

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: P623879

Luminaire Tested: **IFLD-S-SA6A-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623879
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	25515.6 lumens	Max Intensity:	14171.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	134.6 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:	11040.4 lumens	Field Lumens:	18078.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

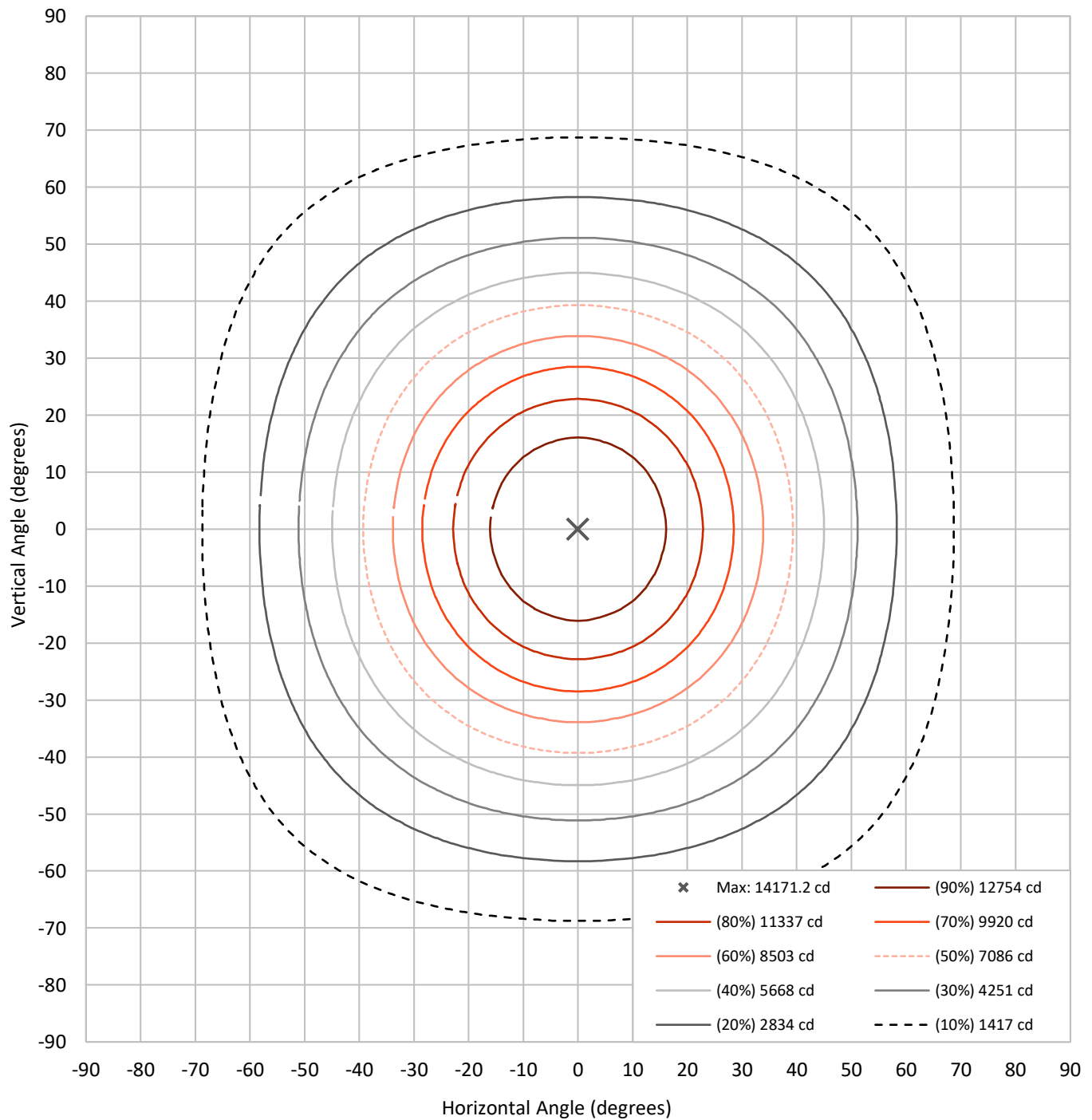
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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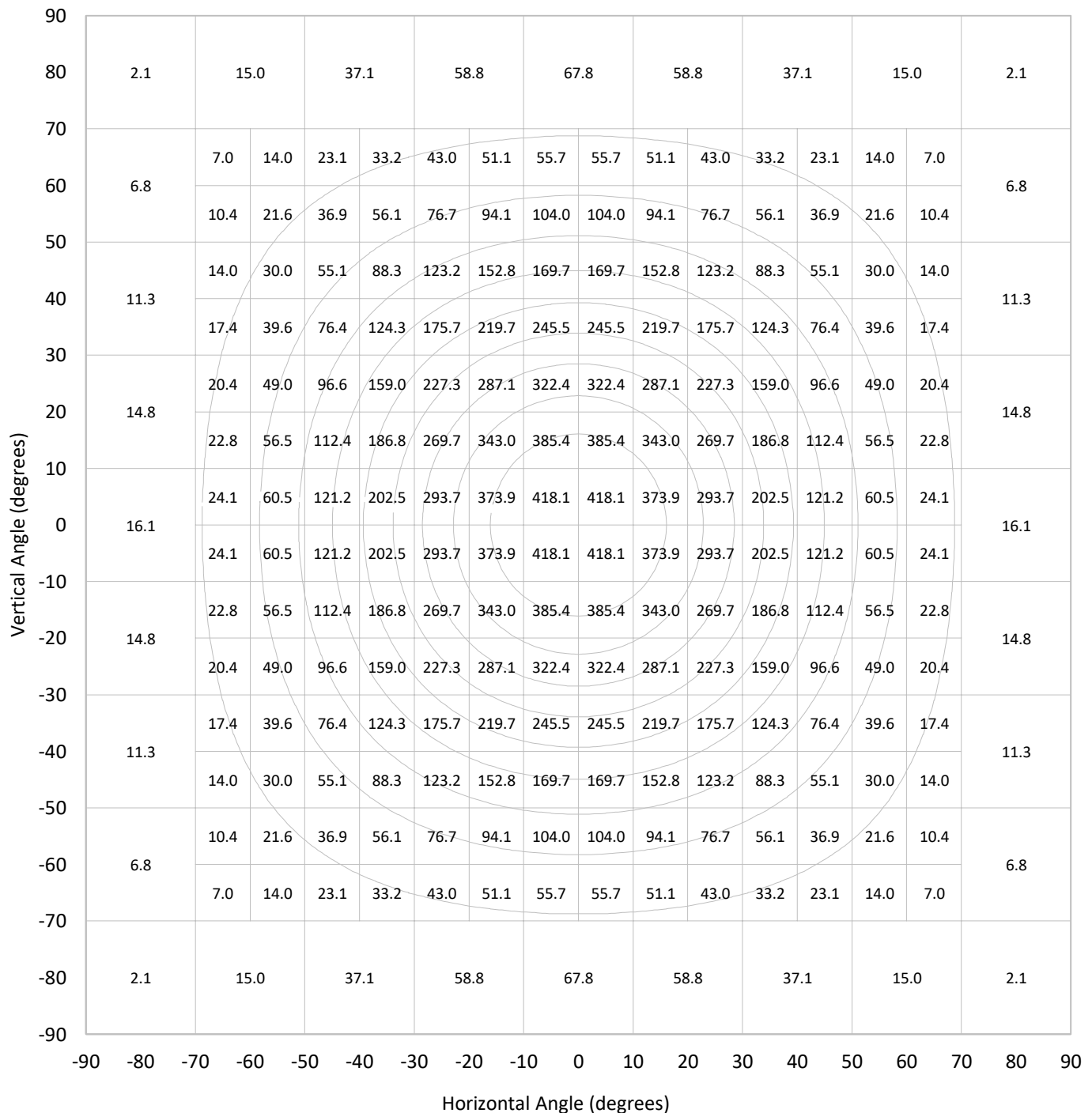
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Iso-Candela Plot



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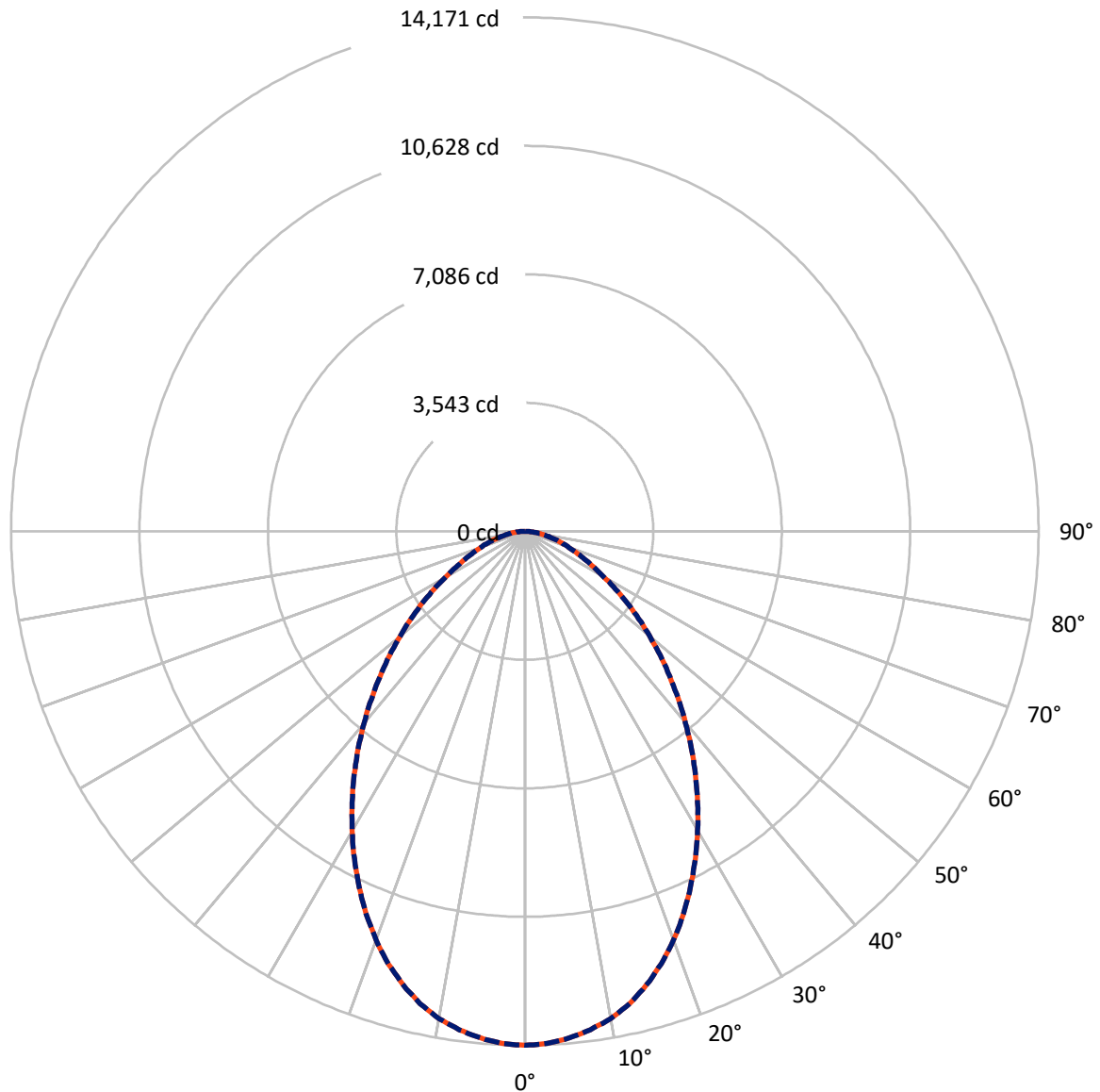
Lumen Table



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Luminous Intensity Polar Plot

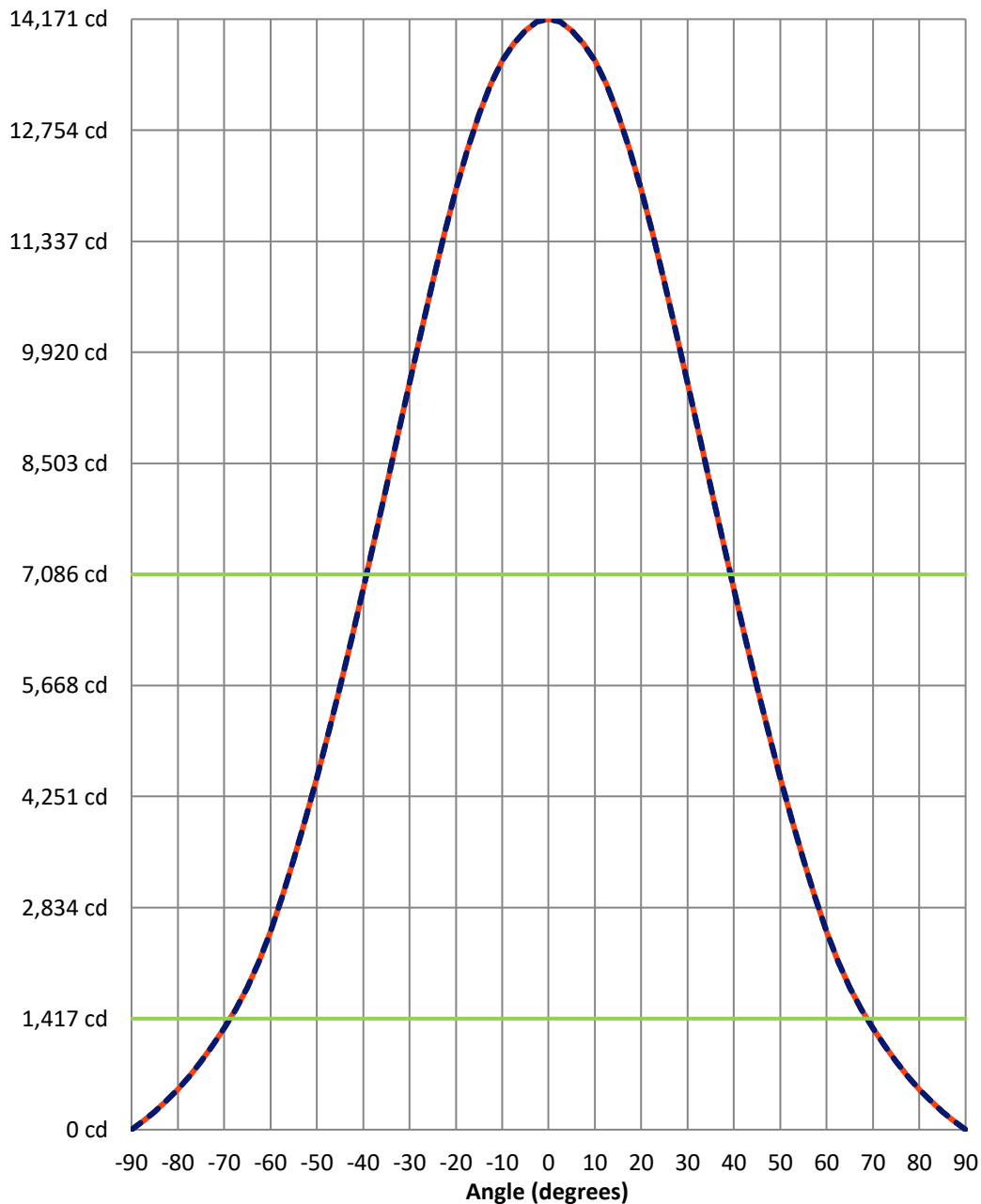


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11040.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 18078.2
Efficiency: 70.9%

Spill:

Lumens: 7437.4
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	98.4
85°	228.8	228.8	228.8	228.8	228.8	223.5	220.8	218.1	215.5	210.2	207.5
82.5°	367.1	367.1	367.1	367.1	361.8	356.5	353.8	348.5	343.2	335.2	327.2
80°	513.4	513.4	513.4	513.4	505.5	500.1	492.1	486.8	478.8	468.2	457.6
77.5°	681.0	681.0	681.0	673.0	667.7	659.7	651.8	641.1	630.5	617.2	601.2
75°	869.9	869.9	869.9	859.3	851.3	843.3	830.0	816.7	800.7	782.1	760.8
72.5°	1074.7	1074.7	1074.7	1061.4	1053.5	1040.2	1024.2	1005.6	987.0	963.0	936.4
70°	1295.6	1295.6	1295.6	1279.6	1266.3	1253.0	1231.7	1210.4	1183.8	1157.2	1125.3
67.5°	1535.0	1535.0	1535.0	1516.4	1500.4	1481.8	1457.8	1431.2	1399.3	1362.1	1324.8
65°	1814.3	1814.3	1803.7	1787.7	1769.1	1742.5	1713.2	1676.0	1636.1	1588.2	1537.6
62.5°	2144.2	2144.2	2128.2	2109.6	2085.6	2051.1	2011.2	1963.3	1907.4	1846.2	1785.0
60°	2527.3	2527.3	2508.6	2484.7	2450.1	2407.5	2354.3	2293.2	2224.0	2146.8	2072.3
57.5°	2968.9	2968.9	2944.9	2913.0	2870.4	2817.2	2750.7	2673.6	2585.8	2490.0	2396.9
55°	3447.7	3447.7	3418.4	3381.2	3330.7	3266.8	3187.0	3096.6	2990.1	2881.1	2761.4
52.5°	3955.8	3955.8	3921.2	3878.7	3820.1	3745.7	3655.2	3548.8	3426.4	3298.7	3157.7
50°	4490.5	4490.5	4450.6	4402.7	4336.2	4248.4	4144.7	4022.3	3886.7	3737.7	3575.4
47.5°	5062.5	5062.5	5017.3	4961.4	4881.6	4780.5	4658.1	4517.1	4362.8	4195.2	4011.7
45°	5650.4	5650.4	5599.9	5536.0	5448.2	5333.8	5198.2	5062.5	4865.6	4671.4	4458.6
42.5°	6262.3	6262.3	6203.7	6131.9	6030.8	5905.8	5751.5	5575.9	5381.7	5163.6	4932.1
40°	6898.1	6898.1	6831.6	6749.1	6637.4	6493.7	6320.8	6123.9	5905.8	5663.7	5408.3
37.5°	7547.2	7547.2	7472.7	7382.2	7257.2	7097.6	6903.4	6685.3	6440.5	6171.8	5889.8
35°	8201.6	8201.6	8119.1	8020.7	7882.4	7706.8	7496.6	7254.5	6983.2	6690.6	6374.0
32.5°	8869.3	8869.3	8778.9	8667.2	8510.2	8316.0	8084.6	7821.2	7547.2	7206.7	6860.8
30°	9529.1	9529.1	9430.6	9308.3	9140.7	8927.9	8675.1	8385.2	8063.3	7714.8	7342.3
27.5°	10178.2	10151.6	10069.1	9938.8	9755.2	9529.1	9255.1	8941.2	8592.7	8209.6	7810.5
25°	10816.6	10787.4	10696.9	10553.3	10356.4	10109.0	9813.7	9478.5	9103.4	8699.1	8262.8
22.5°	11428.5	11396.6	11300.8	11146.5	10936.4	10667.7	10351.1	9992.0	9592.9	9159.3	8699.1
20°	11995.1	11960.6	11862.1	11699.9	11481.7	11197.1	10861.9	10476.1	10050.5	9592.9	9103.4
17.5°	12505.9	12471.3	12367.6	12200.0	11995.1	11678.6	11332.7	10925.7	10476.1	9992.0	9478.5
15°	12955.5	12918.3	12811.8	12644.2	12410.1	12112.2	11747.7	11332.7	10861.9	10351.1	9813.7
12.5°	13338.6	13301.3	13192.3	13024.7	12782.6	12484.6	12112.2	11678.6	11197.1	10667.7	10109.0
10°	13641.8	13604.6	13500.9	13341.2	13091.2	12782.6	12410.1	11995.1	11481.7	10936.4	10356.4
7.5°	13860.0	13825.4	13729.6	13570.0	13341.2	13024.7	12644.2	12200.0	11699.9	11146.5	10553.3
5°	14024.9	13985.0	13889.3	13729.6	13500.9	13192.3	12811.8	12367.6	11862.1	11300.8	10696.9
2.5°	14139.3	14091.4	13985.0	13825.4	13604.6	13301.3	12918.3	12471.3	11960.6	11396.6	10787.4
0°	14171.2	14139.3	14024.9	13860.0	13641.8	13338.6	12955.5	12505.9	11995.1	11428.5	10816.6

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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°	95.8	95.8	93.1	90.4	87.8	82.5	79.8	77.1	74.5	69.2	66.5
85°	202.2	196.9	191.5	186.2	178.2	172.9	164.9	159.6	151.6	143.7	135.7
82.5°	319.2	311.3	300.6	292.6	282.0	268.7	258.0	244.7	231.4	220.8	207.5
80°	446.9	433.6	420.3	407.0	391.1	375.1	359.1	343.2	324.6	305.9	287.3
77.5°	585.3	566.6	548.0	526.7	508.1	486.8	465.5	444.3	420.3	396.4	372.4
75°	739.6	715.6	689.0	662.4	638.5	609.2	579.9	550.7	518.8	489.5	457.6
72.5°	907.2	877.9	846.0	814.0	779.5	742.2	705.0	665.1	627.8	590.6	550.7
70°	1088.0	1053.5	1013.6	973.7	931.1	885.9	840.6	792.8	744.9	697.0	649.1
67.5°	1282.2	1239.7	1191.8	1143.9	1090.7	1037.5	984.3	928.4	869.9	811.4	755.5
65°	1489.7	1436.5	1380.7	1319.5	1258.3	1197.1	1133.3	1066.8	1000.3	931.1	869.9
62.5°	1721.2	1654.7	1582.9	1508.4	1439.2	1364.7	1295.6	1213.1	1133.3	1056.1	979.0
60°	1989.9	1902.1	1814.3	1721.2	1633.4	1537.6	1452.5	1362.1	1271.6	1183.8	1093.4
57.5°	2290.5	2178.8	2072.3	1960.6	1843.6	1737.2	1628.1	1519.0	1417.9	1314.2	1215.7
55°	2631.0	2495.3	2362.3	2224.0	2088.3	1955.3	1817.0	1694.6	1569.6	1452.5	1338.1
52.5°	3003.4	2849.1	2684.2	2527.3	2354.3	2189.4	2035.1	1880.8	1734.5	1593.5	1463.1
50°	3402.5	3221.6	3032.7	2841.2	2644.3	2450.1	2263.9	2083.0	1912.7	1747.8	1593.5
47.5°	3817.5	3612.6	3397.2	3179.0	2968.9	2732.1	2508.6	2303.8	2099.0	1912.7	1734.5
45°	4243.1	4011.7	3774.9	3527.5	3280.1	3024.7	2777.3	2527.3	2303.8	2083.0	1880.8
42.5°	4682.1	4421.4	4158.0	3884.0	3610.0	3330.7	3051.3	2777.3	2508.6	2263.9	2035.1
40°	5134.3	4847.0	4546.4	4248.4	3955.8	3636.6	3330.7	3024.7	2732.1	2450.1	2189.4
37.5°	5586.6	5272.6	4948.1	4612.9	4277.7	3955.8	3610.0	3280.1	2968.9	2644.3	2354.3
35°	6041.5	5695.6	5344.5	4980.0	4612.9	4248.4	3884.0	3527.5	3179.0	2841.2	2527.3
32.5°	6499.0	6121.3	5732.9	5344.5	4948.1	4546.4	4158.0	3774.9	3397.2	3032.7	2684.2
30°	6948.6	6538.9	6121.3	5695.6	5272.6	4847.0	4421.4	4011.7	3612.6	3221.6	2849.1
27.5°	7387.6	6948.6	6499.0	6041.5	5586.6	5134.3	4682.1	4243.1	3817.5	3402.5	3003.4
25°	7810.5	7342.3	6860.8	6374.0	5889.8	5408.3	4932.1	4458.6	4011.7	3575.4	3157.7
22.5°	8209.6	7714.8	7206.7	6690.6	6171.8	5663.7	5163.6	4671.4	4195.2	3737.7	3298.7
20°	8592.7	8063.3	7547.2	6983.2	6440.5	5905.8	5381.7	4865.6	4362.8	3886.7	3426.4
17.5°	8941.2	8385.2	7821.2	7254.5	6685.3	6123.9	5575.9	5062.5	4517.1	4022.3	3548.8
15°	9255.1	8675.1	8084.6	7496.6	6903.4	6320.8	5751.5	5198.2	4658.1	4144.7	3655.2
12.5°	9529.1	8927.9	8316.0	7706.8	7097.6	6493.7	5905.8	5333.8	4780.5	4248.4	3745.7
10°	9755.2	9140.7	8510.2	7882.4	7257.2	6637.4	6030.8	5448.2	4881.6	4336.2	3820.1
7.5°	9938.8	9308.3	8667.2	8020.7	7382.2	6749.1	6131.9	5536.0	4961.4	4402.7	3878.7
5°	10069.1	9430.6	8778.9	8119.1	7472.7	6831.6	6203.7	5599.9	5017.3	4450.6	3921.2
2.5°	10151.6	9529.1	8869.3	8201.6	7547.2	6898.1	6262.3	5650.4	5062.5	4490.5	3955.8
0°	10178.2	9529.1	8869.3	8201.6	7547.2	6898.1	6262.3	5650.4	5062.5	4490.5	3955.8

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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°	63.8	58.5	53.2	50.5	45.2	42.6	37.2	31.9	29.3	23.9	18.6
85°	127.7	117.1	109.1	101.1	93.1	82.5	74.5	66.5	55.9	47.9	37.2
82.5°	194.2	180.9	167.6	154.3	141.0	127.7	111.7	98.4	85.1	71.8	55.9
80°	268.7	247.4	228.8	210.2	191.5	172.9	151.6	133.0	111.7	93.1	74.5
77.5°	345.8	321.9	295.3	268.7	242.1	218.1	191.5	167.6	143.7	117.1	93.1
75°	428.3	396.4	367.1	332.5	300.6	266.0	234.1	202.2	172.9	143.7	111.7
72.5°	513.4	473.5	433.6	396.4	356.5	316.6	279.3	239.4	202.2	167.6	133.0
70°	601.2	553.3	505.5	460.2	415.0	367.1	324.6	279.3	234.1	191.5	151.6
67.5°	694.3	638.5	582.6	524.1	473.5	420.3	367.1	316.6	266.0	218.1	172.9
65°	795.4	728.9	659.7	598.6	532.1	473.5	415.0	356.5	300.6	242.1	191.5
62.5°	899.2	822.0	744.9	667.7	598.6	524.1	460.2	396.4	332.5	268.7	210.2
60°	1005.6	917.8	830.0	744.9	659.7	582.6	505.5	433.6	367.1	295.3	228.8
57.5°	1114.7	1016.2	917.8	822.0	728.9	638.5	553.3	473.5	396.4	321.9	247.4
55°	1226.4	1114.7	1005.6	899.2	795.4	694.3	601.2	513.4	428.3	345.8	268.7
52.5°	1338.1	1215.7	1093.4	979.0	869.9	755.5	649.1	550.7	457.6	372.4	287.3
50°	1452.5	1314.2	1183.8	1056.1	931.1	811.4	697.0	590.6	489.5	396.4	305.9
47.5°	1569.6	1417.9	1271.6	1133.3	1000.3	869.9	744.9	627.8	518.8	420.3	324.6
45°	1694.6	1519.0	1362.1	1213.1	1066.8	928.4	792.8	665.1	550.7	444.3	343.2
42.5°	1817.0	1628.1	1452.5	1295.6	1133.3	984.3	840.6	705.0	579.9	465.5	359.1
40°	1955.3	1737.2	1537.6	1364.7	1197.1	1037.5	885.9	742.2	609.2	486.8	375.1
37.5°	2088.3	1843.6	1633.4	1439.2	1258.3	1090.7	931.1	779.5	638.5	508.1	391.1
35°	2224.0	1960.6	1721.2	1508.4	1319.5	1143.9	973.7	814.0	662.4	526.7	407.0
32.5°	2362.3	2072.3	1814.3	1582.9	1380.7	1191.8	1013.6	846.0	689.0	548.0	420.3
30°	2495.3	2178.8	1902.1	1654.7	1436.5	1239.7	1053.5	877.9	715.6	566.6	433.6
27.5°	2631.0	2290.5	1989.9	1721.2	1489.7	1282.2	1088.0	907.2	739.6	585.3	446.9
25°	2761.4	2396.9	2072.3	1785.0	1537.6	1324.8	1125.3	936.4	760.8	601.2	457.6
22.5°	2881.1	2490.0	2146.8	1846.2	1588.2	1362.1	1157.2	963.0	782.1	617.2	468.2
20°	2990.1	2585.8	2224.0	1907.4	1636.1	1399.3	1183.8	987.0	800.7	630.5	478.8
17.5°	3096.6	2673.6	2293.2	1963.3	1676.0	1431.2	1210.4	1005.6	816.7	641.1	486.8
15°	3187.0	2750.7	2354.3	2011.2	1713.2	1457.8	1231.7	1024.2	830.0	651.8	492.1
12.5°	3266.8	2817.2	2407.5	2051.1	1742.5	1481.8	1253.0	1040.2	843.3	659.7	500.1
10°	3330.7	2870.4	2450.1	2085.6	1769.1	1500.4	1266.3	1053.5	851.3	667.7	505.5
7.5°	3381.2	2913.0	2484.7	2109.6	1787.7	1516.4	1279.6	1061.4	859.3	673.0	513.4
5°	3418.4	2944.9	2508.6	2128.2	1803.7	1535.0	1295.6	1074.7	869.9	681.0	513.4
2.5°	3447.7	2968.9	2527.3	2144.2	1814.3	1535.0	1295.6	1074.7	869.9	681.0	513.4
0°	3447.7	2968.9	2527.3	2144.2	1814.3	1535.0	1295.6	1074.7	869.9	681.0	513.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	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	37.2	18.6	0.0
77.5°	71.8	47.9	23.9	0.0
75°	85.1	55.9	29.3	0.0
72.5°	98.4	66.5	31.9	0.0
70°	111.7	74.5	37.2	0.0
67.5°	127.7	82.5	42.6	0.0
65°	141.0	93.1	45.2	0.0
62.5°	154.3	101.1	50.5	0.0
60°	167.6	109.1	53.2	0.0
57.5°	180.9	117.1	58.5	0.0
55°	194.2	127.7	63.8	0.0
52.5°	207.5	135.7	66.5	0.0
50°	220.8	143.7	69.2	0.0
47.5°	231.4	151.6	74.5	0.0
45°	244.7	159.6	77.1	0.0
42.5°	258.0	164.9	79.8	0.0
40°	268.7	172.9	82.5	0.0
37.5°	282.0	178.2	87.8	0.0
35°	292.6	186.2	90.4	0.0
32.5°	300.6	191.5	93.1	0.0
30°	311.3	196.9	95.8	0.0
27.5°	319.2	202.2	95.8	0.0
25°	327.2	207.5	98.4	0.0
22.5°	335.2	210.2	101.1	0.0
20°	343.2	215.5	103.8	0.0
17.5°	348.5	218.1	103.8	0.0
15°	353.8	220.8	109.1	0.0
12.5°	356.5	223.5	109.1	0.0
10°	361.8	228.8	109.1	0.0
7.5°	367.1	228.8	109.1	0.0
5°	367.1	228.8	109.1	0.0
2.5°	367.1	228.8	109.1	0.0
0°	367.1	228.8	109.1	0.0

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