

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: P640052

Luminaire Tested: **IFLD-L-SA8A-AMB-U-55**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640052
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-AMB-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (128) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	8272.2 lumens	Max Intensity:	11098.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	33.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

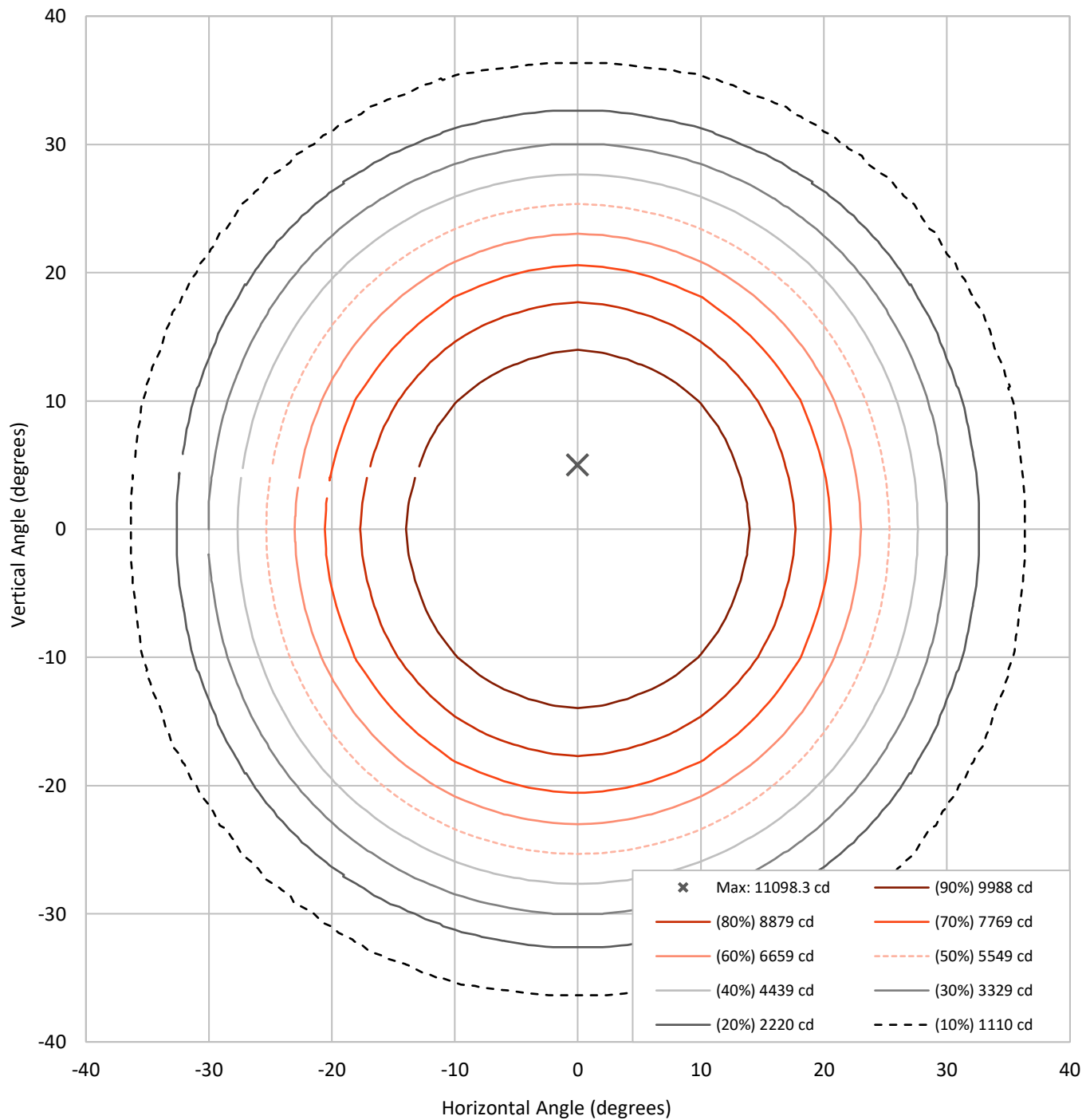
Beam Angle (50%):	49.8°H x 50.7°V	Field Angle (10%):	72.2°H x 72.6°V
Beam Lumens:	3984.1 lumens	Field Lumens:	5298.3 lumens
Beam Efficiency:	48.2%	Field Efficiency:	64.0%

Input Watts (W): 247.8
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



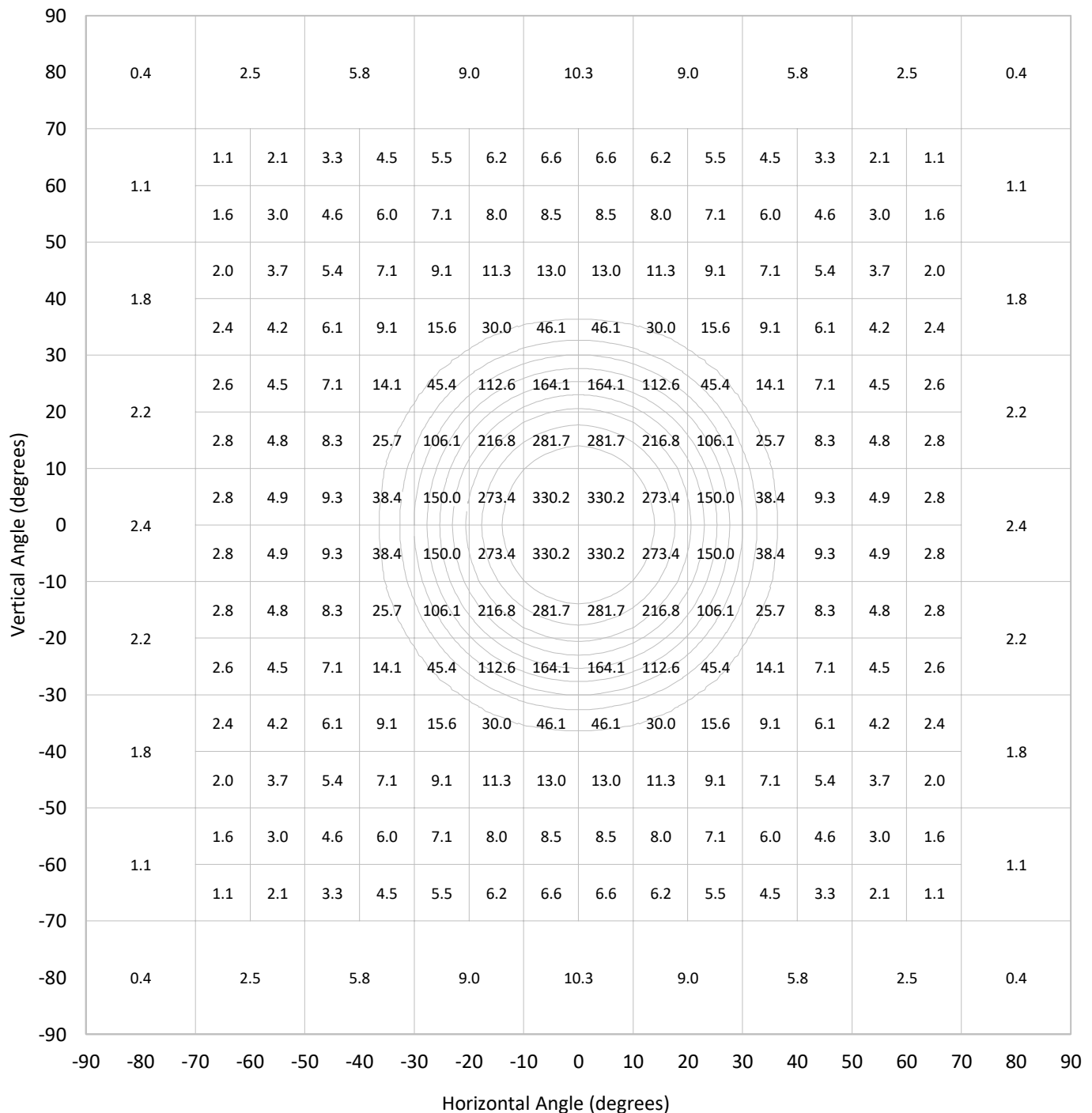
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Iso-Candela Plot



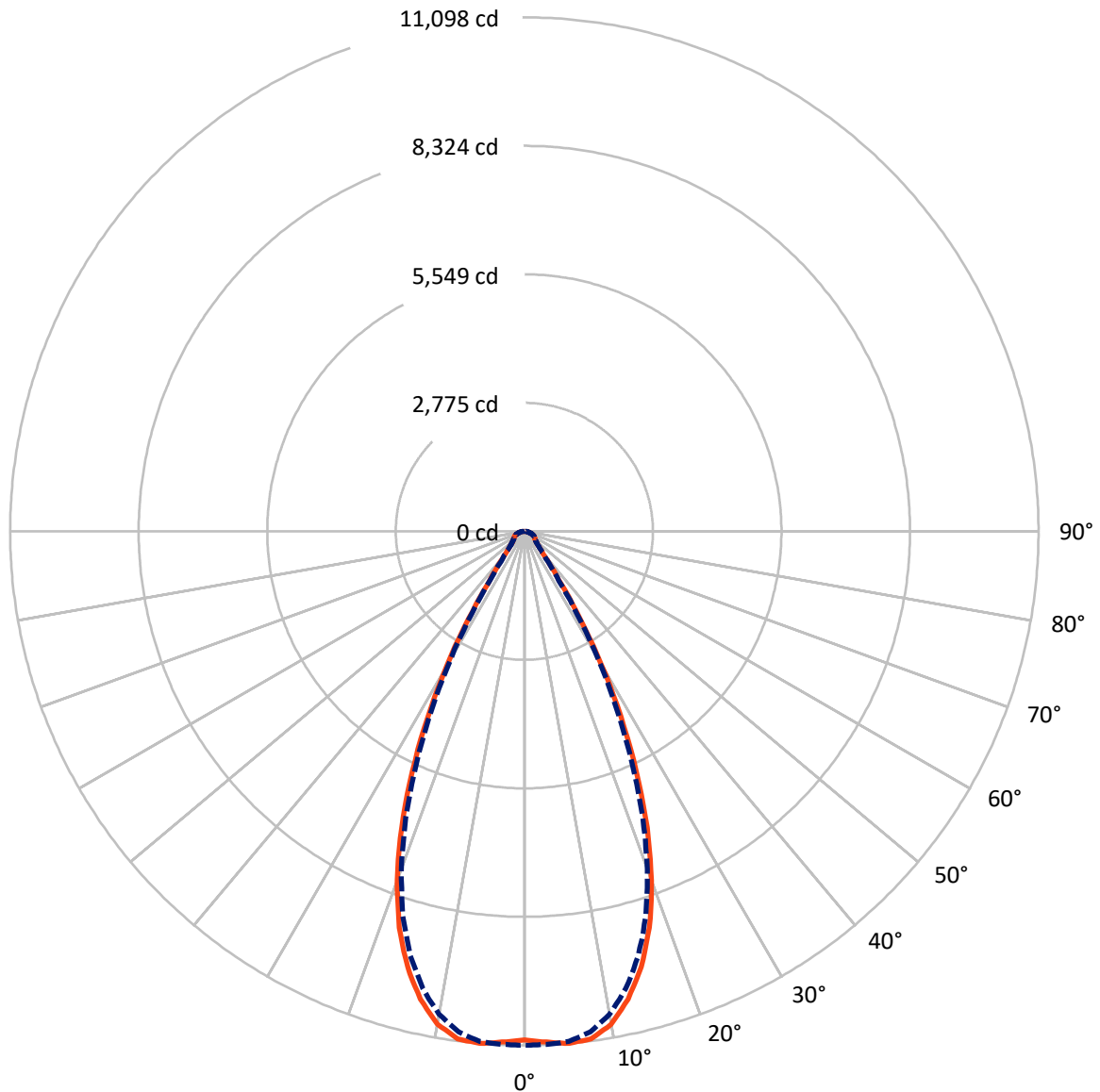
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Lumen Table



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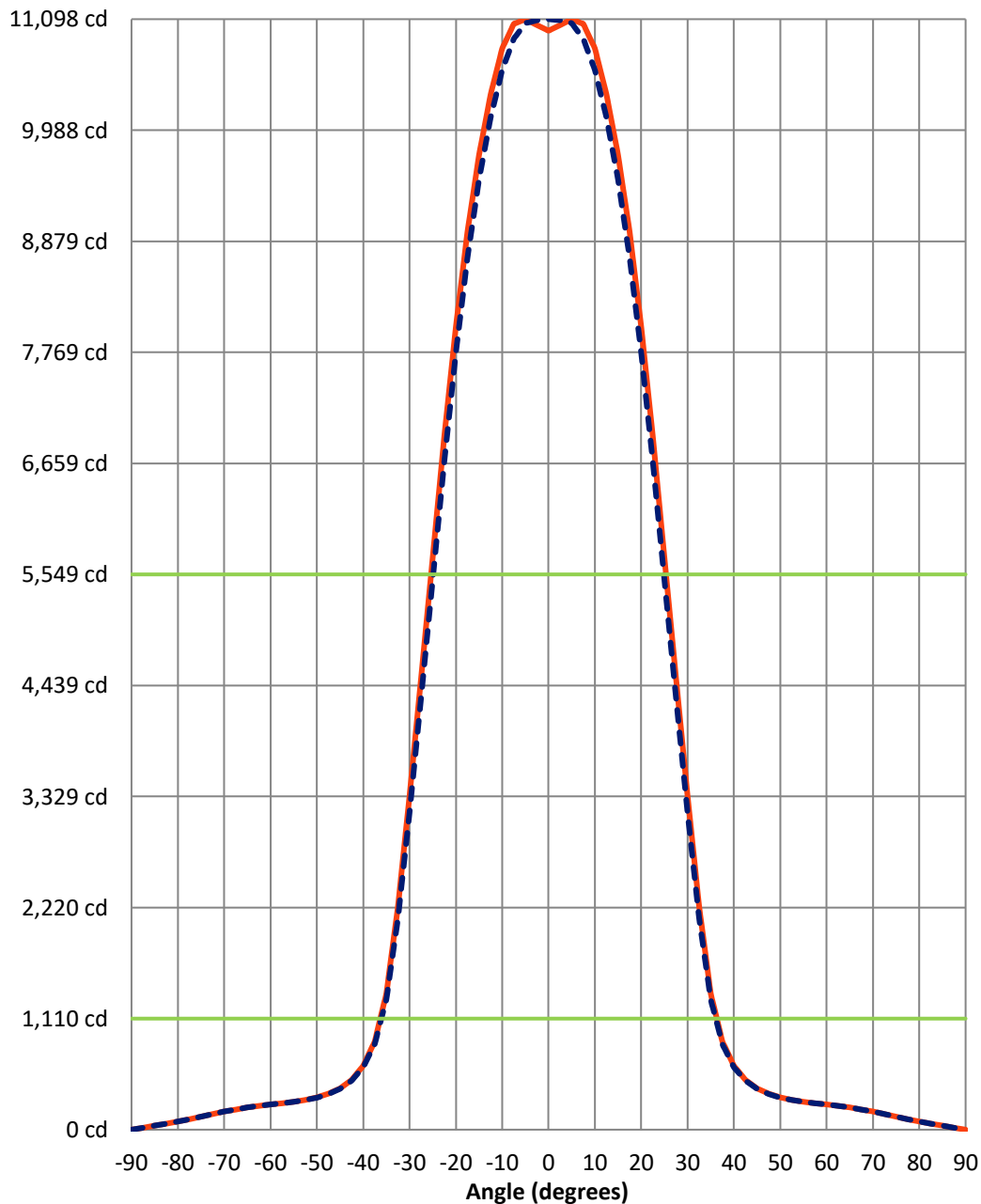
Luminous Intensity Polar Plot



— 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: 3984.1
Efficiency: 48.2%

Field:

H Angle: 72.2°
V Angle: 72.6°
Lumens: 5298.3
Efficiency: 64.0%

Spill:

Lumens: 2973.9
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°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
85°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	37.1	37.1	37.1	37.1
82.5°	59.4	59.4	59.4	59.4	59.4	59.4	55.7	55.7	55.7	55.7	55.7
80°	81.6	81.6	81.6	81.6	81.6	77.9	77.9	77.9	77.9	74.2	74.2
77.5°	103.9	103.9	103.9	103.9	103.9	100.2	100.2	100.2	96.5	96.5	92.8
75°	129.9	129.9	129.9	129.9	126.2	126.2	126.2	122.4	118.7	118.7	115.0
72.5°	155.8	155.8	155.8	155.8	152.1	152.1	148.4	148.4	144.7	141.0	137.3
70°	181.8	181.8	181.8	181.8	178.1	178.1	174.4	170.7	167.0	167.0	163.3
67.5°	200.4	200.4	200.4	200.4	196.7	196.7	192.9	192.9	189.2	185.5	185.5
65°	222.6	222.6	222.6	218.9	218.9	215.2	215.2	211.5	207.8	204.1	200.4
62.5°	237.5	237.5	237.5	237.5	233.8	233.8	230.1	230.1	226.3	222.6	218.9
60°	252.3	252.3	252.3	252.3	248.6	248.6	244.9	244.9	241.2	237.5	233.8
57.5°	263.5	263.5	263.5	263.5	259.7	259.7	259.7	256.0	252.3	252.3	248.6
55°	278.3	278.3	278.3	274.6	274.6	270.9	270.9	267.2	263.5	259.7	259.7
52.5°	296.8	296.8	296.8	293.1	293.1	289.4	285.7	282.0	278.3	274.6	270.9
50°	322.8	322.8	319.1	319.1	315.4	311.7	304.3	300.6	293.1	289.4	282.0
47.5°	359.9	359.9	356.2	352.5	348.8	341.4	334.0	322.8	315.4	308.0	300.6
45°	411.9	411.9	408.2	400.7	393.3	382.2	371.1	359.9	348.8	334.0	322.8
42.5°	497.2	497.2	489.8	478.7	463.8	449.0	426.7	404.5	389.6	367.3	352.5
40°	638.2	638.2	623.4	604.8	578.8	549.2	508.3	478.7	449.0	411.9	389.6
37.5°	883.1	883.1	857.1	820.0	771.8	712.4	641.9	590.0	538.0	486.1	445.3
35°	1361.8	1361.8	1302.4	1228.2	1128.0	998.1	864.6	771.8	671.6	593.7	523.2
32.5°	2230.1	2230.1	2111.3	1966.6	1762.5	1510.2	1276.4	1083.5	883.1	753.2	630.8
30°	3335.8	3335.8	3168.8	2964.7	2682.7	2330.2	1977.7	1599.3	1261.6	1005.6	805.2
27.5°	4515.8	4467.5	4319.1	4077.9	3747.7	3335.8	2875.7	2352.5	1870.1	1372.9	1076.1
25°	5718.0	5662.3	5495.3	5220.8	4849.7	4389.6	3851.6	3250.5	2623.4	2007.4	1439.7
22.5°	6927.6	6864.5	6675.3	6367.3	5951.7	5439.7	4842.3	4174.4	3450.8	2716.1	2007.4
20°	8022.2	7955.5	7762.5	7450.8	7027.8	6467.5	5807.0	5076.1	4285.7	3450.8	2623.4
17.5°	8972.1	8905.4	8712.4	8404.4	8022.2	7413.7	6738.4	5933.2	5076.1	4174.4	3250.5
15°	9740.2	9677.2	9495.3	9209.6	8797.8	8237.5	7543.6	6738.4	5807.0	4842.3	3851.6
12.5°	10345.1	10285.7	10115.0	9851.6	9447.1	8931.3	8237.5	7413.7	6467.5	5439.7	4389.6
10°	10805.2	10749.5	10590.0	10348.8	9955.4	9447.1	8797.8	8022.2	7027.8	5951.7	4849.7
7.5°	11050.1	11009.2	10901.6	10697.6	10348.8	9851.6	9209.6	8404.4	7450.8	6367.3	5220.8
5°	11098.3	11087.2	11057.5	10901.6	10590.0	10115.0	9495.3	8712.4	7762.5	6675.3	5495.3
2.5°	11038.9	11064.9	11087.2	11009.2	10749.5	10285.7	9677.2	8905.4	7955.5	6864.5	5662.3
0°	10983.3	11038.9	11098.3	11050.1	10805.2	10345.1	9740.2	8972.1	8022.2	6927.6	5718.0

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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°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	11.1	11.1	11.1
85°	37.1	33.4	33.4	33.4	33.4	29.7	29.7	26.0	26.0	26.0	22.3
82.5°	51.9	51.9	51.9	48.2	48.2	44.5	44.5	44.5	40.8	40.8	37.1
80°	70.5	70.5	66.8	66.8	63.1	59.4	59.4	55.7	51.9	51.9	48.2
77.5°	92.8	89.1	85.3	85.3	81.6	77.9	74.2	70.5	66.8	63.1	59.4
75°	111.3	107.6	103.9	100.2	96.5	92.8	89.1	85.3	81.6	77.9	74.2
72.5°	133.6	129.9	126.2	122.4	118.7	111.3	107.6	100.2	96.5	92.8	85.3
70°	155.8	152.1	148.4	144.7	137.3	133.6	126.2	118.7	111.3	107.6	100.2
67.5°	181.8	174.4	170.7	163.3	155.8	152.1	144.7	137.3	129.9	122.4	115.0
65°	196.7	192.9	189.2	185.5	178.1	170.7	163.3	155.8	144.7	137.3	129.9
62.5°	215.2	211.5	204.1	196.7	192.9	185.5	181.8	170.7	163.3	152.1	144.7
60°	230.1	226.3	222.6	215.2	207.8	200.4	192.9	185.5	178.1	167.0	159.6
57.5°	244.9	237.5	233.8	230.1	222.6	215.2	207.8	200.4	192.9	181.8	170.7
55°	256.0	252.3	244.9	241.2	233.8	230.1	222.6	211.5	204.1	192.9	185.5
52.5°	263.5	259.7	256.0	252.3	244.9	237.5	233.8	226.3	215.2	204.1	196.7
50°	278.3	270.9	267.2	259.7	256.0	248.6	241.2	233.8	226.3	218.9	204.1
47.5°	293.1	285.7	278.3	270.9	263.5	256.0	252.3	244.9	233.8	226.3	215.2
45°	311.7	300.6	289.4	282.0	274.6	263.5	259.7	252.3	244.9	233.8	226.3
42.5°	334.0	319.1	308.0	293.1	285.7	274.6	267.2	259.7	252.3	241.2	233.8
40°	367.3	345.1	326.5	311.7	296.8	285.7	274.6	263.5	256.0	248.6	237.5
37.5°	404.5	378.5	352.5	330.2	311.7	296.8	285.7	274.6	263.5	256.0	244.9
35°	467.5	419.3	385.9	356.2	330.2	311.7	293.1	282.0	270.9	259.7	252.3
32.5°	549.2	478.7	423.0	385.9	352.5	326.5	308.0	289.4	278.3	267.2	256.0
30°	656.8	560.3	478.7	419.3	378.5	345.1	319.1	300.6	285.7	270.9	259.7
27.5°	823.7	656.8	549.2	467.5	404.5	367.3	334.0	311.7	293.1	278.3	263.5
25°	1076.1	805.2	630.8	523.2	445.3	389.6	352.5	322.8	300.6	282.0	270.9
22.5°	1372.9	1005.6	753.2	593.7	486.1	411.9	367.3	334.0	308.0	289.4	274.6
20°	1870.1	1261.6	883.1	671.6	538.0	449.0	389.6	348.8	315.4	293.1	278.3
17.5°	2352.5	1599.3	1083.5	771.8	590.0	478.7	404.5	359.9	322.8	300.6	282.0
15°	2875.7	1977.7	1276.4	864.6	641.9	508.3	426.7	371.1	334.0	304.3	285.7
12.5°	3335.8	2330.2	1510.2	998.1	712.4	549.2	449.0	382.2	341.4	311.7	289.4
10°	3747.7	2682.7	1762.5	1128.0	771.8	578.8	463.8	393.3	348.8	315.4	293.1
7.5°	4077.9	2964.7	1966.6	1228.2	820.0	604.8	478.7	400.7	352.5	319.1	293.1
5°	4319.1	3168.8	2111.3	1302.4	857.1	623.4	489.8	408.2	356.2	319.1	296.8
2.5°	4467.5	3335.8	2230.1	1361.8	883.1	638.2	497.2	411.9	359.9	322.8	296.8
0°	4515.8	3335.8	2230.1	1361.8	883.1	638.2	497.2	411.9	359.9	322.8	296.8

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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°	11.1	11.1	7.4	7.4	7.4	7.4	7.4	7.4	3.7	3.7	3.7
85°	22.3	18.6	18.6	18.6	14.8	14.8	11.1	11.1	11.1	7.4	7.4
82.5°	33.4	33.4	29.7	26.0	26.0	22.3	18.6	14.8	14.8	11.1	11.1
80°	44.5	44.5	40.8	37.1	33.4	29.7	26.0	22.3	18.6	14.8	11.1
77.5°	55.7	51.9	48.2	44.5	40.8	37.1	33.4	29.7	26.0	18.6	14.8
75°	66.8	63.1	59.4	55.7	51.9	44.5	40.8	37.1	29.7	26.0	18.6
72.5°	81.6	74.2	70.5	63.1	59.4	51.9	48.2	40.8	37.1	29.7	22.3
70°	92.8	85.3	81.6	74.2	66.8	59.4	51.9	48.2	40.8	33.4	26.0
67.5°	107.6	96.5	89.1	81.6	74.2	66.8	59.4	51.9	44.5	37.1	29.7
65°	118.7	111.3	100.2	92.8	85.3	74.2	66.8	59.4	51.9	40.8	33.4
62.5°	133.6	122.4	111.3	103.9	92.8	81.6	74.2	63.1	55.7	44.5	37.1
60°	148.4	137.3	126.2	111.3	100.2	89.1	81.6	70.5	59.4	48.2	40.8
57.5°	159.6	148.4	137.3	122.4	111.3	96.5	85.3	74.2	63.1	51.9	44.5
55°	174.4	159.6	148.4	133.6	118.7	107.6	92.8	81.6	66.8	55.7	44.5
52.5°	185.5	170.7	159.6	144.7	129.9	115.0	100.2	85.3	74.2	59.4	48.2
50°	192.9	181.8	167.0	152.1	137.3	122.4	107.6	92.8	77.9	63.1	51.9
47.5°	204.1	192.9	178.1	163.3	144.7	129.9	111.3	96.5	81.6	66.8	51.9
45°	211.5	200.4	185.5	170.7	155.8	137.3	118.7	100.2	85.3	70.5	55.7
42.5°	222.6	207.8	192.9	181.8	163.3	144.7	126.2	107.6	89.1	74.2	59.4
40°	230.1	215.2	200.4	185.5	170.7	152.1	133.6	111.3	92.8	77.9	59.4
37.5°	233.8	222.6	207.8	192.9	178.1	155.8	137.3	118.7	96.5	81.6	63.1
35°	241.2	230.1	215.2	196.7	185.5	163.3	144.7	122.4	100.2	85.3	66.8
32.5°	244.9	233.8	222.6	204.1	189.2	170.7	148.4	126.2	103.9	85.3	66.8
30°	252.3	237.5	226.3	211.5	192.9	174.4	152.1	129.9	107.6	89.1	70.5
27.5°	256.0	244.9	230.1	215.2	196.7	181.8	155.8	133.6	111.3	92.8	70.5
25°	259.7	248.6	233.8	218.9	200.4	185.5	163.3	137.3	115.0	92.8	74.2
22.5°	259.7	252.3	237.5	222.6	204.1	185.5	167.0	141.0	118.7	96.5	74.2
20°	263.5	252.3	241.2	226.3	207.8	189.2	167.0	144.7	118.7	96.5	77.9
17.5°	267.2	256.0	244.9	230.1	211.5	192.9	170.7	148.4	122.4	100.2	77.9
15°	270.9	259.7	244.9	230.1	215.2	192.9	174.4	148.4	126.2	100.2	77.9
12.5°	270.9	259.7	248.6	233.8	215.2	196.7	178.1	152.1	126.2	100.2	77.9
10°	274.6	259.7	248.6	233.8	218.9	196.7	178.1	152.1	126.2	103.9	81.6
7.5°	274.6	263.5	252.3	237.5	218.9	200.4	181.8	155.8	129.9	103.9	81.6
5°	278.3	263.5	252.3	237.5	222.6	200.4	181.8	155.8	129.9	103.9	81.6
2.5°	278.3	263.5	252.3	237.5	222.6	200.4	181.8	155.8	129.9	103.9	81.6
0°	278.3	263.5	252.3	237.5	222.6	200.4	181.8	155.8	129.9	103.9	81.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.7	0.0	0.0	0.0
85°	3.7	3.7	0.0	0.0
82.5°	7.4	3.7	3.7	0.0
80°	11.1	7.4	3.7	0.0
77.5°	11.1	7.4	3.7	0.0
75°	14.8	11.1	3.7	0.0
72.5°	14.8	11.1	7.4	0.0
70°	18.6	11.1	7.4	0.0
67.5°	22.3	14.8	7.4	0.0
65°	26.0	14.8	7.4	0.0
62.5°	26.0	18.6	7.4	0.0
60°	29.7	18.6	7.4	0.0
57.5°	33.4	18.6	11.1	0.0
55°	33.4	22.3	11.1	0.0
52.5°	37.1	22.3	11.1	0.0
50°	40.8	26.0	11.1	0.0
47.5°	40.8	26.0	11.1	0.0
45°	44.5	26.0	14.8	0.0
42.5°	44.5	29.7	14.8	0.0
40°	44.5	29.7	14.8	0.0
37.5°	48.2	33.4	14.8	0.0
35°	48.2	33.4	14.8	0.0
32.5°	51.9	33.4	14.8	0.0
30°	51.9	33.4	14.8	0.0
27.5°	51.9	37.1	14.8	0.0
25°	55.7	37.1	18.6	0.0
22.5°	55.7	37.1	18.6	0.0
20°	55.7	37.1	18.6	0.0
17.5°	55.7	37.1	18.6	0.0
15°	55.7	40.8	18.6	0.0
12.5°	59.4	40.8	18.6	0.0
10°	59.4	40.8	18.6	0.0
7.5°	59.4	40.8	18.6	0.0
5°	59.4	40.8	18.6	0.0
2.5°	59.4	40.8	18.6	0.0
0°	59.4	40.8	18.6	0.0

(END OF REPORT)