

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: P701726 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-80-1S-VHE-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701726 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-57-80-1S-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

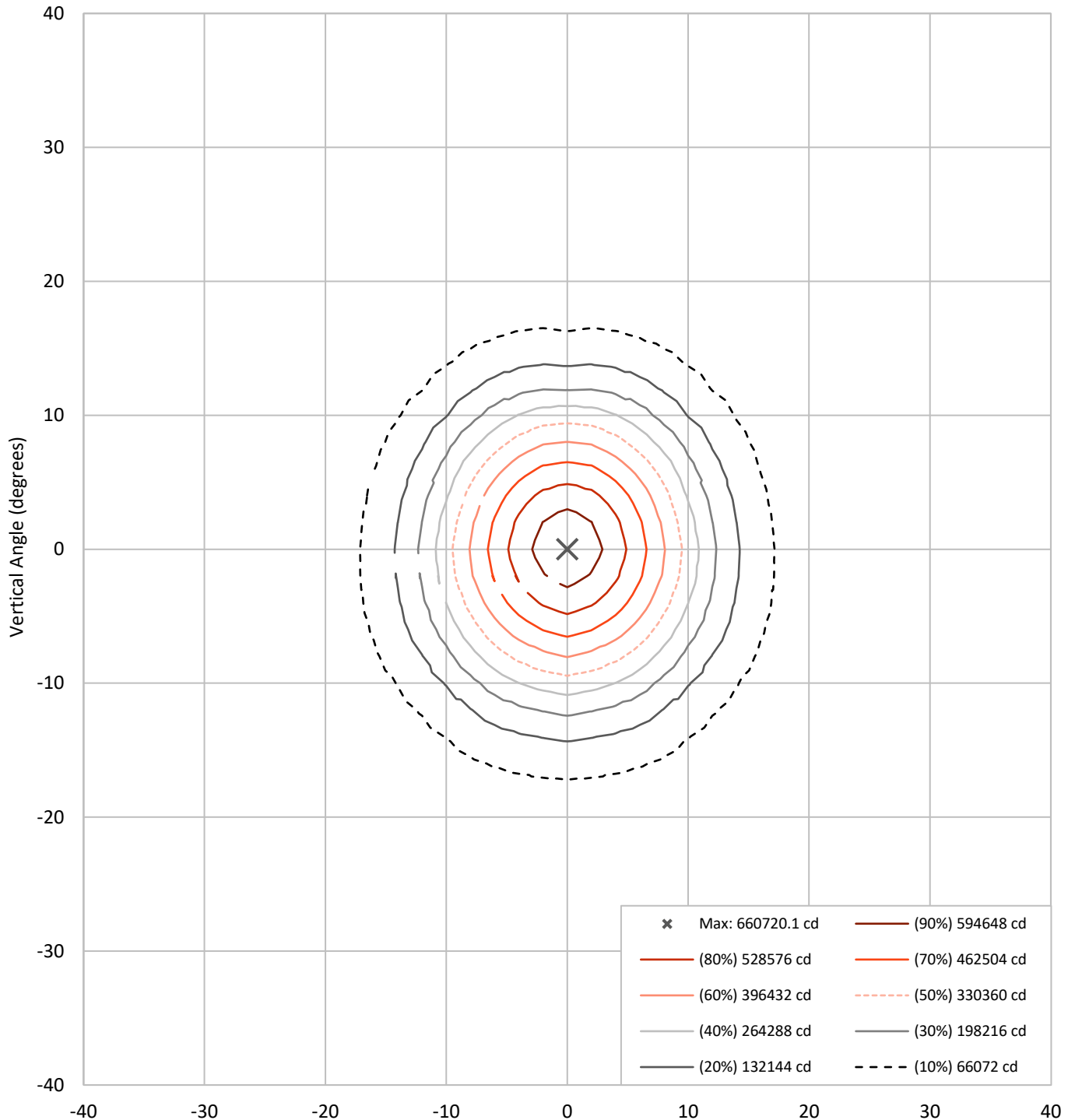
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	87089.3 lumens	Max Intensity:	660720.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	120.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 18.9°V	Field Angle (10%):	34°H x 33.3°V
Beam Lumens:	38605.2 lumens	Field Lumens:	70313.4 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%

Input Watts (W): 724.6  
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





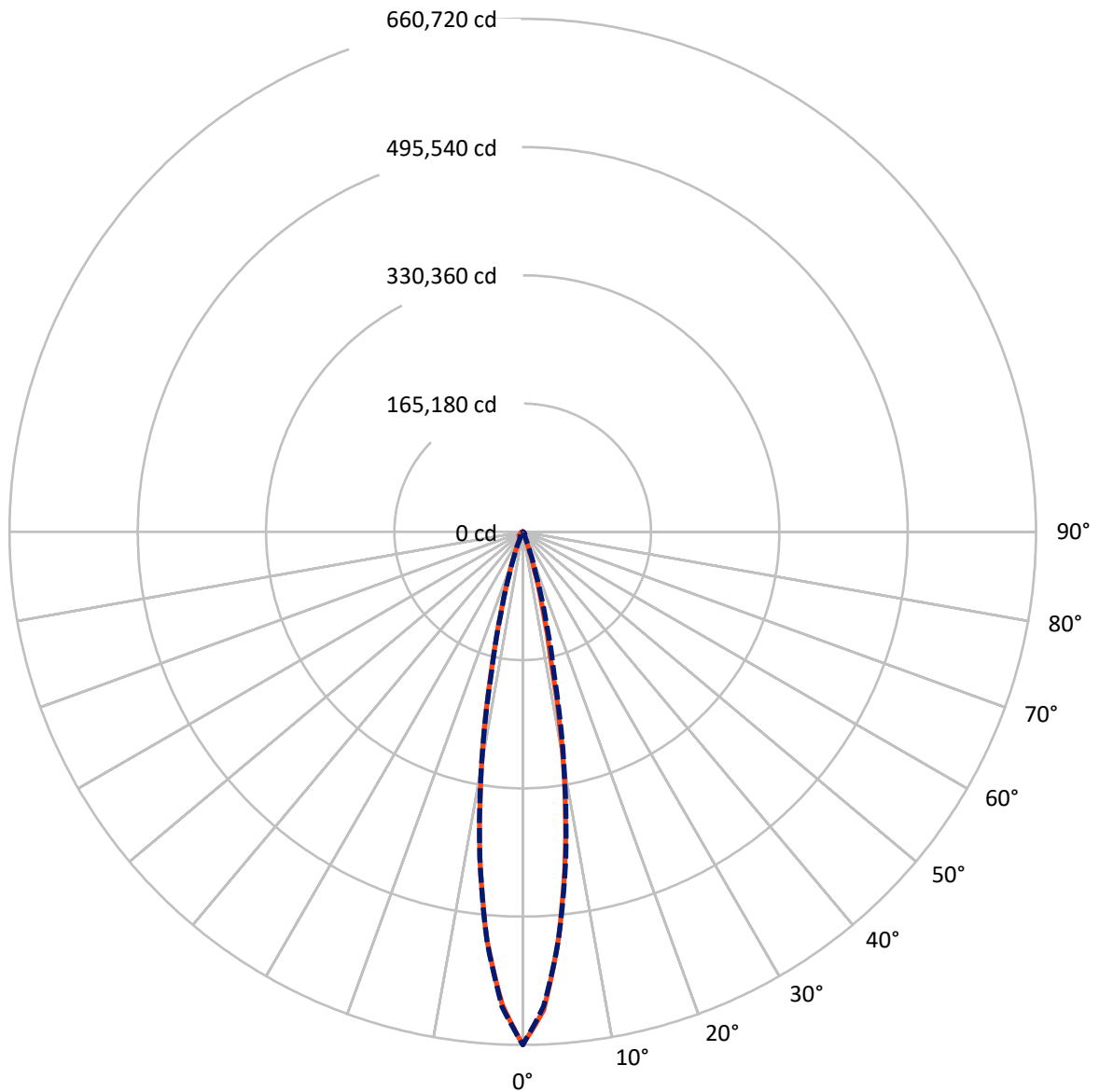
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### Lumen Table

90	0.3	1.2	2.2	3.0	3.3	3.0	2.2	1.2	0.3										
80	0.3	1.2	2.2	3.0	3.3	3.0	2.2	1.2	0.3										
70	0.4	0.2	0.3	0.6	0.7	0.4	0.3	0.3	0.3	0.3	0.4	0.7	0.6	0.3	0.2	0.4			
60		0.5	1.0	1.2	1.0	0.9	1.2	1.3	1.3	1.2	0.9	1.0	1.2	1.0	0.5				
50	1.2	1.5	3.3	6.3	9.8	17.0	25.8	28.6	28.6	25.8	17.0	9.8	6.3	3.3	1.5	1.2			
40		3.3	9.4	17.0	35.6	58.3	65.2	68.5	68.5	65.2	58.3	35.6	17.0	9.4	3.3				
30	2.8	5.6	15.3	31.5	75.0	79.5	96.5	159.7	159.7	96.5	79.5	75.0	31.5	15.3	5.6	2.8			
20		7.6	19.7	56.1	99.3	117.2	729.8	2908.2	2908.2	729.8	117.2	99.3	56.1	19.7	7.6				
10	4.2	9.3	23.1	74.3	110.7	218.6	2948.7	12267.9	12267.9	2948.7	218.6	110.7	74.3	23.1	9.3	4.2			
0		10.4	25.9	79.3	123.2	244.5	3099.9	12208.8	12208.8	3099.9	244.5	123.2	79.3	25.9	10.4				
-10	4.9	10.8	27.8	78.3	136.4	168.1	860.7	3151.1	3151.1	860.7	168.1	136.4	78.3	27.8	10.8	4.9			
-20		10.5	28.1	60.6	139.0	170.2	185.7	288.4	288.4	185.7	170.2	139.0	60.6	28.1	10.5				
-30	4.6	9.4	26.2	48.3	101.8	171.1	192.2	194.4	194.4	192.2	171.1	101.8	48.3	26.2	9.4	4.6			
-40		7.8	21.5	42.2	63.1	95.3	141.3	176.1	176.1	141.3	95.3	63.1	42.2	21.5	7.8				
-50	4.0	6.1	15.6	30.8	49.1	64.0	74.5	81.3	81.3	74.5	64.0	49.1	30.8	15.6	6.1	4.0			
-60		4.8	10.2	18.8	29.7	39.8	48.6	54.4	54.4	48.6	39.8	29.7	18.8	10.2	4.8				
-70	2.7	18.3	43.9	68.9	82.3	68.9	43.9	18.3	2.7							2.7			
-80		18.3	43.9	68.9	82.3	68.9	43.9	18.3	2.7										
-90	2.7	18.3	43.9	68.9	82.3	68.9	43.9	18.3	2.7										

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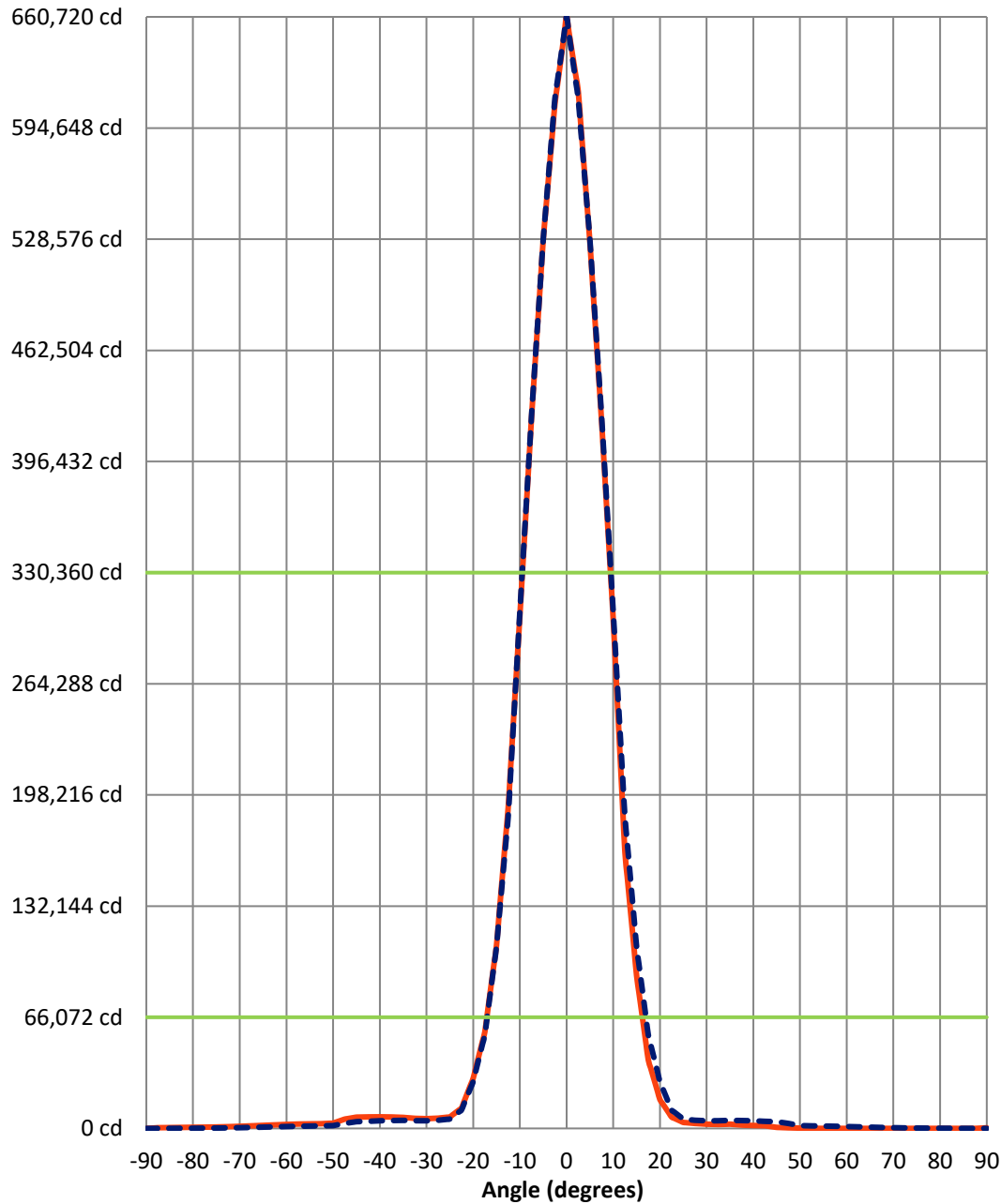
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 19°  
 V Angle: 18.9°  
 Lumens: 38605.2  
 Efficiency: 44.3%

**Field:**  
 H Angle: 34°  
 V Angle: 33.3°  
 Lumens: 70313.4  
 Efficiency: 80.7%

**Spill:**  
 Lumens: 16775.9  
 Efficiency: 19.3%

— 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°	9.5	25.2	41.0	61.5	82.0	102.5	123.0	137.6	152.2	166.8	181.4
87.5°	9.5	8.2	6.6	6.6	6.6	6.5	6.3	6.3	6.3	6.3	6.3
85°	9.5	8.5	6.9	6.9	6.9	6.7	6.3	6.3	6.3	6.3	6.3
82.5°	9.5	8.7	7.2	7.2	7.1	6.8	6.3	6.3	6.3	6.4	6.3
80°	9.5	9.0	7.5	7.6	7.4	7.0	6.5	6.8	6.9	6.8	6.4
77.5°	9.5	9.3	7.8	7.9	7.7	7.6	7.4	7.5	7.5	7.2	6.7
75°	9.5	9.6	8.2	8.2	8.2	8.7	8.3	8.3	8.2	8.2	7.5
72.5°	9.5	9.9	8.5	8.6	9.3	9.8	9.4	9.4	9.7	9.5	8.5
70°	9.5	10.2	8.9	9.0	10.5	11.0	10.5	11.0	11.3	10.9	10.3
67.5°	9.5	10.5	9.3	10.1	11.7	12.2	12.6	12.8	13.0	13.4	12.4
65°	9.5	10.8	9.8	11.1	12.9	13.9	14.8	14.6	16.0	16.2	15.3
62.5°	9.5	11.2	10.3	12.2	14.1	16.3	17.1	17.3	19.0	19.4	19.4
60°	9.5	11.5	10.8	13.2	15.4	18.7	19.6	20.5	22.3	24.0	23.8
57.5°	9.5	11.8	11.8	14.3	17.6	21.2	23.4	24.1	26.8	28.8	31.5
55°	9.5	12.1	12.9	15.4	19.8	23.8	27.6	28.4	31.8	35.1	41.3
52.5°	9.5	12.5	14.0	16.4	22.1	26.7	32.1	34.4	37.0	45.7	52.1
50°	9.5	12.8	15.2	17.5	24.5	30.8	36.8	41.0	43.9	57.0	69.2
47.5°	9.5	13.1	16.4	18.8	26.9	35.1	42.0	48.0	55.0	69.0	88.2
45°	9.5	13.5	17.7	20.6	29.3	39.5	48.6	55.6	68.7	87.5	108.4
42.5°	9.5	13.8	18.9	22.4	31.7	44.1	55.6	66.3	83.0	107.0	138.6
40°	9.5	14.1	20.2	24.9	34.8	48.7	62.8	79.2	99.7	127.7	172.6
37.5°	9.5	14.5	21.6	27.7	38.4	53.5	70.2	92.4	120.5	154.3	208.8
35°	9.5	14.8	22.9	30.5	42.0	59.1	77.9	105.8	141.7	187.8	249.4
32.5°	9.5	15.2	24.3	33.4	45.7	65.2	86.8	119.4	163.4	220.7	291.8
30°	9.5	15.5	25.7	36.3	49.2	71.3	97.9	134.3	185.4	252.8	332.4
27.5°	9.5	15.8	27.1	39.3	54.3	77.5	108.9	152.3	209.4	284.1	371.2
25°	9.5	16.2	28.5	42.3	59.6	83.6	119.8	170.2	235.7	316.2	408.2
22.5°	9.5	16.5	29.9	45.2	64.8	90.2	130.5	187.8	261.0	347.7	449.0
20°	9.5	16.8	31.3	48.2	69.9	97.6	141.0	205.2	285.3	377.3	487.5
17.5°	9.5	17.1	32.6	51.1	74.9	104.9	151.6	222.0	308.4	405.1	523.7
15°	9.5	17.4	34.0	54.0	79.8	111.8	161.8	237.6	330.2	431.0	557.3
12.5°	9.5	17.7	35.3	56.8	84.6	118.5	171.4	251.1	350.0	454.9	588.4
10°	9.5	17.9	36.5	59.6	89.3	124.8	180.4	263.5	368.1	481.0	620.4
7.5°	9.5	18.2	37.8	62.2	93.7	130.8	188.8	274.8	384.9	506.5	657.7
5°	9.5	18.5	38.9	64.7	97.9	136.5	196.5	284.8	400.3	530.5	692.7
2.5°	9.5	18.7	40.0	67.1	101.9	141.8	203.5	293.6	413.9	552.6	724.9
0°	9.5	18.9	41.0	69.4	105.7	146.7	209.8	301.2	425.8	572.5	753.9
-2.5°	9.5	19.8	43.2	73.1	110.4	152.8	217.2	311.5	439.7	587.8	770.1
-5°	9.5	20.7	45.4	76.5	114.9	158.5	223.9	320.4	451.5	600.5	782.5
-7.5°	9.5	21.6	47.4	79.8	119.0	163.7	229.8	327.9	461.0	610.4	791.3
-10°	9.5	22.4	49.3	82.9	122.9	168.5	234.9	333.9	468.2	617.7	796.5
-12.5°	9.5	23.3	51.1	85.8	126.4	172.8	239.2	338.3	472.8	622.6	801.8
-15°	9.5	24.0	52.8	88.5	129.7	176.7	242.6	340.9	475.5	627.1	804.9
-17.5°	9.5	24.8	54.4	90.9	132.6	180.1	245.2	342.9	476.4	628.4	803.6
-20°	9.5	25.5	55.8	93.1	135.2	182.9	247.4	343.9	474.8	626.4	797.9



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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°	9.5	26.2	57.0	95.0	137.5	185.3	249.5	343.0	470.5	621.3	787.6
-25°	9.5	26.8	58.1	96.7	139.5	187.6	250.5	340.1	463.7	612.8	772.8
-27.5°	9.5	27.4	59.1	98.1	141.2	189.5	250.5	335.3	454.2	601.7	760.2
-30°	9.5	27.9	59.9	99.3	142.6	190.8	249.4	328.5	445.4	588.6	744.1
-32.5°	9.5	28.4	60.5	100.1	143.7	191.5	247.2	324.8	436.0	572.4	724.2
-35°	9.5	28.8	60.9	100.7	144.4	191.6	246.4	321.3	424.2	553.2	700.4
-37.5°	9.5	29.2	61.2	101.0	144.8	191.4	245.9	316.4	409.9	531.1	675.8
-40°	9.5	29.6	61.3	101.1	144.7	191.4	244.7	310.1	393.1	510.6	647.8
-42.5°	9.5	29.8	61.2	100.8	144.3	190.8	242.6	302.4	381.0	488.4	615.2
-45°	9.5	30.1	60.9	100.2	143.5	189.6	239.8	295.8	370.6	463.2	579.4
-47.5°	9.5	30.2	60.5	99.4	142.3	188.0	236.2	291.5	358.5	435.4	547.6
-50°	9.5	30.3	59.9	98.4	140.7	185.7	233.2	286.3	343.9	418.4	512.6
-52.5°	9.5	30.4	59.1	97.1	138.8	183.0	229.7	280.1	333.4	399.3	476.1
-55°	9.5	30.4	58.2	95.6	136.4	179.8	225.6	273.3	324.2	378.2	451.6
-57.5°	9.5	30.4	57.1	93.8	133.6	176.1	220.8	267.5	314.1	364.0	424.8
-60°	9.5	30.2	55.8	91.7	130.5	172.0	215.4	260.3	303.5	351.3	400.6
-62.5°	9.5	30.1	55.2	89.4	127.2	167.3	209.4	252.3	294.0	337.6	384.9
-65°	9.5	29.9	54.5	86.9	123.4	162.1	202.9	243.6	283.6	324.8	368.2
-67.5°	9.5	29.6	53.6	84.1	119.4	156.6	195.7	234.2	272.4	311.8	352.2
-70°	9.5	29.3	52.7	81.1	115.0	150.7	188.0	224.1	260.2	297.8	336.1
-72.5°	9.5	28.9	51.6	79.0	110.3	144.3	179.8	213.4	247.2	282.4	318.9
-75°	9.5	28.5	50.3	77.0	105.3	137.5	171.1	202.1	233.6	266.2	299.9
-77.5°	9.5	28.1	49.0	74.8	101.7	130.4	161.9	190.3	219.1	249.1	280.0
-80°	9.5	27.6	47.6	72.4	98.1	124.6	152.3	177.9	204.0	231.1	259.0
-82.5°	9.5	27.1	46.1	69.9	94.4	119.5	145.1	166.4	188.5	212.5	237.1
-85°	9.5	26.5	44.4	67.2	90.4	114.0	138.0	157.1	176.5	196.4	216.7
-87.5°	9.5	25.9	42.8	64.4	86.3	108.4	130.6	147.5	164.5	181.7	199.2
-90°	9.5	7.9	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3





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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°	195.2	209.0	222.8	236.6	246.9	257.1	267.4	277.6	286.3	295.0	303.6
87.5°	5.9	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.3	4.0	3.6
85°	5.9	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.3	4.0	3.6
82.5°	5.9	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.4	4.2	4.0
80°	6.0	5.6	5.4	5.2	5.2	5.2	5.0	4.8	4.7	4.8	4.8
77.5°	6.5	6.4	6.3	6.2	6.0	5.7	5.6	5.6	5.6	5.4	5.2
75°	7.2	7.2	7.1	6.6	6.2	6.2	6.3	6.3	6.1	5.7	5.3
72.5°	8.2	8.2	7.7	6.9	6.6	6.8	6.7	6.5	6.9	7.8	8.6
70°	9.5	9.2	9.1	8.3	7.5	7.9	9.1	10.4	11.5	13.4	16.2
67.5°	11.1	11.6	11.2	10.4	10.3	11.8	13.3	18.3	23.8	26.8	28.0
65°	14.0	14.2	15.0	15.2	14.3	18.6	24.4	30.9	37.1	38.3	37.3
62.5°	17.4	19.2	20.4	21.7	23.4	27.8	34.4	41.0	47.7	45.7	39.4
60°	24.1	25.1	28.7	32.4	33.6	36.0	43.2	46.9	49.1	47.8	37.2
57.5°	32.3	34.1	40.3	44.5	45.8	43.0	45.7	48.0	47.8	42.1	32.3
55°	43.8	46.1	53.6	59.2	58.9	48.5	47.9	50.2	46.6	40.9	31.9
52.5°	60.4	61.7	70.1	76.0	73.9	63.1	55.5	59.1	58.5	51.2	43.5
50°	78.6	85.6	88.7	97.1	96.5	87.8	73.4	80.6	93.3	91.0	80.1
47.5°	104.4	113.5	113.9	124.0	128.6	136.2	123.9	139.3	158.1	196.6	184.3
45°	135.4	150.5	151.6	161.0	184.8	213.5	225.0	224.1	319.4	353.7	378.7
42.5°	169.7	193.8	204.0	203.3	279.9	323.4	348.1	426.8	499.2	521.1	532.8
40°	213.0	242.1	264.2	313.6	392.9	453.1	515.3	599.3	638.8	642.7	642.8
37.5°	260.6	302.9	338.6	422.7	523.9	590.7	667.9	704.1	731.5	733.0	764.0
35°	311.5	368.5	434.5	528.4	639.8	715.6	760.2	792.9	807.9	842.2	993.0
32.5°	370.0	438.7	524.9	629.4	735.7	813.0	839.6	867.8	904.2	1006.0	1448.8
30°	428.9	517.7	610.7	723.1	831.0	885.4	913.5	948.9	1006.0	1403.4	2016.9
27.5°	478.9	591.8	693.2	810.5	920.6	958.3	990.8	1043.8	1286.4	1844.0	2696.4
25°	526.7	650.6	769.6	896.7	987.8	1029.5	1070.4	1142.3	1615.8	2499.3	3081.1
22.5°	574.6	710.1	838.8	981.9	1054.8	1098.0	1160.9	1429.5	2091.9	3154.1	3427.6
20°	623.8	769.6	907.6	1050.8	1119.2	1164.1	1250.5	1754.9	2673.8	3433.5	3686.8
17.5°	672.0	826.8	972.2	1099.3	1170.3	1233.8	1370.7	2082.1	3197.6	3709.2	3885.5
15°	718.8	881.6	1031.0	1146.3	1221.2	1309.0	1653.2	2517.3	3537.3	3956.6	4124.1
12.5°	763.7	933.6	1084.1	1191.4	1272.1	1383.5	1948.7	2947.6	3764.8	4151.5	4311.8
10°	806.1	982.3	1131.7	1234.4	1322.3	1456.4	2246.7	3310.8	3952.5	4283.2	4405.5
7.5°	846.1	1024.4	1174.3	1275.1	1371.3	1526.6	2535.8	3610.5	4100.6	4395.0	4470.2
5°	881.2	1058.8	1213.6	1318.9	1420.6	1588.8	2783.2	3850.3	4215.5	4488.0	4537.0
2.5°	911.3	1088.4	1249.2	1361.2	1468.2	1638.3	2902.9	3947.5	4230.1	4529.0	4606.4
0°	936.8	1113.4	1280.6	1400.5	1512.4	1681.2	2971.3	3997.9	4212.4	4540.5	4679.2
-2.5°	957.7	1147.5	1325.4	1441.8	1554.7	1721.8	2966.3	4036.9	4256.7	4644.9	4959.0
-5°	974.1	1176.1	1364.8	1480.2	1593.5	1756.6	2913.0	4025.7	4317.2	4737.3	5131.4
-7.5°	985.9	1198.5	1398.1	1516.3	1631.6	1796.4	2875.0	4074.0	4493.2	4847.0	5201.3
-10°	993.8	1213.3	1418.4	1549.9	1670.0	1835.6	2793.1	4053.8	4657.7	4956.9	5268.4
-12.5°	1002.9	1221.7	1431.4	1579.3	1703.4	1866.6	2648.5	3956.9	4810.0	5075.4	5334.0
-15°	1006.6	1224.5	1438.2	1603.9	1731.6	1888.6	2438.6	3777.7	4911.8	5139.9	5376.0
-17.5°	1004.9	1221.8	1438.9	1623.7	1754.2	1901.4	2161.4	3445.6	4751.9	5165.2	5415.0
-20°	997.5	1213.7	1433.1	1638.2	1771.2	1917.2	2116.8	3064.0	4315.2	5146.3	5443.0



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	984.5	1200.2	1419.8	1630.1	1790.1	1937.4	2119.0	2668.2	3799.9	5082.1	5445.1
-25°	967.6	1181.2	1399.2	1621.3	1806.8	1951.0	2112.6	2322.5	3289.7	4527.8	5390.7
-27.5°	947.2	1155.6	1379.0	1604.6	1820.2	1959.8	2114.1	2306.1	2839.8	3887.3	5183.4
-30°	921.6	1127.0	1350.7	1578.6	1801.5	1969.3	2114.5	2268.1	2465.1	3309.6	4426.7
-32.5°	892.5	1092.0	1313.4	1540.1	1766.7	1975.7	2102.3	2241.4	2410.8	2714.1	3668.4
-35°	863.2	1056.1	1267.8	1492.5	1722.5	1937.9	2091.9	2216.3	2355.2	2539.8	2975.4
-37.5°	834.8	1014.1	1214.5	1435.5	1661.2	1870.1	2072.5	2195.5	2322.8	2452.7	2633.9
-40°	801.2	966.3	1160.1	1369.2	1581.4	1789.8	1990.6	2174.3	2291.3	2403.8	2521.3
-42.5°	762.9	923.5	1101.3	1292.5	1492.9	1695.3	1899.2	2092.3	2256.5	2357.2	2464.3
-45°	721.5	875.4	1038.2	1214.5	1396.4	1592.1	1788.6	1985.5	2160.9	2317.8	2413.6
-47.5°	675.0	822.2	978.0	1130.3	1299.9	1479.9	1669.3	1854.5	2035.2	2202.0	2365.0
-50°	626.6	764.4	908.1	1050.3	1201.8	1366.3	1540.4	1715.9	1889.2	2059.0	2219.2
-52.5°	583.4	701.2	833.8	968.9	1106.6	1253.2	1407.9	1566.7	1732.9	1897.9	2046.9
-55°	536.7	644.1	754.7	882.2	1012.9	1144.8	1274.1	1417.3	1565.6	1721.1	1860.2
-57.5°	499.0	585.0	682.1	790.2	912.8	1036.8	1150.6	1265.8	1397.8	1535.7	1656.6
-60°	465.7	533.5	612.5	706.3	807.0	918.9	1026.1	1132.5	1239.1	1344.4	1458.6
-62.5°	433.4	492.3	554.2	625.3	714.4	800.4	894.8	993.1	1091.4	1185.7	1277.1
-65°	413.8	454.9	507.6	565.7	623.8	698.8	775.1	850.6	937.4	1022.7	1106.3
-67.5°	392.7	431.5	470.7	513.6	566.9	616.1	665.0	733.3	800.9	864.9	930.6
-70°	372.9	407.4	443.8	480.9	516.8	553.2	598.0	642.3	685.8	732.8	789.3
-72.5°	352.7	384.6	417.2	450.6	482.9	513.0	543.3	573.7	609.2	647.5	684.7
-75°	330.8	360.7	390.6	421.0	449.1	475.8	502.9	530.4	557.3	584.1	610.9
-77.5°	307.6	334.6	362.2	390.1	415.0	438.5	462.4	486.5	510.1	533.4	556.6
-80°	283.5	307.8	332.3	357.1	378.5	399.4	420.4	441.4	462.2	482.8	503.1
-82.5°	258.4	279.6	301.2	323.0	341.3	359.2	377.0	394.9	412.4	429.9	447.3
-85°	233.9	250.9	269.2	287.7	303.1	318.3	333.5	348.6	363.3	377.8	392.2
-87.5°	214.7	230.1	245.5	260.8	272.9	284.8	296.8	308.7	319.8	331.0	342.3
-90°	5.9	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.3	4.0	3.6



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	312.3	318.2	324.1	330.0	335.9	341.0	346.2	351.3	356.4	359.6	362.7
87.5°	3.2	3.1	3.1	3.1	3.1	2.7	2.4	2.0	1.6	1.6	1.6
85°	3.2	3.2	3.2	3.2	3.2	2.8	2.4	2.0	1.6	1.6	1.6
82.5°	3.9	3.8	3.7	3.5	3.2	3.1	3.1	3.0	3.0	3.1	3.1
80°	4.7	4.4	4.0	3.6	3.3	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	4.8	4.4	4.0	3.7	3.3	3.2	3.2	3.2	3.2	3.2	3.2
75°	4.9	4.7	5.0	5.0	4.7	4.7	4.7	4.6	4.5	4.2	3.9
72.5°	9.3	9.7	9.6	9.9	9.9	10.2	10.6	10.8	10.9	10.9	11.0
70°	17.7	18.3	18.8	18.6	17.5	16.6	16.1	15.7	15.2	15.5	16.5
67.5°	27.0	25.1	24.2	22.8	20.3	18.1	16.9	15.5	14.1	13.4	13.2
65°	33.5	26.4	23.0	20.4	18.3	15.9	13.7	11.8	10.1	9.1	8.7
62.5°	31.8	22.7	17.9	15.1	12.6	10.4	8.6	7.2	6.2	5.7	5.8
60°	27.2	17.8	12.5	10.1	7.6	5.0	4.6	4.4	4.1	3.8	4.0
57.5°	24.3	16.0	9.8	9.5	8.2	5.9	5.1	5.2	4.4	3.2	3.7
55°	27.1	22.9	15.9	16.3	15.9	13.4	11.4	13.6	13.1	10.3	11.3
52.5°	40.6	46.6	38.0	35.2	48.1	47.7	37.3	51.0	58.5	57.3	58.4
50°	95.6	107.9	121.0	110.8	136.0	151.1	147.8	165.6	183.8	183.4	189.1
47.5°	226.4	260.5	264.3	271.1	299.9	336.5	366.3	387.3	398.0	393.5	396.7
45°	405.1	412.8	430.6	469.7	518.7	577.7	622.7	648.8	736.8	799.2	835.8
42.5°	537.0	561.0	604.4	707.8	783.5	957.7	1168.3	1250.0	1353.6	1406.1	1409.4
40°	669.2	730.3	909.5	1097.8	1506.8	1810.9	1829.1	1958.0	2017.4	1952.0	1942.2
37.5°	887.7	1114.6	1422.4	1857.7	2047.9	2130.5	2176.0	2192.4	2204.4	2193.5	2187.8
35°	1318.1	1712.8	2015.0	2156.9	2242.8	2245.5	2256.1	2254.6	2240.5	2233.2	2217.5
32.5°	1953.0	2329.4	2338.6	2327.6	2345.6	2335.3	2315.5	2306.4	2275.9	2257.5	2263.7
30°	2607.6	2609.7	2572.5	2486.3	2443.2	2429.9	2401.3	2377.8	2348.9	2353.2	2453.9
27.5°	2867.3	2835.5	2783.5	2709.1	2564.5	2536.2	2513.2	2503.3	2624.4	2735.0	2833.7
25°	3157.9	3075.5	3046.9	2982.0	2833.3	2668.7	2741.1	2854.9	3013.2	3178.0	3337.0
22.5°	3409.2	3349.7	3331.3	3307.3	3064.5	2993.6	3092.9	3280.2	3496.4	3782.7	4600.2
20°	3656.9	3592.6	3571.5	3450.4	3323.2	3340.8	3525.3	3851.8	4456.4	6628.8	9281.7
17.5°	3865.2	3798.6	3726.6	3585.3	3544.9	3721.9	4091.0	5238.0	8091.7	15222.4	22469.7
15°	4059.2	3971.7	3849.3	3756.6	3833.3	4163.0	5077.2	8985.4	18228.9	30197.7	45288.4
12.5°	4231.6	4097.7	3926.5	3878.3	4111.6	4666.9	8252.6	17631.7	31771.2	48822.3	84249.4
10°	4351.5	4178.0	4028.7	4111.7	4482.4	5973.1	11875.9	26434.0	47351.9	85489.0	129594.8
7.5°	4403.1	4246.1	4159.2	4337.4	4832.4	7670.8	17877.8	36558.3	66879.2	118160.4	188532.2
5°	4461.6	4353.2	4304.7	4560.9	5169.6	9054.0	22194.2	45078.4	87761.2	148845.8	239466.9
2.5°	4579.6	4476.4	4442.6	4757.0	5464.5	10343.7	25567.2	51702.2	101596.0	174450.9	284666.9
0°	4788.1	4573.6	4546.8	4854.3	5582.9	10930.9	27780.6	55696.8	108176.2	185406.6	306906.3
-2.5°	4953.6	4698.1	4647.0	4921.3	5635.1	10643.1	27556.1	55559.1	105491.6	181744.9	292783.3
-5°	5098.0	4841.7	4771.2	5026.0	5749.7	10632.4	26096.2	50978.6	94395.7	159702.4	246745.8
-7.5°	5226.4	5004.8	4900.5	5103.3	5764.9	9521.6	21107.5	41971.4	75452.9	124686.8	190978.5
-10°	5361.9	5191.7	5049.6	5185.3	5700.8	7576.0	14120.8	30254.6	53734.4	90421.4	135909.8
-12.5°	5516.8	5431.0	5222.1	5241.8	5614.1	6393.0	10436.6	21122.2	37305.8	56959.6	89932.5
-15°	5648.2	5644.3	5469.4	5413.8	5598.8	6098.3	7281.4	11729.8	22629.6	36614.8	52925.9
-17.5°	5675.6	5815.4	5748.4	5578.4	5589.4	5869.4	6357.0	7773.2	11367.0	20146.3	29851.3
-20°	5693.3	5991.9	5998.8	5860.9	5739.9	5708.7	5931.6	6344.6	7147.7	10114.5	14019.6



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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°	5720.2	6004.0	6205.9	6167.8	5930.3	5791.5	5741.5	5898.0	6169.8	6552.6	7819.6
-25°	5733.1	5997.9	6286.9	6366.2	6266.6	6012.5	5822.3	5716.2	5812.3	5933.9	6181.7
-27.5°	5678.4	5988.4	6268.6	6503.5	6532.1	6365.9	6086.4	5859.7	5771.6	5688.2	5790.3
-30°	5587.5	5933.8	6226.9	6515.8	6631.4	6578.2	6431.9	6247.9	6033.2	5866.1	5807.5
-32.5°	4843.6	5852.2	6152.3	6402.7	6593.3	6647.8	6649.3	6550.8	6459.0	6330.2	6179.4
-35°	3990.5	5109.3	6085.7	6211.9	6386.6	6567.1	6701.1	6705.7	6695.0	6633.9	6570.4
-37.5°	3102.1	4144.6	5083.7	5835.4	6099.8	6312.2	6541.7	6696.8	6794.3	6776.7	6765.0
-40°	2700.7	3029.3	3907.8	4674.1	5317.0	5921.8	6170.5	6449.2	6673.4	6751.4	6804.0
-42.5°	2576.8	2717.4	2860.4	3441.0	4103.3	4685.8	5233.7	5756.1	6222.6	6486.9	6670.8
-45°	2508.8	2587.0	2674.6	2803.9	2915.7	3398.1	3889.0	4365.7	4947.6	5483.4	5947.9
-47.5°	2445.9	2507.1	2574.9	2641.4	2703.5	2791.1	2867.0	3002.3	3438.2	3877.7	4318.8
-50°	2344.6	2445.7	2501.9	2551.6	2595.5	2636.2	2671.3	2732.4	2804.8	2867.8	2931.6
-52.5°	2175.3	2289.1	2397.1	2479.0	2513.4	2547.2	2581.8	2628.1	2670.9	2710.1	2740.2
-55°	1985.5	2100.7	2209.6	2292.6	2367.0	2435.5	2496.6	2537.7	2577.7	2616.2	2645.5
-57.5°	1776.7	1894.1	2000.7	2080.2	2154.7	2223.8	2291.0	2355.6	2414.7	2468.0	2513.4
-60°	1565.3	1664.4	1760.7	1844.8	1921.6	1990.8	2057.3	2120.8	2179.0	2231.3	2276.8
-62.5°	1366.8	1458.6	1534.8	1603.6	1669.6	1733.5	1800.8	1862.7	1919.0	1970.4	2017.5
-65°	1187.8	1267.0	1324.6	1378.5	1429.4	1484.2	1543.4	1597.9	1647.7	1693.8	1736.4
-67.5°	1003.7	1072.3	1122.9	1169.5	1212.9	1256.7	1304.0	1348.0	1388.7	1427.5	1463.9
-70°	843.9	891.7	927.0	962.7	1001.3	1040.7	1081.4	1118.5	1151.9	1183.7	1213.0
-72.5°	720.9	750.3	775.1	805.7	833.2	862.6	892.8	920.8	946.4	971.3	994.7
-75°	637.8	659.3	679.5	698.4	716.1	737.1	758.9	779.5	798.9	817.1	834.3
-77.5°	579.9	596.6	610.5	623.7	636.2	652.5	669.6	686.2	702.4	716.1	728.8
-80°	523.3	536.8	548.7	560.1	571.2	585.2	599.5	613.4	627.0	639.4	651.3
-82.5°	464.7	475.7	485.8	495.6	505.0	516.9	528.8	540.3	551.4	561.6	571.5
-85°	406.5	414.9	422.8	430.4	437.8	447.5	457.1	466.6	475.8	482.5	488.8
-87.5°	353.5	359.7	365.7	371.6	377.4	384.4	391.4	398.3	405.1	409.6	414.0
-90°	3.2	2.8	2.4	2.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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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°	365.9	369.0	368.3	367.5	368.3	369.0	365.9	362.7	359.6	356.4	351.3
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.0	3.0
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	3.6	3.2	3.2	3.2	3.2	3.2	3.6	3.9	4.2	4.5	4.6
72.5°	11.0	10.8	10.9	11.0	10.9	10.8	11.0	11.0	10.9	10.9	10.8
70°	17.5	18.6	18.8	18.9	18.8	18.6	17.5	16.5	15.5	15.2	15.7
67.5°	13.0	12.8	11.9	11.0	11.9	12.8	13.0	13.2	13.4	14.1	15.5
65°	8.3	8.1	7.9	7.9	7.9	8.1	8.3	8.7	9.1	10.1	11.8
62.5°	6.0	6.3	6.3	6.3	6.3	6.3	6.0	5.8	5.7	6.2	7.2
60°	4.3	4.7	4.7	4.7	4.7	4.7	4.3	4.0	3.8	4.1	4.4
57.5°	4.1	4.6	4.7	4.7	4.7	4.6	4.1	3.7	3.2	4.4	5.2
55°	12.0	12.3	11.9	11.0	11.9	12.3	12.0	11.3	10.3	13.1	13.6
52.5°	57.5	53.0	46.2	37.9	46.2	53.0	57.5	58.4	57.3	58.5	51.0
50°	200.1	205.5	200.7	186.1	200.7	205.5	200.1	189.1	183.4	183.8	165.6
47.5°	412.2	416.7	402.4	369.0	402.4	416.7	412.2	396.7	393.5	398.0	387.3
45°	863.0	856.3	782.0	627.7	782.0	856.3	863.0	835.8	799.2	736.8	648.8
42.5°	1488.3	1554.7	1593.7	1594.4	1593.7	1554.7	1488.3	1409.4	1406.1	1353.6	1250.0
40°	1926.4	1848.6	1763.8	1750.6	1763.8	1848.6	1926.4	1942.2	1952.0	2017.4	1958.0
37.5°	2174.5	2190.9	2181.5	1998.2	2181.5	2190.9	2174.5	2187.8	2193.5	2204.4	2192.4
35°	2253.6	2376.7	2503.6	2529.7	2503.6	2376.7	2253.6	2217.5	2233.2	2240.5	2254.6
32.5°	2291.7	2334.0	2345.5	2349.9	2345.5	2334.0	2291.7	2263.7	2257.5	2275.9	2306.4
30°	2500.4	2527.9	2523.9	2518.6	2523.9	2527.9	2500.4	2453.9	2353.2	2348.9	2377.8
27.5°	2880.2	2925.8	2946.3	2960.2	2946.3	2925.8	2880.2	2833.7	2735.0	2624.4	2503.3
25°	3423.9	3493.7	3541.6	3562.7	3541.6	3493.7	3423.9	3337.0	3178.0	3013.2	2854.9
22.5°	5544.4	6028.3	6507.1	6754.7	6507.1	6028.3	5544.4	4600.2	3782.7	3496.4	3280.2
20°	13841.2	15931.7	16886.4	17165.1	16886.4	15931.7	13841.2	9281.7	6628.8	4456.4	3851.8
17.5°	32233.3	40157.5	45457.7	40813.7	45457.7	40157.5	32233.3	22469.7	15222.4	8091.7	5238.0
15°	65974.1	86043.5	97273.7	90954.3	97273.7	86043.5	65974.1	45288.4	30197.7	18228.9	8985.4
12.5°	118866.4	150187.7	171224.2	164287.0	171224.2	150187.7	118866.4	84249.4	48822.3	31771.2	17631.7
10°	187093.1	250075.4	292012.7	302380.0	292012.7	250075.4	187093.1	129594.8	85489.0	47351.9	26434.0
7.5°	271507.9	349488.5	411042.3	420569.3	411042.3	349488.5	271507.9	188532.2	118160.4	66879.2	36558.3
5°	354090.5	446136.5	510182.1	526808.8	510182.1	446136.5	354090.5	239466.9	148845.8	87761.2	45078.4
2.5°	405347.2	505531.9	582678.2	616659.2	582678.2	505531.9	405347.2	284666.9	174450.9	101596.0	51702.2
0°	423642.2	528272.3	611976.0	660720.1	611976.0	528272.3	423642.2	306906.3	185406.6	108176.2	55696.8
-2.5°	409457.8	504210.2	574871.0	608756.3	574871.0	504210.2	409457.8	292783.3	181744.9	105491.6	55559.1
-5°	348742.4	442885.7	500376.6	527979.0	500376.6	442885.7	348742.4	246745.8	159702.4	94395.7	50978.6
-7.5°	272511.2	347861.4	397506.0	422617.9	397506.0	347861.4	272511.2	190978.5	124686.8	75452.9	41971.4
-10°	190676.0	250456.6	283921.0	304411.3	283921.0	250456.6	190676.0	135909.8	90421.4	53734.4	30254.6
-12.5°	124063.2	158859.0	177601.4	190729.4	177601.4	158859.0	124063.2	89932.5	56959.6	37305.8	21122.2
-15°	75313.8	92271.8	102447.3	108826.0	102447.3	92271.8	75313.8	52925.9	36614.8	22629.6	11729.8
-17.5°	42035.6	49319.4	54476.8	57330.6	54476.8	49319.4	42035.6	29851.3	20146.3	11367.0	7773.2
-20°	20858.2	25465.9	28492.4	29763.0	28492.4	25465.9	20858.2	14019.6	10114.5	7147.7	6344.6



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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°	9626.1	10857.0	11671.9	12060.1	11671.9	10857.0	9626.1	7819.6	6552.6	6169.8	5898.0
-25°	6422.6	6615.7	6757.6	6819.4	6757.6	6615.7	6422.6	6181.7	5933.9	5812.3	5716.2
-27.5°	5882.7	5985.0	6069.8	6103.4	6069.8	5985.0	5882.7	5790.3	5688.2	5771.6	5859.7
-30°	5762.4	5766.9	5790.9	5791.1	5790.9	5766.9	5762.4	5807.5	5866.1	6033.2	6247.9
-32.5°	6065.3	5998.8	5969.8	6000.9	5969.8	5998.8	6065.3	6179.4	6330.2	6459.0	6550.8
-35°	6528.0	6510.1	6511.5	6545.0	6511.5	6510.1	6528.0	6570.4	6633.9	6695.0	6705.7
-37.5°	6768.0	6782.1	6798.0	6802.0	6798.0	6782.1	6768.0	6765.0	6776.7	6794.3	6696.8
-40°	6834.6	6862.2	6883.1	6890.3	6883.1	6862.2	6834.6	6804.0	6751.4	6673.4	6449.2
-42.5°	6752.0	6807.0	6836.1	6843.0	6836.1	6807.0	6752.0	6670.8	6486.9	6222.6	5756.1
-45°	6285.3	6530.0	6668.4	6705.8	6668.4	6530.0	6285.3	5947.9	5483.4	4947.6	4365.7
-47.5°	4747.8	5132.0	5399.4	5523.0	5399.4	5132.0	4747.8	4318.8	3877.7	3438.2	3002.3
-50°	2998.5	3061.8	3109.1	3138.4	3109.1	3061.8	2998.5	2931.6	2867.8	2804.8	2732.4
-52.5°	2766.3	2789.6	2803.1	2808.8	2803.1	2789.6	2766.3	2740.2	2710.1	2670.9	2628.1
-55°	2670.7	2692.1	2701.6	2703.1	2701.6	2692.1	2670.7	2645.5	2616.2	2577.7	2537.7
-57.5°	2552.6	2585.4	2599.9	2602.2	2599.9	2585.4	2552.6	2513.4	2468.0	2414.7	2355.6
-60°	2315.4	2347.2	2362.8	2368.8	2362.8	2347.2	2315.4	2276.8	2231.3	2179.0	2120.8
-62.5°	2058.4	2092.9	2103.5	2102.3	2103.5	2092.9	2058.4	2017.5	1970.4	1919.0	1862.7
-65°	1773.6	1805.2	1814.3	1813.7	1814.3	1805.2	1773.6	1736.4	1693.8	1647.7	1597.9
-67.5°	1496.1	1524.0	1533.7	1536.1	1533.7	1524.0	1496.1	1463.9	1427.5	1388.7	1348.0
-70°	1238.7	1260.8	1266.3	1266.4	1266.3	1260.8	1238.7	1213.0	1183.7	1151.9	1118.5
-72.5°	1015.9	1035.0	1038.2	1037.7	1038.2	1035.0	1015.9	994.7	971.3	946.4	920.8
-75°	850.4	865.5	866.0	864.2	866.0	865.5	850.4	834.3	817.1	798.9	779.5
-77.5°	740.7	751.9	754.2	755.4	754.2	751.9	740.7	728.8	716.1	702.4	686.2
-80°	662.7	673.4	673.1	671.8	673.1	673.4	662.7	651.3	639.4	627.0	613.4
-82.5°	581.1	590.2	590.3	589.8	590.3	590.2	581.1	571.5	561.6	551.4	540.3
-85°	495.0	500.9	500.6	499.9	500.6	500.9	495.0	488.8	482.5	475.8	466.6
-87.5°	418.3	422.5	422.6	422.7	422.6	422.5	418.3	414.0	409.6	405.1	398.3
-90°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	346.2	341.0	335.9	330.0	324.1	318.2	312.3	303.6	295.0	286.3	277.6
87.5°	2.4	2.7	3.1	3.1	3.1	3.1	3.2	3.6	4.0	4.3	4.7
85°	2.4	2.8	3.2	3.2	3.2	3.2	3.2	3.6	4.0	4.3	4.7
82.5°	3.1	3.1	3.2	3.5	3.7	3.8	3.9	4.0	4.2	4.4	4.7
80°	3.2	3.2	3.3	3.6	4.0	4.4	4.7	4.8	4.8	4.7	4.8
77.5°	3.2	3.2	3.3	3.7	4.0	4.4	4.8	5.2	5.4	5.6	5.6
75°	4.7	4.7	4.7	5.0	5.0	4.7	4.9	5.3	5.7	6.1	6.3
72.5°	10.6	10.2	9.9	9.9	9.6	9.7	9.3	8.6	7.8	6.9	6.5
70°	16.1	16.6	17.5	18.6	18.8	18.3	17.7	16.2	13.4	11.5	10.4
67.5°	16.9	18.1	20.3	22.8	24.2	25.1	27.0	28.0	26.8	23.8	18.3
65°	13.7	15.9	18.3	20.4	23.0	26.4	33.5	37.3	38.3	37.1	30.9
62.5°	8.6	10.4	12.6	15.1	17.9	22.7	31.8	39.4	45.7	47.7	41.0
60°	4.6	5.0	7.6	10.1	12.5	17.8	27.2	37.2	47.8	49.1	46.9
57.5°	5.1	5.9	8.2	9.5	9.8	16.0	24.3	32.3	42.1	47.8	48.0
55°	11.4	13.4	15.9	16.3	15.9	22.9	27.1	31.9	40.9	46.6	50.2
52.5°	37.3	47.7	48.1	35.2	38.0	46.6	40.6	43.5	51.2	58.5	59.1
50°	147.8	151.1	136.0	110.8	121.0	107.9	95.6	80.1	91.0	93.3	80.6
47.5°	366.3	336.5	299.9	271.1	264.3	260.5	226.4	184.3	196.6	158.1	139.3
45°	622.7	577.7	518.7	469.7	430.6	412.8	405.1	378.7	353.7	319.4	224.1
42.5°	1168.3	957.7	783.5	707.8	604.4	561.0	537.0	532.8	521.1	499.2	426.8
40°	1829.1	1810.9	1506.8	1097.8	909.5	730.3	669.2	642.8	642.7	638.8	599.3
37.5°	2176.0	2130.5	2047.9	1857.7	1422.4	1114.6	887.7	764.0	733.0	731.5	704.1
35°	2256.1	2245.5	2242.8	2156.9	2015.0	1712.8	1318.1	993.0	842.2	807.9	792.9
32.5°	2315.5	2335.3	2345.6	2327.6	2338.6	2329.4	1953.0	1448.8	1006.0	904.2	867.8
30°	2401.3	2429.9	2443.2	2486.3	2572.5	2609.7	2607.6	2016.9	1403.4	1006.0	948.9
27.5°	2513.2	2536.2	2564.5	2709.1	2783.5	2835.5	2867.3	2696.4	1844.0	1286.4	1043.8
25°	2741.1	2668.7	2833.3	2982.0	3046.9	3075.5	3157.9	3081.1	2499.3	1615.8	1142.3
22.5°	3092.9	2993.6	3064.5	3307.3	3331.3	3349.7	3409.2	3427.6	3154.1	2091.9	1429.5
20°	3525.3	3340.8	3323.2	3450.4	3571.5	3592.6	3656.9	3686.8	3433.5	2673.8	1754.9
17.5°	4091.0	3721.9	3544.9	3585.3	3726.6	3798.6	3865.2	3885.5	3709.2	3197.6	2082.1
15°	5077.2	4163.0	3833.3	3756.6	3849.3	3971.7	4059.2	4124.1	3956.6	3537.3	2517.3
12.5°	8252.6	4666.9	4111.6	3878.3	3926.5	4097.7	4231.6	4311.8	4151.5	3764.8	2947.6
10°	11875.9	5973.1	4482.4	4111.7	4028.7	4178.0	4351.5	4405.5	4283.2	3952.5	3310.8
7.5°	17877.8	7670.8	4832.4	4337.4	4159.2	4246.1	4403.1	4470.2	4395.0	4100.6	3610.5
5°	22194.2	9054.0	5169.6	4560.9	4304.7	4353.2	4461.6	4537.0	4488.0	4215.5	3850.3
2.5°	25567.2	10343.7	5464.5	4757.0	4442.6	4476.4	4579.6	4606.4	4529.0	4230.1	3947.5
0°	27780.6	10930.9	5582.9	4854.3	4546.8	4573.6	4788.1	4679.2	4540.5	4212.4	3997.9
-2.5°	27556.1	10643.1	5635.1	4921.3	4647.0	4698.1	4953.6	4959.0	4644.9	4256.7	4036.9
-5°	26096.2	10632.4	5749.7	5026.0	4771.2	4841.7	5098.0	5131.4	4737.3	4317.2	4025.7
-7.5°	21107.5	9521.6	5764.9	5103.3	4900.5	5004.8	5226.4	5201.3	4847.0	4493.2	4074.0
-10°	14120.8	7576.0	5700.8	5185.3	5049.6	5191.7	5361.9	5268.4	4956.9	4657.7	4053.8
-12.5°	10436.6	6393.0	5614.1	5241.8	5222.1	5431.0	5516.8	5334.0	5075.4	4810.0	3956.9
-15°	7281.4	6098.3	5598.8	5413.8	5469.4	5644.3	5648.2	5376.0	5139.9	4911.8	3777.7
-17.5°	6357.0	5869.4	5589.4	5578.4	5748.4	5815.4	5675.6	5415.0	5165.2	4751.9	3445.6
-20°	5931.6	5708.7	5739.9	5860.9	5998.8	5991.9	5693.3	5443.0	5146.3	4315.2	3064.0



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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°	5741.5	5791.5	5930.3	6167.8	6205.9	6004.0	5720.2	5445.1	5082.1	3799.9	2668.2
-25°	5822.3	6012.5	6266.6	6366.2	6286.9	5997.9	5733.1	5390.7	4527.8	3289.7	2322.5
-27.5°	6086.4	6365.9	6532.1	6503.5	6268.6	5988.4	5678.4	5183.4	3887.3	2839.8	2306.1
-30°	6431.9	6578.2	6631.4	6515.8	6226.9	5933.8	5587.5	4426.7	3309.6	2465.1	2268.1
-32.5°	6649.3	6647.8	6593.3	6402.7	6152.3	5852.2	4843.6	3668.4	2714.1	2410.8	2241.4
-35°	6701.1	6567.1	6386.6	6211.9	6085.7	5109.3	3990.5	2975.4	2539.8	2355.2	2216.3
-37.5°	6541.7	6312.2	6099.8	5835.4	5083.7	4144.6	3102.1	2633.9	2452.7	2322.8	2195.5
-40°	6170.5	5921.8	5317.0	4674.1	3907.8	3029.3	2700.7	2521.3	2403.8	2291.3	2174.3
-42.5°	5233.7	4685.8	4103.3	3441.0	2860.4	2717.4	2576.8	2464.3	2357.2	2256.5	2092.3
-45°	3889.0	3398.1	2915.7	2803.9	2674.6	2587.0	2508.8	2413.6	2317.8	2160.9	1985.5
-47.5°	2867.0	2791.1	2703.5	2641.4	2574.9	2507.1	2445.9	2365.0	2202.0	2035.2	1854.5
-50°	2671.3	2636.2	2595.5	2551.6	2501.9	2445.7	2344.6	2219.2	2059.0	1889.2	1715.9
-52.5°	2581.8	2547.2	2513.4	2479.0	2397.1	2289.1	2175.3	2046.9	1897.9	1732.9	1566.7
-55°	2496.6	2435.5	2367.0	2292.6	2209.6	2100.7	1985.5	1860.2	1721.1	1565.6	1417.3
-57.5°	2291.0	2223.8	2154.7	2080.2	2000.7	1894.1	1776.7	1656.6	1535.7	1397.8	1265.8
-60°	2057.3	1990.8	1921.6	1844.8	1760.7	1664.4	1565.3	1458.6	1344.4	1239.1	1132.5
-62.5°	1800.8	1733.5	1669.6	1603.6	1534.8	1458.6	1366.8	1277.1	1185.7	1091.4	993.1
-65°	1543.4	1484.2	1429.4	1378.5	1324.6	1267.0	1187.8	1106.3	1022.7	937.4	850.6
-67.5°	1304.0	1256.7	1212.9	1169.5	1122.9	1072.3	1003.7	930.6	864.9	800.9	733.3
-70°	1081.4	1040.7	1001.3	962.7	927.0	891.7	843.9	789.3	732.8	685.8	642.3
-72.5°	892.8	862.6	833.2	805.7	775.1	750.3	720.9	684.7	647.5	609.2	573.7
-75°	758.9	737.1	716.1	698.4	679.5	659.3	637.8	610.9	584.1	557.3	530.4
-77.5°	669.6	652.5	636.2	623.7	610.5	596.6	579.9	556.6	533.4	510.1	486.5
-80°	599.5	585.2	571.2	560.1	548.7	536.8	523.3	503.1	482.8	462.2	441.4
-82.5°	528.8	516.9	505.0	495.6	485.8	475.7	464.7	447.3	429.9	412.4	394.9
-85°	457.1	447.5	437.8	430.4	422.8	414.9	406.5	392.2	377.8	363.3	348.6
-87.5°	391.4	384.4	377.4	371.6	365.7	359.7	353.5	342.3	331.0	319.8	308.7
-90°	1.6	1.6	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.3	4.7





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	267.4	257.1	246.9	236.6	222.8	209.0	195.2	181.4	166.8	152.2	137.6
87.5°	4.7	4.7	4.7	4.7	5.1	5.5	5.9	6.3	6.3	6.3	6.3
85°	4.7	4.7	4.7	4.7	5.1	5.5	5.9	6.3	6.3	6.3	6.3
82.5°	4.7	4.7	4.7	4.7	5.1	5.5	5.9	6.3	6.4	6.3	6.3
80°	5.0	5.2	5.2	5.2	5.4	5.6	6.0	6.4	6.8	6.9	6.8
77.5°	5.6	5.7	6.0	6.2	6.3	6.4	6.5	6.7	7.2	7.5	7.5
75°	6.3	6.2	6.2	6.6	7.1	7.2	7.2	7.5	8.2	8.2	8.3
72.5°	6.7	6.8	6.6	6.9	7.7	8.2	8.2	8.5	9.5	9.7	9.4
70°	9.1	7.9	7.5	8.3	9.1	9.2	9.5	10.3	10.9	11.3	11.0
67.5°	13.3	11.8	10.3	10.4	11.2	11.6	11.1	12.4	13.4	13.0	12.8
65°	24.4	18.6	14.3	15.2	15.0	14.2	14.0	15.3	16.2	16.0	14.6
62.5°	34.4	27.8	23.4	21.7	20.4	19.2	17.4	19.4	19.4	19.0	17.3
60°	43.2	36.0	33.6	32.4	28.7	25.1	24.1	23.8	24.0	22.3	20.5
57.5°	45.7	43.0	45.8	44.5	40.3	34.1	32.3	31.5	28.8	26.8	24.1
55°	47.9	48.5	58.9	59.2	53.6	46.1	43.8	41.3	35.1	31.8	28.4
52.5°	55.5	63.1	73.9	76.0	70.1	61.7	60.4	52.1	45.7	37.0	34.4
50°	73.4	87.8	96.5	97.1	88.7	85.6	78.6	69.2	57.0	43.9	41.0
47.5°	123.9	136.2	128.6	124.0	113.9	113.5	104.4	88.2	69.0	55.0	48.0
45°	225.0	213.5	184.8	161.0	151.6	150.5	135.4	108.4	87.5	68.7	55.6
42.5°	348.1	323.4	279.9	203.3	204.0	193.8	169.7	138.6	107.0	83.0	66.3
40°	515.3	453.1	392.9	313.6	264.2	242.1	213.0	172.6	127.7	99.7	79.2
37.5°	667.9	590.7	523.9	422.7	338.6	302.9	260.6	208.8	154.3	120.5	92.4
35°	760.2	715.6	639.8	528.4	434.5	368.5	311.5	249.4	187.8	141.7	105.8
32.5°	839.6	813.0	735.7	629.4	524.9	438.7	370.0	291.8	220.7	163.4	119.4
30°	913.5	885.4	831.0	723.1	610.7	517.7	428.9	332.4	252.8	185.4	134.3
27.5°	990.8	958.3	920.6	810.5	693.2	591.8	478.9	371.2	284.1	209.4	152.3
25°	1070.4	1029.5	987.8	896.7	769.6	650.6	526.7	408.2	316.2	235.7	170.2
22.5°	1160.9	1098.0	1054.8	981.9	838.8	710.1	574.6	449.0	347.7	261.0	187.8
20°	1250.5	1164.1	1119.2	1050.8	907.6	769.6	623.8	487.5	377.3	285.3	205.2
17.5°	1370.7	1233.8	1170.3	1099.3	972.2	826.8	672.0	523.7	405.1	308.4	222.0
15°	1653.2	1309.0	1221.2	1146.3	1031.0	881.6	718.8	557.3	431.0	330.2	237.6
12.5°	1948.7	1383.5	1272.1	1191.4	1084.1	933.6	763.7	588.4	454.9	350.0	251.1
10°	2246.7	1456.4	1322.3	1234.4	1131.7	982.3	806.1	620.4	481.0	368.1	263.5
7.5°	2535.8	1526.6	1371.3	1275.1	1174.3	1024.4	846.1	657.7	506.5	384.9	274.8
5°	2783.2	1588.8	1420.6	1318.9	1213.6	1058.8	881.2	692.7	530.5	400.3	284.8
2.5°	2902.9	1638.3	1468.2	1361.2	1249.2	1088.4	911.3	724.9	552.6	413.9	293.6
0°	2971.3	1681.2	1512.4	1400.5	1280.6	1113.4	936.8	753.9	572.5	425.8	301.2
-2.5°	2966.3	1721.8	1554.7	1441.8	1325.4	1147.5	957.7	770.1	587.8	439.7	311.5
-5°	2913.0	1756.6	1593.5	1480.2	1364.8	1176.1	974.1	782.5	600.5	451.5	320.4
-7.5°	2875.0	1796.4	1631.6	1516.3	1398.1	1198.5	985.9	791.3	610.4	461.0	327.9
-10°	2793.1	1835.6	1670.0	1549.9	1418.4	1213.3	993.8	796.5	617.7	468.2	333.9
-12.5°	2648.5	1866.6	1703.4	1579.3	1431.4	1221.7	1002.9	801.8	622.6	472.8	338.3
-15°	2438.6	1888.6	1731.6	1603.9	1438.2	1224.5	1006.6	804.9	627.1	475.5	340.9
-17.5°	2161.4	1901.4	1754.2	1623.7	1438.9	1221.8	1004.9	803.6	628.4	476.4	342.9
-20°	2116.8	1917.2	1771.2	1638.2	1433.1	1213.7	997.5	797.9	626.4	474.8	343.9



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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°	2119.0	1937.4	1790.1	1630.1	1419.8	1200.2	984.5	787.6	621.3	470.5	343.0
-25°	2112.6	1951.0	1806.8	1621.3	1399.2	1181.2	967.6	772.8	612.8	463.7	340.1
-27.5°	2114.1	1959.8	1820.2	1604.6	1379.0	1155.6	947.2	760.2	601.7	454.2	335.3
-30°	2114.5	1969.3	1801.5	1578.6	1350.7	1127.0	921.6	744.1	588.6	445.4	328.5
-32.5°	2102.3	1975.7	1766.7	1540.1	1313.4	1092.0	892.5	724.2	572.4	436.0	324.8
-35°	2091.9	1937.9	1722.5	1492.5	1267.8	1056.1	863.2	700.4	553.2	424.2	321.3
-37.5°	2072.5	1870.1	1661.2	1435.5	1214.5	1014.1	834.8	675.8	531.1	409.9	316.4
-40°	1990.6	1789.8	1581.4	1369.2	1160.1	966.3	801.2	647.8	510.6	393.1	310.1
-42.5°	1899.2	1695.3	1492.9	1292.5	1101.3	923.5	762.9	615.2	488.4	381.0	302.4
-45°	1788.6	1592.1	1396.4	1214.5	1038.2	875.4	721.5	579.4	463.2	370.6	295.8
-47.5°	1669.3	1479.9	1299.9	1130.3	978.0	822.2	675.0	547.6	435.4	358.5	291.5
-50°	1540.4	1366.3	1201.8	1050.3	908.1	764.4	626.6	512.6	418.4	343.9	286.3
-52.5°	1407.9	1253.2	1106.6	968.9	833.8	701.2	583.4	476.1	399.3	333.4	280.1
-55°	1274.1	1144.8	1012.9	882.2	754.7	644.1	536.7	451.6	378.2	324.2	273.3
-57.5°	1150.6	1036.8	912.8	790.2	682.1	585.0	499.0	424.8	364.0	314.1	267.5
-60°	1026.1	918.9	807.0	706.3	612.5	533.5	465.7	400.6	351.3	303.5	260.3
-62.5°	894.8	800.4	714.4	625.3	554.2	492.3	433.4	384.9	337.6	294.0	252.3
-65°	775.1	698.8	623.8	565.7	507.6	454.9	413.8	368.2	324.8	283.6	243.6
-67.5°	665.0	616.1	566.9	513.6	470.7	431.5	392.7	352.2	311.8	272.4	234.2
-70°	598.0	553.2	516.8	480.9	443.8	407.4	372.9	336.1	297.8	260.2	224.1
-72.5°	543.3	513.0	482.9	450.6	417.2	384.6	352.7	318.9	282.4	247.2	213.4
-75°	502.9	475.8	449.1	421.0	390.6	360.7	330.8	299.9	266.2	233.6	202.1
-77.5°	462.4	438.5	415.0	390.1	362.2	334.6	307.6	280.0	249.1	219.1	190.3
-80°	420.4	399.4	378.5	357.1	332.3	307.8	283.5	259.0	231.1	204.0	177.9
-82.5°	377.0	359.2	341.3	323.0	301.2	279.6	258.4	237.1	212.5	188.5	166.4
-85°	333.5	318.3	303.1	287.7	269.2	250.9	233.9	216.7	196.4	176.5	157.1
-87.5°	296.8	284.8	272.9	260.8	245.5	230.1	214.7	199.2	181.7	164.5	147.5
-90°	4.7	4.7	4.7	4.7	5.1	5.5	5.9	6.3	6.3	6.3	6.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	123.0	102.5	82.0	61.5	41.0	25.2	9.5
87.5°	6.3	6.5	6.6	6.6	6.6	8.2	9.5
85°	6.3	6.7	6.9	6.9	6.9	8.5	9.5
82.5°	6.3	6.8	7.1	7.2	7.2	8.7	9.5
80°	6.5	7.0	7.4	7.6	7.5	9.0	9.5
77.5°	7.4	7.6	7.7	7.9	7.8	9.3	9.5
75°	8.3	8.7	8.2	8.2	8.2	9.6	9.5
72.5°	9.4	9.8	9.3	8.6	8.5	9.9	9.5
70°	10.5	11.0	10.5	9.0	8.9	10.2	9.5
67.5°	12.6	12.2	11.7	10.1	9.3	10.5	9.5
65°	14.8	13.9	12.9	11.1	9.8	10.8	9.5
62.5°	17.1	16.3	14.1	12.2	10.3	11.2	9.5
60°	19.6	18.7	15.4	13.2	10.8	11.5	9.5
57.5°	23.4	21.2	17.6	14.3	11.8	11.8	9.5
55°	27.6	23.8	19.8	15.4	12.9	12.1	9.5
52.5°	32.1	26.7	22.1	16.4	14.0	12.5	9.5
50°	36.8	30.8	24.5	17.5	15.2	12.8	9.5
47.5°	42.0	35.1	26.9	18.8	16.4	13.1	9.5
45°	48.6	39.5	29.3	20.6	17.7	13.5	9.5
42.5°	55.6	44.1	31.7	22.4	18.9	13.8	9.5
40°	62.8	48.7	34.8	24.9	20.2	14.1	9.5
37.5°	70.2	53.5	38.4	27.7	21.6	14.5	9.5
35°	77.9	59.1	42.0	30.5	22.9	14.8	9.5
32.5°	86.8	65.2	45.7	33.4	24.3	15.2	9.5
30°	97.9	71.3	49.2	36.3	25.7	15.5	9.5
27.5°	108.9	77.5	54.3	39.3	27.1	15.8	9.5
25°	119.8	83.6	59.6	42.3	28.5	16.2	9.5
22.5°	130.5	90.2	64.8	45.2	29.9	16.5	9.5
20°	141.0	97.6	69.9	48.2	31.3	16.8	9.5
17.5°	151.6	104.9	74.9	51.1	32.6	17.1	9.5
15°	161.8	111.8	79.8	54.0	34.0	17.4	9.5
12.5°	171.4	118.5	84.6	56.8	35.3	17.7	9.5
10°	180.4	124.8	89.3	59.6	36.5	17.9	9.5
7.5°	188.8	130.8	93.7	62.2	37.8	18.2	9.5
5°	196.5	136.5	97.9	64.7	38.9	18.5	9.5
2.5°	203.5	141.8	101.9	67.1	40.0	18.7	9.5
0°	209.8	146.7	105.7	69.4	41.0	18.9	9.5
-2.5°	217.2	152.8	110.4	73.1	43.2	19.8	9.5
-5°	223.9	158.5	114.9	76.5	45.4	20.7	9.5
-7.5°	229.8	163.7	119.0	79.8	47.4	21.6	9.5
-10°	234.9	168.5	122.9	82.9	49.3	22.4	9.5
-12.5°	239.2	172.8	126.4	85.8	51.1	23.3	9.5
-15°	242.6	176.7	129.7	88.5	52.8	24.0	9.5
-17.5°	245.2	180.1	132.6	90.9	54.4	24.8	9.5
-20°	247.4	182.9	135.2	93.1	55.8	25.5	9.5



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	249.5	185.3	137.5	95.0	57.0	26.2	9.5
-25°	250.5	187.6	139.5	96.7	58.1	26.8	9.5
-27.5°	250.5	189.5	141.2	98.1	59.1	27.4	9.5
-30°	249.4	190.8	142.6	99.3	59.9	27.9	9.5
-32.5°	247.2	191.5	143.7	100.1	60.5	28.4	9.5
-35°	246.4	191.6	144.4	100.7	60.9	28.8	9.5
-37.5°	245.9	191.4	144.8	101.0	61.2	29.2	9.5
-40°	244.7	191.4	144.7	101.1	61.3	29.6	9.5
-42.5°	242.6	190.8	144.3	100.8	61.2	29.8	9.5
-45°	239.8	189.6	143.5	100.2	60.9	30.1	9.5
-47.5°	236.2	188.0	142.3	99.4	60.5	30.2	9.5
-50°	233.2	185.7	140.7	98.4	59.9	30.3	9.5
-52.5°	229.7	183.0	138.8	97.1	59.1	30.4	9.5
-55°	225.6	179.8	136.4	95.6	58.2	30.4	9.5
-57.5°	220.8	176.1	133.6	93.8	57.1	30.4	9.5
-60°	215.4	172.0	130.5	91.7	55.8	30.2	9.5
-62.5°	209.4	167.3	127.2	89.4	55.2	30.1	9.5
-65°	202.9	162.1	123.4	86.9	54.5	29.9	9.5
-67.5°	195.7	156.6	119.4	84.1	53.6	29.6	9.5
-70°	188.0	150.7	115.0	81.1	52.7	29.3	9.5
-72.5°	179.8	144.3	110.3	79.0	51.6	28.9	9.5
-75°	171.1	137.5	105.3	77.0	50.3	28.5	9.5
-77.5°	161.9	130.4	101.7	74.8	49.0	28.1	9.5
-80°	152.3	124.6	98.1	72.4	47.6	27.6	9.5
-82.5°	145.1	119.5	94.4	69.9	46.1	27.1	9.5
-85°	138.0	114.0	90.4	67.2	44.4	26.5	9.5
-87.5°	130.6	108.4	86.3	64.4	42.8	25.9	9.5
-90°	6.3	6.3	6.3	6.3	6.3	7.9	9.5

(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

