

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: P640049

Luminaire Tested: **IFLD-S-SA6A-AMB-U-55**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640049
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-AMB-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (96) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	6517.6 lumens	Max Intensity:	8744.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	34.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

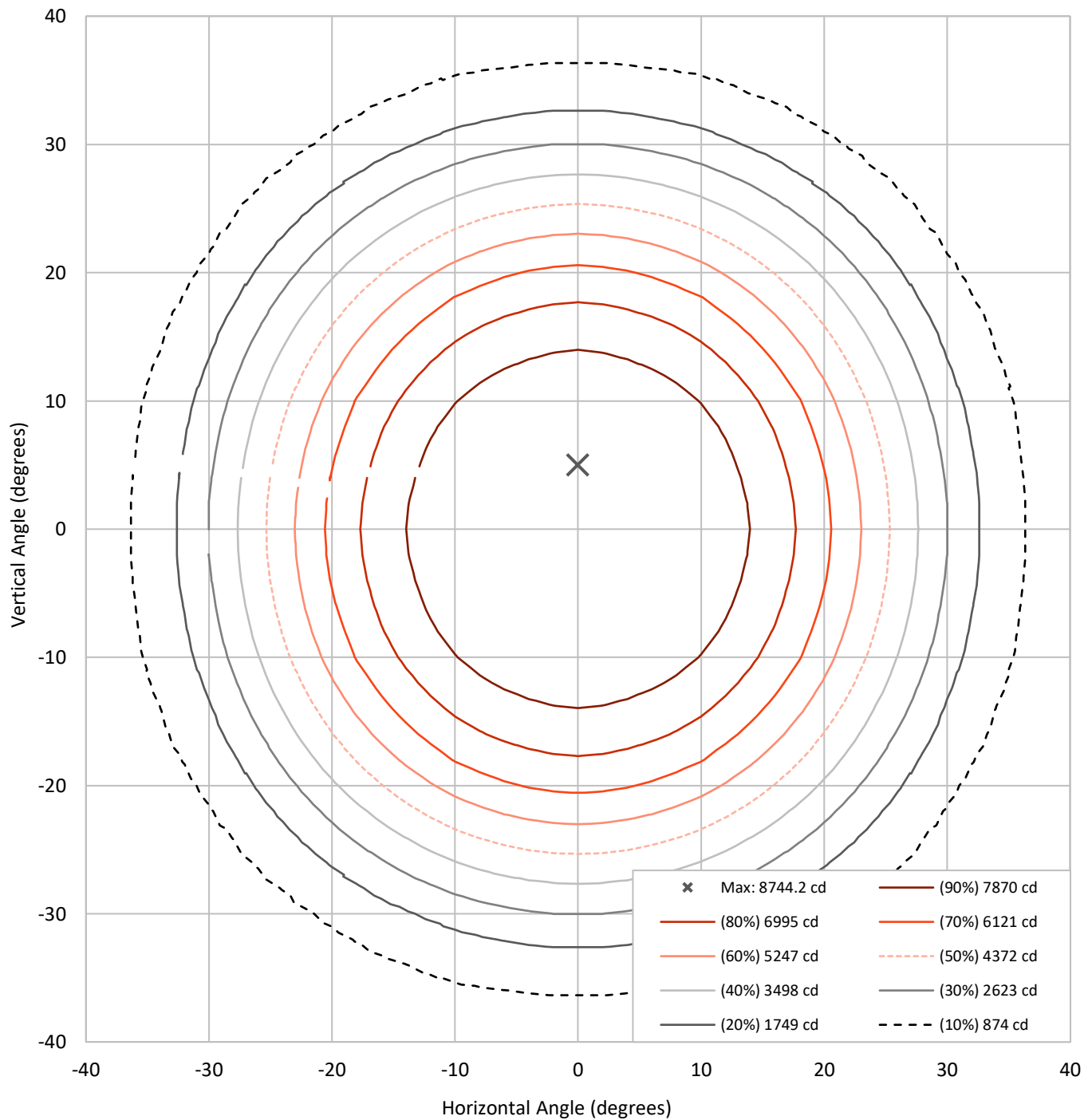
Beam Angle (50%):	49.8°H x 50.7°V	Field Angle (10%):	72.2°H x 72.6°V
Beam Lumens:	3139 lumens	Field Lumens:	4174.4 lumens
Beam Efficiency:	48.2%	Field Efficiency:	64.0%

Input Watts (W): 189.6
Input Voltage (V): 120
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



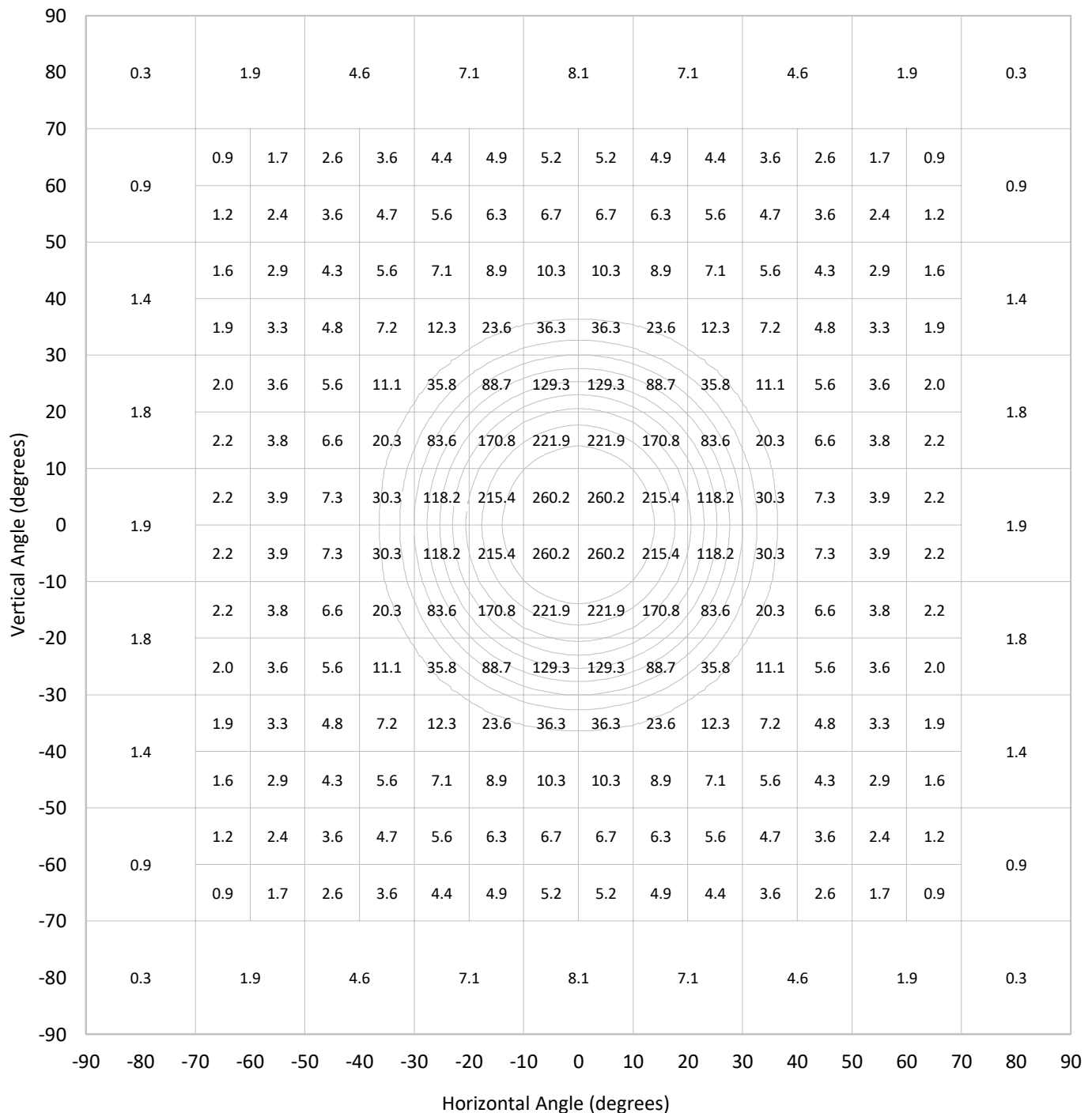
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Iso-Candela Plot



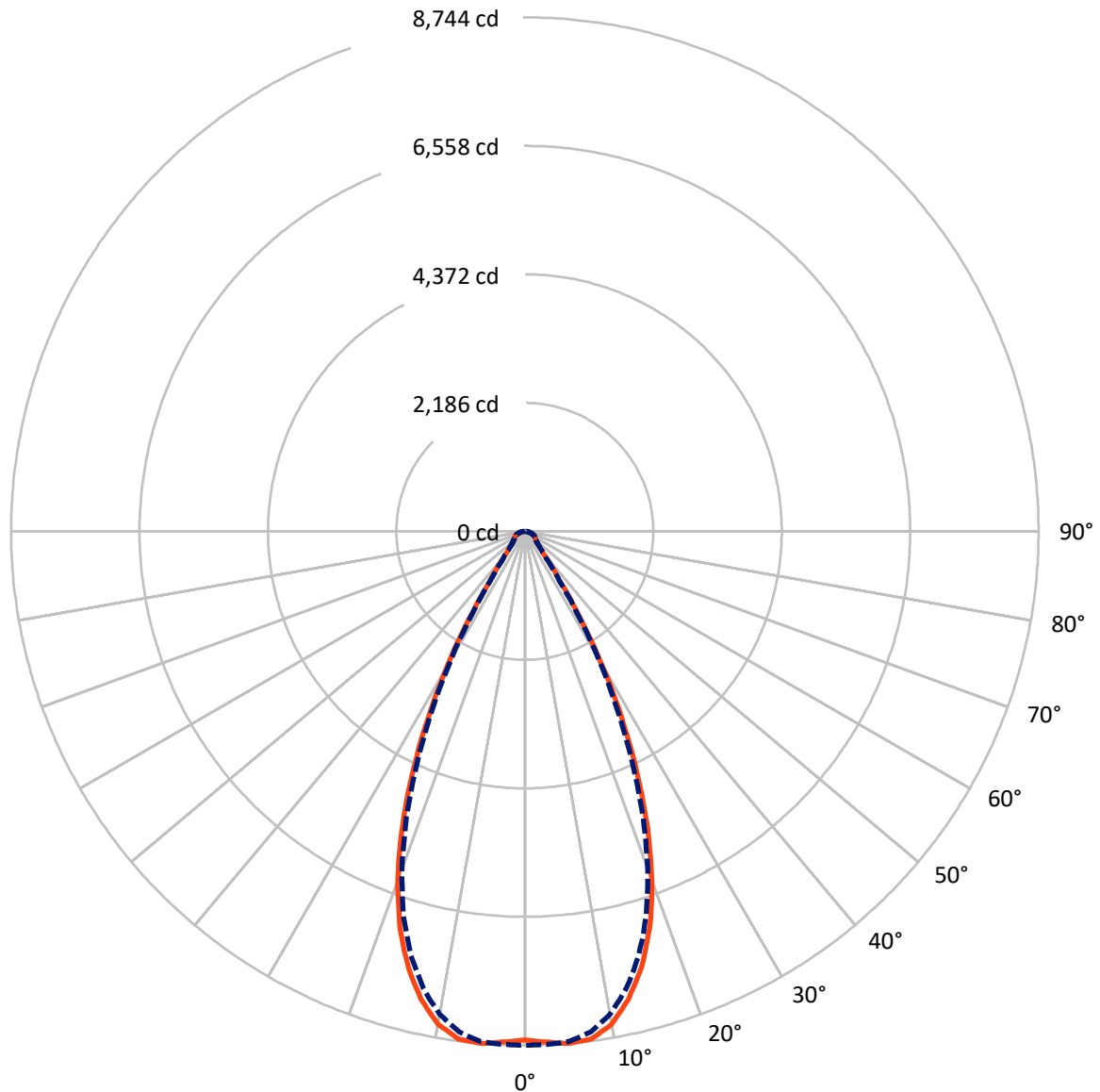
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Lumen Table



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Luminous Intensity Polar Plot

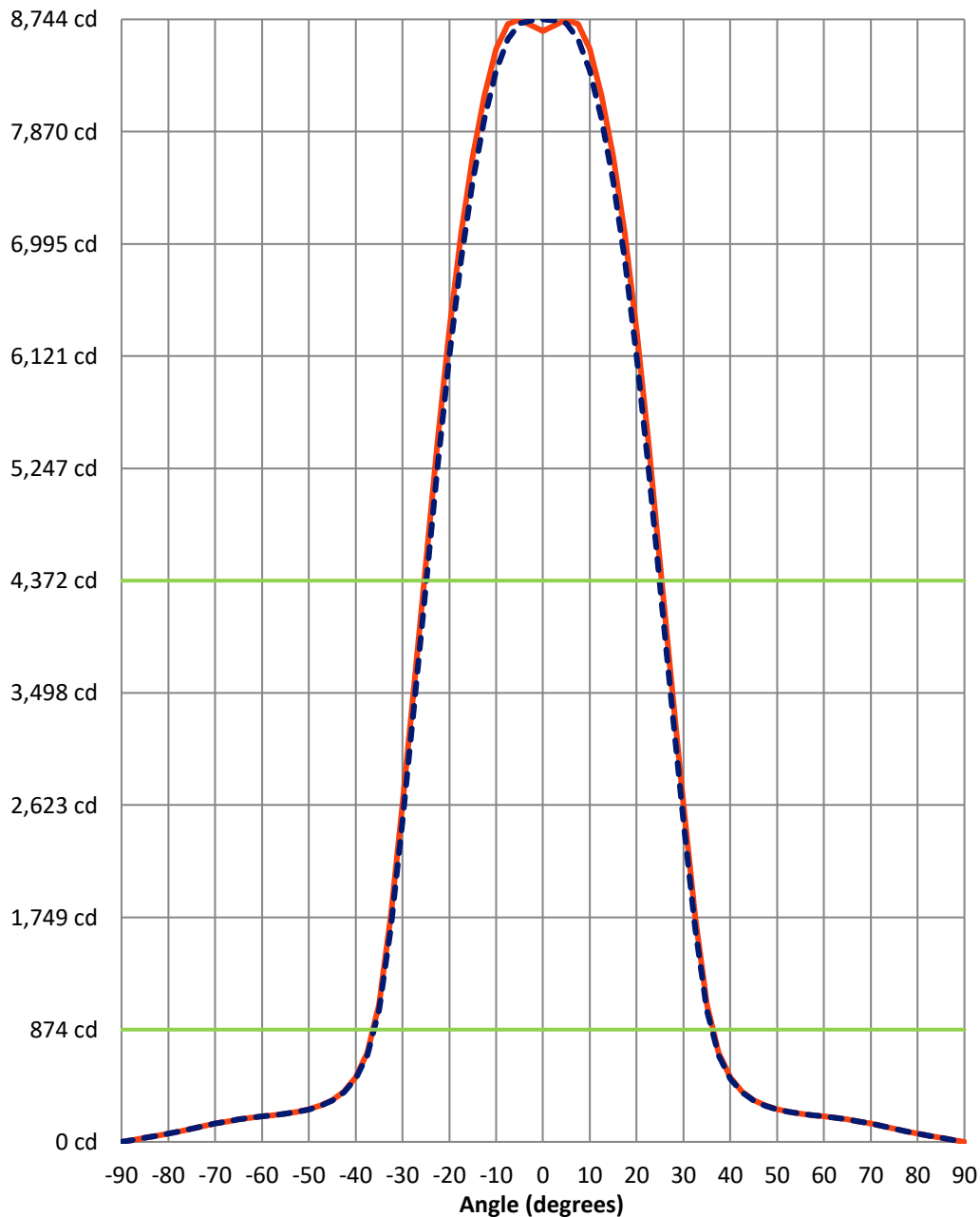


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.8°
V Angle: 50.7°
Lumens: 3139
Efficiency: 48.2%

Field:

H Angle: 72.2°
V Angle: 72.6°
Lumens: 4174.4
Efficiency: 64.0%

Spill:

Lumens: 2343.1
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°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
85°	32.2	32.2	32.2	32.2	32.2	32.2	32.2	29.2	29.2	29.2	29.2
82.5°	46.8	46.8	46.8	46.8	46.8	46.8	43.9	43.9	43.9	43.9	43.9
80°	64.3	64.3	64.3	64.3	64.3	61.4	61.4	61.4	61.4	58.5	58.5
77.5°	81.9	81.9	81.9	81.9	81.9	78.9	78.9	78.9	76.0	76.0	73.1
75°	102.3	102.3	102.3	102.3	99.4	99.4	99.4	96.5	93.6	93.6	90.6
72.5°	122.8	122.8	122.8	122.8	119.9	119.9	116.9	116.9	114.0	111.1	108.2
70°	143.3	143.3	143.3	143.3	140.3	140.3	137.4	134.5	131.6	131.6	128.6
67.5°	157.9	157.9	157.9	157.9	154.9	154.9	152.0	152.0	149.1	146.2	146.2
65°	175.4	175.4	175.4	172.5	172.5	169.6	169.6	166.6	163.7	160.8	157.9
62.5°	187.1	187.1	187.1	187.1	184.2	184.2	181.3	181.3	178.3	175.4	172.5
60°	198.8	198.8	198.8	198.8	195.9	195.9	193.0	193.0	190.0	187.1	184.2
57.5°	207.6	207.6	207.6	207.6	204.6	204.6	204.6	201.7	198.8	198.8	195.9
55°	219.3	219.3	219.3	216.3	216.3	213.4	213.4	210.5	207.6	204.6	204.6
52.5°	233.9	233.9	233.9	231.0	231.0	228.0	225.1	222.2	219.3	216.3	213.4
50°	254.3	254.3	251.4	251.4	248.5	245.6	239.7	236.8	231.0	228.0	222.2
47.5°	283.6	283.6	280.7	277.7	274.8	269.0	263.1	254.3	248.5	242.7	236.8
45°	324.5	324.5	321.6	315.7	309.9	301.1	292.3	283.6	274.8	263.1	254.3
42.5°	391.7	391.7	385.9	377.1	365.4	353.7	336.2	318.7	307.0	289.4	277.7
40°	502.8	502.8	491.1	476.5	456.1	432.7	400.5	377.1	353.7	324.5	307.0
37.5°	695.8	695.8	675.3	646.1	608.1	561.3	505.8	464.8	423.9	383.0	350.8
35°	1072.9	1072.9	1026.1	967.7	888.7	786.4	681.2	608.1	529.2	467.8	412.2
32.5°	1757.0	1757.0	1663.5	1549.5	1388.7	1189.9	1005.7	853.7	695.8	593.5	497.0
30°	2628.2	2628.2	2496.7	2335.9	2113.7	1836.0	1558.2	1260.0	994.0	792.3	634.4
27.5°	3557.9	3519.9	3402.9	3212.9	2952.7	2628.2	2265.7	1853.5	1473.4	1081.7	847.8
25°	4505.1	4461.3	4329.7	4113.4	3821.0	3458.5	3034.6	2561.0	2066.9	1581.6	1134.3
22.5°	5458.2	5408.5	5259.4	5016.7	4689.3	4285.8	3815.2	3288.9	2718.9	2140.0	1581.6
20°	6320.6	6268.0	6116.0	5870.4	5537.1	5095.7	4575.3	3999.3	3376.6	2718.9	2066.9
17.5°	7069.0	7016.4	6864.4	6621.7	6320.6	5841.1	5309.1	4674.7	3999.3	3288.9	2561.0
15°	7674.2	7624.5	7481.2	7256.1	6931.6	6490.2	5943.5	5309.1	4575.3	3815.2	3034.6
12.5°	8150.7	8103.9	7969.4	7761.9	7443.2	7036.9	6490.2	5841.1	5095.7	4285.8	3458.5
10°	8513.2	8469.4	8343.7	8153.6	7843.7	7443.2	6931.6	6320.6	5537.1	4689.3	3821.0
7.5°	8706.2	8674.0	8589.2	8428.4	8153.6	7761.9	7256.1	6621.7	5870.4	5016.7	4113.4
5°	8744.2	8735.4	8712.0	8589.2	8343.7	7969.4	7481.2	6864.4	6116.0	5259.4	4329.7
2.5°	8697.4	8717.9	8735.4	8674.0	8469.4	8103.9	7624.5	7016.4	6268.0	5408.5	4461.3
0°	8653.5	8697.4	8744.2	8706.2	8513.2	8150.7	7674.2	7069.0	6320.6	5458.2	4505.1

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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°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	8.8	8.8	8.8
85°	29.2	26.3	26.3	26.3	26.3	23.4	23.4	20.5	20.5	20.5	17.5
82.5°	40.9	40.9	40.9	38.0	38.0	35.1	35.1	35.1	32.2	32.2	29.2
80°	55.5	55.5	52.6	52.6	49.7	46.8	46.8	43.9	40.9	40.9	38.0
77.5°	73.1	70.2	67.2	67.2	64.3	61.4	58.5	55.5	52.6	49.7	46.8
75°	87.7	84.8	81.9	78.9	76.0	73.1	70.2	67.2	64.3	61.4	58.5
72.5°	105.2	102.3	99.4	96.5	93.6	87.7	84.8	78.9	76.0	73.1	67.2
70°	122.8	119.9	116.9	114.0	108.2	105.2	99.4	93.6	87.7	84.8	78.9
67.5°	143.3	137.4	134.5	128.6	122.8	119.9	114.0	108.2	102.3	96.5	90.6
65°	154.9	152.0	149.1	146.2	140.3	134.5	128.6	122.8	114.0	108.2	102.3
62.5°	169.6	166.6	160.8	154.9	152.0	146.2	143.3	134.5	128.6	119.9	114.0
60°	181.3	178.3	175.4	169.6	163.7	157.9	152.0	146.2	140.3	131.6	125.7
57.5°	193.0	187.1	184.2	181.3	175.4	169.6	163.7	157.9	152.0	143.3	134.5
55°	201.7	198.8	193.0	190.0	184.2	181.3	175.4	166.6	160.8	152.0	146.2
52.5°	207.6	204.6	201.7	198.8	193.0	187.1	184.2	178.3	169.6	160.8	154.9
50°	219.3	213.4	210.5	204.6	201.7	195.9	190.0	184.2	178.3	172.5	160.8
47.5°	231.0	225.1	219.3	213.4	207.6	201.7	198.8	193.0	184.2	178.3	169.6
45°	245.6	236.8	228.0	222.2	216.3	207.6	204.6	198.8	193.0	184.2	178.3
42.5°	263.1	251.4	242.7	231.0	225.1	216.3	210.5	204.6	198.8	190.0	184.2
40°	289.4	271.9	257.3	245.6	233.9	225.1	216.3	207.6	201.7	195.9	187.1
37.5°	318.7	298.2	277.7	260.2	245.6	233.9	225.1	216.3	207.6	201.7	193.0
35°	368.4	330.4	304.0	280.7	260.2	245.6	231.0	222.2	213.4	204.6	198.8
32.5°	432.7	377.1	333.3	304.0	277.7	257.3	242.7	228.0	219.3	210.5	201.7
30°	517.5	441.4	377.1	330.4	298.2	271.9	251.4	236.8	225.1	213.4	204.6
27.5°	649.0	517.5	432.7	368.4	318.7	289.4	263.1	245.6	231.0	219.3	207.6
25°	847.8	634.4	497.0	412.2	350.8	307.0	277.7	254.3	236.8	222.2	213.4
22.5°	1081.7	792.3	593.5	467.8	383.0	324.5	289.4	263.1	242.7	228.0	216.3
20°	1473.4	994.0	695.8	529.2	423.9	353.7	307.0	274.8	248.5	231.0	219.3
17.5°	1853.5	1260.0	853.7	608.1	464.8	377.1	318.7	283.6	254.3	236.8	222.2
15°	2265.7	1558.2	1005.7	681.2	505.8	400.5	336.2	292.3	263.1	239.7	225.1
12.5°	2628.2	1836.0	1189.9	786.4	561.3	432.7	353.7	301.1	269.0	245.6	228.0
10°	2952.7	2113.7	1388.7	888.7	608.1	456.1	365.4	309.9	274.8	248.5	231.0
7.5°	3212.9	2335.9	1549.5	967.7	646.1	476.5	377.1	315.7	277.7	251.4	231.0
5°	3402.9	2496.7	1663.5	1026.1	675.3	491.1	385.9	321.6	280.7	251.4	233.9
2.5°	3519.9	2628.2	1757.0	1072.9	695.8	502.8	391.7	324.5	283.6	254.3	233.9
0°	3557.9	2628.2	1757.0	1072.9	695.8	502.8	391.7	324.5	283.6	254.3	233.9

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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°	8.8	8.8	5.8	5.8	5.8	5.8	5.8	5.8	2.9	2.9	2.9
85°	17.5	14.6	14.6	14.6	11.7	11.7	8.8	8.8	8.8	5.8	5.8
82.5°	26.3	26.3	23.4	20.5	20.5	17.5	14.6	11.7	11.7	8.8	8.8
80°	35.1	35.1	32.2	29.2	26.3	23.4	20.5	17.5	14.6	11.7	8.8
77.5°	43.9	40.9	38.0	35.1	32.2	29.2	26.3	23.4	20.5	14.6	11.7
75°	52.6	49.7	46.8	43.9	40.9	35.1	32.2	29.2	23.4	20.5	14.6
72.5°	64.3	58.5	55.5	49.7	46.8	40.9	38.0	32.2	29.2	23.4	17.5
70°	73.1	67.2	64.3	58.5	52.6	46.8	40.9	38.0	32.2	26.3	20.5
67.5°	84.8	76.0	70.2	64.3	58.5	52.6	46.8	40.9	35.1	29.2	23.4
65°	93.6	87.7	78.9	73.1	67.2	58.5	52.6	46.8	40.9	32.2	26.3
62.5°	105.2	96.5	87.7	81.9	73.1	64.3	58.5	49.7	43.9	35.1	29.2
60°	116.9	108.2	99.4	87.7	78.9	70.2	64.3	55.5	46.8	38.0	32.2
57.5°	125.7	116.9	108.2	96.5	87.7	76.0	67.2	58.5	49.7	40.9	35.1
55°	137.4	125.7	116.9	105.2	93.6	84.8	73.1	64.3	52.6	43.9	35.1
52.5°	146.2	134.5	125.7	114.0	102.3	90.6	78.9	67.2	58.5	46.8	38.0
50°	152.0	143.3	131.6	119.9	108.2	96.5	84.8	73.1	61.4	49.7	40.9
47.5°	160.8	152.0	140.3	128.6	114.0	102.3	87.7	76.0	64.3	52.6	40.9
45°	166.6	157.9	146.2	134.5	122.8	108.2	93.6	78.9	67.2	55.5	43.9
42.5°	175.4	163.7	152.0	143.3	128.6	114.0	99.4	84.8	70.2	58.5	46.8
40°	181.3	169.6	157.9	146.2	134.5	119.9	105.2	87.7	73.1	61.4	46.8
37.5°	184.2	175.4	163.7	152.0	140.3	122.8	108.2	93.6	76.0	64.3	49.7
35°	190.0	181.3	169.6	154.9	146.2	128.6	114.0	96.5	78.9	67.2	52.6
32.5°	193.0	184.2	175.4	160.8	149.1	134.5	116.9	99.4	81.9	67.2	52.6
30°	198.8	187.1	178.3	166.6	152.0	137.4	119.9	102.3	84.8	70.2	55.5
27.5°	201.7	193.0	181.3	169.6	154.9	143.3	122.8	105.2	87.7	73.1	55.5
25°	204.6	195.9	184.2	172.5	157.9	146.2	128.6	108.2	90.6	73.1	58.5
22.5°	204.6	198.8	187.1	175.4	160.8	146.2	131.6	111.1	93.6	76.0	58.5
20°	207.6	198.8	190.0	178.3	163.7	149.1	131.6	114.0	93.6	76.0	61.4
17.5°	210.5	201.7	193.0	181.3	166.6	152.0	134.5	116.9	96.5	78.9	61.4
15°	213.4	204.6	193.0	181.3	169.6	152.0	137.4	116.9	99.4	78.9	61.4
12.5°	213.4	204.6	195.9	184.2	169.6	154.9	140.3	119.9	99.4	78.9	61.4
10°	216.3	204.6	195.9	184.2	172.5	154.9	140.3	119.9	99.4	81.9	64.3
7.5°	216.3	207.6	198.8	187.1	172.5	157.9	143.3	122.8	102.3	81.9	64.3
5°	219.3	207.6	198.8	187.1	175.4	157.9	143.3	122.8	102.3	81.9	64.3
2.5°	219.3	207.6	198.8	187.1	175.4	157.9	143.3	122.8	102.3	81.9	64.3
0°	219.3	207.6	198.8	187.1	175.4	157.9	143.3	122.8	102.3	81.9	64.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.9	0.0	0.0	0.0
85°	2.9	2.9	0.0	0.0
82.5°	5.8	2.9	2.9	0.0
80°	8.8	5.8	2.9	0.0
77.5°	8.8	5.8	2.9	0.0
75°	11.7	8.8	2.9	0.0
72.5°	11.7	8.8	5.8	0.0
70°	14.6	8.8	5.8	0.0
67.5°	17.5	11.7	5.8	0.0
65°	20.5	11.7	5.8	0.0
62.5°	20.5	14.6	5.8	0.0
60°	23.4	14.6	5.8	0.0
57.5°	26.3	14.6	8.8	0.0
55°	26.3	17.5	8.8	0.0
52.5°	29.2	17.5	8.8	0.0
50°	32.2	20.5	8.8	0.0
47.5°	32.2	20.5	8.8	0.0
45°	35.1	20.5	11.7	0.0
42.5°	35.1	23.4	11.7	0.0
40°	35.1	23.4	11.7	0.0
37.5°	38.0	26.3	11.7	0.0
35°	38.0	26.3	11.7	0.0
32.5°	40.9	26.3	11.7	0.0
30°	40.9	26.3	11.7	0.0
27.5°	40.9	29.2	11.7	0.0
25°	43.9	29.2	14.6	0.0
22.5°	43.9	29.2	14.6	0.0
20°	43.9	29.2	14.6	0.0
17.5°	43.9	29.2	14.6	0.0
15°	43.9	32.2	14.6	0.0
12.5°	46.8	32.2	14.6	0.0
10°	46.8	32.2	14.6	0.0
7.5°	46.8	32.2	14.6	0.0
5°	46.8	32.2	14.6	0.0
2.5°	46.8	32.2	14.6	0.0
0°	46.8	32.2	14.6	0.0

(END OF REPORT)