

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: P623822

Luminaire Tested: **IFLD-S-SA6B-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623822
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	25526.5 lumens	Max Intensity:	14177.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	104.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	11045.1 lumens	Field Lumens:	18085.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

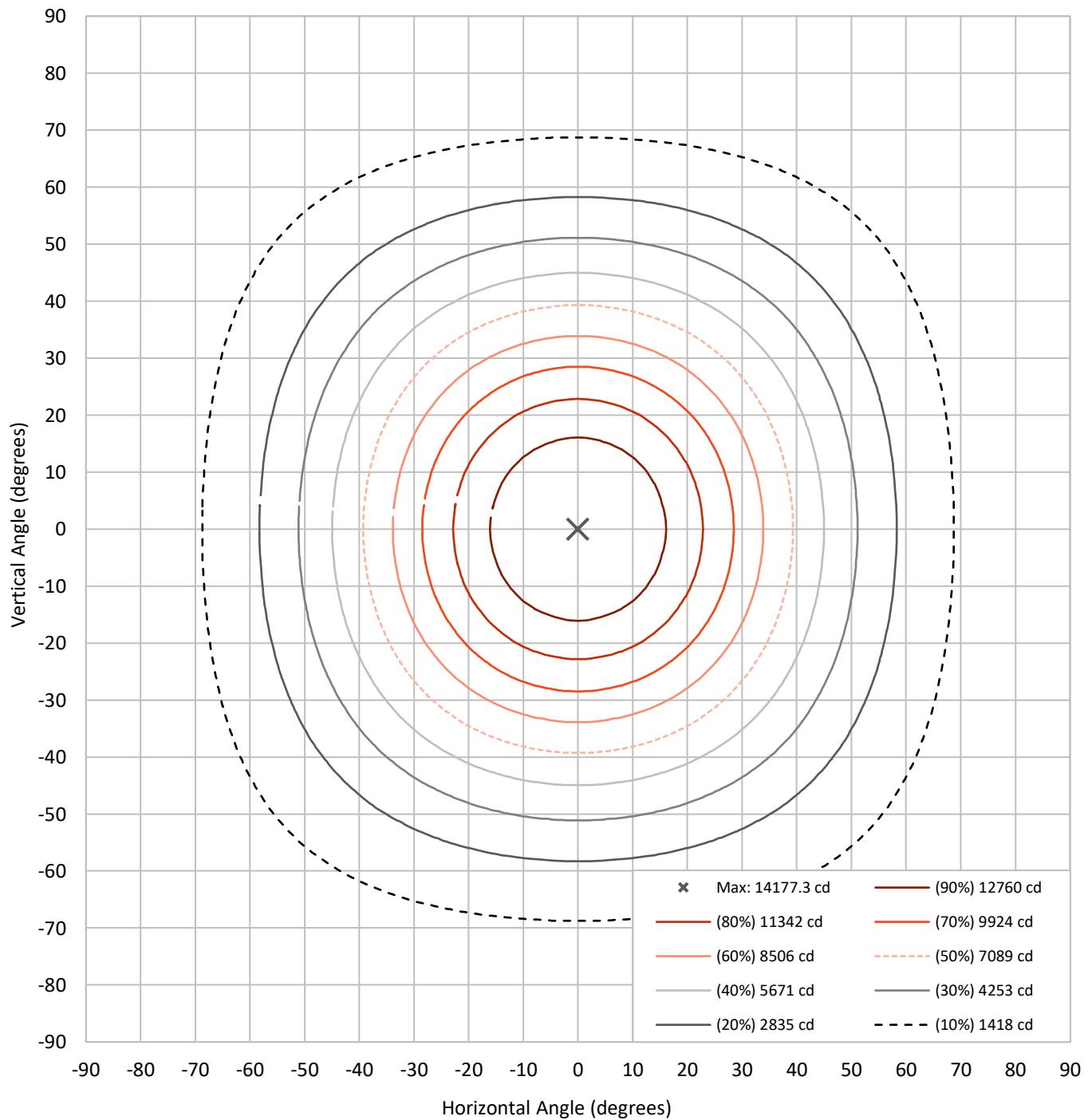
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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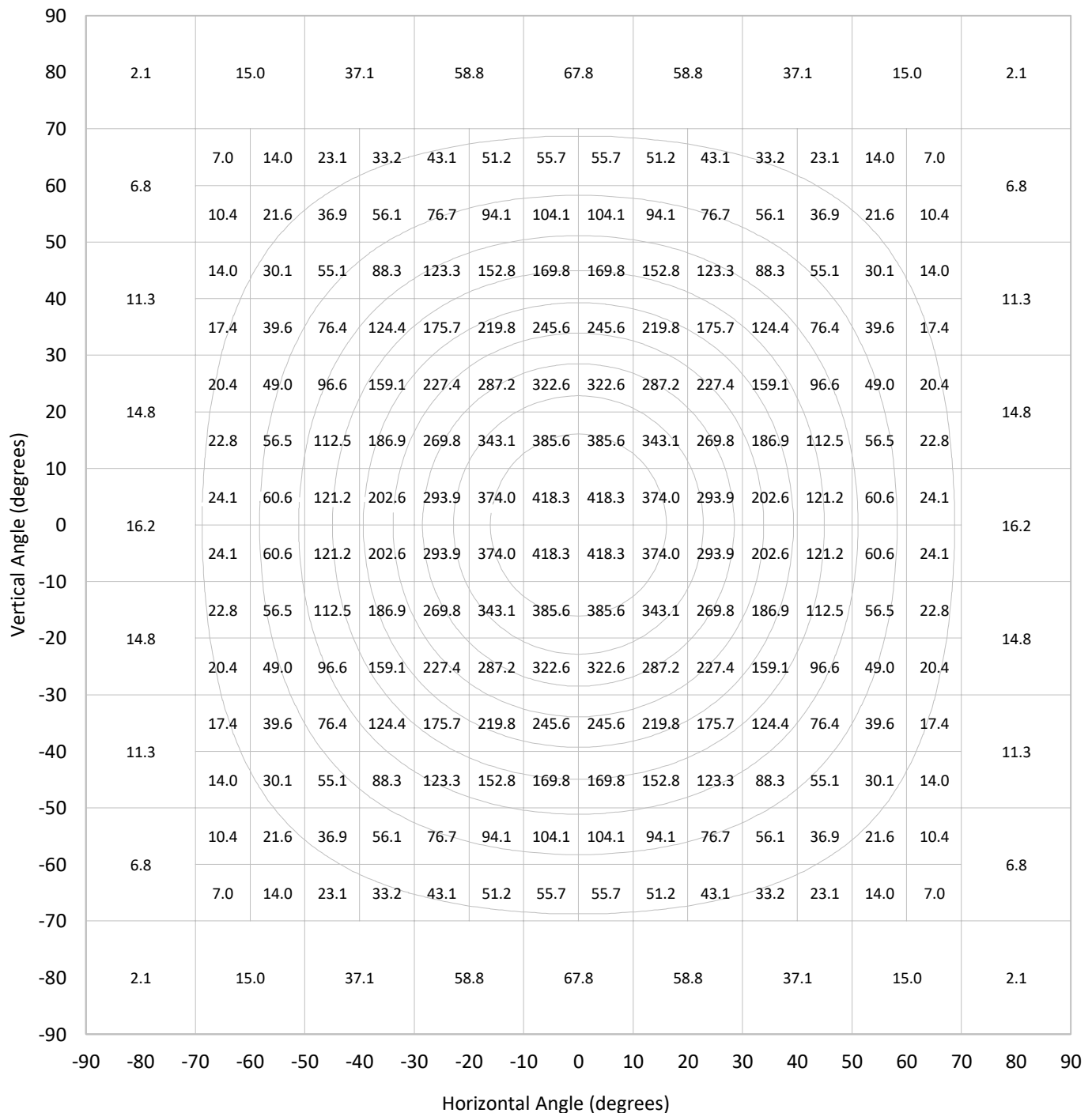
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Iso-Candela Plot



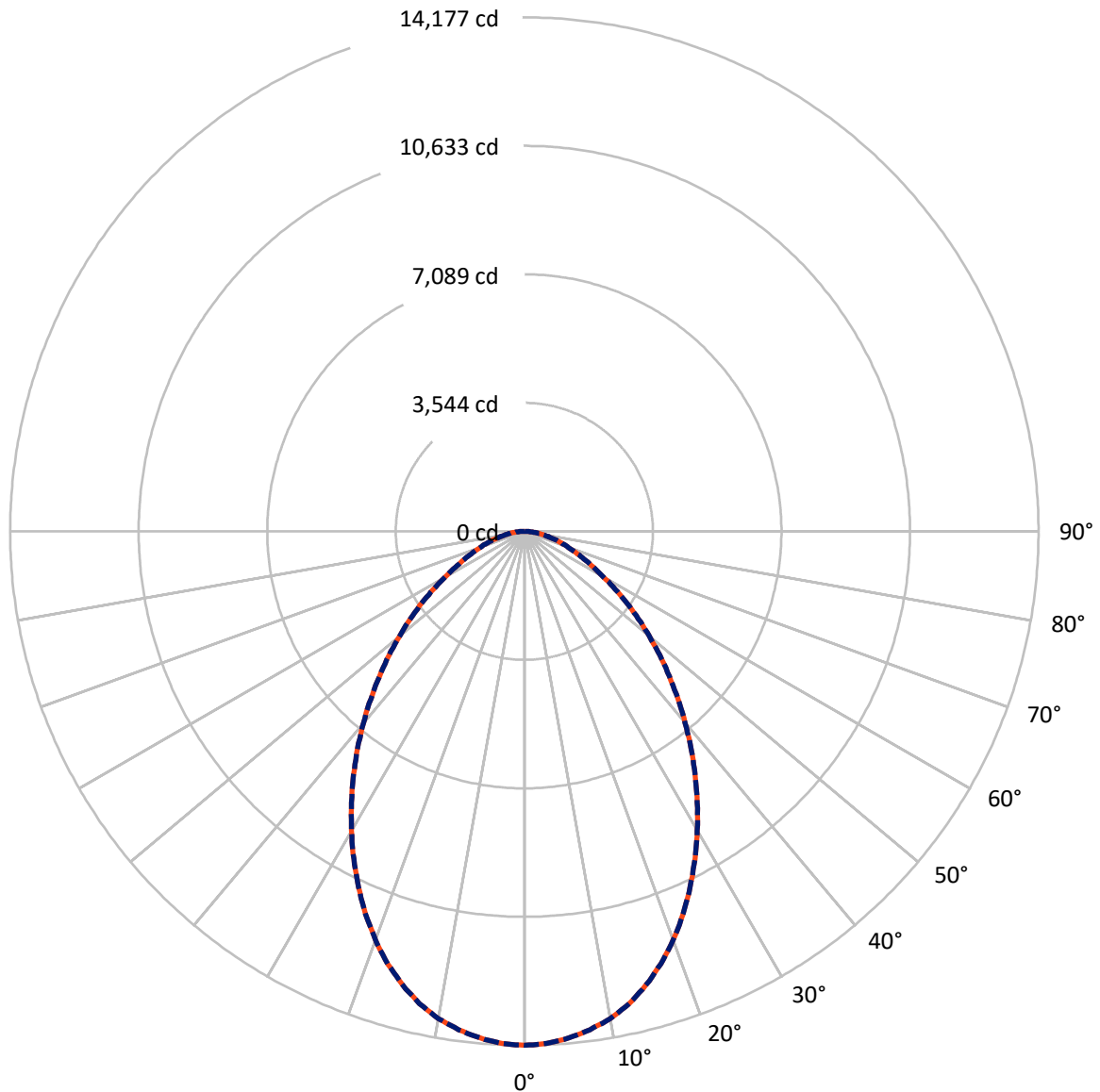
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Lumen Table



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Luminous Intensity Polar Plot

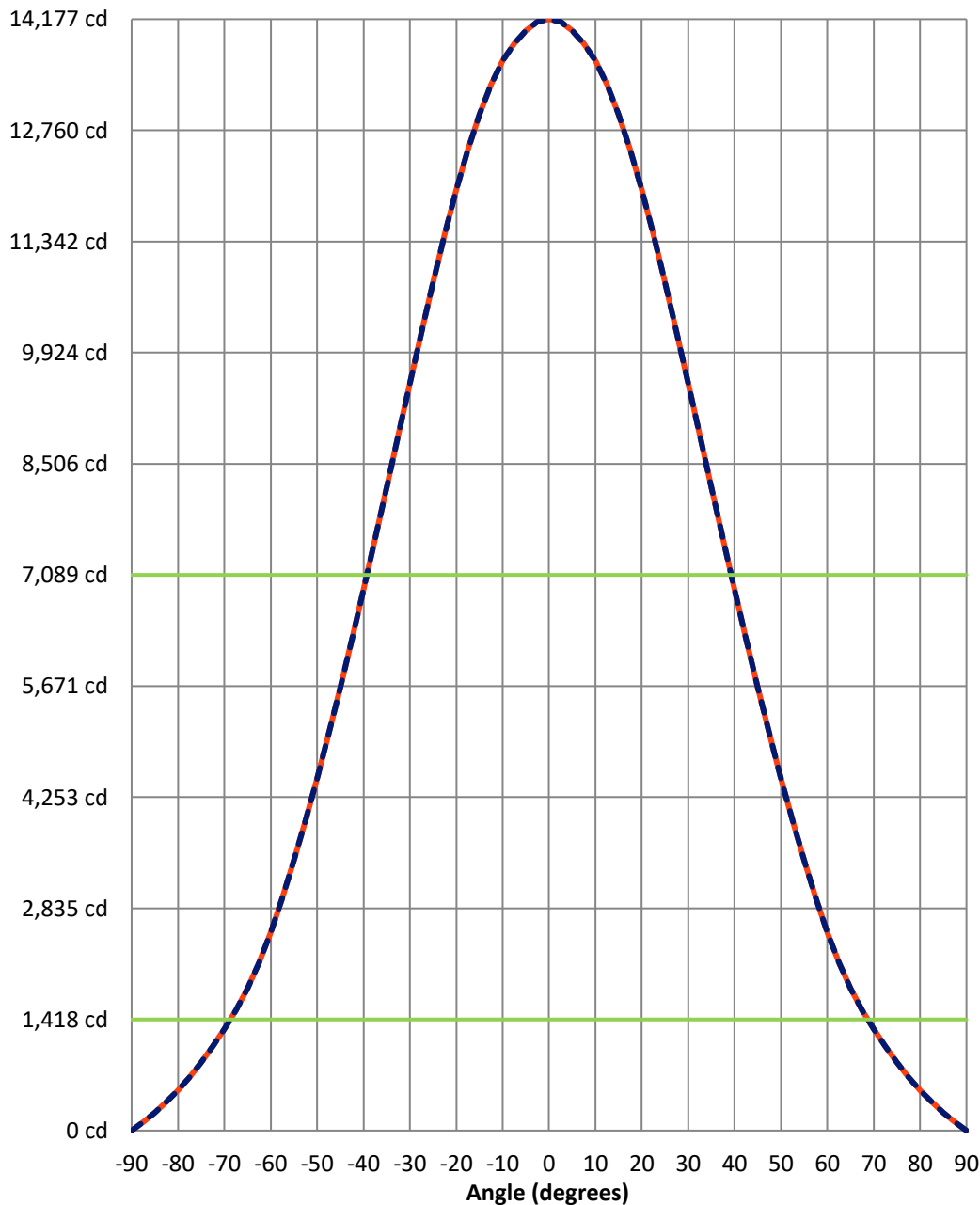


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11045.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 18085.9
Efficiency: 70.9%

Spill:

Lumens: 7440.6
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-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°	109.1	109.1	109.1	109.1	109.1	109.1	109.1	103.8	103.8	101.1	98.5
85°	228.9	228.9	228.9	228.9	228.9	223.6	220.9	218.2	215.6	210.3	207.6
82.5°	367.3	367.3	367.3	367.3	361.9	356.6	354.0	348.6	343.3	335.3	327.4
80°	513.6	513.6	513.6	513.6	505.7	500.3	492.4	487.0	479.1	468.4	457.8
77.5°	681.3	681.3	681.3	673.3	668.0	660.0	652.0	641.4	630.8	617.4	601.5
75°	870.3	870.3	870.3	859.6	851.6	843.7	830.4	817.0	801.1	782.5	761.2
72.5°	1075.2	1075.2	1075.2	1061.9	1053.9	1040.6	1024.6	1006.0	987.4	963.4	936.8
70°	1296.1	1296.1	1296.1	1280.1	1266.8	1253.5	1232.2	1210.9	1184.3	1157.7	1125.8
67.5°	1535.6	1535.6	1535.6	1517.0	1501.0	1482.4	1458.4	1431.8	1399.9	1362.6	1325.4
65°	1815.1	1815.1	1804.4	1788.5	1769.8	1743.2	1713.9	1676.7	1636.8	1588.9	1538.3
62.5°	2145.1	2145.1	2129.1	2110.5	2086.5	2051.9	2012.0	1964.1	1908.2	1847.0	1785.8
60°	2528.3	2528.3	2509.7	2485.7	2451.1	2408.6	2355.3	2294.1	2224.9	2147.7	2073.2
57.5°	2970.1	2970.1	2946.2	2914.2	2871.6	2818.4	2751.9	2674.7	2586.9	2491.1	2397.9
55°	3449.2	3449.2	3419.9	3382.6	3332.1	3268.2	3188.4	3097.9	2991.4	2882.3	2762.5
52.5°	3957.5	3957.5	3922.9	3880.3	3821.8	3747.2	3656.8	3550.3	3427.9	3300.1	3159.1
50°	4492.4	4492.4	4452.5	4404.6	4338.1	4250.2	4146.5	4024.0	3888.3	3739.3	3576.9
47.5°	5064.6	5064.6	5019.4	4963.5	4883.7	4782.5	4660.1	4519.1	4364.7	4197.0	4013.4
45°	5652.8	5652.8	5602.2	5538.4	5450.5	5336.1	5200.4	5064.6	4867.7	4673.4	4460.5
42.5°	6264.9	6264.9	6206.4	6134.5	6033.4	5908.3	5753.9	5578.3	5384.0	5165.8	4934.2
40°	6901.0	6901.0	6834.5	6752.0	6640.2	6496.5	6323.5	6126.5	5908.3	5666.1	5410.6
37.5°	7550.4	7550.4	7475.9	7385.4	7260.3	7100.6	6906.3	6688.1	6443.2	6174.4	5892.3
35°	8205.1	8205.1	8122.6	8024.1	7885.7	7710.1	7499.8	7257.6	6986.2	6693.4	6376.7
32.5°	8873.1	8873.1	8782.6	8670.8	8513.8	8319.5	8088.0	7824.5	7550.4	7209.7	6863.7
30°	9533.1	9533.1	9434.6	9312.2	9144.6	8931.6	8678.8	8388.7	8066.7	7718.0	7345.5
27.5°	10182.5	10155.9	10073.4	9943.0	9759.3	9533.1	9259.0	8945.0	8596.3	8213.1	7813.9
25°	10821.2	10792.0	10701.5	10557.8	10360.8	10113.3	9817.9	9482.6	9107.3	8702.8	8266.3
22.5°	11433.4	11401.4	11305.6	11151.2	10941.0	10672.2	10355.5	9996.2	9597.0	9163.2	8702.8
20°	12000.2	11965.6	11867.2	11704.8	11486.6	11201.8	10866.5	10480.6	10054.8	9597.0	9107.3
17.5°	12511.2	12476.6	12372.8	12205.2	12000.2	11683.5	11337.5	10930.4	10480.6	9996.2	9482.6
15°	12961.0	12923.7	12817.3	12649.6	12415.4	12117.3	11752.7	11337.5	10866.5	10355.5	9817.9
12.5°	13344.2	13307.0	13197.9	13030.2	12788.0	12489.9	12117.3	11683.5	11201.8	10672.2	10113.3
10°	13647.6	13610.4	13506.6	13346.9	13096.7	12788.0	12415.4	12000.2	11486.6	10941.0	10360.8
7.5°	13865.9	13831.3	13735.5	13575.8	13346.9	13030.2	12649.6	12205.2	11704.8	11151.2	10557.8
5°	14030.9	13991.0	13895.1	13735.5	13506.6	13197.9	12817.3	12372.8	11867.2	11305.6	10701.5
2.5°	14145.3	14097.4	13991.0	13831.3	13610.4	13307.0	12923.7	12476.6	11965.6	11401.4	10792.0
0°	14177.3	14145.3	14030.9	13865.9	13647.6	13344.2	12961.0	12511.2	12000.2	11433.4	10821.2

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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°	95.8	95.8	93.1	90.5	87.8	82.5	79.8	77.2	74.5	69.2	66.5
85°	202.3	196.9	191.6	186.3	178.3	173.0	165.0	159.7	151.7	143.7	135.7
82.5°	319.4	311.4	300.7	292.8	282.1	268.8	258.2	244.8	231.5	220.9	207.6
80°	447.1	433.8	420.5	407.2	391.2	375.3	359.3	343.3	324.7	306.1	287.4
77.5°	585.5	566.9	548.2	527.0	508.3	487.0	465.7	444.5	420.5	396.5	372.6
75°	739.9	715.9	689.3	662.7	638.7	609.5	580.2	550.9	519.0	489.7	457.8
72.5°	907.5	878.3	846.3	814.4	779.8	742.5	705.3	665.3	628.1	590.8	550.9
70°	1088.5	1053.9	1014.0	974.1	931.5	886.2	841.0	793.1	745.2	697.3	649.4
67.5°	1282.8	1240.2	1192.3	1144.4	1091.2	1037.9	984.7	928.8	870.3	811.7	755.8
65°	1490.4	1437.2	1381.3	1320.1	1258.8	1197.6	1133.8	1067.2	1000.7	931.5	870.3
62.5°	1721.9	1655.4	1583.5	1509.0	1439.8	1365.3	1296.1	1213.6	1133.8	1056.6	979.4
60°	1990.7	1902.9	1815.1	1721.9	1634.1	1538.3	1453.1	1362.6	1272.1	1184.3	1093.8
57.5°	2291.5	2179.7	2073.2	1961.4	1844.3	1737.9	1628.8	1519.7	1418.5	1314.7	1216.3
55°	2632.1	2496.4	2363.3	2224.9	2089.2	1956.1	1817.7	1695.3	1570.2	1453.1	1338.7
52.5°	3004.7	2850.4	2685.3	2528.3	2355.3	2190.3	2036.0	1881.6	1735.2	1594.2	1463.8
50°	3403.9	3223.0	3034.0	2842.4	2645.4	2451.1	2264.8	2083.9	1913.5	1748.5	1594.2
47.5°	3819.1	3614.2	3398.6	3180.4	2970.1	2733.3	2509.7	2304.8	2099.8	1913.5	1735.2
45°	4244.9	4013.4	3776.5	3529.0	3281.5	3026.0	2778.5	2528.3	2304.8	2083.9	1881.6
42.5°	4684.1	4423.2	4159.8	3885.6	3611.5	3332.1	3052.6	2778.5	2509.7	2264.8	2036.0
40°	5136.5	4849.1	4548.3	4250.2	3957.5	3638.1	3332.1	3026.0	2733.3	2451.1	2190.3
37.5°	5588.9	5274.9	4950.2	4614.9	4279.5	3957.5	3611.5	3281.5	2970.1	2645.4	2355.3
35°	6044.0	5698.0	5346.7	4982.1	4614.9	4250.2	3885.6	3529.0	3180.4	2842.4	2528.3
32.5°	6501.8	6123.9	5735.3	5346.7	4950.2	4548.3	4159.8	3776.5	3398.6	3034.0	2685.3
30°	6951.6	6541.7	6123.9	5698.0	5274.9	4849.1	4423.2	4013.4	3614.2	3223.0	2850.4
27.5°	7390.7	6951.6	6501.8	6044.0	5588.9	5136.5	4684.1	4244.9	3819.1	3403.9	3004.7
25°	7813.9	7345.5	6863.7	6376.7	5892.3	5410.6	4934.2	4460.5	4013.4	3576.9	3159.1
22.5°	8213.1	7718.0	7209.7	6693.4	6174.4	5666.1	5165.8	4673.4	4197.0	3739.3	3300.1
20°	8596.3	8066.7	7550.4	6986.2	6443.2	5908.3	5384.0	4867.7	4364.7	3888.3	3427.9
17.5°	8945.0	8388.7	7824.5	7257.6	6688.1	6126.5	5578.3	5064.6	4519.1	4024.0	3550.3
15°	9259.0	8678.8	8088.0	7499.8	6906.3	6323.5	5753.9	5200.4	4660.1	4146.5	3656.8
12.5°	9533.1	8931.6	8319.5	7710.1	7100.6	6496.5	5908.3	5336.1	4782.5	4250.2	3747.2
10°	9759.3	9144.6	8513.8	7885.7	7260.3	6640.2	6033.4	5450.5	4883.7	4338.1	3821.8
7.5°	9943.0	9312.2	8670.8	8024.1	7385.4	6752.0	6134.5	5538.4	4963.5	4404.6	3880.3
5°	10073.4	9434.6	8782.6	8122.6	7475.9	6834.5	6206.4	5602.2	5019.4	4452.5	3922.9
2.5°	10155.9	9533.1	8873.1	8205.1	7550.4	6901.0	6264.9	5652.8	5064.6	4492.4	3957.5
0°	10182.5	9533.1	8873.1	8205.1	7550.4	6901.0	6264.9	5652.8	5064.6	4492.4	3957.5

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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°	63.9	58.6	53.2	50.6	45.2	42.6	37.3	31.9	29.3	24.0	18.6
85°	127.7	117.1	109.1	101.1	93.1	82.5	74.5	66.5	55.9	47.9	37.3
82.5°	194.3	181.0	167.7	154.4	141.1	127.7	111.8	98.5	85.2	71.9	55.9
80°	268.8	247.5	228.9	210.3	191.6	173.0	151.7	133.1	111.8	93.1	74.5
77.5°	346.0	322.0	295.4	268.8	242.2	218.2	191.6	167.7	143.7	117.1	93.1
75°	428.5	396.5	367.3	332.7	300.7	266.1	234.2	202.3	173.0	143.7	111.8
72.5°	513.6	473.7	433.8	396.5	356.6	316.7	279.4	239.5	202.3	167.7	133.1
70°	601.5	553.6	505.7	460.4	415.2	367.3	324.7	279.4	234.2	191.6	151.7
67.5°	694.6	638.7	582.8	524.3	473.7	420.5	367.3	316.7	266.1	218.2	173.0
65°	795.8	729.2	660.0	598.8	532.3	473.7	415.2	356.6	300.7	242.2	191.6
62.5°	899.6	822.4	745.2	668.0	598.8	524.3	460.4	396.5	332.7	268.8	210.3
60°	1006.0	918.2	830.4	745.2	660.0	582.8	505.7	433.8	367.3	295.4	228.9
57.5°	1115.1	1016.7	918.2	822.4	729.2	638.7	553.6	473.7	396.5	322.0	247.5
55°	1226.9	1115.1	1006.0	899.6	795.8	694.6	601.5	513.6	428.5	346.0	268.8
52.5°	1338.7	1216.3	1093.8	979.4	870.3	755.8	649.4	550.9	457.8	372.6	287.4
50°	1453.1	1314.7	1184.3	1056.6	931.5	811.7	697.3	590.8	489.7	396.5	306.1
47.5°	1570.2	1418.5	1272.1	1133.8	1000.7	870.3	745.2	628.1	519.0	420.5	324.7
45°	1695.3	1519.7	1362.6	1213.6	1067.2	928.8	793.1	665.3	550.9	444.5	343.3
42.5°	1817.7	1628.8	1453.1	1296.1	1133.8	984.7	841.0	705.3	580.2	465.7	359.3
40°	1956.1	1737.9	1538.3	1365.3	1197.6	1037.9	886.2	742.5	609.5	487.0	375.3
37.5°	2089.2	1844.3	1634.1	1439.8	1258.8	1091.2	931.5	779.8	638.7	508.3	391.2
35°	2224.9	1961.4	1721.9	1509.0	1320.1	1144.4	974.1	814.4	662.7	527.0	407.2
32.5°	2363.3	2073.2	1815.1	1583.5	1381.3	1192.3	1014.0	846.3	689.3	548.2	420.5
30°	2496.4	2179.7	1902.9	1655.4	1437.2	1240.2	1053.9	878.3	715.9	566.9	433.8
27.5°	2632.1	2291.5	1990.7	1721.9	1490.4	1282.8	1088.5	907.5	739.9	585.5	447.1
25°	2762.5	2397.9	2073.2	1785.8	1538.3	1325.4	1125.8	936.8	761.2	601.5	457.8
22.5°	2882.3	2491.1	2147.7	1847.0	1588.9	1362.6	1157.7	963.4	782.5	617.4	468.4
20°	2991.4	2586.9	2224.9	1908.2	1636.8	1399.9	1184.3	987.4	801.1	630.8	479.1
17.5°	3097.9	2674.7	2294.1	1964.1	1676.7	1431.8	1210.9	1006.0	817.0	641.4	487.0
15°	3188.4	2751.9	2355.3	2012.0	1713.9	1458.4	1232.2	1024.6	830.4	652.0	492.4
12.5°	3268.2	2818.4	2408.6	2051.9	1743.2	1482.4	1253.5	1040.6	843.7	660.0	500.3
10°	3332.1	2871.6	2451.1	2086.5	1769.8	1501.0	1266.8	1053.9	851.6	668.0	505.7
7.5°	3382.6	2914.2	2485.7	2110.5	1788.5	1517.0	1280.1	1061.9	859.6	673.3	513.6
5°	3419.9	2946.2	2509.7	2129.1	1804.4	1535.6	1296.1	1075.2	870.3	681.3	513.6
2.5°	3449.2	2970.1	2528.3	2145.1	1815.1	1535.6	1296.1	1075.2	870.3	681.3	513.6
0°	3449.2	2970.1	2528.3	2145.1	1815.1	1535.6	1296.1	1075.2	870.3	681.3	513.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.3	10.6	5.3	0.0
85°	29.3	18.6	10.6	0.0
82.5°	42.6	29.3	13.3	0.0
80°	55.9	37.3	18.6	0.0
77.5°	71.9	47.9	24.0	0.0
75°	85.2	55.9	29.3	0.0
72.5°	98.5	66.5	31.9	0.0
70°	111.8	74.5	37.3	0.0
67.5°	127.7	82.5	42.6	0.0
65°	141.1	93.1	45.2	0.0
62.5°	154.4	101.1	50.6	0.0
60°	167.7	109.1	53.2	0.0
57.5°	181.0	117.1	58.6	0.0
55°	194.3	127.7	63.9	0.0
52.5°	207.6	135.7	66.5	0.0
50°	220.9	143.7	69.2	0.0
47.5°	231.5	151.7	74.5	0.0
45°	244.8	159.7	77.2	0.0
42.5°	258.2	165.0	79.8	0.0
40°	268.8	173.0	82.5	0.0
37.5°	282.1	178.3	87.8	0.0
35°	292.8	186.3	90.5	0.0
32.5°	300.7	191.6	93.1	0.0
30°	311.4	196.9	95.8	0.0
27.5°	319.4	202.3	95.8	0.0
25°	327.4	207.6	98.5	0.0
22.5°	335.3	210.3	101.1	0.0
20°	343.3	215.6	103.8	0.0
17.5°	348.6	218.2	103.8	0.0
15°	354.0	220.9	109.1	0.0
12.5°	356.6	223.6	109.1	0.0
10°	361.9	228.9	109.1	0.0
7.5°	367.3	228.9	109.1	0.0
5°	367.3	228.9	109.1	0.0
2.5°	367.3	228.9	109.1	0.0
0°	367.3	228.9	109.1	0.0

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