

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: P735977 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-70-4S-VHE-S**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735977 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-57-70-4S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

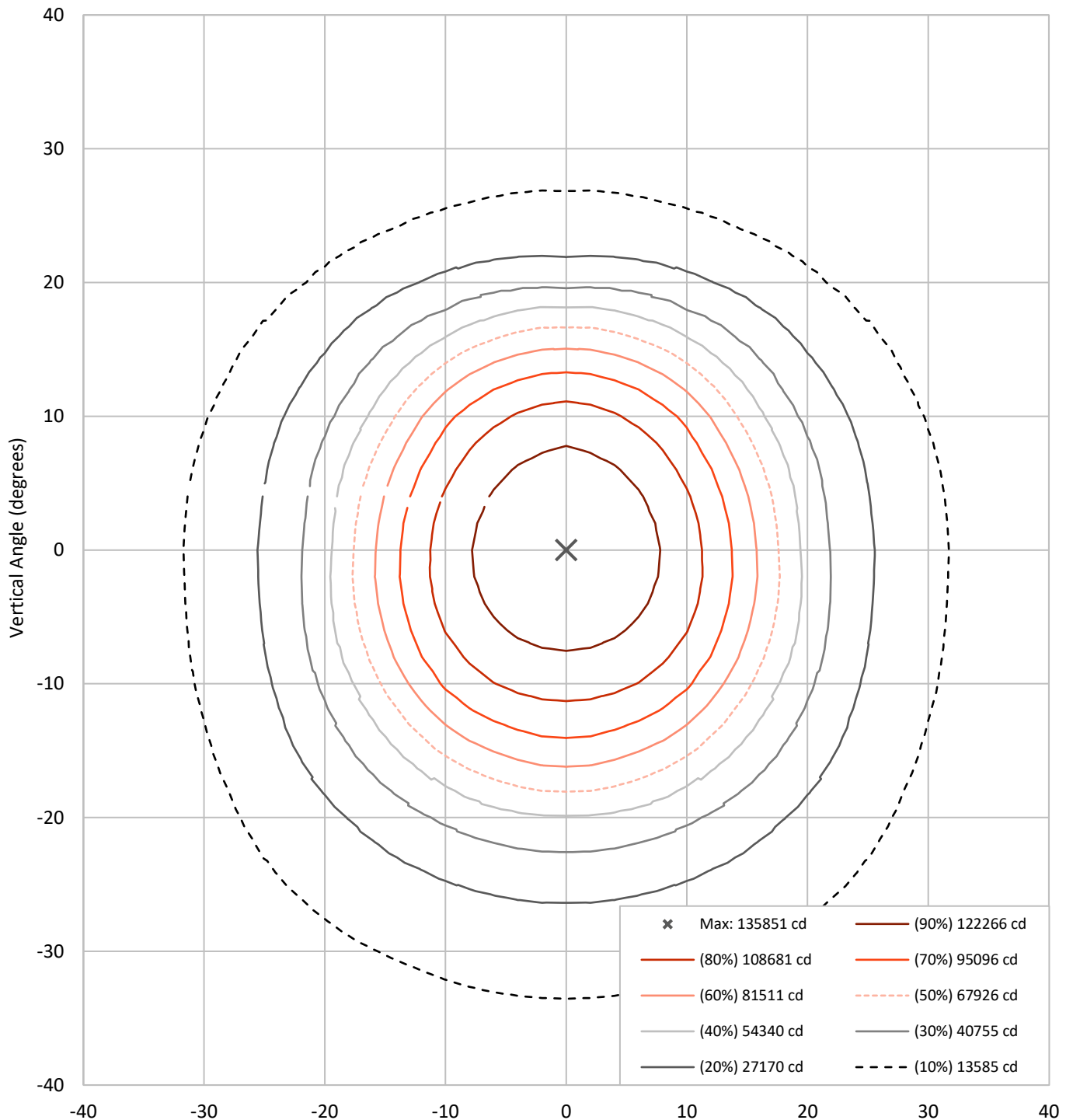
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	56353.7 lumens	Max Intensity:	135851 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	163.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	30246.7 lumens	Field Lumens:	49220.5 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

Input Watts (W): 344.2
Input Voltage (V): NR
Input Current (A_{in}): 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





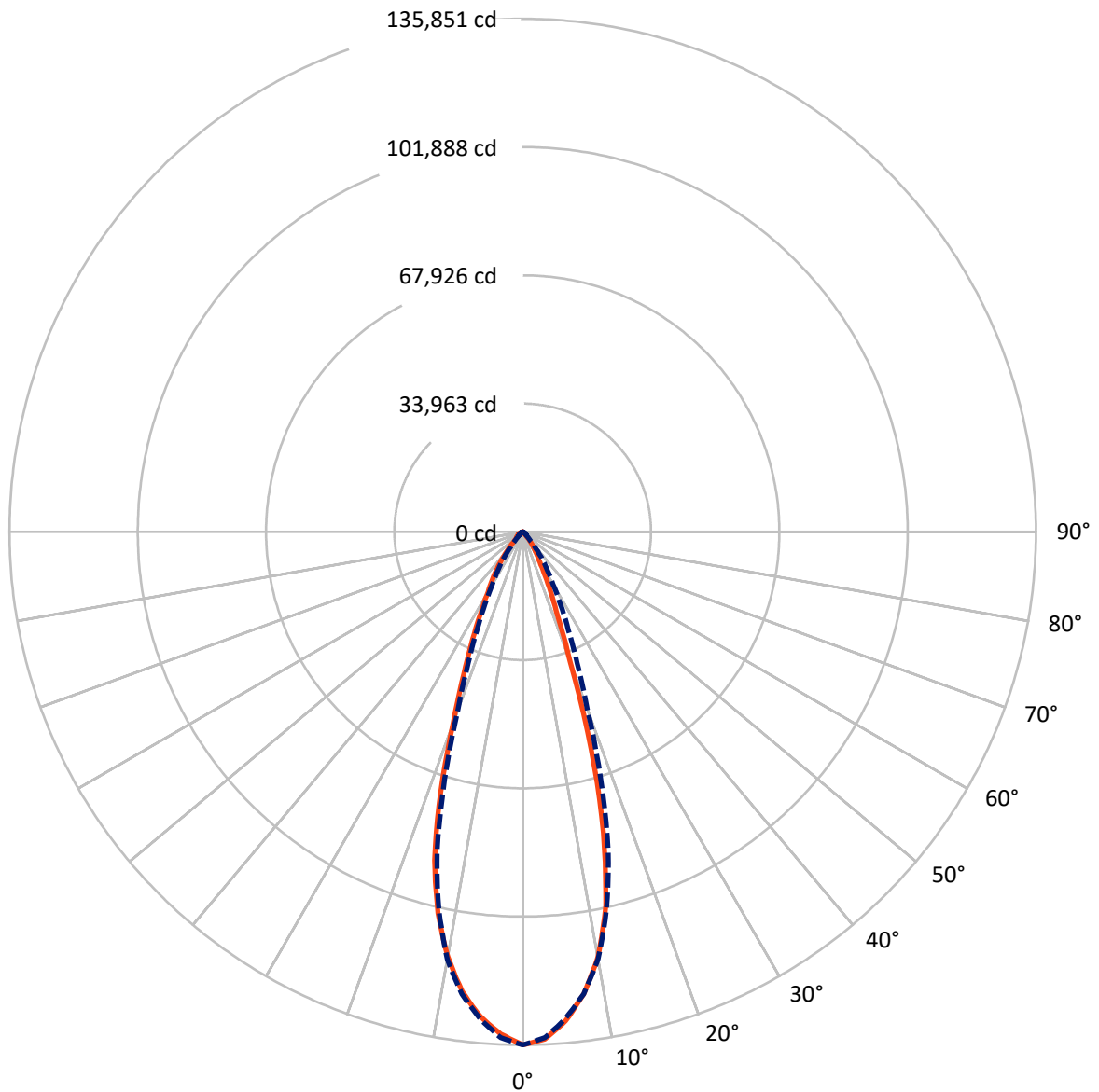
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Lumen Table

90	0.2	0.6	1.1	1.5	1.7	1.5	1.1	0.6	0.2										
80	0.2	0.6	1.1	1.5	1.7	1.5	1.1	0.6	0.2										
70	0.2	0.1	0.1	0.3	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.3	0.1	0.1	0.2			
60		0.3	0.5	0.8	0.7	0.6	0.7	0.8	0.8	0.7	0.6	0.7	0.8	0.5	0.3				
50	0.6	0.7	1.6	3.2	5.9	9.4	13.7	17.7	17.7	13.7	9.4	5.9	3.2	1.6	0.7	0.6			
40		1.7	5.4	10.2	16.8	38.9	87.0	140.9	140.9	87.0	38.9	16.8	10.2	5.4	1.7				
30	1.2	3.0	8.9	17.3	54.4	167.3	365.1	553.6	553.6	365.1	167.3	54.4	17.3	8.9	3.0	1.2			
20		4.0	11.7	27.7	141.6	469.4	1254.3	2228.9	2228.9	1254.3	469.4	141.6	27.7	11.7	4.0				
10	1.8	4.9	13.8	38.4	221.6	770.5	2280.6	3651.9	3651.9	2280.6	770.5	221.6	38.4	13.8	4.9	1.8			
0		5.5	15.3	43.0	237.5	809.3	2390.9	3680.8	3680.8	2390.9	809.3	237.5	43.0	15.3	5.5				
-10	2.1	5.6	16.2	39.6	189.5	597.8	1505.0	2472.6	2472.6	1505.0	597.8	189.5	39.6	16.2	5.6	2.1			
-20		5.3	16.1	33.9	104.3	332.0	651.8	941.3	941.3	651.8	332.0	104.3	33.9	16.1	5.3				
-30	1.9	4.5	14.5	28.4	50.1	123.2	248.2	343.1	343.1	248.2	123.2	50.1	28.4	14.5	4.5	1.9			
-40		3.5	10.9	22.7	35.8	49.7	67.8	86.8	86.8	67.8	49.7	35.8	22.7	10.9	3.5				
-50	1.7	2.6	6.8	14.8	25.5	34.4	41.5	46.6	46.6	41.5	34.4	25.5	14.8	6.8	2.6	1.7			
-60		2.0	4.0	7.5	12.8	18.1	23.1	26.3	26.3	23.1	18.1	12.8	7.5	4.0	2.0				
-70	1.2	7.1	16.1	26.0	32.0	26.0	16.1	7.1	1.2						1.2				
-80		7.1	16.1	26.0	32.0	26.0	16.1	7.1	1.2										
-90	1.2	7.1	16.1	26.0	32.0	26.0	16.1	7.1	1.2										

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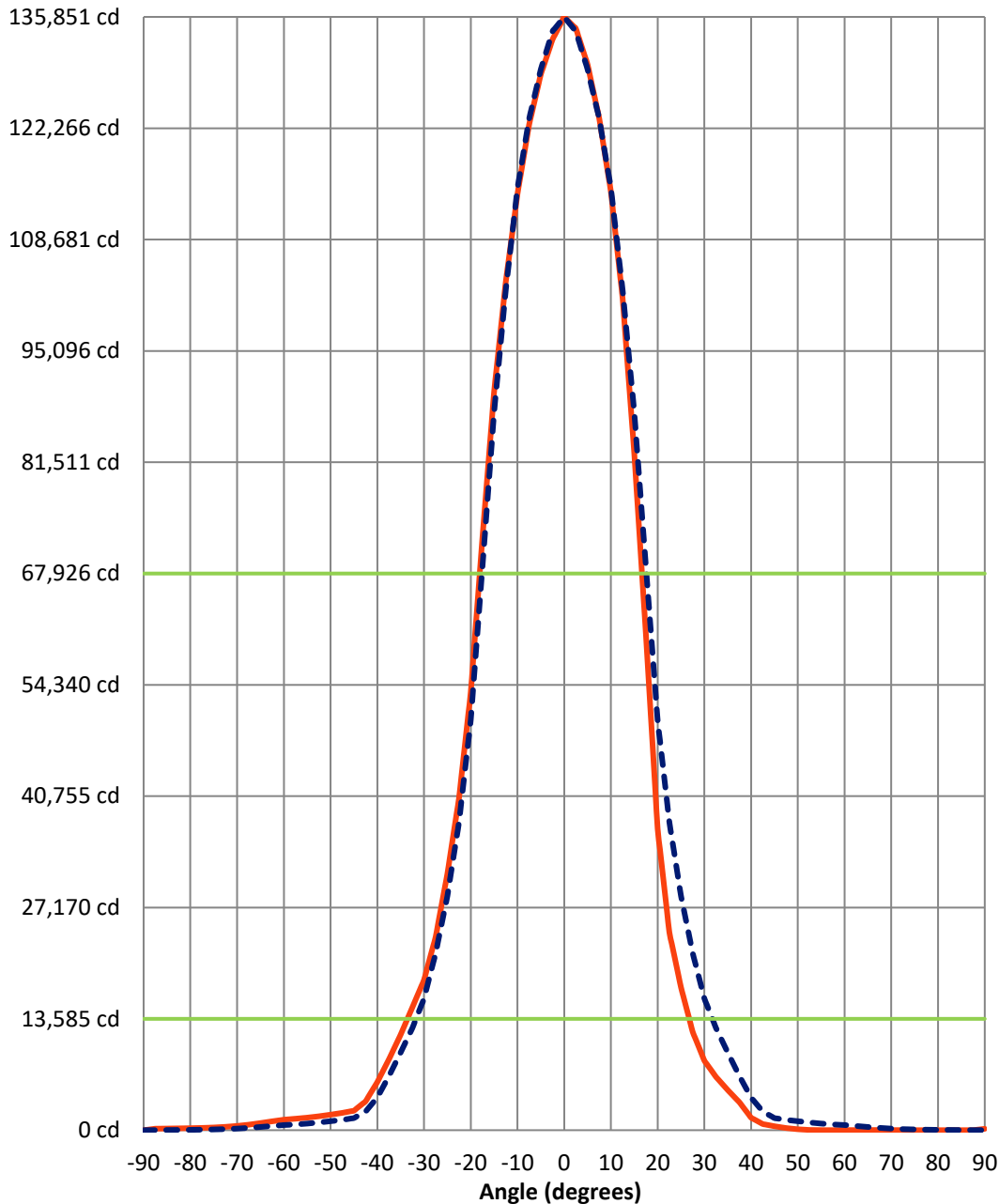
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 35.2°
 V Angle: 34.7°
 Lumens: 30246.7
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 49220.5
 Efficiency: 87.3%

Spill:
 Lumens: 7133.3
 Efficiency: 12.7%

- 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°	6.0	11.4	16.8	27.5	38.3	48.0	57.8	65.6	73.3	78.3	83.3
87.5°	6.0	5.5	4.8	4.9	4.9	4.9	4.9	4.6	4.2	4.3	4.3
85°	6.0	5.6	4.9	5.0	5.2	5.1	5.1	4.8	4.5	4.5	4.6
82.5°	6.0	5.7	5.1	5.2	5.4	5.4	5.3	5.0	4.8	4.8	4.9
80°	6.0	5.8	5.2	5.4	5.6	5.6	5.5	5.3	5.2	5.2	5.2
77.5°	6.0	6.0	5.3	5.5	5.8	5.8	5.8	5.7	5.7	5.7	5.5
75°	6.0	6.1	5.5	5.7	6.0	6.1	6.2	6.1	6.1	5.9	5.5
72.5°	6.0	6.2	5.6	5.9	6.3	6.4	6.5	6.5	6.4	6.1	5.7
70°	6.0	6.3	5.8	6.1	6.6	6.7	6.9	6.9	6.7	6.4	6.2
67.5°	6.0	6.5	6.0	6.3	6.8	7.0	7.4	7.3	7.1	7.0	6.8
65°	6.0	6.6	6.1	6.6	7.1	7.5	7.9	7.7	7.9	7.6	7.6
62.5°	6.0	6.7	6.3	6.9	7.4	8.1	8.5	8.6	8.9	8.4	9.1
60°	6.0	6.9	6.5	7.1	7.7	8.8	9.1	9.8	9.9	10.6	10.8
57.5°	6.0	7.0	6.9	7.4	8.4	9.4	10.4	11.1	12.4	13.2	14.6
55°	6.0	7.2	7.3	7.7	9.2	10.2	11.8	12.5	15.3	16.7	19.7
52.5°	6.0	7.3	7.7	8.0	10.0	11.0	13.2	15.5	18.5	22.5	25.1
50°	6.0	7.4	8.2	8.3	10.8	12.5	14.8	18.8	22.7	28.8	32.5
47.5°	6.0	7.6	8.6	8.7	11.7	14.1	16.6	22.2	28.9	35.4	40.9
45°	6.0	7.7	9.1	9.4	12.6	15.8	19.7	25.7	35.4	43.7	49.9
42.5°	6.0	7.9	9.6	10.1	13.5	17.5	22.8	30.7	42.2	52.3	64.4
40°	6.0	8.0	10.2	11.1	14.7	19.3	26.1	36.8	49.7	61.4	81.1
37.5°	6.0	8.2	10.7	12.3	16.1	21.1	29.5	43.0	58.3	73.2	99.2
35°	6.0	8.3	11.3	13.5	17.5	23.6	32.9	49.3	67.3	89.9	121.2
32.5°	6.0	8.5	11.9	14.7	18.9	26.4	36.9	55.7	76.6	107.1	146.3
30°	6.0	8.6	12.5	15.9	20.4	29.1	42.0	62.2	86.2	124.7	170.1
27.5°	6.0	8.8	13.1	17.1	22.3	31.7	47.0	69.2	96.8	142.4	192.8
25°	6.0	8.9	13.7	18.4	24.3	34.3	51.9	76.0	108.9	160.9	214.3
22.5°	6.0	9.0	14.3	19.6	26.2	37.0	56.5	82.4	120.3	175.3	236.3
20°	6.0	9.2	14.9	20.8	28.1	40.1	61.0	88.5	130.9	188.7	254.1
17.5°	6.0	9.3	15.6	22.0	30.0	43.1	65.7	94.2	140.6	201.1	270.8
15°	6.0	9.4	16.2	23.2	31.7	45.9	70.2	99.9	149.5	212.5	286.4
12.5°	6.0	9.6	16.8	24.4	33.5	48.7	74.6	105.6	158.4	222.9	301.0
10°	6.0	9.7	17.4	25.5	35.1	51.4	78.6	111.1	167.2	236.2	316.9
7.5°	6.0	9.8	17.9	26.6	36.7	53.9	82.3	116.1	175.2	249.4	337.4
5°	6.0	9.9	18.5	27.6	38.2	56.3	85.7	120.6	182.3	261.6	356.8
2.5°	6.0	10.0	19.0	28.6	39.7	58.5	88.7	124.8	188.4	272.6	374.6
0°	6.0	10.1	19.5	29.6	41.0	60.5	91.4	128.4	193.6	282.3	390.5
-2.5°	6.0	10.5	20.2	30.9	42.9	62.9	94.6	132.8	200.4	290.3	398.5
-5°	6.0	10.8	21.0	32.0	44.7	65.2	97.3	136.6	206.1	296.6	404.3
-7.5°	6.0	11.2	21.6	33.2	46.4	67.2	99.7	139.9	210.5	301.2	408.0
-10°	6.0	11.5	22.3	34.2	48.0	69.0	101.7	142.5	213.5	304.1	409.6
-12.5°	6.0	11.8	22.8	35.2	49.5	70.6	103.2	144.5	215.1	305.2	411.4
-15°	6.0	12.1	23.4	36.1	50.8	72.0	104.4	145.8	214.8	303.8	411.3
-17.5°	6.0	12.4	23.9	36.9	52.0	73.2	105.0	146.6	212.7	300.5	407.8
-20°	6.0	12.7	24.3	37.6	53.1	74.1	105.5	147.1	209.3	295.0	400.8



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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°	6.0	12.9	24.7	38.3	54.0	74.9	106.0	146.8	204.7	287.5	390.3
-25°	6.0	13.1	25.1	38.8	54.7	75.7	106.1	146.0	198.7	277.8	379.4
-27.5°	6.0	13.4	25.4	39.3	55.3	76.5	105.6	144.5	191.5	269.5	370.1
-30°	6.0	13.6	25.6	39.6	55.8	77.1	104.7	142.4	187.3	261.9	357.9
-32.5°	6.0	13.7	25.9	39.8	56.5	77.3	103.2	140.5	184.8	252.2	342.6
-35°	6.0	13.9	26.0	40.0	57.1	77.3	102.7	138.4	181.2	240.4	324.2
-37.5°	6.0	14.0	26.1	40.0	57.5	77.3	102.4	135.6	176.7	226.7	306.6
-40°	6.0	14.1	26.1	40.0	57.8	77.7	101.8	132.0	171.1	217.9	289.4
-42.5°	6.0	14.2	26.1	39.9	58.0	77.8	100.7	127.7	165.6	210.5	270.1
-45°	6.0	14.2	26.1	40.0	58.1	77.7	99.2	124.0	159.8	201.9	250.6
-47.5°	6.0	14.2	26.0	40.0	58.0	77.4	97.3	121.9	153.1	191.9	239.1
-50°	6.0	14.2	25.8	40.0	57.8	76.9	96.3	119.3	145.4	183.0	226.1
-52.5°	6.0	14.2	25.6	39.9	57.4	76.2	95.3	116.3	140.4	173.0	211.2
-55°	6.0	14.2	25.3	39.7	56.8	75.3	94.0	113.2	136.2	161.9	196.8
-57.5°	6.0	14.1	25.0	39.5	56.1	74.1	92.5	111.4	131.4	154.9	181.4
-60°	6.0	14.0	24.6	39.1	55.2	72.8	90.8	109.1	126.6	148.6	167.7
-62.5°	6.0	13.9	24.3	38.6	54.4	71.2	88.7	106.4	123.3	141.4	159.1
-65°	6.0	13.8	23.8	38.0	53.5	69.5	86.5	103.3	119.5	135.6	150.0
-67.5°	6.0	13.6	23.4	37.3	52.5	67.7	84.0	99.9	115.4	130.1	142.9
-70°	6.0	13.4	22.8	36.5	51.3	65.9	81.2	96.3	111.1	124.4	136.4
-72.5°	6.0	13.2	22.2	35.7	50.0	63.9	78.4	92.5	106.5	118.6	129.6
-75°	6.0	13.0	21.6	34.7	48.5	61.7	75.4	88.5	101.7	112.5	122.7
-77.5°	6.0	12.8	20.9	33.7	47.1	59.3	72.2	84.3	96.6	106.3	115.6
-80°	6.0	12.5	20.1	32.6	45.5	57.2	68.8	80.0	91.4	100.0	108.4
-82.5°	6.0	12.3	19.3	31.5	43.9	55.0	66.1	75.9	85.9	93.6	101.2
-85°	6.0	12.0	18.5	30.2	42.1	52.8	63.5	72.6	81.7	88.2	94.5
-87.5°	6.0	11.7	17.7	28.9	40.2	50.5	60.7	69.1	77.6	83.3	89.0
-90°	6.0	5.4	4.7	4.7	4.7	4.7	4.7	4.4	4.0	4.0	4.0



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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°	87.0	90.7	94.1	97.4	101.5	105.5	109.6	113.6	118.0	122.3	126.7
87.5°	4.0	3.7	3.7	3.7	3.4	3.2	2.9	2.7	2.7	2.7	2.6
85°	4.3	4.0	4.0	4.0	3.8	3.6	3.3	3.0	3.0	3.1	2.9
82.5°	4.6	4.4	4.2	4.0	4.0	4.0	3.7	3.5	3.5	3.4	3.2
80°	5.0	4.7	4.4	4.2	4.2	4.0	3.9	3.9	3.7	3.5	3.5
77.5°	5.1	4.8	4.6	4.6	4.4	4.1	4.0	4.0	3.9	3.9	3.8
75°	5.2	4.8	4.8	4.8	4.5	4.1	4.0	4.2	4.2	4.1	4.0
72.5°	5.4	5.2	5.1	4.9	4.7	4.5	4.5	4.6	5.0	5.4	5.7
70°	6.0	5.7	5.6	5.4	5.2	5.1	5.7	6.8	7.9	8.4	9.5
67.5°	6.6	6.5	6.3	6.1	6.1	6.7	7.4	9.9	12.1	13.6	15.2
65°	7.3	7.2	7.2	7.3	7.4	9.4	11.7	14.1	17.9	20.0	20.1
62.5°	8.2	9.2	8.8	9.4	11.3	13.5	16.9	21.3	26.1	28.0	26.7
60°	11.7	12.2	12.4	13.9	15.8	18.1	22.8	28.2	33.7	37.1	32.1
57.5°	16.0	16.7	18.0	18.9	21.0	22.3	27.9	34.3	37.9	40.1	34.5
55°	21.5	22.6	24.4	24.8	26.6	27.2	31.8	36.2	39.3	40.0	33.9
52.5°	28.5	29.7	32.4	32.8	32.9	33.4	34.0	39.0	41.4	40.7	35.1
50°	36.0	40.1	41.6	43.1	41.1	41.9	39.7	45.4	50.3	49.0	50.6
47.5°	47.1	52.3	54.4	57.1	55.8	60.3	58.7	69.5	73.3	95.0	99.9
45°	60.4	69.7	72.4	78.9	85.4	90.8	108.2	109.6	155.5	174.6	210.6
42.5°	76.5	90.9	102.6	105.0	136.2	152.8	177.2	217.2	257.4	294.2	318.7
40°	100.3	115.2	140.3	169.6	202.8	238.5	270.9	317.4	356.3	385.3	402.6
37.5°	127.4	155.8	190.0	242.9	287.6	324.1	360.9	401.1	437.7	463.2	496.3
35°	157.1	198.5	262.0	317.0	365.1	399.4	435.3	478.0	512.5	553.6	594.5
32.5°	193.2	242.2	321.7	381.2	420.2	460.8	502.3	547.1	596.7	647.3	699.6
30°	228.9	291.3	369.1	430.8	468.6	515.9	566.4	618.9	683.9	747.7	818.4
27.5°	257.0	333.5	407.4	471.3	515.3	571.3	632.9	701.5	778.7	856.6	950.6
25°	282.1	364.8	446.2	513.8	569.7	631.8	704.2	786.4	878.3	988.0	1283.6
22.5°	306.5	395.3	488.9	559.3	622.2	692.3	779.6	875.6	983.8	1129.5	1652.4
20°	331.6	430.0	529.8	597.2	670.1	748.7	851.0	962.4	1096.5	1440.5	2212.0
17.5°	357.4	465.7	564.6	630.4	707.2	803.1	922.0	1047.7	1211.2	1731.8	2912.7
15°	382.6	499.3	592.5	659.8	744.5	856.1	988.9	1142.8	1414.2	2138.3	3614.7
12.5°	406.7	529.5	613.2	685.1	781.3	906.1	1051.0	1223.7	1652.7	2686.9	4380.5
10°	429.3	556.3	631.2	709.2	817.2	953.0	1106.5	1294.9	1860.9	3125.3	4986.8
7.5°	453.8	579.2	647.5	732.1	850.3	995.9	1152.3	1349.7	2016.1	3461.5	5437.1
5°	476.1	597.9	666.3	759.0	883.2	1034.6	1191.5	1395.6	2122.0	3674.5	5749.6
2.5°	495.5	612.8	683.8	784.5	914.2	1068.6	1227.0	1441.5	2216.5	3854.7	6145.1
0°	512.1	624.4	699.6	807.2	940.9	1096.8	1256.1	1478.5	2279.7	3976.0	6603.7
-2.5°	522.3	641.7	725.8	831.0	963.0	1116.9	1282.4	1518.0	2343.7	4238.2	6778.4
-5°	529.5	655.7	749.4	851.8	980.8	1131.5	1301.6	1546.0	2371.2	4310.3	6727.6
-7.5°	533.8	665.8	769.5	870.1	996.8	1148.5	1331.9	1583.5	2383.6	4132.5	6439.2
-10°	536.0	674.3	782.7	885.2	1011.5	1164.1	1355.5	1607.7	2332.4	3892.6	6107.6
-12.5°	541.8	681.6	793.2	896.4	1021.4	1175.3	1373.9	1625.9	2215.8	3563.1	5651.7
-15°	543.3	685.4	802.0	904.1	1031.6	1191.8	1387.9	1629.0	2047.4	3137.2	5069.6
-17.5°	540.3	685.6	808.1	910.1	1036.8	1198.1	1392.3	1620.1	1921.6	2827.8	4483.9
-20°	532.4	677.6	810.0	910.7	1034.9	1200.7	1394.5	1616.2	1890.8	2511.4	3773.8



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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°	519.6	664.9	803.5	909.7	1041.6	1201.8	1388.0	1592.3	1824.3	2129.8	3066.8
-25°	505.9	646.9	786.5	912.9	1042.9	1196.2	1360.9	1548.5	1762.6	2001.6	2562.3
-27.5°	491.1	625.9	769.0	908.9	1036.5	1175.3	1328.2	1504.0	1680.4	1873.4	2112.2
-30°	473.2	603.1	745.6	894.2	1021.4	1151.1	1292.1	1434.2	1592.3	1766.1	1968.4
-32.5°	451.8	576.3	716.6	863.3	1001.5	1123.0	1241.0	1368.6	1509.6	1662.8	1830.1
-35°	428.4	549.1	682.5	825.8	977.3	1088.8	1191.3	1301.6	1426.6	1566.6	1722.0
-37.5°	404.8	517.7	642.6	782.3	929.6	1046.3	1138.7	1241.7	1351.7	1471.5	1616.1
-40°	378.0	481.6	600.9	733.0	863.6	989.8	1091.2	1184.6	1281.3	1391.0	1509.0
-42.5°	349.1	446.4	555.3	675.0	793.6	914.0	1041.0	1132.7	1219.3	1312.4	1415.8
-45°	325.0	407.5	506.0	612.5	719.4	836.0	958.6	1081.2	1160.2	1240.8	1328.9
-47.5°	297.0	368.1	458.2	546.9	645.6	755.5	871.6	985.3	1097.5	1175.9	1250.1
-50°	270.3	334.7	403.6	485.2	573.1	674.5	780.9	884.9	990.1	1096.3	1180.9
-52.5°	252.0	298.9	358.7	423.2	504.5	594.1	687.4	780.1	878.8	980.2	1077.7
-55°	232.2	272.4	315.0	369.8	436.7	516.6	594.2	677.2	762.1	855.5	950.5
-57.5°	213.3	246.7	280.1	321.7	378.0	439.1	507.1	575.3	652.2	730.4	811.8
-60°	194.6	222.0	250.4	283.6	322.4	373.8	423.1	482.5	546.4	610.7	683.1
-62.5°	176.8	199.1	222.7	250.8	283.2	313.5	354.3	400.3	446.3	503.4	562.0
-65°	166.3	178.6	197.2	221.6	246.8	273.7	300.1	328.3	368.4	410.9	452.6
-67.5°	155.1	166.5	178.1	193.1	215.2	236.2	257.5	282.3	307.8	335.4	365.7
-70°	146.8	154.7	165.0	176.8	188.4	201.1	220.0	239.7	259.4	280.8	304.6
-72.5°	138.8	146.3	154.0	162.3	172.4	182.1	192.0	202.7	218.2	237.0	254.7
-75°	130.8	137.7	144.7	152.1	159.6	167.0	174.8	184.4	195.0	206.6	217.4
-77.5°	122.7	129.1	135.5	141.8	148.7	155.8	162.5	169.4	177.8	186.7	195.2
-80°	114.7	120.4	126.3	132.2	138.2	144.4	150.3	156.1	163.3	171.0	178.5
-82.5°	106.9	112.3	117.4	122.5	127.7	132.8	138.2	143.6	150.2	157.0	163.4
-85°	99.3	104.0	108.3	112.6	117.5	122.2	126.8	131.4	137.4	143.5	149.0
-87.5°	93.2	97.4	101.1	104.7	109.0	113.2	117.2	121.1	126.3	131.5	136.3
-90°	3.7	3.4	3.4	3.4	3.1	2.7	2.7	2.7	2.7	2.7	2.4



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	131.1	134.1	137.1	139.1	141.1	144.2	147.2	151.6	155.9	159.6	163.3
87.5°	2.6	2.3	2.0	2.0	1.9	1.9	2.0	1.6	1.3	1.3	1.3
85°	2.7	2.6	2.5	2.5	2.6	2.3	2.0	2.0	2.0	2.0	2.0
82.5°	3.0	2.9	2.7	2.7	2.7	2.6	2.6	2.3	2.0	2.0	2.0
80°	3.4	3.2	3.1	2.9	2.7	2.7	2.7	2.4	2.0	2.0	2.0
77.5°	3.5	3.5	3.4	3.1	2.8	2.7	2.7	2.4	2.0	2.0	2.0
75°	3.9	3.9	3.9	3.8	3.7	3.8	4.0	3.9	3.7	3.5	3.3
72.5°	6.0	6.1	5.9	6.3	6.6	6.9	7.1	7.3	7.6	8.1	8.7
70°	10.7	11.5	11.5	11.5	11.5	11.2	10.8	10.7	10.7	10.9	11.1
67.5°	16.1	16.8	17.1	17.2	15.7	14.7	14.3	14.4	15.0	16.2	18.0
65°	20.6	19.3	18.2	17.0	17.2	17.1	16.3	16.0	16.5	17.2	18.0
62.5°	24.5	19.4	16.2	14.6	14.9	15.4	14.0	12.8	12.5	12.2	12.3
60°	26.3	18.3	12.9	10.9	9.8	9.2	8.2	7.0	6.7	6.6	6.7
57.5°	26.6	17.5	10.3	8.1	6.2	4.8	4.0	3.5	3.5	3.4	3.3
55°	25.8	17.7	10.0	9.1	8.4	7.6	6.6	6.5	6.2	6.1	6.5
52.5°	26.7	24.7	20.2	19.6	23.9	24.1	20.8	25.5	28.8	31.3	32.5
50°	52.7	50.6	64.0	64.0	77.5	89.1	85.7	92.4	104.1	114.3	120.5
47.5°	123.2	132.9	152.9	170.9	191.2	216.8	228.2	236.2	246.4	260.1	269.3
45°	229.5	253.5	279.6	308.6	342.5	372.6	390.1	406.9	418.0	430.2	444.6
42.5°	340.8	369.5	408.0	442.8	479.5	514.6	542.2	566.6	614.0	681.8	735.7
40°	436.1	468.7	513.5	559.8	603.1	647.4	769.5	873.5	1003.0	1196.6	1368.0
37.5°	530.7	568.4	618.3	675.2	805.7	937.8	1204.4	1492.3	1741.8	2021.5	2304.0
35°	633.8	683.2	750.0	941.2	1182.9	1535.2	1917.4	2345.0	2708.0	3098.6	3670.9
32.5°	755.5	841.9	1057.9	1405.4	1838.7	2339.2	2813.3	3350.8	3804.2	4521.8	5395.9
30°	912.5	1183.4	1598.1	2077.9	2662.6	3296.1	3890.5	4761.2	5778.4	6678.8	7422.3
27.5°	1290.9	1814.4	2393.4	3001.4	3733.6	4501.2	5747.6	6874.5	7968.9	8941.1	10070.6
25°	1856.0	2695.9	3685.4	4500.5	5495.4	6882.7	8292.1	9533.1	11196.5	12659.4	14300.5
22.5°	2655.4	3851.3	5125.8	6315.8	7843.8	9581.3	11477.5	13764.2	16074.9	18641.5	20924.9
20°	3435.6	4948.6	6562.7	8275.8	10232.7	12405.0	15504.8	19215.8	22776.4	26820.1	30229.8
17.5°	4474.6	6303.7	8212.6	10390.2	12906.0	16248.2	20823.4	25897.8	31403.7	37441.9	43025.8
15°	5531.2	7501.6	9719.8	12506.7	16065.3	20607.7	26444.5	33352.3	41404.3	50280.8	61072.3
12.5°	6397.1	8551.7	11145.4	14657.6	19311.9	25386.6	32458.4	40773.7	51812.8	65201.0	77738.7
10°	7136.9	9720.5	12997.9	17154.7	22629.2	29487.0	37520.5	47815.5	62685.6	78195.4	91954.3
7.5°	7898.9	10955.4	14426.4	18933.2	25157.9	32942.0	42834.5	56278.3	72639.4	88547.2	101164.8
5°	8617.7	11797.5	15327.7	20142.8	26874.2	35234.4	46458.5	62833.1	80637.6	96218.2	108072.3
2.5°	9180.7	12221.0	15802.4	21043.6	27802.0	36480.2	48730.3	66886.4	85563.3	100918.8	113074.3
0°	9472.8	12450.7	16065.8	21607.0	28571.6	37623.7	50032.7	68675.2	87567.0	102520.5	114910.1
-2.5°	9408.2	12339.9	15902.7	21172.2	28395.7	37830.5	51115.7	69607.4	87912.2	103066.9	114743.3
-5°	9272.2	12165.2	15678.9	20638.0	27766.0	37310.5	49939.8	66940.5	84618.8	100164.1	111515.5
-7.5°	9018.9	11872.7	15232.4	19856.5	26722.1	35760.4	47157.2	61930.3	78889.6	94464.8	105454.0
-10°	8646.1	11421.0	14591.7	18797.2	24963.2	33264.6	42953.9	54490.6	70355.3	84917.3	97127.6
-12.5°	8116.4	10781.9	13702.8	17316.7	22838.5	30154.4	38507.5	48093.1	59431.8	73475.8	84921.1
-15°	7442.2	9949.1	12663.3	16073.1	20690.3	26684.6	33727.2	41163.4	49854.2	59548.5	70704.6
-17.5°	6615.0	8969.8	11497.3	14436.9	18171.0	23200.2	28771.3	34573.6	40846.7	47980.9	54535.1
-20°	5628.5	7782.3	10164.2	12898.5	16098.1	19730.8	23780.6	28471.3	33333.8	38425.5	42930.6



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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°	4626.7	6591.6	8861.3	11252.1	14033.1	16806.0	19526.1	23013.8	26768.8	30455.0	33808.2
-25°	3620.2	5354.7	7465.1	9707.5	11939.6	14204.5	16413.1	18578.8	21280.9	23653.6	26114.7
-27.5°	2875.4	4173.0	5945.0	7901.9	9847.0	11736.9	13646.3	15455.4	17159.4	18592.3	20251.7
-30°	2261.3	3137.2	4506.1	6046.1	7747.9	9413.1	11058.5	12586.7	13928.6	15108.5	16260.7
-32.5°	2044.6	2402.2	3215.7	4385.9	5728.6	7189.4	8564.8	9877.4	10983.7	12080.1	13112.5
-35°	1891.3	2088.2	2354.2	3085.2	3959.6	5122.1	6200.2	7289.6	8218.7	9313.7	10160.4
-37.5°	1765.7	1917.3	2085.5	2257.9	2789.6	3371.7	4147.9	4964.5	5682.3	6600.8	7348.4
-40°	1644.1	1778.3	1909.8	2040.9	2182.3	2312.2	2774.2	3195.3	3682.2	4310.6	4848.2
-42.5°	1526.5	1644.7	1758.6	1865.1	1964.0	2049.2	2142.2	2231.2	2494.2	2814.5	3060.5
-45°	1420.9	1521.5	1616.8	1706.9	1782.2	1850.5	1922.1	1996.6	2094.4	2183.2	2256.6
-47.5°	1331.3	1410.7	1488.8	1562.2	1620.0	1678.3	1735.3	1799.7	1875.8	1950.4	2012.8
-50°	1250.1	1318.9	1378.1	1430.1	1478.2	1527.5	1572.9	1630.1	1691.3	1753.0	1804.7
-52.5°	1172.4	1233.6	1283.0	1322.6	1359.2	1399.5	1438.5	1484.1	1533.9	1585.8	1626.8
-55°	1041.7	1119.5	1191.4	1228.6	1257.3	1290.5	1323.6	1360.4	1402.4	1446.0	1478.6
-57.5°	897.4	974.1	1041.8	1090.1	1137.7	1186.3	1222.8	1251.7	1289.6	1326.9	1355.0
-60°	752.4	816.8	876.6	925.3	975.0	1023.7	1064.7	1102.3	1149.3	1192.0	1226.8
-62.5°	617.5	673.8	719.9	759.4	801.7	844.1	883.0	920.2	962.9	1001.2	1033.7
-65°	494.8	542.0	576.2	607.2	640.8	675.9	706.8	737.6	771.9	802.6	829.3
-67.5°	400.1	431.4	452.7	472.4	499.2	526.4	550.6	575.1	601.4	624.6	644.8
-70°	327.5	347.0	360.2	375.3	394.3	411.8	427.7	445.6	464.9	482.7	498.8
-72.5°	271.5	284.9	294.7	306.8	318.9	330.0	340.1	352.9	367.0	380.7	393.8
-75°	227.4	236.1	245.5	254.3	262.5	270.6	278.0	288.3	299.2	309.5	319.4
-77.5°	204.1	210.6	215.8	220.7	225.2	230.4	235.5	244.2	253.7	261.7	269.2
-80°	186.0	191.0	195.4	199.1	202.5	206.7	211.0	218.1	225.6	232.3	238.8
-82.5°	169.7	174.1	178.1	181.5	184.7	188.4	192.0	198.3	204.6	210.4	216.0
-85°	154.6	158.3	161.9	164.9	167.9	171.3	174.6	180.0	185.5	190.5	195.6
-87.5°	141.0	144.3	147.5	149.8	152.0	155.3	158.5	163.4	168.2	172.7	177.2
-90°	2.0	2.0	2.0	1.7	1.3	1.3	1.3	1.3	1.3	1.0	0.7



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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°	165.3	167.3	167.7	168.0	167.7	167.3	165.3	163.3	159.6	155.9	151.6
87.5°	1.0	0.7	1.0	1.3	1.0	0.7	1.0	1.3	1.3	1.3	1.6
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4
77.5°	1.7	1.3	1.6	2.0	1.6	1.3	1.7	2.0	2.0	2.0	2.4
75°	3.0	2.7	2.4	2.0	2.4	2.7	3.0	3.3	3.5	3.7	3.9
72.5°	9.0	9.2	9.7	10.1	9.7	9.2	9.0	8.7	8.1	7.6	7.3
70°	10.8	10.2	10.1	10.1	10.1	10.2	10.8	11.1	10.9	10.7	10.7
67.5°	19.3	20.3	20.7	20.8	20.7	20.3	19.3	18.0	16.2	15.0	14.4
65°	18.7	19.4	19.5	19.5	19.5	19.4	18.7	18.0	17.2	16.5	16.0
62.5°	12.5	12.9	13.1	13.4	13.1	12.9	12.5	12.3	12.2	12.5	12.8
60°	7.0	7.5	7.8	8.1	7.8	7.5	7.0	6.7	6.6	6.7	7.0
57.5°	3.3	3.5	3.7	4.0	3.7	3.5	3.3	3.3	3.4	3.5	3.5
55°	6.8	7.1	7.3	7.4	7.3	7.1	6.8	6.5	6.1	6.2	6.5
52.5°	31.9	30.3	29.1	28.2	29.1	30.3	31.9	32.5	31.3	28.8	25.5
50°	123.1	120.2	116.8	113.6	116.8	120.2	123.1	120.5	114.3	104.1	92.4
47.5°	274.8	272.4	267.3	260.8	267.3	272.4	274.8	269.3	260.1	246.4	236.2
45°	464.4	477.9	483.9	480.5	483.9	477.9	464.4	444.6	430.2	418.0	406.9
42.5°	754.0	765.9	767.0	749.4	767.0	765.9	754.0	735.7	681.8	614.0	566.6
40°	1492.1	1595.5	1630.9	1524.2	1630.9	1595.5	1492.1	1368.0	1196.6	1003.0	873.5
37.5°	2644.5	3050.8	3389.7	3402.7	3389.7	3050.8	2644.5	2304.0	2021.5	1741.8	1492.3
35°	4285.9	4703.8	4905.9	4897.4	4905.9	4703.8	4285.9	3670.9	3098.6	2708.0	2345.0
32.5°	6023.9	6340.5	6542.9	6494.2	6542.9	6340.5	6023.9	5395.9	4521.8	3804.2	3350.8
30°	7953.4	8247.2	8483.1	8479.5	8483.1	8247.2	7953.4	7422.3	6678.8	5778.4	4761.2
27.5°	10990.1	11595.5	12076.7	11995.1	12076.7	11595.5	10990.1	10070.6	8941.1	7968.9	6874.5
25°	15684.8	16792.1	17575.0	17413.9	17575.0	16792.1	15684.8	14300.5	12659.4	11196.5	9533.1
22.5°	22620.1	24040.6	24634.6	24163.5	24634.6	24040.6	22620.1	20924.9	18641.5	16074.9	13764.2
20°	33478.2	36111.8	37749.2	36772.8	37749.2	36111.8	33478.2	30229.8	26820.1	22776.4	19215.8
17.5°	50252.8	55966.3	60480.8	60356.4	60480.8	55966.3	50252.8	43025.8	37441.9	31403.7	25897.8
15°	70467.8	76971.0	81978.4	82557.4	81978.4	76971.0	70467.8	61072.3	50280.8	41404.3	33352.3
12.5°	88568.3	95182.1	100082.3	101492.3	100082.3	95182.1	88568.3	77738.7	65201.0	51812.8	40773.7
10°	101468.4	108068.5	112811.5	114484.0	112811.5	108068.5	101468.4	91954.3	78195.4	62685.6	47815.5
7.5°	110931.9	118092.3	121647.6	123464.9	121647.6	118092.3	110931.9	101164.8	88547.2	72639.4	56278.3
5°	117741.4	124396.1	127835.6	130037.7	127835.6	124396.1	117741.4	108072.3	96218.2	80637.6	62833.1
2.5°	122034.0	128316.7	132447.1	134422.3	132447.1	128316.7	122034.0	113074.3	100918.8	85563.3	66886.4
0°	123419.5	129450.9	134080.5	135851.0	134080.5	129450.9	123419.5	114910.1	102520.5	87567.0	68675.2
-2.5°	122775.0	128683.4	132375.7	133091.5	132375.7	128683.4	122775.0	114743.3	103066.9	87912.2	69607.4
-5°	119421.4	124866.9	128276.4	128836.7	128276.4	124866.9	119421.4	111515.5	100164.1	84618.8	66940.5
-7.5°	113639.7	119071.9	121890.1	122719.8	121890.1	119071.9	113639.7	105454.0	94464.8	78889.6	61930.3
-10°	105256.9	110504.9	113516.9	114231.3	113516.9	110504.9	105256.9	97127.6	84917.3	70355.3	54490.6
-12.5°	93818.3	99416.9	102788.0	103530.7	102788.0	99416.9	93818.3	84921.1	73475.8	59431.8	48093.1
-15°	78985.9	84744.8	89048.2	90089.3	89048.2	84744.8	78985.9	70704.6	59548.5	49854.2	41163.4
-17.5°	61888.4	67651.4	71518.4	72256.7	71518.4	67651.4	61888.4	54535.1	47980.9	40846.7	34573.6
-20°	47163.1	50869.4	53051.9	53432.0	53051.9	50869.4	47163.1	42930.6	38425.5	33333.8	28471.3



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	36548.5	39039.6	40368.4	40555.9	40368.4	39039.6	36548.5	33808.2	30455.0	26768.8	23013.8
-25°	28321.6	30131.6	31121.3	31286.1	31121.3	30131.6	28321.6	26114.7	23653.6	21280.9	18578.8
-27.5°	21746.1	22870.5	23791.4	23599.6	23791.4	22870.5	21746.1	20251.7	18592.3	17159.4	15455.4
-30°	17207.4	17928.5	18472.4	18330.0	18472.4	17928.5	17207.4	16260.7	15108.5	13928.6	12586.7
-32.5°	13927.1	14492.1	14874.5	14976.4	14874.5	14492.1	13927.1	13112.5	12080.1	10983.7	9877.4
-35°	10824.8	11286.5	11551.5	11654.3	11551.5	11286.5	10824.8	10160.4	9313.7	8218.7	7289.6
-37.5°	7903.2	8308.2	8561.0	8648.8	8561.0	8308.2	7903.2	7348.4	6600.8	5682.3	4964.5
-40°	5259.8	5571.8	5778.9	5859.1	5778.9	5571.8	5259.8	4848.2	4310.6	3682.2	3195.3
-42.5°	3252.1	3398.1	3490.6	3519.6	3490.6	3398.1	3252.1	3060.5	2814.5	2494.2	2231.2
-45°	2313.3	2353.6	2376.7	2381.1	2376.7	2353.6	2313.3	2256.6	2183.2	2094.4	1996.6
-47.5°	2061.5	2093.3	2109.6	2110.3	2109.6	2093.3	2061.5	2012.8	1950.4	1875.8	1799.7
-50°	1847.2	1876.7	1891.6	1892.5	1891.6	1876.7	1847.2	1804.7	1753.0	1691.3	1630.1
-52.5°	1660.4	1683.9	1694.8	1695.0	1694.8	1683.9	1660.4	1626.8	1585.8	1533.9	1484.1
-55°	1505.3	1523.5	1530.3	1529.0	1530.3	1523.5	1505.3	1478.6	1446.0	1402.4	1360.4
-57.5°	1378.4	1396.2	1401.8	1399.9	1401.8	1396.2	1378.4	1355.0	1326.9	1289.6	1251.7
-60°	1253.8	1273.0	1280.2	1279.6	1280.2	1273.0	1253.8	1226.8	1192.0	1149.3	1102.3
-62.5°	1057.0	1071.7	1079.6	1082.0	1079.6	1071.7	1057.0	1033.7	1001.2	962.9	920.2
-65°	847.6	859.3	865.6	867.6	865.6	859.3	847.6	829.3	802.6	771.9	737.6
-67.5°	657.9	666.4	670.4	671.4	670.4	666.4	657.9	644.8	624.6	601.4	575.1
-70°	508.8	515.7	519.0	520.2	519.0	515.7	508.8	498.8	482.7	464.9	445.6
-72.5°	401.3	406.8	409.1	410.0	409.1	406.8	401.3	393.8	380.7	367.0	352.9
-75°	324.0	327.3	328.6	329.3	328.6	327.3	324.0	319.4	309.5	299.2	288.3
-77.5°	273.3	276.8	278.1	278.9	278.1	276.8	273.3	269.2	261.7	253.7	244.2
-80°	241.7	244.2	245.2	246.0	245.2	244.2	241.7	238.8	232.3	225.6	218.1
-82.5°	219.5	222.8	223.0	223.1	223.0	222.8	219.5	216.0	210.4	204.6	198.3
-85°	198.2	200.7	201.2	201.6	201.2	200.7	198.2	195.6	190.5	185.5	180.0
-87.5°	179.6	182.0	182.1	182.1	182.1	182.0	179.6	177.2	172.7	168.2	163.4
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	147.2	144.2	141.1	139.1	137.1	134.1	131.1	126.7	122.3	118.0	113.6
87.5°	2.0	1.9	1.9	2.0	2.0	2.3	2.6	2.6	2.7	2.7	2.7
85°	2.0	2.3	2.6	2.5	2.5	2.6	2.7	2.9	3.1	3.0	3.0
82.5°	2.6	2.6	2.7	2.7	2.7	2.9	3.0	3.2	3.4	3.5	3.5
80°	2.7	2.7	2.7	2.9	3.1	3.2	3.4	3.5	3.5	3.7	3.9
77.5°	2.7	2.7	2.8	3.1	3.4	3.5	3.5	3.8	3.9	3.9	4.0
75°	4.0	3.8	3.7	3.8	3.9	3.9	3.9	4.0	4.1	4.2	4.2
72.5°	7.1	6.9	6.6	6.3	5.9	6.1	6.0	5.7	5.4	5.0	4.6
70°	10.8	11.2	11.5	11.5	11.5	11.5	10.7	9.5	8.4	7.9	6.8
67.5°	14.3	14.7	15.7	17.2	17.1	16.8	16.1	15.2	13.6	12.1	9.9
65°	16.3	17.1	17.2	17.0	18.2	19.3	20.6	20.1	20.0	17.9	14.1
62.5°	14.0	15.4	14.9	14.6	16.2	19.4	24.5	26.7	28.0	26.1	21.3
60°	8.2	9.2	9.8	10.9	12.9	18.3	26.3	32.1	37.1	33.7	28.2
57.5°	4.0	4.8	6.2	8.1	10.3	17.5	26.6	34.5	40.1	37.9	34.3
55°	6.6	7.6	8.4	9.1	10.0	17.7	25.8	33.9	40.0	39.3	36.2
52.5°	20.8	24.1	23.9	19.6	20.2	24.7	26.7	35.1	40.7	41.4	39.0
50°	85.7	89.1	77.5	64.0	64.0	50.6	52.7	50.6	49.0	50.3	45.4
47.5°	228.2	216.8	191.2	170.9	152.9	132.9	123.2	99.9	95.0	73.3	69.5
45°	390.1	372.6	342.5	308.6	279.6	253.5	229.5	210.6	174.6	155.5	109.6
42.5°	542.2	514.6	479.5	442.8	408.0	369.5	340.8	318.7	294.2	257.4	217.2
40°	769.5	647.4	603.1	559.8	513.5	468.7	436.1	402.6	385.3	356.3	317.4
37.5°	1204.4	937.8	805.7	675.2	618.3	568.4	530.7	496.3	463.2	437.7	401.1
35°	1917.4	1535.2	1182.9	941.2	750.0	683.2	633.8	594.5	553.6	512.5	478.0
32.5°	2813.3	2339.2	1838.7	1405.4	1057.9	841.9	755.5	699.6	647.3	596.7	547.1
30°	3890.5	3296.1	2662.6	2077.9	1598.1	1183.4	912.5	818.4	747.7	683.9	618.9
27.5°	5747.6	4501.2	3733.6	3001.4	2393.4	1814.4	1290.9	950.6	856.6	778.7	701.5
25°	8292.1	6882.7	5495.4	4500.5	3685.4	2695.9	1856.0	1283.6	988.0	878.3	786.4
22.5°	11477.5	9581.3	7843.8	6315.8	5125.8	3851.3	2655.4	1652.4	1129.5	983.8	875.6
20°	15504.8	12405.0	10232.7	8275.8	6562.7	4948.6	3435.6	2212.0	1440.5	1096.5	962.4
17.5°	20823.4	16248.2	12906.0	10390.2	8212.6	6303.7	4474.6	2912.7	1731.8	1211.2	1047.7
15°	26444.5	20607.7	16065.3	12506.7	9719.8	7501.6	5531.2	3614.7	2138.3	1414.2	1142.8
12.5°	32458.4	25386.6	19311.9	14657.6	11145.4	8551.7	6397.1	4380.5	2686.9	1652.7	1223.7
10°	37520.5	29487.0	22629.2	17154.7	12997.9	9720.5	7136.9	4986.8	3125.3	1860.9	1294.9
7.5°	42834.5	32942.0	25157.9	18933.2	14426.4	10955.4	7898.9	5437.1	3461.5	2016.1	1349.7
5°	46458.5	35234.4	26874.2	20142.8	15327.7	11797.5	8617.7	5749.6	3674.5	2122.0	1395.6
2.5°	48730.3	36480.2	27802.0	21043.6	15802.4	12221.0	9180.7	6145.1	3854.7	2216.5	1441.5
0°	50032.7	37623.7	28571.6	21607.0	16065.8	12450.7	9472.8	6603.7	3976.0	2279.7	1478.5
-2.5°	51115.7	37830.5	28395.7	21172.2	15902.7	12339.9	9408.2	6778.4	4238.2	2343.7	1518.0
-5°	49939.8	37310.5	27766.0	20638.0	15678.9	12165.2	9272.2	6727.6	4310.3	2371.2	1546.0
-7.5°	47157.2	35760.4	26722.1	19856.5	15232.4	11872.7	9018.9	6439.2	4132.5	2383.6	1583.5
-10°	42953.9	33264.6	24963.2	18797.2	14591.7	11421.0	8646.1	6107.6	3892.6	2332.4	1607.7
-12.5°	38507.5	30154.4	22838.5	17316.7	13702.8	10781.9	8116.4	5651.7	3563.1	2215.8	1625.9
-15°	33727.2	26684.6	20690.3	16073.1	12663.3	9949.1	7442.2	5069.6	3137.2	2047.4	1629.0
-17.5°	28771.3	23200.2	18171.0	14436.9	11497.3	8969.8	6615.0	4483.9	2827.8	1921.6	1620.1
-20°	23780.6	19730.8	16098.1	12898.5	10164.2	7782.3	5628.5	3773.8	2511.4	1890.8	1616.2



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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°	19526.1	16806.0	14033.1	11252.1	8861.3	6591.6	4626.7	3066.8	2129.8	1824.3	1592.3
-25°	16413.1	14204.5	11939.6	9707.5	7465.1	5354.7	3620.2	2562.3	2001.6	1762.6	1548.5
-27.5°	13646.3	11736.9	9847.0	7901.9	5945.0	4173.0	2875.4	2112.2	1873.4	1680.4	1504.0
-30°	11058.5	9413.1	7747.9	6046.1	4506.1	3137.2	2261.3	1968.4	1766.1	1592.3	1434.2
-32.5°	8564.8	7189.4	5728.6	4385.9	3215.7	2402.2	2044.6	1830.1	1662.8	1509.6	1368.6
-35°	6200.2	5122.1	3959.6	3085.2	2354.2	2088.2	1891.3	1722.0	1566.6	1426.6	1301.6
-37.5°	4147.9	3371.7	2789.6	2257.9	2085.5	1917.3	1765.7	1616.1	1471.5	1351.7	1241.7
-40°	2774.2	2312.2	2182.3	2040.9	1909.8	1778.3	1644.1	1509.0	1391.0	1281.3	1184.6
-42.5°	2142.2	2049.2	1964.0	1865.1	1758.6	1644.7	1526.5	1415.8	1312.4	1219.3	1132.7
-45°	1922.1	1850.5	1782.2	1706.9	1616.8	1521.5	1420.9	1328.9	1240.8	1160.2	1081.2
-47.5°	1735.3	1678.3	1620.0	1562.2	1488.8	1410.7	1331.3	1250.1	1175.9	1097.5	985.3
-50°	1572.9	1527.5	1478.2	1430.1	1378.1	1318.9	1250.1	1180.9	1096.3	990.1	884.9
-52.5°	1438.5	1399.5	1359.2	1322.6	1283.0	1233.6	1172.4	1077.7	980.2	878.8	780.1
-55°	1323.6	1290.5	1257.3	1228.6	1191.4	1119.5	1041.7	950.5	855.5	762.1	677.2
-57.5°	1222.8	1186.3	1137.7	1090.1	1041.8	974.1	897.4	811.8	730.4	652.2	575.3
-60°	1064.7	1023.7	975.0	925.3	876.6	816.8	752.4	683.1	610.7	546.4	482.5
-62.5°	883.0	844.1	801.7	759.4	719.9	673.8	617.5	562.0	503.4	446.3	400.3
-65°	706.8	675.9	640.8	607.2	576.2	542.0	494.8	452.6	410.9	368.4	328.3
-67.5°	550.6	526.4	499.2	472.4	452.7	431.4	400.1	365.7	335.4	307.8	282.3
-70°	427.7	411.8	394.3	375.3	360.2	347.0	327.5	304.6	280.8	259.4	239.7
-72.5°	340.1	330.0	318.9	306.8	294.7	284.9	271.5	254.7	237.0	218.2	202.7
-75°	278.0	270.6	262.5	254.3	245.5	236.1	227.4	217.4	206.6	195.0	184.4
-77.5°	235.5	230.4	225.2	220.7	215.8	210.6	204.1	195.2	186.7	177.8	169.4
-80°	211.0	206.7	202.5	199.1	195.4	191.0	186.0	178.5	171.0	163.3	156.1
-82.5°	192.0	188.4	184.7	181.5	178.1	174.1	169.7	163.4	157.0	150.2	143.6
-85°	174.6	171.3	167.9	164.9	161.9	158.3	154.6	149.0	143.5	137.4	131.4
-87.5°	158.5	155.3	152.0	149.8	147.5	144.3	141.0	136.3	131.5	126.3	121.1
-90°	1.3	1.3	1.3	1.7	2.0	2.0	2.0	2.4	2.7	2.7	2.7



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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°	109.6	105.5	101.5	97.4	94.1	90.7	87.0	83.3	78.3	73.3	65.6
87.5°	2.9	3.2	3.4	3.7	3.7	3.7	4.0	4.3	4.3	4.2	4.6
85°	3.3	3.6	3.8	4.0	4.0	4.0	4.3	4.6	4.5	4.5	4.8
82.5°	3.7	4.0	4.0	4.0	4.2	4.4	4.6	4.9	4.8	4.8	5.0
80°	3.9	4.0	4.2	4.2	4.4	4.7	5.0	5.2	5.2	5.2	5.3
77.5°	4.0	4.1	4.4	4.6	4.6	4.8	5.1	5.5	5.7	5.7	5.7
75°	4.0	4.1	4.5	4.8	4.8	4.8	5.2	5.5	5.9	6.1	6.1
72.5°	4.5	4.5	4.7	4.9	5.1	5.2	5.4	5.7	6.1	6.4	6.5
70°	5.7	5.1	5.2	5.4	5.6	5.7	6.0	6.2	6.4	6.7	6.9
67.5°	7.4	6.7	6.1	6.1	6.3	6.5	6.6	6.8	7.0	7.1	7.3
65°	11.7	9.4	7.4	7.3	7.2	7.2	7.3	7.6	7.6	7.9	7.7
62.5°	16.9	13.5	11.3	9.4	8.8	9.2	8.2	9.1	8.4	8.9	8.6
60°	22.8	18.1	15.8	13.9	12.4	12.2	11.7	10.8	10.6	9.9	9.8
57.5°	27.9	22.3	21.0	18.9	18.0	16.7	16.0	14.6	13.2	12.4	11.1
55°	31.8	27.2	26.6	24.8	24.4	22.6	21.5	19.7	16.7	15.3	12.5
52.5°	34.0	33.4	32.9	32.8	32.4	29.7	28.5	25.1	22.5	18.5	15.5
50°	39.7	41.9	41.1	43.1	41.6	40.1	36.0	32.5	28.8	22.7	18.8
47.5°	58.7	60.3	55.8	57.1	54.4	52.3	47.1	40.9	35.4	28.9	22.2
45°	108.2	90.8	85.4	78.9	72.4	69.7	60.4	49.9	43.7	35.4	25.7
42.5°	177.2	152.8	136.2	105.0	102.6	90.9	76.5	64.4	52.3	42.2	30.7
40°	270.9	238.5	202.8	169.6	140.3	115.2	100.3	81.1	61.4	49.7	36.8
37.5°	360.9	324.1	287.6	242.9	190.0	155.8	127.4	99.2	73.2	58.3	43.0
35°	435.3	399.4	365.1	317.0	262.0	198.5	157.1	121.2	89.9	67.3	49.3
32.5°	502.3	460.8	420.2	381.2	321.7	242.2	193.2	146.3	107.1	76.6	55.7
30°	566.4	515.9	468.6	430.8	369.1	291.3	228.9	170.1	124.7	86.2	62.2
27.5°	632.9	571.3	515.3	471.3	407.4	333.5	257.0	192.8	142.4	96.8	69.2
25°	704.2	631.8	569.7	513.8	446.2	364.8	282.1	214.3	160.9	108.9	76.0
22.5°	779.6	692.3	622.2	559.3	488.9	395.3	306.5	236.3	175.3	120.3	82.4
20°	851.0	748.7	670.1	597.2	529.8	430.0	331.6	254.1	188.7	130.9	88.5
17.5°	922.0	803.1	707.2	630.4	564.6	465.7	357.4	270.8	201.1	140.6	94.2
15°	988.9	856.1	744.5	659.8	592.5	499.3	382.6	286.4	212.5	149.5	99.9
12.5°	1051.0	906.1	781.3	685.1	613.2	529.5	406.7	301.0	222.9	158.4	105.6
10°	1106.5	953.0	817.2	709.2	631.2	556.3	429.3	316.9	236.2	167.2	111.1
7.5°	1152.3	995.9	850.3	732.1	647.5	579.2	453.8	337.4	249.4	175.2	116.1
5°	1191.5	1034.6	883.2	759.0	666.3	597.9	476.1	356.8	261.6	182.3	120.6
2.5°	1227.0	1068.6	914.2	784.5	683.8	612.8	495.5	374.6	272.6	188.4	124.8
0°	1256.1	1096.8	940.9	807.2	699.6	624.4	512.1	390.5	282.3	193.6	128.4
-2.5°	1282.4	1116.9	963.0	831.0	725.8	641.7	522.3	398.5	290.3	200.4	132.8
-5°	1301.6	1131.5	980.8	851.8	749.4	655.7	529.5	404.3	296.6	206.1	136.6
-7.5°	1331.9	1148.5	996.8	870.1	769.5	665.8	533.8	408.0	301.2	210.5	139.9
-10°	1355.5	1164.1	1011.5	885.2	782.7	674.3	536.0	409.6	304.1	213.5	142.5
-12.5°	1373.9	1175.3	1021.4	896.4	793.2	681.6	541.8	411.4	305.2	215.1	144.5
-15°	1387.9	1191.8	1031.6	904.1	802.0	685.4	543.3	411.3	303.8	214.8	145.8
-17.5°	1392.3	1198.1	1036.8	910.1	808.1	685.6	540.3	407.8	300.5	212.7	146.6
-20°	1394.5	1200.7	1034.9	910.7	810.0	677.6	532.4	400.8	295.0	209.3	147.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1388.0	1201.8	1041.6	909.7	803.5	664.9	519.6	390.3	287.5	204.7	146.8
-25°	1360.9	1196.2	1042.9	912.9	786.5	646.9	505.9	379.4	277.8	198.7	146.0
-27.5°	1328.2	1175.3	1036.5	908.9	769.0	625.9	491.1	370.1	269.5	191.5	144.5
-30°	1292.1	1151.1	1021.4	894.2	745.6	603.1	473.2	357.9	261.9	187.3	142.4
-32.5°	1241.0	1123.0	1001.5	863.3	716.6	576.3	451.8	342.6	252.2	184.8	140.5
-35°	1191.3	1088.8	977.3	825.8	682.5	549.1	428.4	324.2	240.4	181.2	138.4
-37.5°	1138.7	1046.3	929.6	782.3	642.6	517.7	404.8	306.6	226.7	176.7	135.6
-40°	1091.2	989.8	863.6	733.0	600.9	481.6	378.0	289.4	217.9	171.1	132.0
-42.5°	1041.0	914.0	793.6	675.0	555.3	446.4	349.1	270.1	210.5	165.6	127.7
-45°	958.6	836.0	719.4	612.5	506.0	407.5	325.0	250.6	201.9	159.8	124.0
-47.5°	871.6	755.5	645.6	546.9	458.2	368.1	297.0	239.1	191.9	153.1	121.9
-50°	780.9	674.5	573.1	485.2	403.6	334.7	270.3	226.1	183.0	145.4	119.3
-52.5°	687.4	594.1	504.5	423.2	358.7	298.9	252.0	211.2	173.0	140.4	116.3
-55°	594.2	516.6	436.7	369.8	315.0	272.4	232.2	196.8	161.9	136.2	113.2
-57.5°	507.1	439.1	378.0	321.7	280.1	246.7	213.3	181.4	154.9	131.4	111.4
-60°	423.1	373.8	322.4	283.6	250.4	222.0	194.6	167.7	148.6	126.6	109.1
-62.5°	354.3	313.5	283.2	250.8	222.7	199.1	176.8	159.1	141.4	123.3	106.4
-65°	300.1	273.7	246.8	221.6	197.2	178.6	166.3	150.0	135.6	119.5	103.3
-67.5°	257.5	236.2	215.2	193.1	178.1	166.5	155.1	142.9	130.1	115.4	99.9
-70°	220.0	201.1	188.4	176.8	165.0	154.7	146.8	136.4	124.4	111.1	96.3
-72.5°	192.0	182.1	172.4	162.3	154.0	146.3	138.8	129.6	118.6	106.5	92.5
-75°	174.8	167.0	159.6	152.1	144.7	137.7	130.8	122.7	112.5	101.7	88.5
-77.5°	162.5	155.8	148.7	141.8	135.5	129.1	122.7	115.6	106.3	96.6	84.3
-80°	150.3	144.4	138.2	132.2	126.3	120.4	114.7	108.4	100.0	91.4	80.0
-82.5°	138.2	132.8	127.7	122.5	117.4	112.3	106.9	101.2	93.6	85.9	75.9
-85°	126.8	122.2	117.5	112.6	108.3	104.0	99.3	94.5	88.2	81.7	72.6
-87.5°	117.2	113.2	109.0	104.7	101.1	97.4	93.2	89.0	83.3	77.6	69.1
-90°	2.7	2.7	3.1	3.4	3.4	3.4	3.7	4.0	4.0	4.0	4.4



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	57.8	48.0	38.3	27.5	16.8	11.4	6.0
87.5°	4.9	4.9	4.9	4.9	4.8	5.5	6.0
85°	5.1	5.1	5.2	5.0	4.9	5.6	6.0
82.5°	5.3	5.4	5.4	5.2	5.1	5.7	6.0
80°	5.5	5.6	5.6	5.4	5.2	5.8	6.0
77.5°	5.8	5.8	5.8	5.5	5.3	6.0	6.0
75°	6.2	6.1	6.0	5.7	5.5	6.1	6.0
72.5°	6.5	6.4	6.3	5.9	5.6	6.2	6.0
70°	6.9	6.7	6.6	6.1	5.8	6.3	6.0
67.5°	7.4	7.0	6.8	6.3	6.0	6.5	6.0
65°	7.9	7.5	7.1	6.6	6.1	6.6	6.0
62.5°	8.5	8.1	7.4	6.9	6.3	6.7	6.0
60°	9.1	8.8	7.7	7.1	6.5	6.9	6.0
57.5°	10.4	9.4	8.4	7.4	6.9	7.0	6.0
55°	11.8	10.2	9.2	7.7	7.3	7.2	6.0
52.5°	13.2	11.0	10.0	8.0	7.7	7.3	6.0
50°	14.8	12.5	10.8	8.3	8.2	7.4	6.0
47.5°	16.6	14.1	11.7	8.7	8.6	7.6	6.0
45°	19.7	15.8	12.6	9.4	9.1	7.7	6.0
42.5°	22.8	17.5	13.5	10.1	9.6	7.9	6.0
40°	26.1	19.3	14.7	11.1	10.2	8.0	6.0
37.5°	29.5	21.1	16.1	12.3	10.7	8.2	6.0
35°	32.9	23.6	17.5	13.5	11.3	8.3	6.0
32.5°	36.9	26.4	18.9	14.7	11.9	8.5	6.0
30°	42.0	29.1	20.4	15.9	12.5	8.6	6.0
27.5°	47.0	31.7	22.3	17.1	13.1	8.8	6.0
25°	51.9	34.3	24.3	18.4	13.7	8.9	6.0
22.5°	56.5	37.0	26.2	19.6	14.3	9.0	6.0
20°	61.0	40.1	28.1	20.8	14.9	9.2	6.0
17.5°	65.7	43.1	30.0	22.0	15.6	9.3	6.0
15°	70.2	45.9	31.7	23.2	16.2	9.4	6.0
12.5°	74.6	48.7	33.5	24.4	16.8	9.6	6.0
10°	78.6	51.4	35.1	25.5	17.4	9.7	6.0
7.5°	82.3	53.9	36.7	26.6	17.9	9.8	6.0
5°	85.7	56.3	38.2	27.6	18.5	9.9	6.0
2.5°	88.7	58.5	39.7	28.6	19.0	10.0	6.0
0°	91.4	60.5	41.0	29.6	19.5	10.1	6.0
-2.5°	94.6	62.9	42.9	30.9	20.2	10.5	6.0
-5°	97.3	65.2	44.7	32.0	21.0	10.8	6.0
-7.5°	99.7	67.2	46.4	33.2	21.6	11.2	6.0
-10°	101.7	69.0	48.0	34.2	22.3	11.5	6.0
-12.5°	103.2	70.6	49.5	35.2	22.8	11.8	6.0
-15°	104.4	72.0	50.8	36.1	23.4	12.1	6.0
-17.5°	105.0	73.2	52.0	36.9	23.9	12.4	6.0
-20°	105.5	74.1	53.1	37.6	24.3	12.7	6.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	106.0	74.9	54.0	38.3	24.7	12.9	6.0
-25°	106.1	75.7	54.7	38.8	25.1	13.1	6.0
-27.5°	105.6	76.5	55.3	39.3	25.4	13.4	6.0
-30°	104.7	77.1	55.8	39.6	25.6	13.6	6.0
-32.5°	103.2	77.3	56.5	39.8	25.9	13.7	6.0
-35°	102.7	77.3	57.1	40.0	26.0	13.9	6.0
-37.5°	102.4	77.3	57.5	40.0	26.1	14.0	6.0
-40°	101.8	77.7	57.8	40.0	26.1	14.1	6.0
-42.5°	100.7	77.8	58.0	39.9	26.1	14.2	6.0
-45°	99.2	77.7	58.1	40.0	26.1	14.2	6.0
-47.5°	97.3	77.4	58.0	40.0	26.0	14.2	6.0
-50°	96.3	76.9	57.8	40.0	25.8	14.2	6.0
-52.5°	95.3	76.2	57.4	39.9	25.6	14.2	6.0
-55°	94.0	75.3	56.8	39.7	25.3	14.2	6.0
-57.5°	92.5	74.1	56.1	39.5	25.0	14.1	6.0
-60°	90.8	72.8	55.2	39.1	24.6	14.0	6.0
-62.5°	88.7	71.2	54.4	38.6	24.3	13.9	6.0
-65°	86.5	69.5	53.5	38.0	23.8	13.8	6.0
-67.5°	84.0	67.7	52.5	37.3	23.4	13.6	6.0
-70°	81.2	65.9	51.3	36.5	22.8	13.4	6.0
-72.5°	78.4	63.9	50.0	35.7	22.2	13.2	6.0
-75°	75.4	61.7	48.5	34.7	21.6	13.0	6.0
-77.5°	72.2	59.3	47.1	33.7	20.9	12.8	6.0
-80°	68.8	57.2	45.5	32.6	20.1	12.5	6.0
-82.5°	66.1	55.0	43.9	31.5	19.3	12.3	6.0
-85°	63.5	52.8	42.1	30.2	18.5	12.0	6.0
-87.5°	60.7	50.5	40.2	28.9	17.7	11.7	6.0
-90°	4.7	4.7	4.7	4.7	4.7	5.4	6.0

(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

