

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: P640051

Luminaire Tested: **IFLD-L-SA7A-AMB-U-55**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640051
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-AMB-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (112) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	7558.5 lumens	Max Intensity:	10140.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	34.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

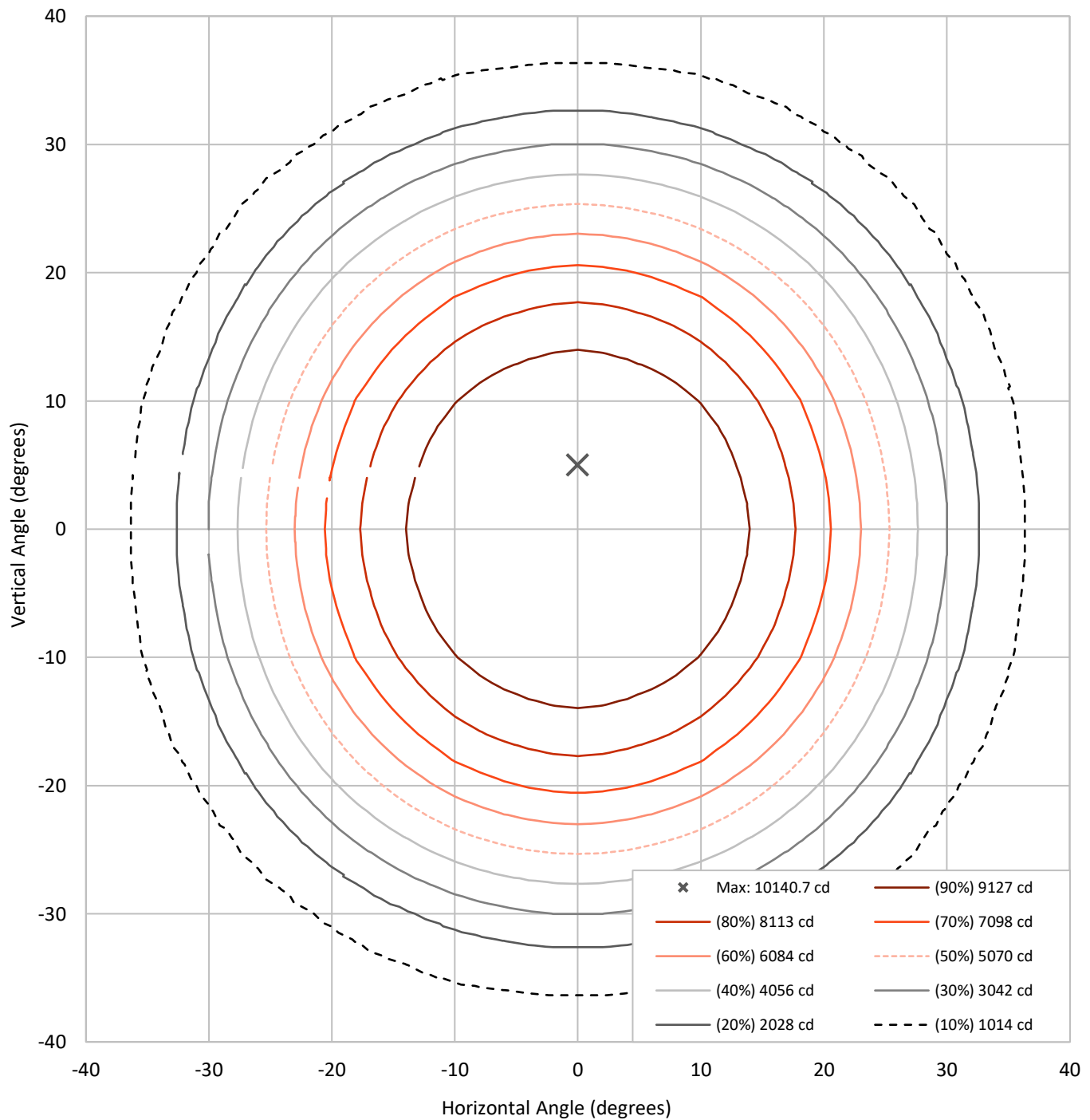
Beam Angle (50%):	49.8°H x 50.7°V	Field Angle (10%):	72.2°H x 72.6°V
Beam Lumens:	3640.3 lumens	Field Lumens:	4841.1 lumens
Beam Efficiency:	48.2%	Field Efficiency:	64.0%

Input Watts (W): 217.6
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



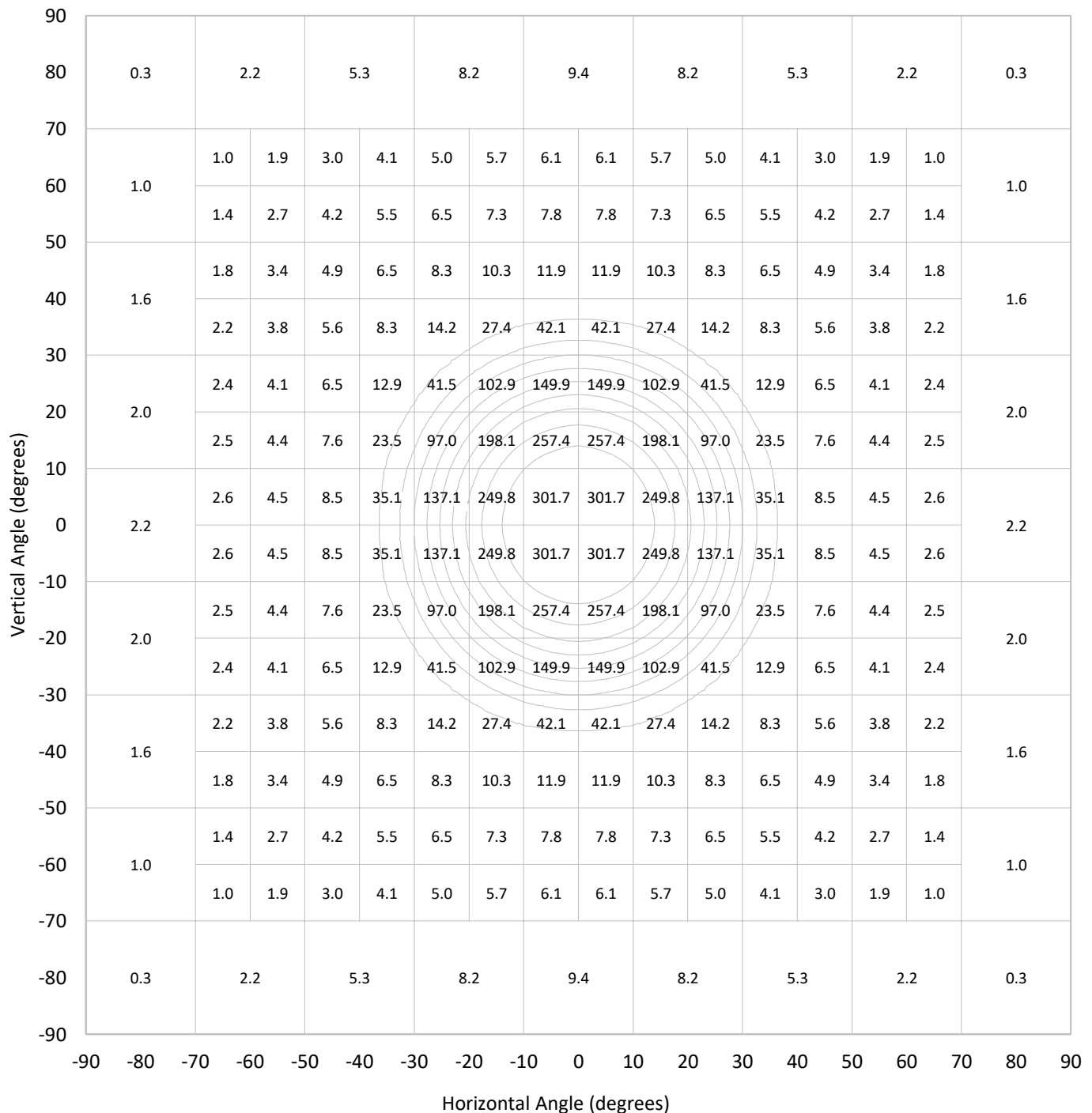
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Iso-Candela Plot



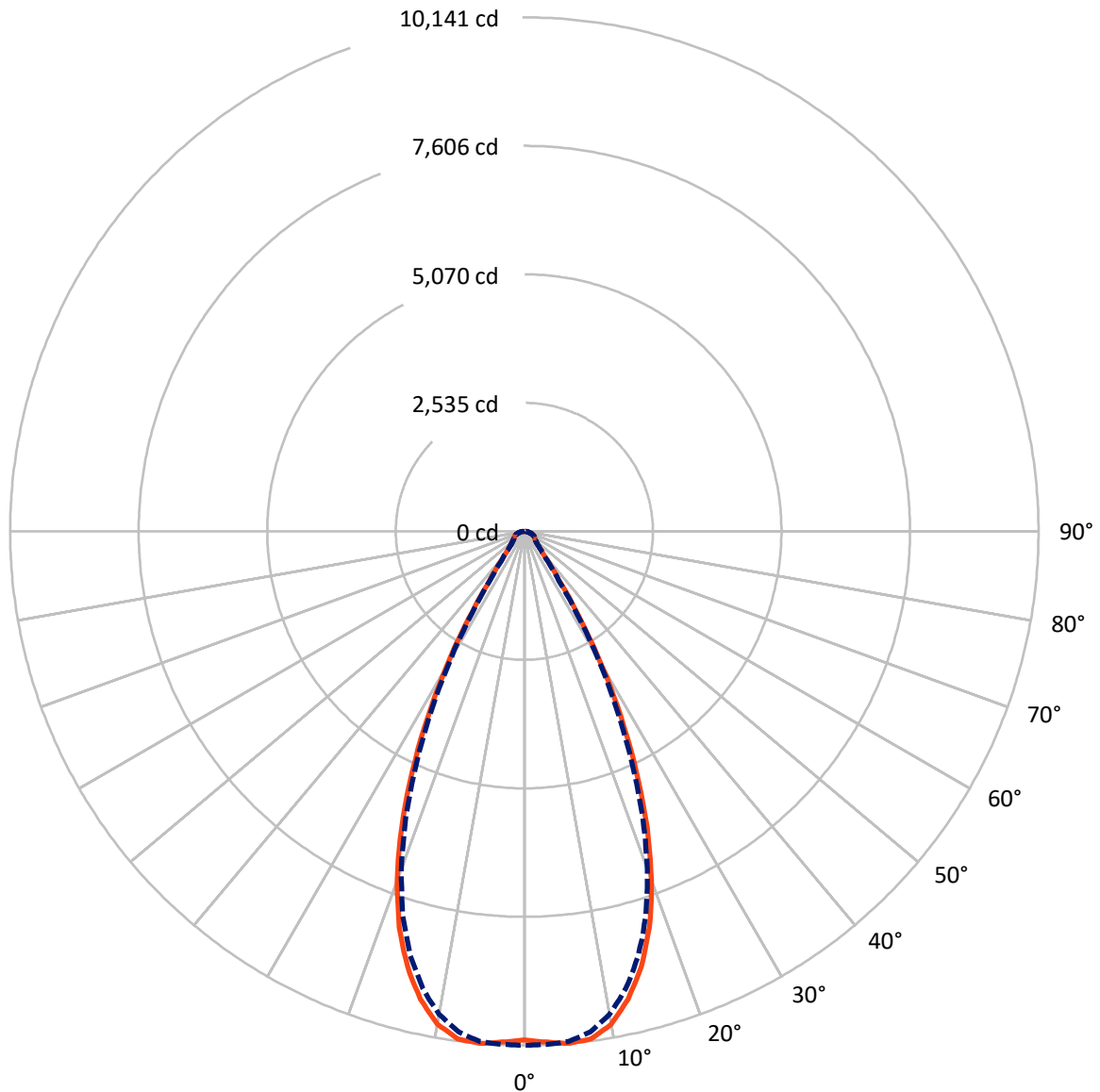
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Lumen Table



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Luminous Intensity Polar Plot

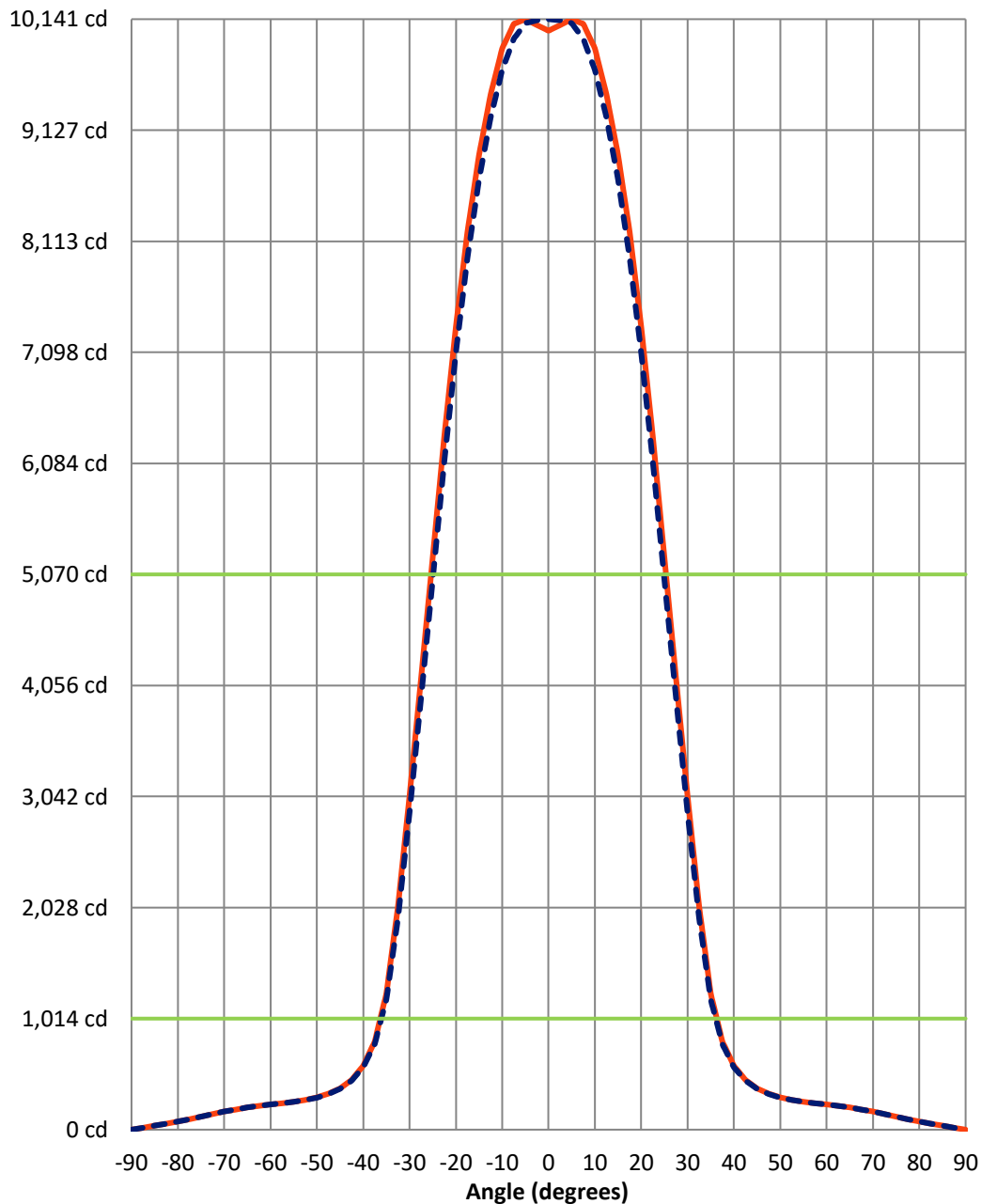


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.8°
V Angle: 50.7°
Lumens: 3640.3
Efficiency: 48.2%

Field:

H Angle: 72.2°
V Angle: 72.6°
Lumens: 4841.1
Efficiency: 64.0%

Spill:

Lumens: 2717.3
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°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
85°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	33.9	33.9	33.9	33.9
82.5°	54.2	54.2	54.2	54.2	54.2	54.2	50.9	50.9	50.9	50.9	50.9
80°	74.6	74.6	74.6	74.6	74.6	71.2	71.2	71.2	71.2	67.8	67.8
77.5°	94.9	94.9	94.9	94.9	94.9	91.5	91.5	91.5	88.2	88.2	84.8
75°	118.7	118.7	118.7	118.7	115.3	115.3	115.3	111.9	108.5	108.5	105.1
72.5°	142.4	142.4	142.4	142.4	139.0	139.0	135.6	135.6	132.2	128.8	125.4
70°	166.1	166.1	166.1	166.1	162.7	162.7	159.3	156.0	152.6	152.6	149.2
67.5°	183.1	183.1	183.1	183.1	179.7	179.7	176.3	176.3	172.9	169.5	169.5
65°	203.4	203.4	203.4	200.0	200.0	196.6	196.6	193.3	189.9	186.5	183.1
62.5°	217.0	217.0	217.0	217.0	213.6	213.6	210.2	210.2	206.8	203.4	200.0
60°	230.5	230.5	230.5	230.5	227.2	227.2	223.8	223.8	220.4	217.0	213.6
57.5°	240.7	240.7	240.7	240.7	237.3	237.3	237.3	233.9	230.5	230.5	227.2
55°	254.3	254.3	254.3	250.9	250.9	247.5	247.5	244.1	240.7	237.3	237.3
52.5°	271.2	271.2	271.2	267.8	267.8	264.5	261.1	257.7	254.3	250.9	247.5
50°	295.0	295.0	291.6	291.6	288.2	284.8	278.0	274.6	267.8	264.5	257.7
47.5°	328.9	328.9	325.5	322.1	318.7	311.9	305.1	295.0	288.2	281.4	274.6
45°	376.3	376.3	372.9	366.2	359.4	349.2	339.0	328.9	318.7	305.1	295.0
42.5°	454.3	454.3	447.5	437.4	423.8	410.2	389.9	369.6	356.0	335.7	322.1
40°	583.2	583.2	569.6	552.6	528.9	501.8	464.5	437.4	410.2	376.3	356.0
37.5°	806.9	806.9	783.2	749.3	705.2	651.0	586.5	539.1	491.6	444.1	406.8
35°	1244.3	1244.3	1190.0	1122.2	1030.7	912.0	790.0	705.2	613.7	542.5	478.0
32.5°	2037.6	2037.6	1929.1	1796.9	1610.4	1379.9	1166.3	990.0	806.9	688.3	576.4
30°	3048.0	3048.0	2895.4	2708.9	2451.3	2129.2	1807.1	1461.3	1152.7	918.8	735.7
27.5°	4126.1	4082.1	3946.4	3726.1	3424.3	3048.0	2627.6	2149.5	1708.8	1254.5	983.2
25°	5224.6	5173.8	5021.2	4770.3	4431.3	4010.9	3519.2	2970.0	2397.0	1834.2	1315.5
22.5°	6329.9	6272.3	6099.3	5817.9	5438.2	4970.3	4424.5	3814.2	3153.1	2481.8	1834.2
20°	7330.1	7269.0	7092.7	6807.9	6421.4	5909.5	5306.0	4638.1	3915.9	3153.1	2397.0
17.5°	8198.0	8137.0	7960.7	7679.3	7330.1	6774.0	6157.0	5421.3	4638.1	3814.2	2970.0
15°	8899.8	8842.2	8676.1	8415.0	8038.7	7526.7	6892.7	6157.0	5306.0	4424.5	3519.2
12.5°	9452.5	9398.2	9242.3	9001.5	8632.0	8160.7	7526.7	6774.0	5909.5	4970.3	4010.9
10°	9872.9	9822.0	9676.2	9455.8	9096.5	8632.0	8038.7	7330.1	6421.4	5438.2	4431.3
7.5°	10096.6	10059.3	9961.0	9774.5	9455.8	9001.5	8415.0	7679.3	6807.9	5817.9	4770.3
5°	10140.7	10130.5	10103.4	9961.0	9676.2	9242.3	8676.1	7960.7	7092.7	6099.3	5021.2
2.5°	10086.5	10110.2	10130.5	10059.3	9822.0	9398.2	8842.2	8137.0	7269.0	6272.3	5173.8
0°	10035.6	10086.5	10140.7	10096.6	9872.9	9452.5	8899.8	8198.0	7330.1	6329.9	5224.6

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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°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	10.2	10.2	10.2
85°	33.9	30.5	30.5	30.5	30.5	27.1	27.1	23.7	23.7	23.7	20.3
82.5°	47.5	47.5	47.5	44.1	44.1	40.7	40.7	40.7	37.3	37.3	33.9
80°	64.4	64.4	61.0	61.0	57.6	54.2	54.2	50.9	47.5	47.5	44.1
77.5°	84.8	81.4	78.0	78.0	74.6	71.2	67.8	64.4	61.0	57.6	54.2
75°	101.7	98.3	94.9	91.5	88.2	84.8	81.4	78.0	74.6	71.2	67.8
72.5°	122.1	118.7	115.3	111.9	108.5	101.7	98.3	91.5	88.2	84.8	78.0
70°	142.4	139.0	135.6	132.2	125.4	122.1	115.3	108.5	101.7	98.3	91.5
67.5°	166.1	159.3	156.0	149.2	142.4	139.0	132.2	125.4	118.7	111.9	105.1
65°	179.7	176.3	172.9	169.5	162.7	156.0	149.2	142.4	132.2	125.4	118.7
62.5°	196.6	193.3	186.5	179.7	176.3	169.5	166.1	156.0	149.2	139.0	132.2
60°	210.2	206.8	203.4	196.6	189.9	183.1	176.3	169.5	162.7	152.6	145.8
57.5°	223.8	217.0	213.6	210.2	203.4	196.6	189.9	183.1	176.3	166.1	156.0
55°	233.9	230.5	223.8	220.4	213.6	210.2	203.4	193.3	186.5	176.3	169.5
52.5°	240.7	237.3	233.9	230.5	223.8	217.0	213.6	206.8	196.6	186.5	179.7
50°	254.3	247.5	244.1	237.3	233.9	227.2	220.4	213.6	206.8	200.0	186.5
47.5°	267.8	261.1	254.3	247.5	240.7	233.9	230.5	223.8	213.6	206.8	196.6
45°	284.8	274.6	264.5	257.7	250.9	240.7	237.3	230.5	223.8	213.6	206.8
42.5°	305.1	291.6	281.4	267.8	261.1	250.9	244.1	237.3	230.5	220.4	213.6
40°	335.7	315.3	298.4	284.8	271.2	261.1	250.9	240.7	233.9	227.2	217.0
37.5°	369.6	345.8	322.1	301.7	284.8	271.2	261.1	250.9	240.7	233.9	223.8
35°	427.2	383.1	352.6	325.5	301.7	284.8	267.8	257.7	247.5	237.3	230.5
32.5°	501.8	437.4	386.5	352.6	322.1	298.4	281.4	264.5	254.3	244.1	233.9
30°	600.1	512.0	437.4	383.1	345.8	315.3	291.6	274.6	261.1	247.5	237.3
27.5°	752.7	600.1	501.8	427.2	369.6	335.7	305.1	284.8	267.8	254.3	240.7
25°	983.2	735.7	576.4	478.0	406.8	356.0	322.1	295.0	274.6	257.7	247.5
22.5°	1254.5	918.8	688.3	542.5	444.1	376.3	335.7	305.1	281.4	264.5	250.9
20°	1708.8	1152.7	806.9	613.7	491.6	410.2	356.0	318.7	288.2	267.8	254.3
17.5°	2149.5	1461.3	990.0	705.2	539.1	437.4	369.6	328.9	295.0	274.6	257.7
15°	2627.6	1807.1	1166.3	790.0	586.5	464.5	389.9	339.0	305.1	278.0	261.1
12.5°	3048.0	2129.2	1379.9	912.0	651.0	501.8	410.2	349.2	311.9	284.8	264.5
10°	3424.3	2451.3	1610.4	1030.7	705.2	528.9	423.8	359.4	318.7	288.2	267.8
7.5°	3726.1	2708.9	1796.9	1122.2	749.3	552.6	437.4	366.2	322.1	291.6	267.8
5°	3946.4	2895.4	1929.1	1190.0	783.2	569.6	447.5	372.9	325.5	291.6	271.2
2.5°	4082.1	3048.0	2037.6	1244.3	806.9	583.2	454.3	376.3	328.9	295.0	271.2
0°	4126.1	3048.0	2037.6	1244.3	806.9	583.2	454.3	376.3	328.9	295.0	271.2

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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°	10.2	10.2	6.8	6.8	6.8	6.8	6.8	6.8	3.4	3.4	3.4
85°	20.3	17.0	17.0	17.0	13.6	13.6	10.2	10.2	10.2	6.8	6.8
82.5°	30.5	30.5	27.1	23.7	23.7	20.3	17.0	13.6	13.6	10.2	10.2
80°	40.7	40.7	37.3	33.9	30.5	27.1	23.7	20.3	17.0	13.6	10.2
77.5°	50.9	47.5	44.1	40.7	37.3	33.9	30.5	27.1	23.7	17.0	13.6
75°	61.0	57.6	54.2	50.9	47.5	40.7	37.3	33.9	27.1	23.7	17.0
72.5°	74.6	67.8	64.4	57.6	54.2	47.5	44.1	37.3	33.9	27.1	20.3
70°	84.8	78.0	74.6	67.8	61.0	54.2	47.5	44.1	37.3	30.5	23.7
67.5°	98.3	88.2	81.4	74.6	67.8	61.0	54.2	47.5	40.7	33.9	27.1
65°	108.5	101.7	91.5	84.8	78.0	67.8	61.0	54.2	47.5	37.3	30.5
62.5°	122.1	111.9	101.7	94.9	84.8	74.6	67.8	57.6	50.9	40.7	33.9
60°	135.6	125.4	115.3	101.7	91.5	81.4	74.6	64.4	54.2	44.1	37.3
57.5°	145.8	135.6	125.4	111.9	101.7	88.2	78.0	67.8	57.6	47.5	40.7
55°	159.3	145.8	135.6	122.1	108.5	98.3	84.8	74.6	61.0	50.9	40.7
52.5°	169.5	156.0	145.8	132.2	118.7	105.1	91.5	78.0	67.8	54.2	44.1
50°	176.3	166.1	152.6	139.0	125.4	111.9	98.3	84.8	71.2	57.6	47.5
47.5°	186.5	176.3	162.7	149.2	132.2	118.7	101.7	88.2	74.6	61.0	47.5
45°	193.3	183.1	169.5	156.0	142.4	125.4	108.5	91.5	78.0	64.4	50.9
42.5°	203.4	189.9	176.3	166.1	149.2	132.2	115.3	98.3	81.4	67.8	54.2
40°	210.2	196.6	183.1	169.5	156.0	139.0	122.1	101.7	84.8	71.2	54.2
37.5°	213.6	203.4	189.9	176.3	162.7	142.4	125.4	108.5	88.2	74.6	57.6
35°	220.4	210.2	196.6	179.7	169.5	149.2	132.2	111.9	91.5	78.0	61.0
32.5°	223.8	213.6	203.4	186.5	172.9	156.0	135.6	115.3	94.9	78.0	61.0
30°	230.5	217.0	206.8	193.3	176.3	159.3	139.0	118.7	98.3	81.4	64.4
27.5°	233.9	223.8	210.2	196.6	179.7	166.1	142.4	122.1	101.7	84.8	64.4
25°	237.3	227.2	213.6	200.0	183.1	169.5	149.2	125.4	105.1	84.8	67.8
22.5°	237.3	230.5	217.0	203.4	186.5	169.5	152.6	128.8	108.5	88.2	67.8
20°	240.7	230.5	220.4	206.8	189.9	172.9	152.6	132.2	108.5	88.2	71.2
17.5°	244.1	233.9	223.8	210.2	193.3	176.3	156.0	135.6	111.9	91.5	71.2
15°	247.5	237.3	223.8	210.2	196.6	176.3	159.3	135.6	115.3	91.5	71.2
12.5°	247.5	237.3	227.2	213.6	196.6	179.7	162.7	139.0	115.3	91.5	71.2
10°	250.9	237.3	227.2	213.6	200.0	179.7	162.7	139.0	115.3	94.9	74.6
7.5°	250.9	240.7	230.5	217.0	200.0	183.1	166.1	142.4	118.7	94.9	74.6
5°	254.3	240.7	230.5	217.0	203.4	183.1	166.1	142.4	118.7	94.9	74.6
2.5°	254.3	240.7	230.5	217.0	203.4	183.1	166.1	142.4	118.7	94.9	74.6
0°	254.3	240.7	230.5	217.0	203.4	183.1	166.1	142.4	118.7	94.9	74.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.4	0.0	0.0	0.0
85°	3.4	3.4	0.0	0.0
82.5°	6.8	3.4	3.4	0.0
80°	10.2	6.8	3.4	0.0
77.5°	10.2	6.8	3.4	0.0
75°	13.6	10.2	3.4	0.0
72.5°	13.6	10.2	6.8	0.0
70°	17.0	10.2	6.8	0.0
67.5°	20.3	13.6	6.8	0.0
65°	23.7	13.6	6.8	0.0
62.5°	23.7	17.0	6.8	0.0
60°	27.1	17.0	6.8	0.0
57.5°	30.5	17.0	10.2	0.0
55°	30.5	20.3	10.2	0.0
52.5°	33.9	20.3	10.2	0.0
50°	37.3	23.7	10.2	0.0
47.5°	37.3	23.7	10.2	0.0
45°	40.7	23.7	13.6	0.0
42.5°	40.7	27.1	13.6	0.0
40°	40.7	27.1	13.6	0.0
37.5°	44.1	30.5	13.6	0.0
35°	44.1	30.5	13.6	0.0
32.5°	47.5	30.5	13.6	0.0
30°	47.5	30.5	13.6	0.0
27.5°	47.5	33.9	13.6	0.0
25°	50.9	33.9	17.0	0.0
22.5°	50.9	33.9	17.0	0.0
20°	50.9	33.9	17.0	0.0
17.5°	50.9	33.9	17.0	0.0
15°	50.9	37.3	17.0	0.0
12.5°	54.2	37.3	17.0	0.0
10°	54.2	37.3	17.0	0.0
7.5°	54.2	37.3	17.0	0.0
5°	54.2	37.3	17.0	0.0
2.5°	54.2	37.3	17.0	0.0
0°	54.2	37.3	17.0	0.0

(END OF REPORT)