6	1692.1	1553.6	1420.7	1298.8	1171.2
47.5°	2550.1	2479.5	2401.8	2304.9	2195.8	2073.9	1926.3	1771.7	1616.7	1458.5	1323.8
45°	3504.9	3037.0	2590.3	2499.5	2402.3	2282.6	2151.2	1994.3	1821.7	1648.5	1471.2
42.5°	4589.6	4173.3	3662.7	3065.7	2574.5	2464.0	2341.3	2194.6	2028.6	1838.5	1648.5
40°	5302.2	5118.2	4642.1	4114.4	3460.7	2738.6	2501.5	2370.9	2209.2	2028.6	1821.7
37.5°	5711.6	5505.3	5289.6	4984.6	4383.5	3701.1	2895.7	2514.1	2370.9	2194.6	1994.3
35°	6146.4	5905.0	5659.1	5406.2	5143.5	4519.6	3781.8	2895.7	2501.5	2341.3	2151.2
32.5°	6652.0	6353.2	6036.8	5755.6	5465.3	5172.2	4519.6	3701.1	2738.6	2464.0	2282.6
30°	7303.3	6876.4	6479.8	6112.2	5788.1	5465.3	5143.5	4383.5	3460.7	2574.5	2402.3
27.5°	8311.2	7493.4	6993.6	6522.4	6112.2	5755.6	5406.2	4984.6	4114.4	3065.7	2499.5
25°	9703.6	8538.2	7602.6	6993.6	6479.8	6036.8	5659.1	5289.6	4642.1	3662.7	2590.3
22.5°	11770.7	9890.2	8538.2	7493.4	6876.4	6353.2	5905.0	5505.3	5118.2	4173.3	3037.0
20°	16276.3	11770.7	9703.6	8311.2	7303.3	6652.0	6146.4	5711.6	5302.2	4589.6	3504.9
17.5°	24489.8	15685.1	10972.4	9151.5	7865.9	7007.6	6398.5	5902.1	5468.2	4964.2	3925.2
15°	34278.5	21577.1	13941.7	10210.0	8490.0	7330.4	6622.8	6072.2	5617.7	5185.0	4239.2
12.5°	47433.0	29016.0	16840.7	11138.4	9107.3	7718.3	6865.1	6251.0	5752.1	5301.5	4500.9
10°	59576.3	37148.6	21683.4	13370.9	9822.9	8137.3	7080.6	6399.9	5863.7	5398.2	4717.6
7.5°	72096.7	45440.7	26318.2	15161.3	10392.4	8469.7	7251.0	6517.4	5951.6	5474.2	4887.8
5°	81398.7	51553.9	29715.5	16467.9	10806.5	8710.7	7374.3	6602.3	6015.1	5528.9	5010.3
2.5°	87138.6	55304.3	31790.8	17263.5	11058.1	8856.8	7449.0	6653.6	6053.4	5562.0	5084.1
0°	89080.1	56568.9	32489.0	17530.7	11142.5	8905.8	7474.0	6670.8	6066.2	5573.0	5108.8
-2.5°	87138.6	55304.3	31790.8	17263.5	11058.1	8856.8	7449.0	6653.6	6053.4	5562.0	5084.1
-5°	81398.7	51553.9	29715.5	16467.9	10806.5	8710.7	7374.3	6602.3	6015.1	5528.9	5010.3
-7.5°	72096.7	45440.7	26318.2	15161.3	10392.4	8469.7	7251.0	6517.4	5951.6	5474.2	4887.8
-10°	59576.3	37148.6	21683.4	13370.9	9822.9	8137.3	7080.6	6399.9	5863.7	5398.2	4717.6
-12.5°	47433.0	29016.0	16840.7	11138.4	9107.3	7718.3	6865.1	6251.0	5752.1	5301.5	4500.9
-15°	34278.5	21577.1	13941.7	10210.0	8490.0	7330.4	6622.8	6072.2	5617.7	5185.0	4239.2
-17.5°	24489.8	15685.1	10972.4	9151.5	7865.9	7007.6	6398.5	5902.1	5468.2	4964.2	3925.2
-20°	16276.3	11770.7	9703.6	8311.2	7303.3	6652.0	6146.4	5711.6	5302.2	4589.6	3504.9



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	11770.7	9890.2	8538.2	7493.4	6876.4	6353.2	5905.0	5505.3	5118.2	4173.3	3037.0
-25°	9703.6	8538.2	7602.6	6993.6	6479.8	6036.8	5659.1	5289.6	4642.1	3662.7	2590.3
-27.5°	8311.2	7493.4	6993.6	6522.4	6112.2	5755.6	5406.2	4984.6	4114.4	3065.7	2499.5
-30°	7303.3	6876.4	6479.8	6112.2	5788.1	5465.3	5143.5	4383.5	3460.7	2574.5	2402.3
-32.5°	6652.0	6353.2	6036.8	5755.6	5465.3	5172.2	4519.6	3701.1	2738.6	2464.0	2282.6
-35°	6146.4	5905.0	5659.1	5406.2	5143.5	4519.6	3781.8	2895.7	2501.5	2341.3	2151.2
-37.5°	5711.6	5505.3	5289.6	4984.6	4383.5	3701.1	2895.7	2514.1	2370.9	2194.6	1994.3
-40°	5302.2	5118.2	4642.1	4114.4	3460.7	2738.6	2501.5	2370.9	2209.2	2028.6	1821.7
-42.5°	4589.6	4173.3	3662.7	3065.7	2574.5	2464.0	2341.3	2194.6	2028.6	1838.5	1648.5
-45°	3504.9	3037.0	2590.3	2499.5	2402.3	2282.6	2151.2	1994.3	1821.7	1648.5	1471.2
-47.5°	2550.1	2479.5	2401.8	2304.9	2195.8	2073.9	1926.3	1771.7	1616.7	1458.5	1323.8
-50°	2341.9	2263.2	2176.6	2077.2	1955.5	1825.6	1692.1	1553.6	1420.7	1298.8	1171.2
-52.5°	2094.4	2007.2	1911.2	1806.6	1697.7	1582.4	1462.3	1358.3	1249.3	1133.4	1012.2
-55°	1797.8	1720.5	1635.9	1543.7	1449.4	1363.5	1272.2	1174.7	1070.9	962.5	852.0
-57.5°	1511.7	1447.2	1384.7	1316.4	1242.6	1162.1	1075.8	984.7	890.3	792.2	693.6
-60°	1272.2	1220.6	1162.1	1098.1	1029.0	954.9	877.5	795.6	709.4	637.7	563.4
-62.5°	1034.8	986.9	934.3	877.5	815.9	749.8	685.2	626.3	564.2	499.0	429.4
-65°	798.5	756.2	709.4	668.5	624.7	577.5	527.3	473.2	415.6	355.2	294.1
-67.5°	593.1	563.4	530.4	494.0	453.8	410.7	364.6	315.7	271.9	229.0	184.2
-70°	403.9	377.0	347.2	314.6	283.8	253.6	221.4	187.1	151.0	125.7	105.7
-72.5°	230.7	212.2	191.7	169.3	144.9	128.6	114.4	99.3	83.4	66.7	54.4
-75°	108.3	100.4	91.6	81.9	71.4	60.1	54.0	50.3	46.3	42.1	37.7
-77.5°	49.2	47.2	45.1	42.8	40.2	37.5	34.5	32.0	30.3	28.6	26.8
-80°	29.6	28.8	28.0	27.1	26.1	25.0	23.8	22.6	21.3	20.1	19.1
-82.5°	19.0	18.6	18.2	17.7	17.1	16.5	15.9	15.2	14.5	13.8	13.0
-85°	11.4	11.2	11.0	10.8	10.6	10.4	10.2	9.9	9.6	9.3	9.0
-87.5°	6.5	6.4	6.3	6.1	6.0	5.8	5.7	5.5	5.3	5.1	4.9
-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):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	4.4	4.2	4.0	3.7	3.4	3.2	2.9	2.6	2.4	2.1
85°	8.7	8.4	8.0	7.6	7.3	6.9	6.4	5.8	5.3	4.7	4.1
82.5°	12.2	11.6	11.1	10.6	10.0	9.4	8.8	8.3	7.6	7.0	6.2
80°	18.0	16.8	15.7	14.5	13.2	12.0	11.2	10.4	9.6	8.7	7.9
77.5°	24.9	23.0	20.9	19.3	17.8	16.2	14.5	12.9	11.5	10.5	9.4
75°	33.2	30.5	28.1	25.5	22.9	20.4	18.4	16.4	14.4	12.3	10.9
72.5°	49.0	43.5	37.8	32.2	29.2	26.1	22.9	19.9	17.5	15.1	12.6
70°	84.8	63.1	51.9	45.1	38.2	31.8	28.2	24.5	20.7	17.9	15.1
67.5°	138.2	113.7	88.4	62.4	50.4	42.4	34.2	29.2	25.0	20.7	17.5
65°	242.2	188.3	135.7	106.8	77.0	53.6	44.5	35.3	29.2	24.5	19.9
62.5°	357.0	286.2	225.0	162.0	117.8	84.4	54.7	44.5	34.2	28.2	22.9
60°	485.7	403.9	319.6	247.1	176.7	121.5	84.4	53.6	42.4	31.8	26.1
57.5°	609.8	523.3	432.3	338.4	254.5	176.7	117.8	77.0	50.4	38.2	29.2
55°	737.6	637.9	541.9	441.8	338.4	247.1	162.0	106.8	62.4	45.1	32.2
52.5°	888.3	761.6	647.3	541.9	432.3	319.6	225.0	135.7	88.4	51.9	37.8
50°	1037.2	900.4	761.6	637.9	523.3	403.9	286.2	188.3	113.7	63.1	43.5
47.5°	1183.9	1037.2	888.3	737.6	609.8	485.7	357.0	242.2	138.2	84.8	49.0
45°	1323.8	1171.2	1012.2	852.0	693.6	563.4	429.4	294.1	184.2	105.7	54.4
42.5°	1458.5	1298.8	1133.4	962.5	792.2	637.7	499.0	355.2	229.0	125.7	66.7
40°	1616.7	1420.7	1249.3	1070.9	890.3	709.4	564.2	415.6	271.9	151.0	83.4
37.5°	1771.7	1553.6	1358.3	1174.7	984.7	795.6	626.3	473.2	315.7	187.1	99.3
35°	1926.3	1692.1	1462.3	1272.2	1075.8	877.5	685.2	527.3	364.6	221.4	114.4
32.5°	2073.9	1825.6	1582.4	1363.5	1162.1	954.9	749.8	577.5	410.7	253.6	128.6
30°	2195.8	1955.5	1697.7	1449.4	1242.6	1029.0	815.9	624.7	453.8	283.8	144.9
27.5°	2304.9	2077.2	1806.6	1543.7	1316.4	1098.1	877.5	668.5	494.0	314.6	169.3
25°	2401.8	2176.6	1911.2	1635.9	1384.7	1162.1	934.3	709.4	530.4	347.2	191.7
22.5°	2479.5	2263.2	2007.2	1720.5	1447.2	1220.6	986.9	756.2	563.4	377.0	212.2
20°	2550.1	2341.9	2094.4	1797.8	1511.7	1272.2	1034.8	798.5	593.1	403.9	230.7
17.5°	2666.3	2406.7	2161.5	1869.3	1574.2	1318.1	1077.5	836.0	619.6	427.8	247.1
15°	3007.4	2457.9	2218.3	1931.8	1628.9	1358.3	1114.7	868.8	642.7	448.6	261.4
12.5°	3299.6	2501.8	2266.9	1985.2	1675.5	1392.5	1146.5	896.7	662.3	466.3	273.6
10°	3541.3	2538.0	2306.9	2029.3	1714.0	1420.7	1172.6	919.7	678.4	480.9	283.6
7.5°	3730.9	2566.4	2338.3	2063.7	1744.0	1442.7	1193.0	937.6	691.0	492.2	291.3
5°	3867.2	2586.8	2360.8	2088.4	1765.6	1458.5	1207.7	950.5	700.1	500.4	296.9
2.5°	3949.4	2599.1	2374.4	2103.3	1778.6	1468.0	1216.5	958.2	705.5	505.3	300.3
0°	3976.8	2603.2	2378.9	2108.3	1782.9	1471.2	1219.4	960.8	707.3	506.9	301.4
-2.5°	3949.4	2599.1	2374.4	2103.3	1778.6	1468.0	1216.5	958.2	705.5	505.3	300.3
-5°	3867.2	2586.8	2360.8	2088.4	1765.6	1458.5	1207.7	950.5	700.1	500.4	296.9
-7.5°	3730.9	2566.4	2338.3	2063.7	1744.0	1442.7	1193.0	937.6	691.0	492.2	291.3
-10°	3541.3	2538.0	2306.9	2029.3	1714.0	1420.7	1172.6	919.7	678.4	480.9	283.6
-12.5°	3299.6	2501.8	2266.9	1985.2	1675.5	1392.5	1146.5	896.7	662.3	466.3	273.6
-15°	3007.4	2457.9	2218.3	1931.8	1628.9	1358.3	1114.7	868.8	642.7	448.6	261.4
-17.5°	2666.3	2406.7	2161.5	1869.3	1574.2	1318.1	1077.5	836.0	619.6	427.8	247.1
-20°	2550.1	2341.9	2094.4	1797.8	1511.7	1272.2	1034.8	798.5	593.1	403.9	230.7



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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°	2479.5	2263.2	2007.2	1720.5	1447.2	1220.6	986.9	756.2	563.4	377.0	212.2
-25°	2401.8	2176.6	1911.2	1635.9	1384.7	1162.1	934.3	709.4	530.4	347.2	191.7
-27.5°	2304.9	2077.2	1806.6	1543.7	1316.4	1098.1	877.5	668.5	494.0	314.6	169.3
-30°	2195.8	1955.5	1697.7	1449.4	1242.6	1029.0	815.9	624.7	453.8	283.8	144.9
-32.5°	2073.9	1825.6	1582.4	1363.5	1162.1	954.9	749.8	577.5	410.7	253.6	128.6
-35°	1926.3	1692.1	1462.3	1272.2	1075.8	877.5	685.2	527.3	364.6	221.4	114.4
-37.5°	1771.7	1553.6	1358.3	1174.7	984.7	795.6	626.3	473.2	315.7	187.1	99.3
-40°	1616.7	1420.7	1249.3	1070.9	890.3	709.4	564.2	415.6	271.9	151.0	83.4
-42.5°	1458.5	1298.8	1133.4	962.5	792.2	637.7	499.0	355.2	229.0	125.7	66.7
-45°	1323.8	1171.2	1012.2	852.0	693.6	563.4	429.4	294.1	184.2	105.7	54.4
-47.5°	1183.9	1037.2	888.3	737.6	609.8	485.7	357.0	242.2	138.2	84.8	49.0
-50°	1037.2	900.4	761.6	637.9	523.3	403.9	286.2	188.3	113.7	63.1	43.5
-52.5°	888.3	761.6	647.3	541.9	432.3	319.6	225.0	135.7	88.4	51.9	37.8
-55°	737.6	637.9	541.9	441.8	338.4	247.1	162.0	106.8	62.4	45.1	32.2
-57.5°	609.8	523.3	432.3	338.4	254.5	176.7	117.8	77.0	50.4	38.2	29.2
-60°	485.7	403.9	319.6	247.1	176.7	121.5	84.4	53.6	42.4	31.8	26.1
-62.5°	357.0	286.2	225.0	162.0	117.8	84.4	54.7	44.5	34.2	28.2	22.9
-65°	242.2	188.3	135.7	106.8	77.0	53.6	44.5	35.3	29.2	24.5	19.9
-67.5°	138.2	113.7	88.4	62.4	50.4	42.4	34.2	29.2	25.0	20.7	17.5
-70°	84.8	63.1	51.9	45.1	38.2	31.8	28.2	24.5	20.7	17.9	15.1
-72.5°	49.0	43.5	37.8	32.2	29.2	26.1	22.9	19.9	17.5	15.1	12.6
-75°	33.2	30.5	28.1	25.5	22.9	20.4	18.4	16.4	14.4	12.3	10.9
-77.5°	24.9	23.0	20.9	19.3	17.8	16.2	14.5	12.9	11.5	10.5	9.4
-80°	18.0	16.8	15.7	14.5	13.2	12.0	11.2	10.4	9.6	8.7	7.9
-82.5°	12.2	11.6	11.1	10.6	10.0	9.4	8.8	8.3	7.6	7.0	6.2
-85°	8.7	8.4	8.0	7.6	7.3	6.9	6.4	5.8	5.3	4.7	4.1
-87.5°	4.7	4.4	4.2	4.0	3.7	3.4	3.2	2.9	2.6	2.4	2.1
-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):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
82.5°	5.3	4.5	3.6	2.7	1.8	0.9	0.0
80°	7.1	5.9	4.8	3.6	2.4	1.2	0.0
77.5°	8.4	7.3	5.9	4.5	3.0	1.5	0.0
75°	9.6	8.4	7.1	5.3	3.6	1.8	0.0
72.5°	10.9	9.4	7.9	6.2	4.1	2.1	0.0
70°	12.3	10.5	8.7	7.0	4.7	2.4	0.0
67.5°	14.4	11.5	9.6	7.6	5.3	2.6	0.0
65°	16.4	12.9	10.4	8.3	5.8	2.9	0.0
62.5°	18.4	14.5	11.2	8.8	6.4	3.2	0.0
60°	20.4	16.2	12.0	9.4	6.9	3.4	0.0
57.5°	22.9	17.8	13.2	10.0	7.3	3.7	0.0
55°	25.5	19.3	14.5	10.6	7.6	4.0	0.0
52.5°	28.1	20.9	15.7	11.1	8.0	4.2	0.0
50°	30.5	23.0	16.8	11.6	8.4	4.4	0.0
47.5°	33.2	24.9	18.0	12.2	8.7	4.7	0.0
45°	37.7	26.8	19.1	13.0	9.0	4.9	0.0
42.5°	42.1	28.6	20.1	13.8	9.3	5.1	0.0
40°	46.3	30.3	21.3	14.5	9.6	5.3	0.0
37.5°	50.3	32.0	22.6	15.2	9.9	5.5	0.0
35°	54.0	34.5	23.8	15.9	10.2	5.7	0.0
32.5°	60.1	37.5	25.0	16.5	10.4	5.8	0.0
30°	71.4	40.2	26.1	17.1	10.6	6.0	0.0
27.5°	81.9	42.8	27.1	17.7	10.8	6.1	0.0
25°	91.6	45.1	28.0	18.2	11.0	6.3	0.0
22.5°	100.4	47.2	28.8	18.6	11.2	6.4	0.0
20°	108.3	49.2	29.6	19.0	11.4	6.5	0.0
17.5°	115.4	50.9	30.3	19.4	11.5	6.6	0.0
15°	121.5	52.3	30.9	19.7	11.7	6.7	0.0
12.5°	126.7	53.6	31.4	20.0	11.8	6.7	0.0
10°	131.0	54.6	31.8	20.2	11.8	6.8	0.0
7.5°	134.4	55.5	32.1	20.4	11.9	6.8	0.0
5°	136.8	56.0	32.3	20.5	12.0	6.9	0.0
2.5°	138.2	56.4	32.5	20.6	12.0	6.9	0.0
0°	138.7	56.5	32.5	20.6	12.0	6.9	0.0
-2.5°	138.2	56.4	32.5	20.6	12.0	6.9	0.0
-5°	136.8	56.0	32.3	20.5	12.0	6.9	0.0
-7.5°	134.4	55.5	32.1	20.4	11.9	6.8	0.0
-10°	131.0	54.6	31.8	20.2	11.8	6.8	0.0
-12.5°	126.7	53.6	31.4	20.0	11.8	6.7	0.0
-15°	121.5	52.3	30.9	19.7	11.7	6.7	0.0
-17.5°	115.4	50.9	30.3	19.4	11.5	6.6	0.0
-20°	108.3	49.2	29.6	19.0	11.4	6.5	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	100.4	47.2	28.8	18.6	11.2	6.4	0.0
-25°	91.6	45.1	28.0	18.2	11.0	6.3	0.0
-27.5°	81.9	42.8	27.1	17.7	10.8	6.1	0.0
-30°	71.4	40.2	26.1	17.1	10.6	6.0	0.0
-32.5°	60.1	37.5	25.0	16.5	10.4	5.8	0.0
-35°	54.0	34.5	23.8	15.9	10.2	5.7	0.0
-37.5°	50.3	32.0	22.6	15.2	9.9	5.5	0.0
-40°	46.3	30.3	21.3	14.5	9.6	5.3	0.0
-42.5°	42.1	28.6	20.1	13.8	9.3	5.1	0.0
-45°	37.7	26.8	19.1	13.0	9.0	4.9	0.0
-47.5°	33.2	24.9	18.0	12.2	8.7	4.7	0.0
-50°	30.5	23.0	16.8	11.6	8.4	4.4	0.0
-52.5°	28.1	20.9	15.7	11.1	8.0	4.2	0.0
-55°	25.5	19.3	14.5	10.6	7.6	4.0	0.0
-57.5°	22.9	17.8	13.2	10.0	7.3	3.7	0.0
-60°	20.4	16.2	12.0	9.4	6.9	3.4	0.0
-62.5°	18.4	14.5	11.2	8.8	6.4	3.2	0.0
-65°	16.4	12.9	10.4	8.3	5.8	2.9	0.0
-67.5°	14.4	11.5	9.6	7.6	5.3	2.6	0.0
-70°	12.3	10.5	8.7	7.0	4.7	2.4	0.0
-72.5°	10.9	9.4	7.9	6.2	4.1	2.1	0.0
-75°	9.6	8.4	7.1	5.3	3.6	1.8	0.0
-77.5°	8.4	7.3	5.9	4.5	3.0	1.5	0.0
-80°	7.1	5.9	4.8	3.6	2.4	1.2	0.0
-82.5°	5.3	4.5	3.6	2.7	1.8	0.9	0.0
-85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
-87.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

