

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: P623882

Luminaire Tested: **IFLD-S-SA6D-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623882
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-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

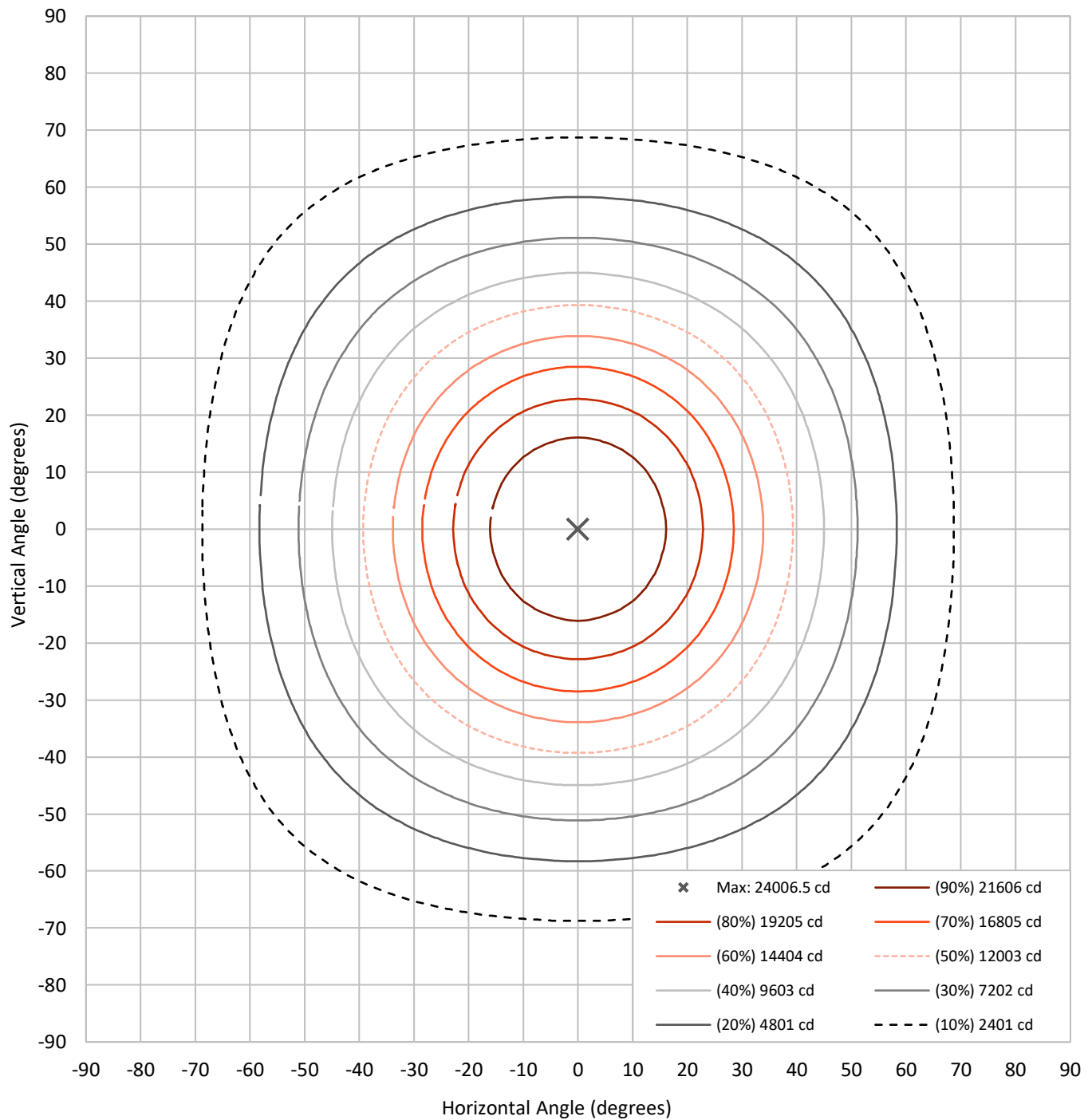
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	43224.3 lumens	Max Intensity:	24006.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	117.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	18702.7 lumens	Field Lumens:	30625.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	368.2		
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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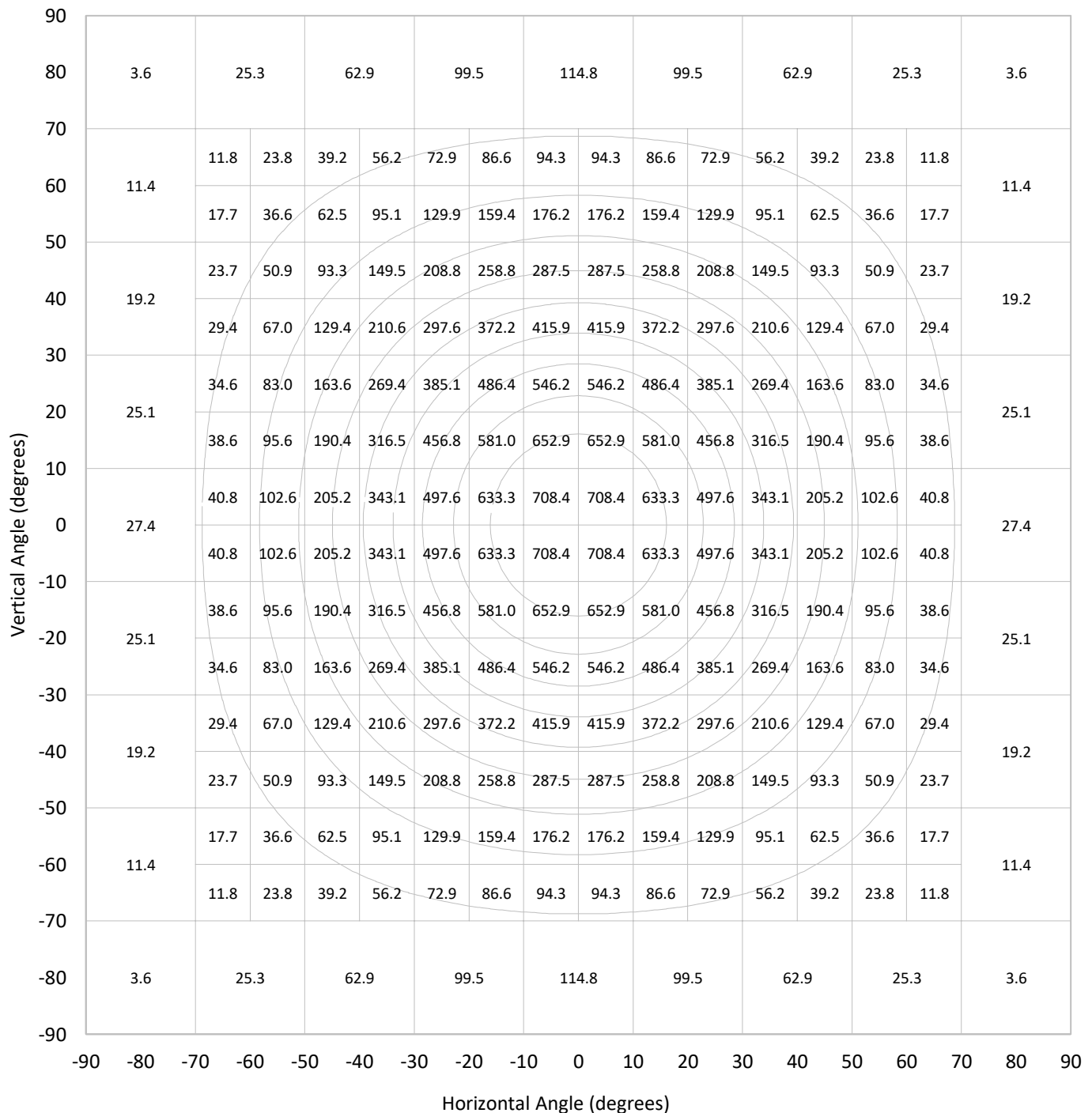
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Iso-Candela Plot



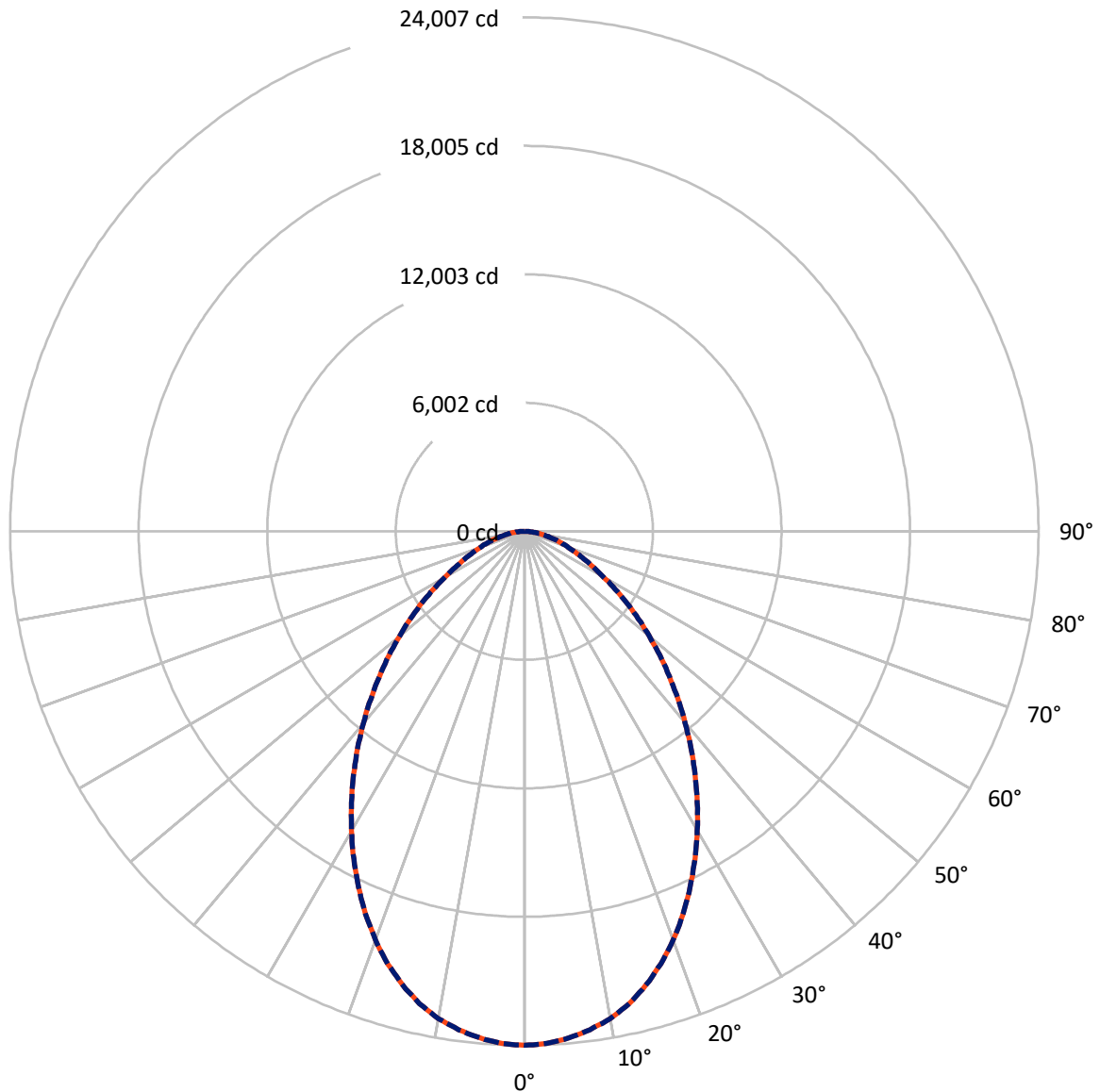
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Lumen Table



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Luminous Intensity Polar Plot

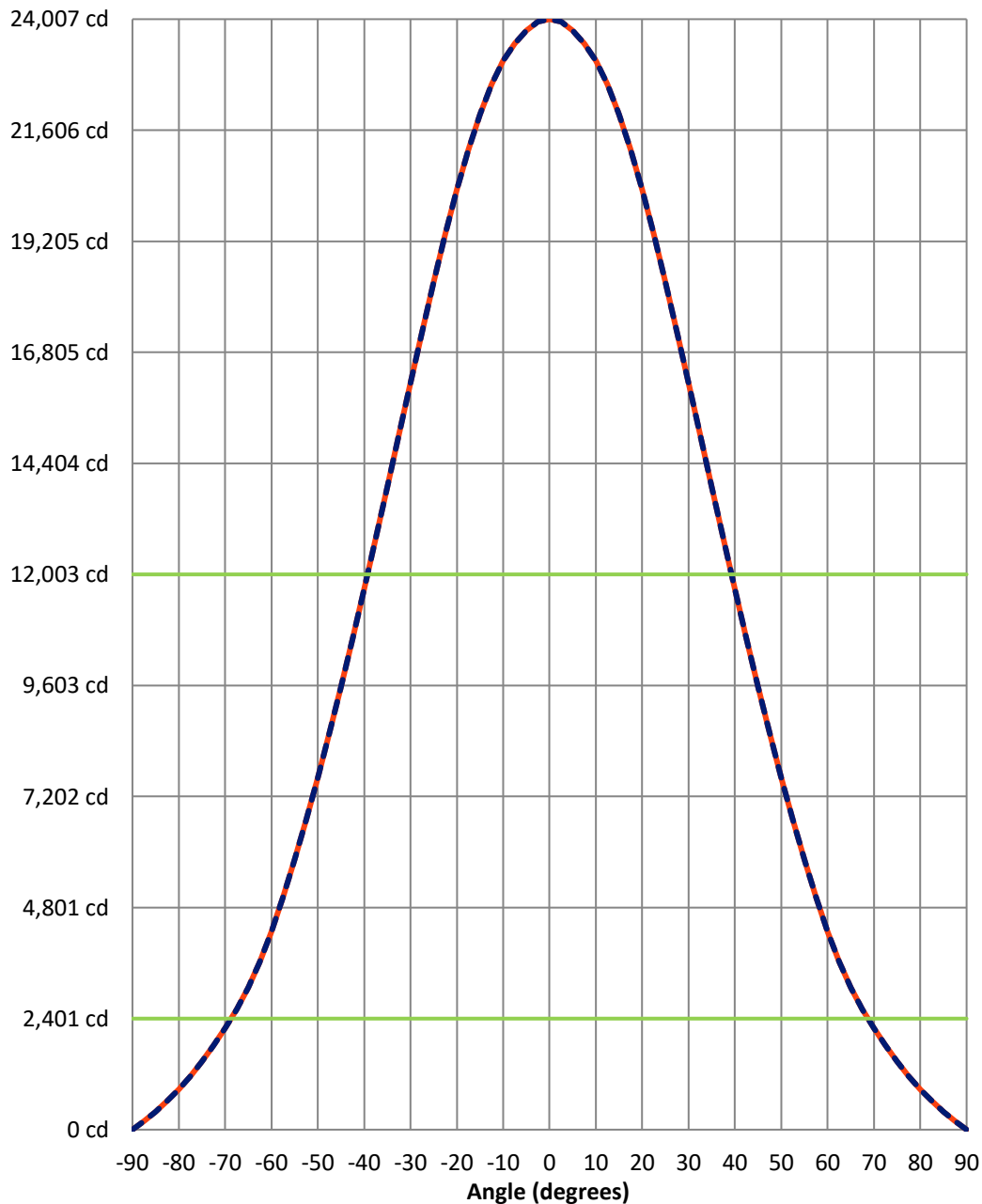


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 18702.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 30625.1
Efficiency: 70.9%

Spill:

Lumens: 12599.2
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°	184.8	184.8	184.8	184.8	184.8	184.8	184.8	175.8	175.8	171.3	166.7
85°	387.6	387.6	387.6	387.6	387.6	378.6	374.0	369.5	365.0	356.0	351.5
82.5°	621.9	621.9	621.9	621.9	612.9	603.9	599.4	590.4	581.3	567.8	554.3
80°	869.8	869.8	869.8	869.8	856.3	847.2	833.7	824.7	811.2	793.2	775.1
77.5°	1153.7	1153.7	1153.7	1140.2	1131.2	1117.6	1104.1	1086.1	1068.1	1045.5	1018.5
75°	1473.7	1473.7	1473.7	1455.6	1442.1	1428.6	1406.1	1383.5	1356.5	1324.9	1288.9
72.5°	1820.7	1820.7	1820.7	1798.1	1784.6	1762.1	1735.0	1703.5	1671.9	1631.4	1586.3
70°	2194.7	2194.7	2194.7	2167.7	2145.1	2122.6	2086.5	2050.5	2005.4	1960.4	1906.3
67.5°	2600.3	2600.3	2600.3	2568.8	2541.7	2510.2	2469.6	2424.5	2370.5	2307.4	2244.3
65°	3073.5	3073.5	3055.5	3028.4	2996.9	2951.8	2902.2	2839.1	2771.5	2690.4	2604.8
62.5°	3632.3	3632.3	3605.3	3573.7	3533.2	3474.6	3407.0	3325.9	3231.2	3127.6	3023.9
60°	4281.3	4281.3	4249.7	4209.1	4150.6	4078.5	3988.3	3884.7	3767.5	3636.8	3510.6
57.5°	5029.3	5029.3	4988.8	4934.7	4862.6	4772.5	4659.8	4529.1	4380.4	4218.2	4060.4
55°	5840.5	5840.5	5791.0	5727.9	5642.2	5534.1	5398.9	5245.7	5065.4	4880.6	4677.8
52.5°	6701.3	6701.3	6642.7	6570.6	6471.4	6345.3	6192.0	6011.8	5804.5	5588.2	5349.3
50°	7607.1	7607.1	7539.5	7458.4	7345.7	7197.0	7021.3	6813.9	6584.1	6331.7	6056.8
47.5°	8576.0	8576.0	8499.4	8404.8	8269.6	8098.3	7891.0	7652.2	7390.8	7106.9	6795.9
45°	9572.0	9572.0	9486.3	9378.2	9229.5	9035.7	8805.9	8576.0	8242.5	7913.6	7553.0
42.5°	10608.5	10608.5	10509.3	10387.7	10216.4	10004.6	9743.2	9445.8	9116.8	8747.3	8355.2
40°	11685.6	11685.6	11572.9	11433.2	11243.9	11000.6	10707.6	10374.1	10004.6	9594.5	9161.9
37.5°	12785.2	12785.2	12659.0	12505.8	12293.9	12023.6	11694.6	11325.0	10910.4	10455.3	9977.6
35°	13893.8	13893.8	13754.1	13587.3	13353.0	13055.6	12699.5	12289.4	11829.8	11334.0	10797.8
32.5°	15024.9	15024.9	14871.7	14682.4	14416.5	14087.6	13695.5	13249.3	12785.2	12208.3	11622.5
30°	16142.6	16142.6	15975.8	15768.5	15484.6	15124.1	14696.0	14204.7	13659.4	13069.1	12438.2
27.5°	17242.2	17197.1	17057.4	16836.6	16525.6	16142.6	15678.4	15146.6	14556.3	13907.3	13231.3
25°	18323.8	18274.2	18121.0	17877.6	17544.1	17125.0	16624.8	16056.9	15421.5	14736.5	13997.4
22.5°	19360.3	19306.2	19143.9	18882.6	18526.5	18071.4	17535.1	16926.7	16250.7	15516.2	14736.5
20°	20320.2	20261.6	20094.8	19819.9	19450.4	18968.2	18400.4	17746.9	17025.9	16250.7	15421.5
17.5°	21185.4	21126.8	20951.1	20667.2	20320.2	19783.9	19198.0	18508.5	17746.9	16926.7	16056.9
15°	21947.0	21883.9	21703.7	21419.8	21023.2	20518.5	19901.1	19198.0	18400.4	17535.1	16624.8
12.5°	22596.0	22532.9	22348.1	22064.2	21654.1	21149.4	20518.5	19783.9	18968.2	18071.4	17125.0
10°	23109.7	23046.6	22870.9	22600.5	22176.9	21654.1	21023.2	20320.2	19450.4	18526.5	17544.1
7.5°	23479.3	23420.7	23258.5	22988.1	22600.5	22064.2	21419.8	20667.2	19819.9	18882.6	17877.6
5°	23758.7	23691.1	23528.8	23258.5	22870.9	22348.1	21703.7	20951.1	20094.8	19143.9	18121.0
2.5°	23952.5	23871.3	23691.1	23420.7	23046.6	22532.9	21883.9	21126.8	20261.6	19306.2	18274.2
0°	24006.5	23952.5	23758.7	23479.3	23109.7	22596.0	21947.0	21185.4	20320.2	19360.3	18323.8

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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°	162.2	162.2	157.7	153.2	148.7	139.7	135.2	130.7	126.2	117.2	112.7
85°	342.5	333.5	324.5	315.5	301.9	292.9	279.4	270.4	256.9	243.4	229.8
82.5°	540.8	527.3	509.2	495.7	477.7	455.2	437.1	414.6	392.1	374.0	351.5
80°	757.1	734.6	712.0	689.5	662.5	635.4	608.4	581.3	549.8	518.3	486.7
77.5°	991.4	959.9	928.4	892.3	860.8	824.7	788.7	752.6	712.0	671.5	630.9
75°	1252.8	1212.3	1167.2	1122.1	1081.6	1032.0	982.4	932.9	878.8	829.2	775.1
72.5°	1536.7	1487.2	1433.1	1379.0	1320.4	1257.3	1194.2	1126.6	1063.6	1000.5	932.9
70°	1843.2	1784.6	1717.0	1649.4	1577.3	1500.7	1424.1	1343.0	1261.8	1180.7	1099.6
67.5°	2172.2	2100.1	2018.9	1937.8	1847.7	1757.6	1667.4	1572.8	1473.7	1374.5	1279.9
65°	2523.7	2433.6	2338.9	2235.3	2131.6	2028.0	1919.8	1807.1	1694.5	1577.3	1473.7
62.5°	2915.8	2803.1	2681.4	2555.2	2438.1	2311.9	2194.7	2055.0	1919.8	1789.1	1658.4
60°	3370.9	3222.2	3073.5	2915.8	2767.0	2604.8	2460.6	2307.4	2154.1	2005.4	1852.2
57.5°	3880.2	3690.9	3510.6	3321.3	3123.1	2942.8	2758.0	2573.3	2402.0	2226.3	2059.5
55°	4457.0	4227.2	4001.8	3767.5	3537.7	3312.3	3078.0	2870.7	2658.9	2460.6	2266.8
52.5°	5087.9	4826.5	4547.1	4281.3	3988.3	3708.9	3447.5	3186.2	2938.3	2699.4	2478.6
50°	5763.9	5457.5	5137.5	4813.0	4479.5	4150.6	3835.1	3528.7	3240.2	2960.8	2699.4
47.5°	6466.9	6119.9	5754.9	5385.4	5029.3	4628.3	4249.7	3902.7	3555.7	3240.2	2938.3
45°	7188.0	6795.9	6394.8	5975.7	5556.6	5124.0	4704.9	4281.3	3902.7	3528.7	3186.2
42.5°	7931.6	7489.9	7043.8	6579.6	6115.4	5642.2	5169.0	4704.9	4249.7	3835.1	3447.5
40°	8697.7	8211.0	7701.7	7197.0	6701.3	6160.5	5642.2	5124.0	4628.3	4150.6	3708.9
37.5°	9463.8	8932.0	8382.2	7814.4	7246.6	6701.3	6115.4	5556.6	5029.3	4479.5	3988.3
35°	10234.4	9648.6	9053.7	8436.3	7814.4	7197.0	6579.6	5975.7	5385.4	4813.0	4281.3
32.5°	11009.6	10369.6	9711.7	9053.7	8382.2	7701.7	7043.8	6394.8	5754.9	5137.5	4547.1
30°	11771.2	11077.2	10369.6	9648.6	8932.0	8211.0	7489.9	6795.9	6119.9	5457.5	4826.5
27.5°	12514.8	11771.2	11009.6	10234.4	9463.8	8697.7	7931.6	7188.0	6466.9	5763.9	5087.9
25°	13231.3	12438.2	11622.5	10797.8	9977.6	9161.9	8355.2	7553.0	6795.9	6056.8	5349.3
22.5°	13907.3	13069.1	12208.3	11334.0	10455.3	9594.5	8747.3	7913.6	7106.9	6331.7	5588.2
20°	14556.3	13659.4	12785.2	11829.8	10910.4	10004.6	9116.8	8242.5	7390.8	6584.1	5804.5
17.5°	15146.6	14204.7	13249.3	12289.4	11325.0	10374.1	9445.8	8576.0	7652.2	6813.9	6011.8
15°	15678.4	14696.0	13695.5	12699.5	11694.6	10707.6	9743.2	8805.9	7891.0	7021.3	6192.0
12.5°	16142.6	15124.1	14087.6	13055.6	12023.6	11000.6	10004.6	9035.7	8098.3	7197.0	6345.3
10°	16525.6	15484.6	14416.5	13353.0	12293.9	11243.9	10216.4	9229.5	8269.6	7345.7	6471.4
7.5°	16836.6	15768.5	14682.4	13587.3	12505.8	11433.2	10387.7	9378.2	8404.8	7458.4	6570.6
5°	17057.4	15975.8	14871.7	13754.1	12659.0	11572.9	10509.3	9486.3	8499.4	7539.5	6642.7
2.5°	17197.1	16142.6	15024.9	13893.8	12785.2	11685.6	10608.5	9572.0	8576.0	7607.1	6701.3
0°	17242.2	16142.6	15024.9	13893.8	12785.2	11685.6	10608.5	9572.0	8576.0	7607.1	6701.3

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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°	108.2	99.1	90.1	85.6	76.6	72.1	63.1	54.1	49.6	40.6	31.5
85°	216.3	198.3	184.8	171.3	157.7	139.7	126.2	112.7	94.6	81.1	63.1
82.5°	329.0	306.4	283.9	261.4	238.8	216.3	189.3	166.7	144.2	121.7	94.6
80°	455.2	419.1	387.6	356.0	324.5	292.9	256.9	225.3	189.3	157.7	126.2
77.5°	585.9	545.3	500.2	455.2	410.1	369.5	324.5	283.9	243.4	198.3	157.7
75°	725.6	671.5	621.9	563.3	509.2	450.7	396.6	342.5	292.9	243.4	189.3
72.5°	869.8	802.2	734.6	671.5	603.9	536.3	473.2	405.6	342.5	283.9	225.3
70°	1018.5	937.4	856.3	779.6	703.0	621.9	549.8	473.2	396.6	324.5	256.9
67.5°	1176.2	1081.6	986.9	887.8	802.2	712.0	621.9	536.3	450.7	369.5	292.9
65°	1347.5	1234.8	1117.6	1014.0	901.3	802.2	703.0	603.9	509.2	410.1	324.5
62.5°	1523.2	1392.5	1261.8	1131.2	1014.0	887.8	779.6	671.5	563.3	455.2	356.0
60°	1703.5	1554.8	1406.1	1261.8	1117.6	986.9	856.3	734.6	621.9	500.2	387.6
57.5°	1888.3	1721.5	1554.8	1392.5	1234.8	1081.6	937.4	802.2	671.5	545.3	419.1
55°	2077.5	1888.3	1703.5	1523.2	1347.5	1176.2	1018.5	869.8	725.6	585.9	455.2
52.5°	2266.8	2059.5	1852.2	1658.4	1473.7	1279.9	1099.6	932.9	775.1	630.9	486.7
50°	2460.6	2226.3	2005.4	1789.1	1577.3	1374.5	1180.7	1000.5	829.2	671.5	518.3
47.5°	2658.9	2402.0	2154.1	1919.8	1694.5	1473.7	1261.8	1063.6	878.8	712.0	549.8
45°	2870.7	2573.3	2307.4	2055.0	1807.1	1572.8	1343.0	1126.6	932.9	752.6	581.3
42.5°	3078.0	2758.0	2460.6	2194.7	1919.8	1667.4	1424.1	1194.2	982.4	788.7	608.4
40°	3312.3	2942.8	2604.8	2311.9	2028.0	1757.6	1500.7	1257.3	1032.0	824.7	635.4
37.5°	3537.7	3123.1	2767.0	2438.1	2131.6	1847.7	1577.3	1320.4	1081.6	860.8	662.5
35°	3767.5	3321.3	2915.8	2555.2	2235.3	1937.8	1649.4	1379.0	1122.1	892.3	689.5
32.5°	4001.8	3510.6	3073.5	2681.4	2338.9	2018.9	1717.0	1433.1	1167.2	928.4	712.0
30°	4227.2	3690.9	3222.2	2803.1	2433.6	2100.1	1784.6	1487.2	1212.3	959.9	734.6
27.5°	4457.0	3880.2	3370.9	2915.8	2523.7	2172.2	1843.2	1536.7	1252.8	991.4	757.1
25°	4677.8	4060.4	3510.6	3023.9	2604.8	2244.3	1906.3	1586.3	1288.9	1018.5	775.1
22.5°	4880.6	4218.2	3636.8	3127.6	2690.4	2307.4	1960.4	1631.4	1324.9	1045.5	793.2
20°	5065.4	4380.4	3767.5	3231.2	2771.5	2370.5	2005.4	1671.9	1356.5	1068.1	811.2
17.5°	5245.7	4529.1	3884.7	3325.9	2839.1	2424.5	2050.5	1703.5	1383.5	1086.1	824.7
15°	5398.9	4659.8	3988.3	3407.0	2902.2	2469.6	2086.5	1735.0	1406.1	1104.1	833.7
12.5°	5534.1	4772.5	4078.5	3474.6	2951.8	2510.2	2122.6	1762.1	1428.6	1117.6	847.2
10°	5642.2	4862.6	4150.6	3533.2	2996.9	2541.7	2145.1	1784.6	1442.1	1131.2	856.3
7.5°	5727.9	4934.7	4209.1	3573.7	3028.4	2568.8	2167.7	1798.1	1455.6	1140.2	869.8
5°	5791.0	4988.8	4249.7	3605.3	3055.5	2600.3	2194.7	1820.7	1473.7	1153.7	869.8
2.5°	5840.5	5029.3	4281.3	3632.3	3073.5	2600.3	2194.7	1820.7	1473.7	1153.7	869.8
0°	5840.5	5029.3	4281.3	3632.3	3073.5	2600.3	2194.7	1820.7	1473.7	1153.7	869.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.5	18.0	9.0	0.0
85°	49.6	31.5	18.0	0.0
82.5°	72.1	49.6	22.5	0.0
80°	94.6	63.1	31.5	0.0
77.5°	121.7	81.1	40.6	0.0
75°	144.2	94.6	49.6	0.0
72.5°	166.7	112.7	54.1	0.0
70°	189.3	126.2	63.1	0.0
67.5°	216.3	139.7	72.1	0.0
65°	238.8	157.7	76.6	0.0
62.5°	261.4	171.3	85.6	0.0
60°	283.9	184.8	90.1	0.0
57.5°	306.4	198.3	99.1	0.0
55°	329.0	216.3	108.2	0.0
52.5°	351.5	229.8	112.7	0.0
50°	374.0	243.4	117.2	0.0
47.5°	392.1	256.9	126.2	0.0
45°	414.6	270.4	130.7	0.0
42.5°	437.1	279.4	135.2	0.0
40°	455.2	292.9	139.7	0.0
37.5°	477.7	301.9	148.7	0.0
35°	495.7	315.5	153.2	0.0
32.5°	509.2	324.5	157.7	0.0
30°	527.3	333.5	162.2	0.0
27.5°	540.8	342.5	162.2	0.0
25°	554.3	351.5	166.7	0.0
22.5°	567.8	356.0	171.3	0.0
20°	581.3	365.0	175.8	0.0
17.5°	590.4	369.5	175.8	0.0
15°	599.4	374.0	184.8	0.0
12.5°	603.9	378.6	184.8	0.0
10°	612.9	387.6	184.8	0.0
7.5°	621.9	387.6	184.8	0.0
5°	621.9	387.6	184.8	0.0
2.5°	621.9	387.6	184.8	0.0
0°	621.9	387.6	184.8	0.0

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