

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: P623623

Luminaire Tested: **IFLD-M-SA4A-730-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623623
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	17534.1 lumens	Max Intensity:	21427.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	136.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

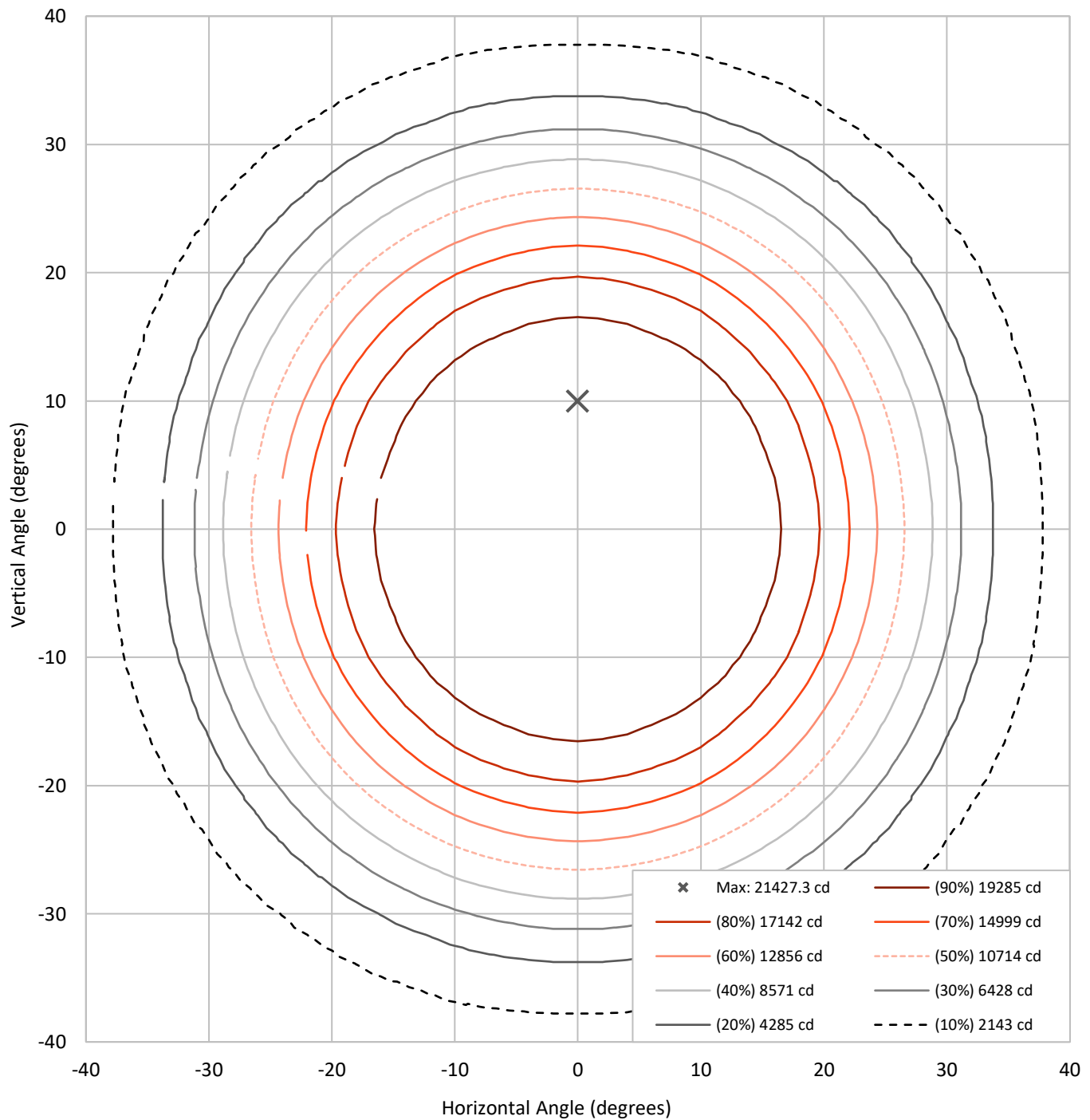
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	8714.9 lumens	Field Lumens:	11333.9 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 128.6
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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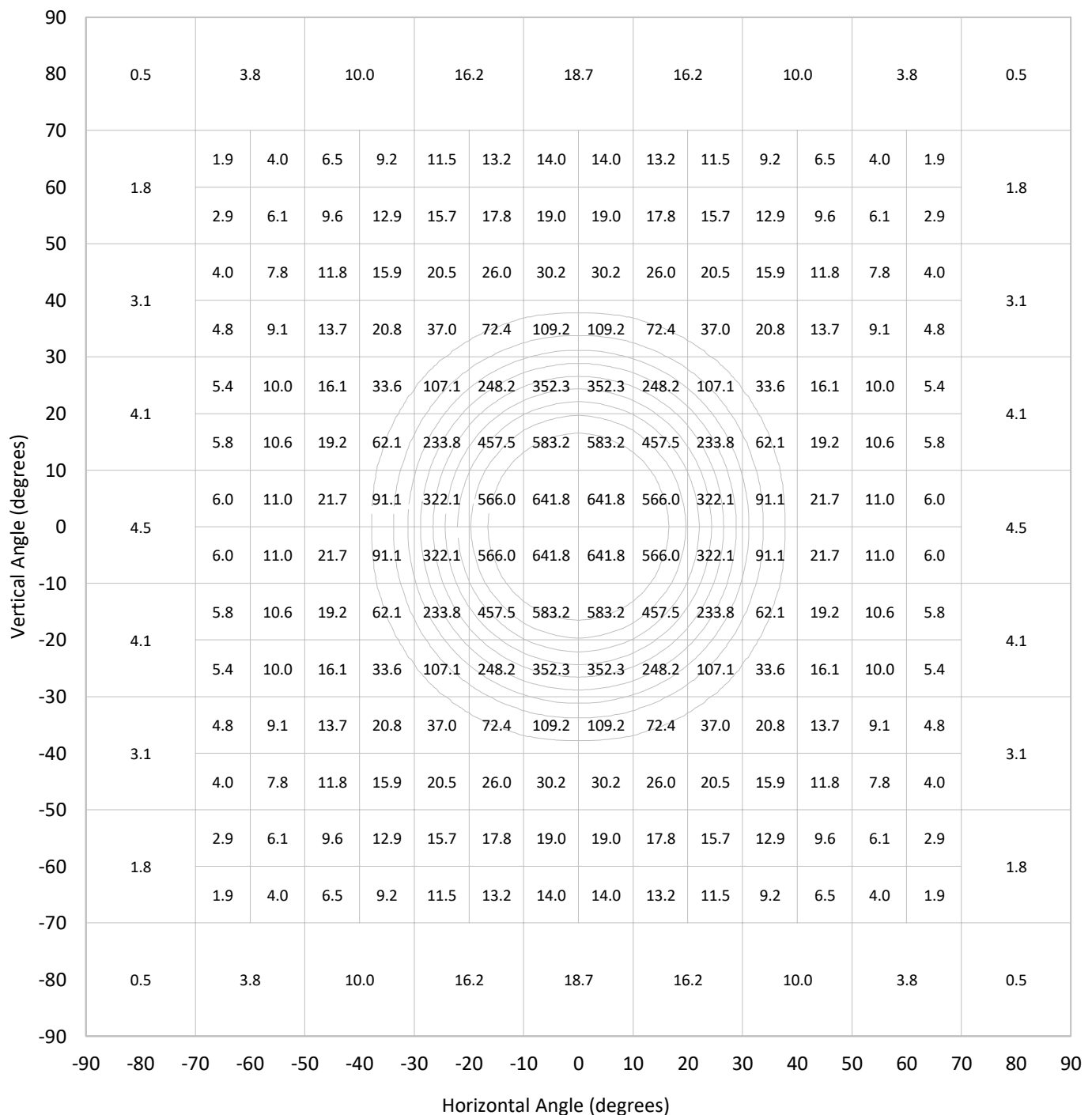
Iso-Candela Plot





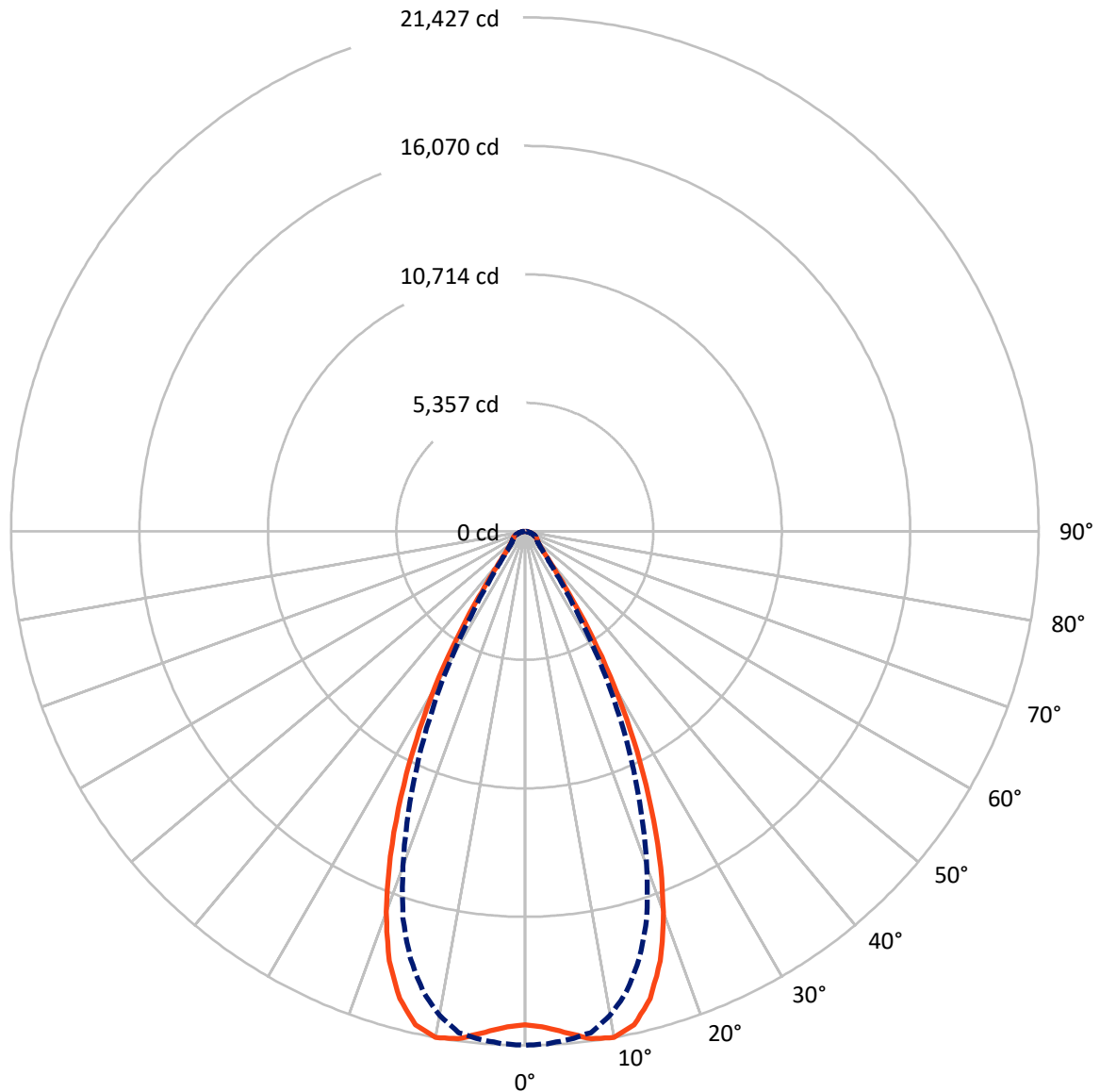
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Lumen Table



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Luminous Intensity Polar Plot

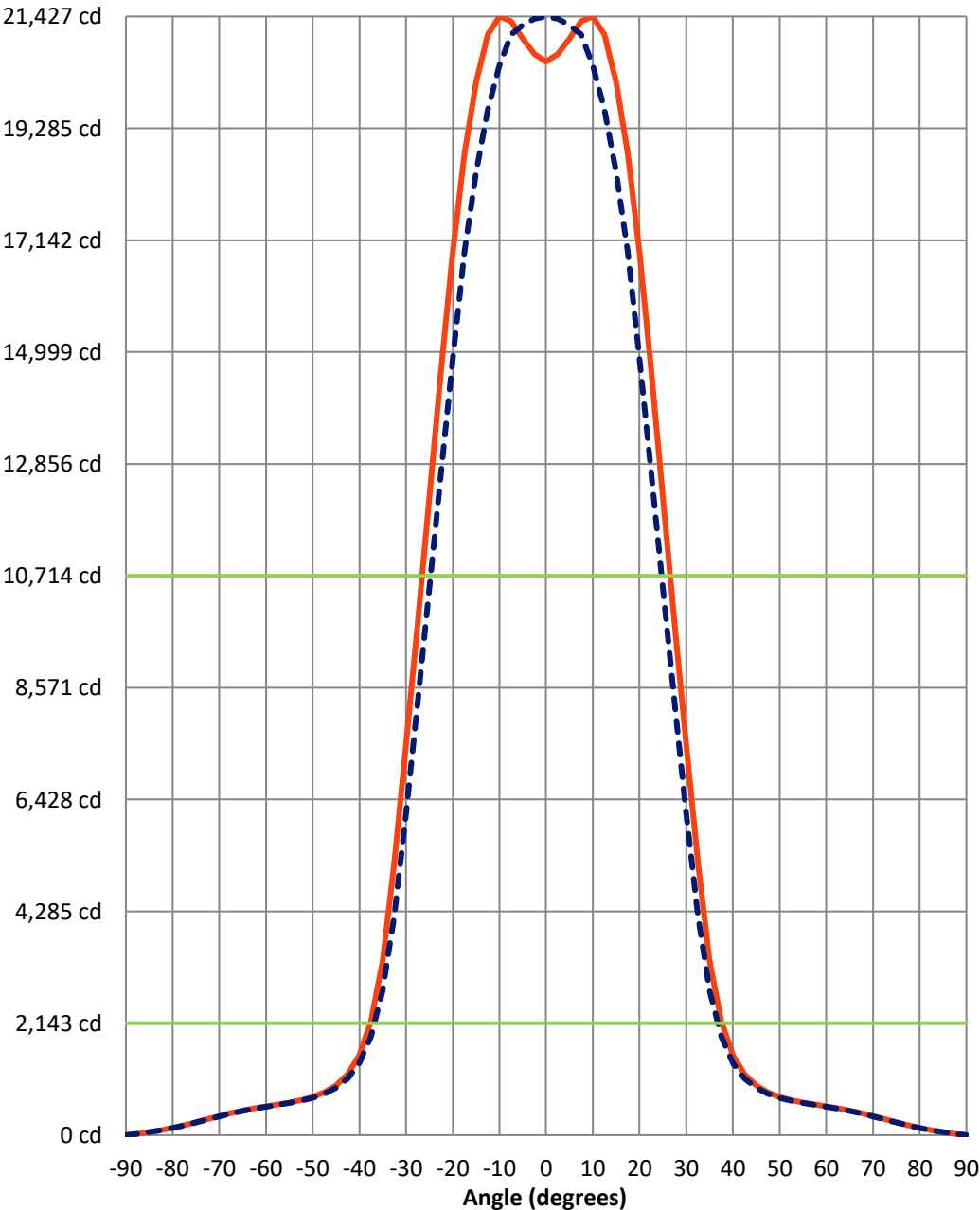


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 8714.9
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 11333.9
Efficiency: 64.6%

Spill:
Lumens: 6200.1
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-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°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	21.9	21.9	21.9	21.9
85°	58.3	58.3	58.3	58.3	58.3	56.5	56.5	54.6	54.6	52.8	51.0
82.5°	94.7	94.7	94.7	94.7	92.9	92.9	91.1	89.3	87.4	85.6	83.8
80°	138.4	138.4	138.4	138.4	136.6	134.8	133.0	131.1	127.5	125.7	122.0
77.5°	189.4	189.4	189.4	187.6	185.8	184.0	180.3	176.7	173.0	169.4	165.8
75°	247.7	247.7	247.7	244.1	242.3	238.6	235.0	231.3	225.9	220.4	214.9
72.5°	307.8	307.8	307.8	304.2	300.5	296.9	293.3	287.8	282.3	275.0	267.8
70°	364.3	364.3	364.3	360.6	357.0	353.4	347.9	342.4	335.1	327.9	320.6
67.5°	422.6	422.6	422.6	417.1	413.5	409.8	404.4	397.1	389.8	380.7	371.6
65°	469.9	469.9	468.1	466.3	462.6	457.2	453.5	446.3	439.0	431.7	422.6
62.5°	513.6	513.6	511.8	510.0	506.4	500.9	495.4	490.0	482.7	473.6	464.5
60°	550.1	550.1	548.3	546.4	542.8	539.1	533.7	528.2	520.9	513.6	504.5
57.5°	586.5	586.5	584.7	582.9	579.2	573.8	568.3	562.8	555.5	546.4	537.3
55°	624.8	624.8	622.9	619.3	615.6	610.2	604.7	597.4	588.3	579.2	570.1
52.5°	670.3	670.3	666.6	663.0	657.5	652.1	643.0	633.9	622.9	612.0	601.1
50°	730.4	730.4	726.8	721.3	712.2	703.1	692.1	677.6	664.8	650.3	635.7
47.5°	819.6	819.6	812.4	803.3	790.5	775.9	755.9	734.0	715.8	697.6	675.8
45°	950.8	950.8	939.9	925.3	905.3	879.8	850.6	819.6	788.7	757.7	726.8
42.5°	1163.9	1163.9	1143.9	1118.4	1083.8	1040.0	985.4	934.4	890.7	841.5	799.6
40°	1531.8	1531.8	1493.6	1446.2	1380.6	1296.9	1196.7	1116.5	1040.0	954.4	896.1
37.5°	2185.7	2185.7	2111.0	2020.0	1892.5	1732.2	1539.1	1409.8	1267.7	1132.9	1034.6
35°	3340.5	3340.5	3196.6	3019.9	2774.0	2464.4	2134.7	1890.6	1619.3	1411.6	1227.6
32.5°	5234.8	5234.8	4976.2	4657.4	4218.4	3662.9	3134.7	2670.2	2185.7	1841.5	1510.0
30°	7486.1	7486.1	7147.3	6730.2	6158.3	5437.0	4684.7	3859.6	3094.6	2480.8	1979.9
27.5°	9813.9	9717.3	9425.9	8950.5	8298.4	7486.1	6548.0	5482.5	4447.9	3366.0	2650.2
25°	12221.8	12108.9	11775.6	11229.1	10482.3	9562.5	8506.1	7314.9	6038.0	4748.5	3509.9
22.5°	14655.2	14527.7	14148.9	13531.4	12693.6	11662.6	10466.0	9141.8	7715.6	6225.7	4748.5
20°	16904.7	16769.9	16372.9	15729.9	14862.9	13731.8	12402.1	10934.1	9356.7	7715.6	6038.0
17.5°	18788.1	18658.8	18276.3	17662.4	16904.7	15653.4	14270.9	12657.1	10934.1	9141.8	7314.9
15°	20163.3	20052.2	19726.1	19210.6	18438.4	17330.9	15923.0	14270.9	12402.1	10466.0	8506.1
12.5°	21075.8	20986.5	20729.7	20329.0	19636.9	18707.9	17330.9	15653.4	13731.8	11662.6	9562.5
10°	21427.3	21383.6	21263.4	21079.4	20489.3	19636.9	18438.4	16904.7	14862.9	12693.6	10482.3
7.5°	21334.4	21349.0	21390.9	21343.5	21079.4	20329.0	19210.6	17662.4	15729.9	13531.4	11229.1
5°	21002.9	21081.3	21276.2	21390.9	21263.4	20729.7	19726.1	18276.3	16372.9	14148.9	11775.6
2.5°	20707.9	20829.9	21081.3	21349.0	21383.6	20986.5	20052.2	18658.8	16769.9	14527.7	12108.9
0°	20562.2	20707.9	21002.9	21334.4	21427.3	21075.8	20163.3	18788.1	16904.7	14655.2	12221.8

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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°	21.9	20.0	20.0	20.0	18.2	18.2	18.2	16.4	16.4	14.6	14.6
85°	51.0	49.2	47.4	45.5	43.7	41.9	40.1	38.3	36.4	32.8	31.0
82.5°	82.0	80.1	78.3	74.7	72.9	69.2	65.6	61.9	58.3	56.5	52.8
80°	118.4	114.8	111.1	107.5	102.0	96.5	92.9	87.4	83.8	78.3	74.7
77.5°	160.3	154.8	149.4	142.1	136.6	131.1	123.9	118.4	111.1	103.8	96.5
75°	207.6	200.4	191.3	184.0	176.7	167.6	158.5	149.4	140.3	131.1	122.0
72.5°	258.6	249.5	240.4	231.3	220.4	207.6	196.7	184.0	173.0	162.1	149.4
70°	311.5	300.5	289.6	278.7	265.9	251.4	238.6	224.0	209.5	194.9	180.3
67.5°	360.6	349.7	337.0	326.0	311.5	296.9	280.5	264.1	247.7	229.5	211.3
65°	411.6	398.9	384.3	369.8	355.2	338.8	322.4	306.0	286.0	265.9	247.7
62.5°	453.5	442.6	429.9	415.3	398.9	380.7	364.3	342.4	322.4	302.4	278.7
60°	493.6	480.9	469.9	453.5	439.0	422.6	402.5	380.7	358.8	335.1	313.3
57.5°	528.2	517.3	504.5	490.0	473.6	457.2	439.0	418.9	393.4	369.8	344.3
55°	559.2	546.4	533.7	520.9	506.4	488.1	469.9	449.9	428.0	402.5	375.2
52.5°	590.1	577.4	562.8	550.1	533.7	517.3	499.1	479.0	457.2	433.5	404.4
50°	621.1	606.5	592.0	575.6	559.2	542.8	524.6	506.4	482.7	459.0	433.5
47.5°	657.5	639.3	621.1	602.9	586.5	566.5	548.3	528.2	508.2	482.7	457.2
45°	703.1	675.8	653.9	632.0	612.0	592.0	570.1	550.1	528.2	506.4	479.0
42.5°	759.5	723.1	694.0	664.8	639.3	615.6	593.8	570.1	548.3	524.6	499.1
40°	836.0	786.9	739.5	703.1	670.3	641.1	615.6	592.0	566.5	542.8	517.3
37.5°	936.2	867.0	801.4	748.6	706.7	670.3	639.3	612.0	586.5	559.2	533.7
35°	1087.4	967.2	883.4	806.9	748.6	703.1	664.8	632.0	602.9	575.6	550.1
32.5°	1300.5	1114.7	979.9	883.4	801.4	739.5	694.0	653.9	621.1	592.0	562.8
30°	1581.0	1324.2	1114.7	967.2	867.0	786.9	723.1	675.8	639.3	606.5	577.4
27.5°	2025.4	1581.0	1300.5	1087.4	936.2	836.0	759.5	703.1	657.5	621.1	590.1
25°	2650.2	1979.9	1510.0	1227.6	1034.6	896.1	799.6	726.8	675.8	635.7	601.1
22.5°	3366.0	2480.8	1841.5	1411.6	1132.9	954.4	841.5	757.7	697.6	650.3	612.0
20°	4447.9	3094.6	2185.7	1619.3	1267.7	1040.0	890.7	788.7	715.8	664.8	622.9
17.5°	5482.5	3859.6	2670.2	1890.6	1409.8	1116.5	934.4	819.6	734.0	677.6	633.9
15°	6548.0	4684.7	3134.7	2134.7	1539.1	1196.7	985.4	850.6	755.9	692.1	643.0
12.5°	7486.1	5437.0	3662.9	2464.4	1732.2	1296.9	1040.0	879.8	775.9	703.1	652.1
10°	8298.4	6158.3	4218.4	2774.0	1892.5	1380.6	1083.8	905.3	790.5	712.2	657.5
7.5°	8950.5	6730.2	4657.4	3019.9	2020.0	1446.2	1118.4	925.3	803.3	721.3	663.0
5°	9425.9	7147.3	4976.2	3196.6	2111.0	1493.6	1143.9	939.9	812.4	726.8	666.6
2.5°	9717.3	7486.1	5234.8	3340.5	2185.7	1531.8	1163.9	950.8	819.6	730.4	670.3
0°	9813.9	7486.1	5234.8	3340.5	2185.7	1531.8	1163.9	950.8	819.6	730.4	670.3

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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°	12.8	12.8	10.9	10.9	9.1	9.1	7.3	7.3	5.5	5.5	3.6
85°	29.1	25.5	23.7	21.9	20.0	18.2	16.4	14.6	12.8	10.9	9.1
82.5°	49.2	45.5	40.1	36.4	32.8	29.1	23.7	21.9	18.2	14.6	12.8
80°	69.2	63.8	58.3	52.8	47.4	41.9	36.4	31.0	25.5	20.0	16.4
77.5°	89.3	82.0	76.5	69.2	61.9	54.6	47.4	40.1	32.8	25.5	20.0
75°	112.9	103.8	94.7	85.6	76.5	67.4	60.1	51.0	41.9	32.8	25.5
72.5°	138.4	125.7	114.8	103.8	91.1	82.0	71.0	61.9	51.0	40.1	31.0
70°	165.8	151.2	136.6	122.0	109.3	94.7	83.8	71.0	60.1	47.4	36.4
67.5°	193.1	176.7	160.3	142.1	125.7	111.1	94.7	82.0	67.4	54.6	41.9
65°	225.9	204.0	184.0	163.9	143.9	125.7	109.3	91.1	76.5	61.9	47.4
62.5°	256.8	233.1	209.5	185.8	163.9	142.1	122.0	103.8	85.6	69.2	52.8
60°	287.8	262.3	235.0	209.5	184.0	160.3	136.6	114.8	94.7	76.5	58.3
57.5°	318.8	289.6	262.3	233.1	204.0	176.7	151.2	125.7	103.8	82.0	63.8
55°	346.1	318.8	287.8	256.8	225.9	193.1	165.8	138.4	112.9	89.3	69.2
52.5°	375.2	344.3	313.3	278.7	247.7	211.3	180.3	149.4	122.0	96.5	74.7
50°	402.5	369.8	335.1	302.4	265.9	229.5	194.9	162.1	131.1	103.8	78.3
47.5°	428.0	393.4	358.8	322.4	286.0	247.7	209.5	173.0	140.3	111.1	83.8
45°	449.9	418.9	380.7	342.4	306.0	264.1	224.0	184.0	149.4	118.4	87.4
42.5°	469.9	439.0	402.5	364.3	322.4	280.5	238.6	196.7	158.5	123.9	92.9
40°	488.1	457.2	422.6	380.7	338.8	296.9	251.4	207.6	167.6	131.1	96.5
37.5°	506.4	473.6	439.0	398.9	355.2	311.5	265.9	220.4	176.7	136.6	102.0
35°	520.9	490.0	453.5	415.3	369.8	326.0	278.7	231.3	184.0	142.1	107.5
32.5°	533.7	504.5	469.9	429.9	384.3	337.0	289.6	240.4	191.3	149.4	111.1
30°	546.4	517.3	480.9	442.6	398.9	349.7	300.5	249.5	200.4	154.8	114.8
27.5°	559.2	528.2	493.6	453.5	411.6	360.6	311.5	258.6	207.6	160.3	118.4
25°	570.1	537.3	504.5	464.5	422.6	371.6	320.6	267.8	214.9	165.8	122.0
22.5°	579.2	546.4	513.6	473.6	431.7	380.7	327.9	275.0	220.4	169.4	125.7
20°	588.3	555.5	520.9	482.7	439.0	389.8	335.1	282.3	225.9	173.0	127.5
17.5°	597.4	562.8	528.2	490.0	446.3	397.1	342.4	287.8	231.3	176.7	131.1
15°	604.7	568.3	533.7	495.4	453.5	404.4	347.9	293.3	235.0	180.3	133.0
12.5°	610.2	573.8	539.1	500.9	457.2	409.8	353.4	296.9	238.6	184.0	134.8
10°	615.6	579.2	542.8	506.4	462.6	413.5	357.0	300.5	242.3	185.8	136.6
7.5°	619.3	582.9	546.4	510.0	466.3	417.1	360.6	304.2	244.1	187.6	138.4
5°	622.9	584.7	548.3	511.8	468.1	422.6	364.3	307.8	247.7	189.4	138.4
2.5°	624.8	586.5	550.1	513.6	469.9	422.6	364.3	307.8	247.7	189.4	138.4
0°	624.8	586.5	550.1	513.6	469.9	422.6	364.3	307.8	247.7	189.4	138.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.6	1.8	1.8	0.0
85°	5.5	3.6	1.8	0.0
82.5°	9.1	5.5	3.6	0.0
80°	12.8	9.1	3.6	0.0
77.5°	14.6	10.9	5.5	0.0
75°	18.2	12.8	5.5	0.0
72.5°	21.9	14.6	7.3	0.0
70°	23.7	16.4	7.3	0.0
67.5°	29.1	18.2	9.1	0.0
65°	32.8	20.0	9.1	0.0
62.5°	36.4	21.9	10.9	0.0
60°	40.1	23.7	10.9	0.0
57.5°	45.5	25.5	12.8	0.0
55°	49.2	29.1	12.8	0.0
52.5°	52.8	31.0	14.6	0.0
50°	56.5	32.8	14.6	0.0
47.5°	58.3	36.4	16.4	0.0
45°	61.9	38.3	16.4	0.0
42.5°	65.6	40.1	18.2	0.0
40°	69.2	41.9	18.2	0.0
37.5°	72.9	43.7	18.2	0.0
35°	74.7	45.5	20.0	0.0
32.5°	78.3	47.4	20.0	0.0
30°	80.1	49.2	20.0	0.0
27.5°	82.0	51.0	21.9	0.0
25°	83.8	51.0	21.9	0.0
22.5°	85.6	52.8	21.9	0.0
20°	87.4	54.6	21.9	0.0
17.5°	89.3	54.6	21.9	0.0
15°	91.1	56.5	23.7	0.0
12.5°	92.9	56.5	23.7	0.0
10°	92.9	58.3	23.7	0.0
7.5°	94.7	58.3	23.7	0.0
5°	94.7	58.3	23.7	0.0
2.5°	94.7	58.3	23.7	0.0
0°	94.7	58.3	23.7	0.0

(END OF REPORT)