

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P640048

Luminaire Tested: **IFLD-S-SA3A-AMB-U-55**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640048
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-AMB-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (48) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	3322.4 lumens	Max Intensity:	4457.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	35.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

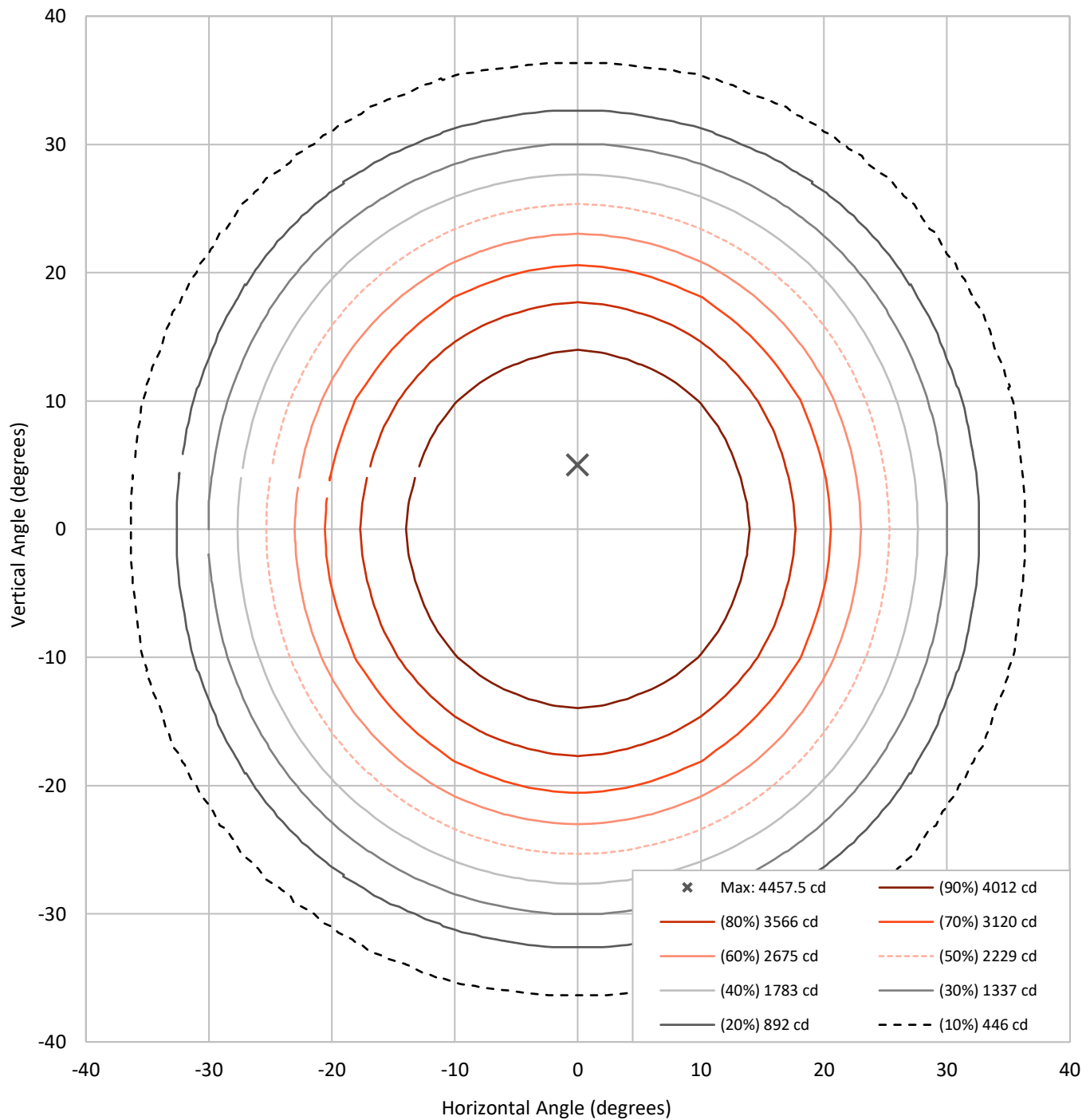
Beam Angle (50%):	49.8°H x 50.7°V	Field Angle (10%):	72.2°H x 72.6°V
Beam Lumens:	1600.1 lumens	Field Lumens:	2128 lumens
Beam Efficiency:	48.2%	Field Efficiency:	64.0%

Input Watts (W): 94.8
Input Voltage (V): 120
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



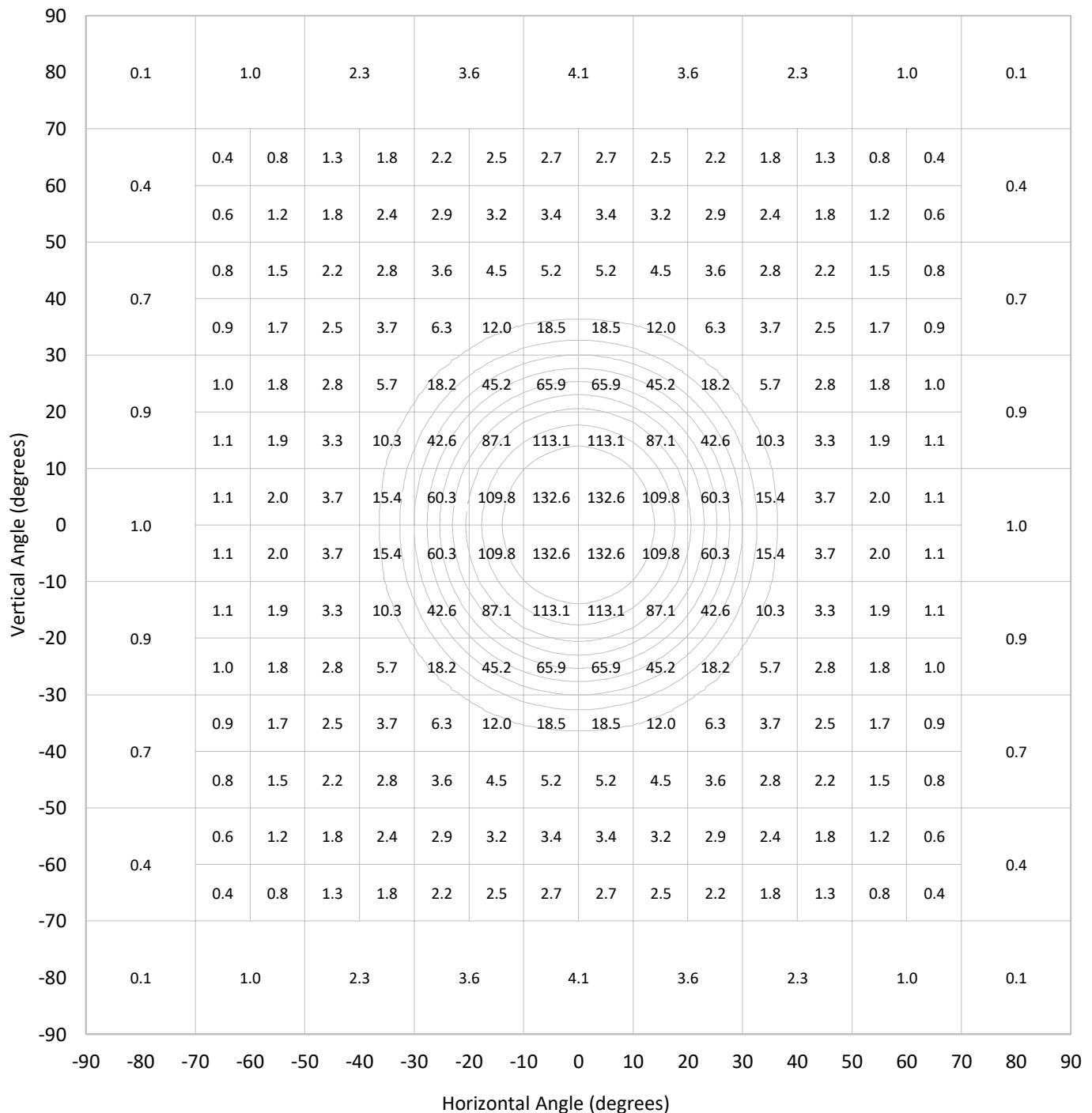
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Iso-Candela Plot



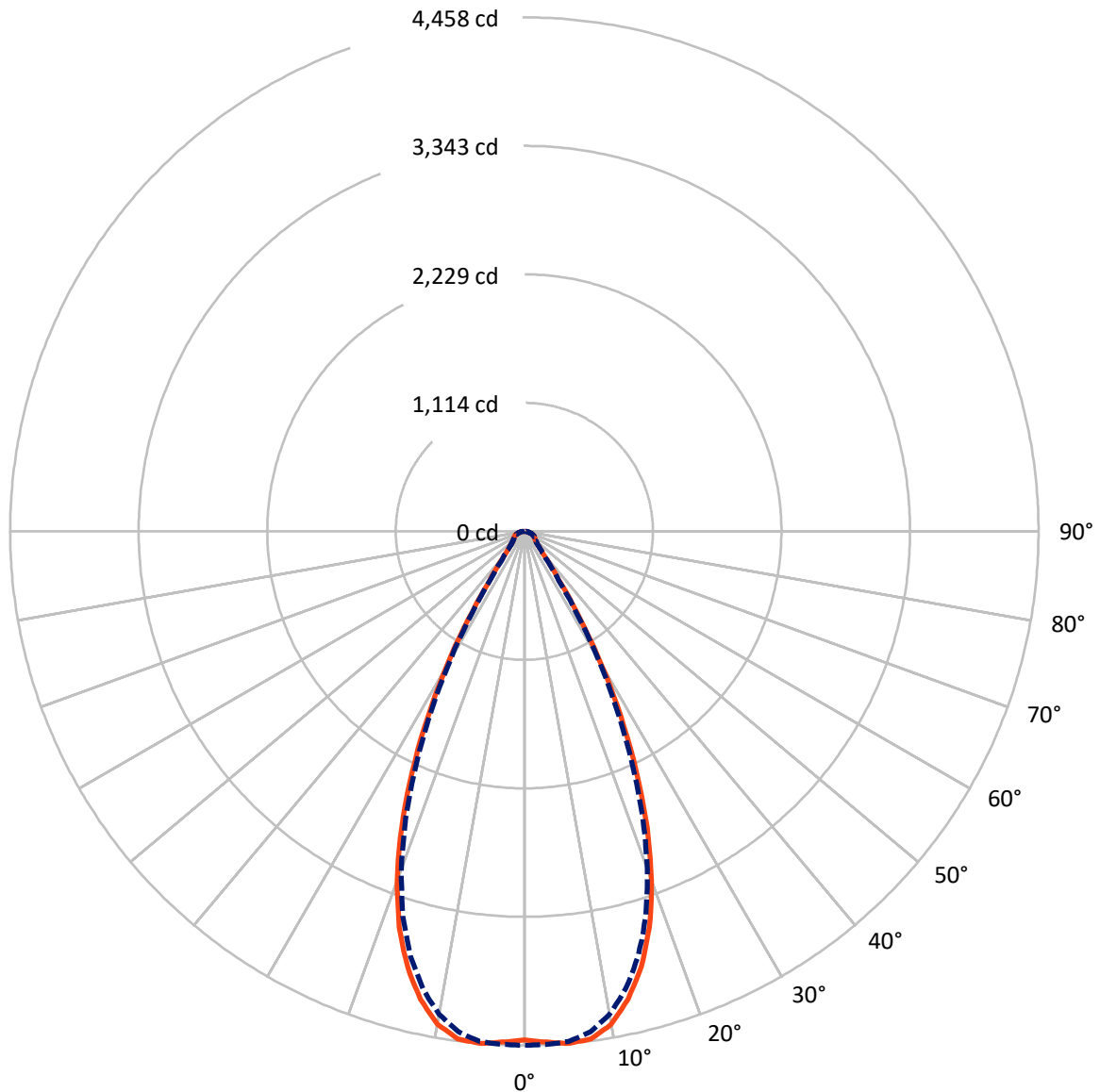
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Lumen Table



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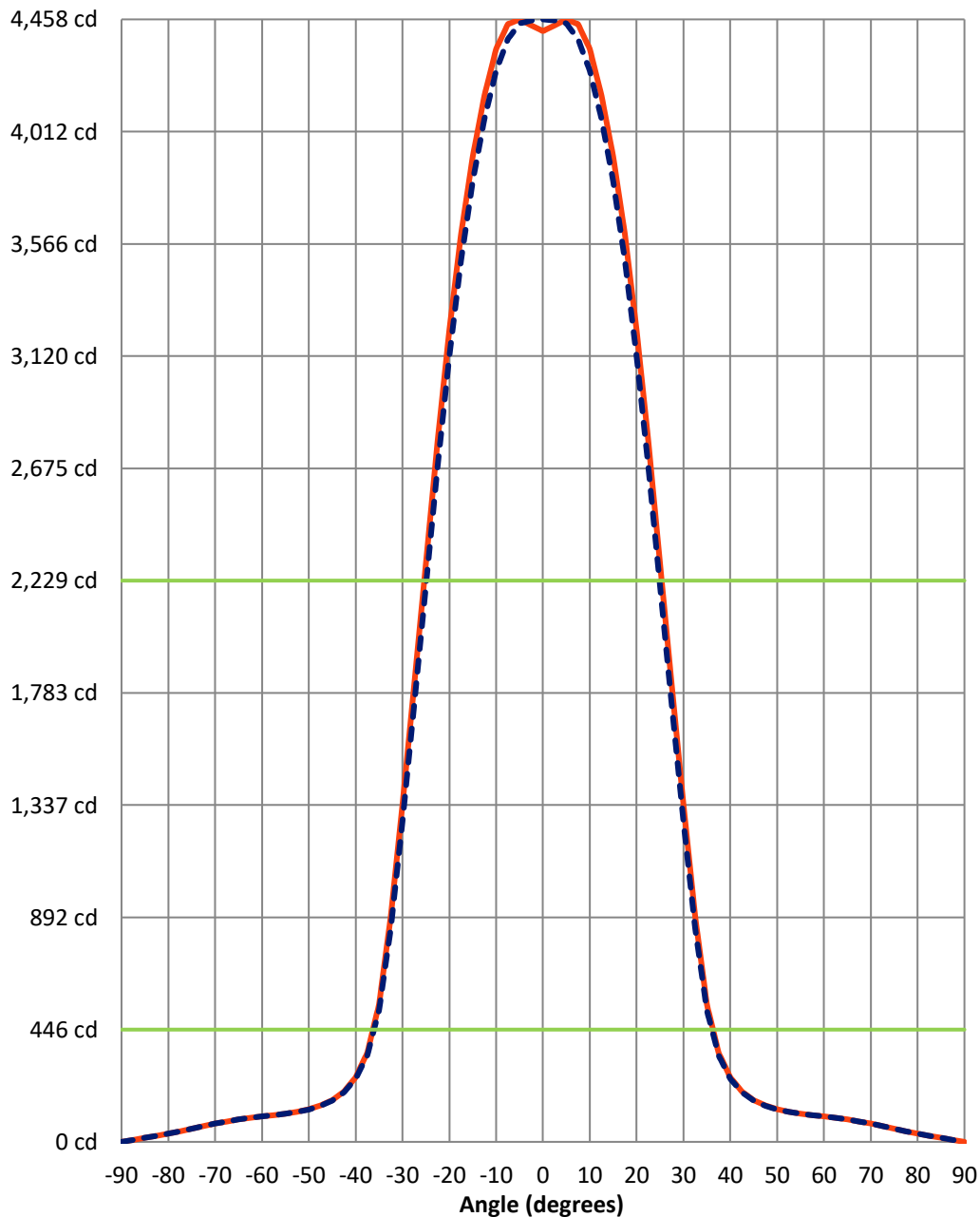
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.8°
V Angle: 50.7°
Lumens: 1600.1
Efficiency: 48.2%

Field:

H Angle: 72.2°
V Angle: 72.6°
Lumens: 2128
Efficiency: 64.0%

Spill:

Lumens: 1194.4
Efficiency: 36.0%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 5-Deg

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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
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°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
85°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	14.9	14.9	14.9	14.9
82.5°	23.8	23.8	23.8	23.8	23.8	23.8	22.4	22.4	22.4	22.4	22.4
80°	32.8	32.8	32.8	32.8	32.8	31.3	31.3	31.3	31.3	29.8	29.8
77.5°	41.7	41.7	41.7	41.7	41.7	40.2	40.2	40.2	38.7	38.7	37.3
75°	52.2	52.2	52.2	52.2	50.7	50.7	50.7	49.2	47.7	47.7	46.2
72.5°	62.6	62.6	62.6	62.6	61.1	61.1	59.6	59.6	58.1	56.6	55.1
70°	73.0	73.0	73.0	73.0	71.5	71.5	70.0	68.6	67.1	67.1	65.6
67.5°	80.5	80.5	80.5	80.5	79.0	79.0	77.5	77.5	76.0	74.5	74.5
65°	89.4	89.4	89.4	87.9	87.9	86.4	86.4	84.9	83.5	82.0	80.5
62.5°	95.4	95.4	95.4	95.4	93.9	93.9	92.4	92.4	90.9	89.4	87.9
60°	101.3	101.3	101.3	101.3	99.8	99.8	98.4	98.4	96.9	95.4	93.9
57.5°	105.8	105.8	105.8	105.8	104.3	104.3	104.3	102.8	101.3	101.3	99.8
55°	111.8	111.8	111.8	110.3	110.3	108.8	108.8	107.3	105.8	104.3	104.3
52.5°	119.2	119.2	119.2	117.7	117.7	116.2	114.8	113.3	111.8	110.3	108.8
50°	129.7	129.7	128.2	128.2	126.7	125.2	122.2	120.7	117.7	116.2	113.3
47.5°	144.6	144.6	143.1	141.6	140.1	137.1	134.1	129.7	126.7	123.7	120.7
45°	165.4	165.4	163.9	161.0	158.0	153.5	149.0	144.6	140.1	134.1	129.7
42.5°	199.7	199.7	196.7	192.2	186.3	180.3	171.4	162.4	156.5	147.5	141.6
40°	256.3	256.3	250.4	242.9	232.5	220.6	204.2	192.2	180.3	165.4	156.5
37.5°	354.7	354.7	344.3	329.4	310.0	286.1	257.8	237.0	216.1	195.2	178.8
35°	546.9	546.9	523.1	493.3	453.0	400.9	347.2	310.0	269.7	238.4	210.1
32.5°	895.7	895.7	848.0	789.9	707.9	606.6	512.7	435.2	354.7	302.5	253.4
30°	1339.8	1339.8	1272.7	1190.7	1077.5	935.9	794.3	642.3	506.7	403.9	323.4
27.5°	1813.7	1794.3	1734.7	1637.8	1505.2	1339.8	1155.0	944.8	751.1	551.4	432.2
25°	2296.5	2274.2	2207.1	2096.8	1947.8	1763.0	1546.9	1305.5	1053.6	806.2	578.2
22.5°	2782.4	2757.0	2681.0	2557.3	2390.4	2184.8	1944.8	1676.6	1386.0	1090.9	806.2
20°	3222.0	3195.2	3117.7	2992.5	2822.6	2597.6	2332.3	2038.7	1721.3	1386.0	1053.6
17.5°	3603.5	3576.7	3499.2	3375.5	3222.0	2977.6	2706.4	2383.0	2038.7	1676.6	1305.5
15°	3912.0	3886.7	3813.7	3698.9	3533.5	3308.5	3029.8	2706.4	2332.3	1944.8	1546.9
12.5°	4154.9	4131.1	4062.5	3956.7	3794.3	3587.1	3308.5	2977.6	2597.6	2184.8	1763.0
10°	4339.7	4317.4	4253.3	4156.4	3998.5	3794.3	3533.5	3222.0	2822.6	2390.4	1947.8
7.5°	4438.1	4421.7	4378.5	4296.5	4156.4	3956.7	3698.9	3375.5	2992.5	2557.3	2096.8
5°	4457.5	4453.0	4441.1	4378.5	4253.3	4062.5	3813.7	3499.2	3117.7	2681.0	2207.1
2.5°	4433.6	4444.1	4453.0	4421.7	4317.4	4131.1	3886.7	3576.7	3195.2	2757.0	2274.2
0°	4411.3	4433.6	4457.5	4438.1	4339.7	4154.9	3912.0	3603.5	3222.0	2782.4	2296.5

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
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°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.5	4.5	4.5
85°	14.9	13.4	13.4	13.4	13.4	11.9	11.9	10.4	10.4	10.4	8.9
82.5°	20.9	20.9	20.9	19.4	19.4	17.9	17.9	17.9	16.4	16.4	14.9
80°	28.3	28.3	26.8	26.8	25.3	23.8	23.8	22.4	20.9	20.9	19.4
77.5°	37.3	35.8	34.3	34.3	32.8	31.3	29.8	28.3	26.8	25.3	23.8
75°	44.7	43.2	41.7	40.2	38.7	37.3	35.8	34.3	32.8	31.3	29.8
72.5°	53.7	52.2	50.7	49.2	47.7	44.7	43.2	40.2	38.7	37.3	34.3
70°	62.6	61.1	59.6	58.1	55.1	53.7	50.7	47.7	44.7	43.2	40.2
67.5°	73.0	70.0	68.6	65.6	62.6	61.1	58.1	55.1	52.2	49.2	46.2
65°	79.0	77.5	76.0	74.5	71.5	68.6	65.6	62.6	58.1	55.1	52.2
62.5°	86.4	84.9	82.0	79.0	77.5	74.5	73.0	68.6	65.6	61.1	58.1
60°	92.4	90.9	89.4	86.4	83.5	80.5	77.5	74.5	71.5	67.1	64.1
57.5°	98.4	95.4	93.9	92.4	89.4	86.4	83.5	80.5	77.5	73.0	68.6
55°	102.8	101.3	98.4	96.9	93.9	92.4	89.4	84.9	82.0	77.5	74.5
52.5°	105.8	104.3	102.8	101.3	98.4	95.4	93.9	90.9	86.4	82.0	79.0
50°	111.8	108.8	107.3	104.3	102.8	99.8	96.9	93.9	90.9	87.9	82.0
47.5°	117.7	114.8	111.8	108.8	105.8	102.8	101.3	98.4	93.9	90.9	86.4
45°	125.2	120.7	116.2	113.3	110.3	105.8	104.3	101.3	98.4	93.9	90.9
42.5°	134.1	128.2	123.7	117.7	114.8	110.3	107.3	104.3	101.3	96.9	93.9
40°	147.5	138.6	131.1	125.2	119.2	114.8	110.3	105.8	102.8	99.8	95.4
37.5°	162.4	152.0	141.6	132.6	125.2	119.2	114.8	110.3	105.8	102.8	98.4
35°	187.8	168.4	155.0	143.1	132.6	125.2	117.7	113.3	108.8	104.3	101.3
32.5°	220.6	192.2	169.9	155.0	141.6	131.1	123.7	116.2	111.8	107.3	102.8
30°	263.8	225.0	192.2	168.4	152.0	138.6	128.2	120.7	114.8	108.8	104.3
27.5°	330.8	263.8	220.6	187.8	162.4	147.5	134.1	125.2	117.7	111.8	105.8
25°	432.2	323.4	253.4	210.1	178.8	156.5	141.6	129.7	120.7	113.3	108.8
22.5°	551.4	403.9	302.5	238.4	195.2	165.4	147.5	134.1	123.7	116.2	110.3
20°	751.1	506.7	354.7	269.7	216.1	180.3	156.5	140.1	126.7	117.7	111.8
17.5°	944.8	642.3	435.2	310.0	237.0	192.2	162.4	144.6	129.7	120.7	113.3
15°	1155.0	794.3	512.7	347.2	257.8	204.2	171.4	149.0	134.1	122.2	114.8
12.5°	1339.8	935.9	606.6	400.9	286.1	220.6	180.3	153.5	137.1	125.2	116.2
10°	1505.2	1077.5	707.9	453.0	310.0	232.5	186.3	158.0	140.1	126.7	117.7
7.5°	1637.8	1190.7	789.9	493.3	329.4	242.9	192.2	161.0	141.6	128.2	117.7
5°	1734.7	1272.7	848.0	523.1	344.3	250.4	196.7	163.9	143.1	128.2	119.2
2.5°	1794.3	1339.8	895.7	546.9	354.7	256.3	199.7	165.4	144.6	129.7	119.2
0°	1813.7	1339.8	895.7	546.9	354.7	256.3	199.7	165.4	144.6	129.7	119.2

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
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°	4.5	4.5	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5
85°	8.9	7.5	7.5	7.5	6.0	6.0	4.5	4.5	4.5	3.0	3.0
82.5°	13.4	13.4	11.9	10.4	10.4	8.9	7.5	6.0	6.0	4.5	4.5
80°	17.9	17.9	16.4	14.9	13.4	11.9	10.4	8.9	7.5	6.0	4.5
77.5°	22.4	20.9	19.4	17.9	16.4	14.9	13.4	11.9	10.4	7.5	6.0
75°	26.8	25.3	23.8	22.4	20.9	17.9	16.4	14.9	11.9	10.4	7.5
72.5°	32.8	29.8	28.3	25.3	23.8	20.9	19.4	16.4	14.9	11.9	8.9
70°	37.3	34.3	32.8	29.8	26.8	23.8	20.9	19.4	16.4	13.4	10.4
67.5°	43.2	38.7	35.8	32.8	29.8	26.8	23.8	20.9	17.9	14.9	11.9
65°	47.7	44.7	40.2	37.3	34.3	29.8	26.8	23.8	20.9	16.4	13.4
62.5°	53.7	49.2	44.7	41.7	37.3	32.8	29.8	25.3	22.4	17.9	14.9
60°	59.6	55.1	50.7	44.7	40.2	35.8	32.8	28.3	23.8	19.4	16.4
57.5°	64.1	59.6	55.1	49.2	44.7	38.7	34.3	29.8	25.3	20.9	17.9
55°	70.0	64.1	59.6	53.7	47.7	43.2	37.3	32.8	26.8	22.4	17.9
52.5°	74.5	68.6	64.1	58.1	52.2	46.2	40.2	34.3	29.8	23.8	19.4
50°	77.5	73.0	67.1	61.1	55.1	49.2	43.2	37.3	31.3	25.3	20.9
47.5°	82.0	77.5	71.5	65.6	58.1	52.2	44.7	38.7	32.8	26.8	20.9
45°	84.9	80.5	74.5	68.6	62.6	55.1	47.7	40.2	34.3	28.3	22.4
42.5°	89.4	83.5	77.5	73.0	65.6	58.1	50.7	43.2	35.8	29.8	23.8
40°	92.4	86.4	80.5	74.5	68.6	61.1	53.7	44.7	37.3	31.3	23.8
37.5°	93.9	89.4	83.5	77.5	71.5	62.6	55.1	47.7	38.7	32.8	25.3
35°	96.9	92.4	86.4	79.0	74.5	65.6	58.1	49.2	40.2	34.3	26.8
32.5°	98.4	93.9	89.4	82.0	76.0	68.6	59.6	50.7	41.7	34.3	26.8
30°	101.3	95.4	90.9	84.9	77.5	70.0	61.1	52.2	43.2	35.8	28.3
27.5°	102.8	98.4	92.4	86.4	79.0	73.0	62.6	53.7	44.7	37.3	28.3
25°	104.3	99.8	93.9	87.9	80.5	74.5	65.6	55.1	46.2	37.3	29.8
22.5°	104.3	101.3	95.4	89.4	82.0	74.5	67.1	56.6	47.7	38.7	29.8
20°	105.8	101.3	96.9	90.9	83.5	76.0	67.1	58.1	47.7	38.7	31.3
17.5°	107.3	102.8	98.4	92.4	84.9	77.5	68.6	59.6	49.2	40.2	31.3
15°	108.8	104.3	98.4	92.4	86.4	77.5	70.0	59.6	50.7	40.2	31.3
12.5°	108.8	104.3	99.8	93.9	86.4	79.0	71.5	61.1	50.7	40.2	31.3
10°	110.3	104.3	99.8	93.9	87.9	79.0	71.5	61.1	50.7	41.7	32.8
7.5°	110.3	105.8	101.3	95.4	87.9	80.5	73.0	62.6	52.2	41.7	32.8
5°	111.8	105.8	101.3	95.4	89.4	80.5	73.0	62.6	52.2	41.7	32.8
2.5°	111.8	105.8	101.3	95.4	89.4	80.5	73.0	62.6	52.2	41.7	32.8
0°	111.8	105.8	101.3	95.4	89.4	80.5	73.0	62.6	52.2	41.7	32.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	1.5	0.0	0.0	0.0
85°	1.5	1.5	0.0	0.0
82.5°	3.0	1.5	1.5	0.0
80°	4.5	3.0	1.5	0.0
77.5°	4.5	3.0	1.5	0.0
75°	6.0	4.5	1.5	0.0
72.5°	6.0	4.5	3.0	0.0
70°	7.5	4.5	3.0	0.0
67.5°	8.9	6.0	3.0	0.0
65°	10.4	6.0	3.0	0.0
62.5°	10.4	7.5	3.0	0.0
60°	11.9	7.5	3.0	0.0
57.5°	13.4	7.5	4.5	0.0
55°	13.4	8.9	4.5	0.0
52.5°	14.9	8.9	4.5	0.0
50°	16.4	10.4	4.5	0.0
47.5°	16.4	10.4	4.5	0.0
45°	17.9	10.4	6.0	0.0
42.5°	17.9	11.9	6.0	0.0
40°	17.9	11.9	6.0	0.0
37.5°	19.4	13.4	6.0	0.0
35°	19.4	13.4	6.0	0.0
32.5°	20.9	13.4	6.0	0.0
30°	20.9	13.4	6.0	0.0
27.5°	20.9	14.9	6.0	0.0
25°	22.4	14.9	7.5	0.0
22.5°	22.4	14.9	7.5	0.0
20°	22.4	14.9	7.5	0.0
17.5°	22.4	14.9	7.5	0.0
15°	22.4	16.4	7.5	0.0
12.5°	23.8	16.4	7.5	0.0
10°	23.8	16.4	7.5	0.0
7.5°	23.8	16.4	7.5	0.0
5°	23.8	16.4	7.5	0.0
2.5°	23.8	16.4	7.5	0.0
0°	23.8	16.4	7.5	0.0

(END OF REPORT)