

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: P623982

Luminaire Tested: **IFLD-L-SA8B-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623982
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	43220.6 lumens	Max Intensity:	24004.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	135.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	18701.1 lumens	Field Lumens:	30622.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

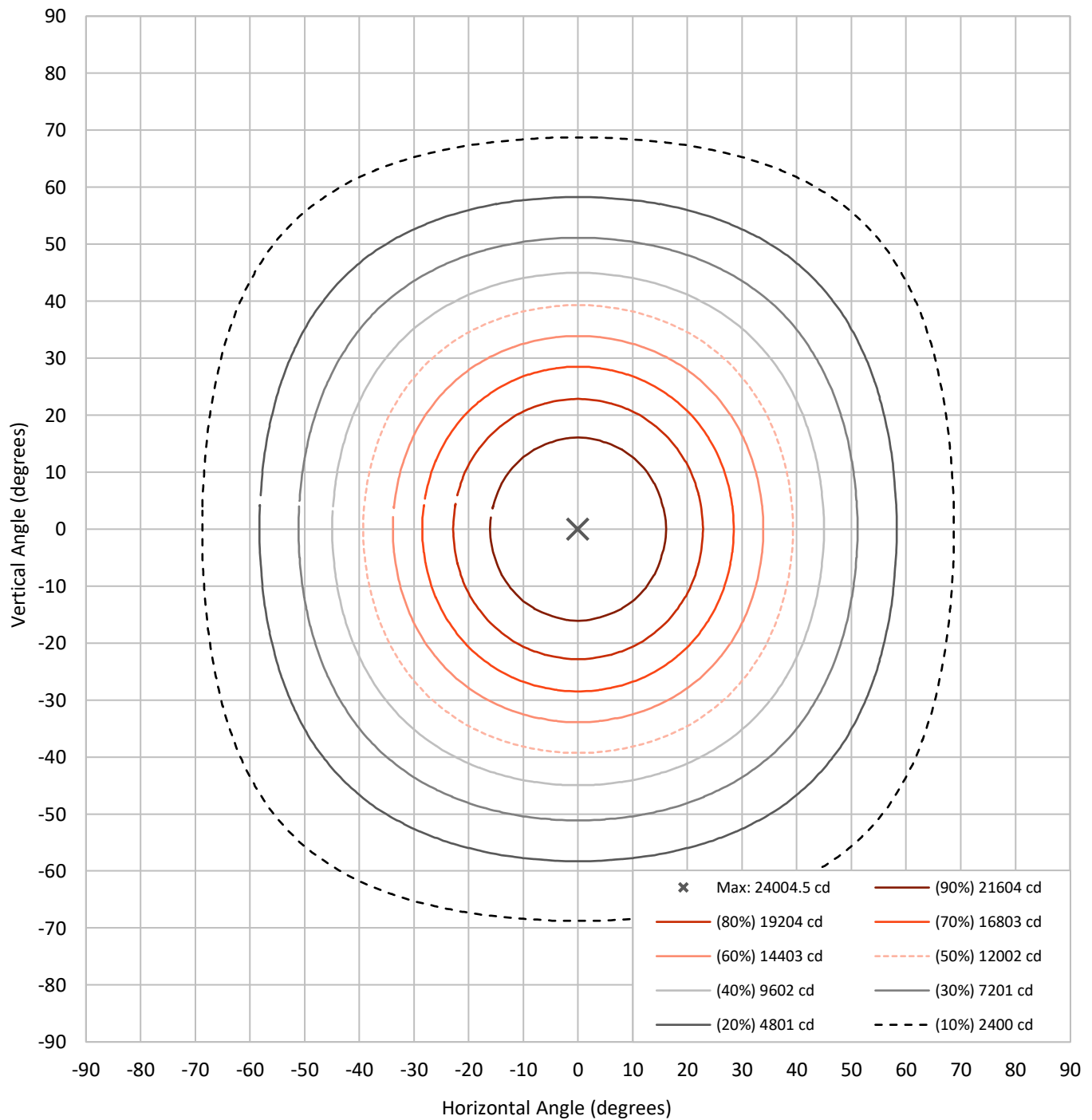
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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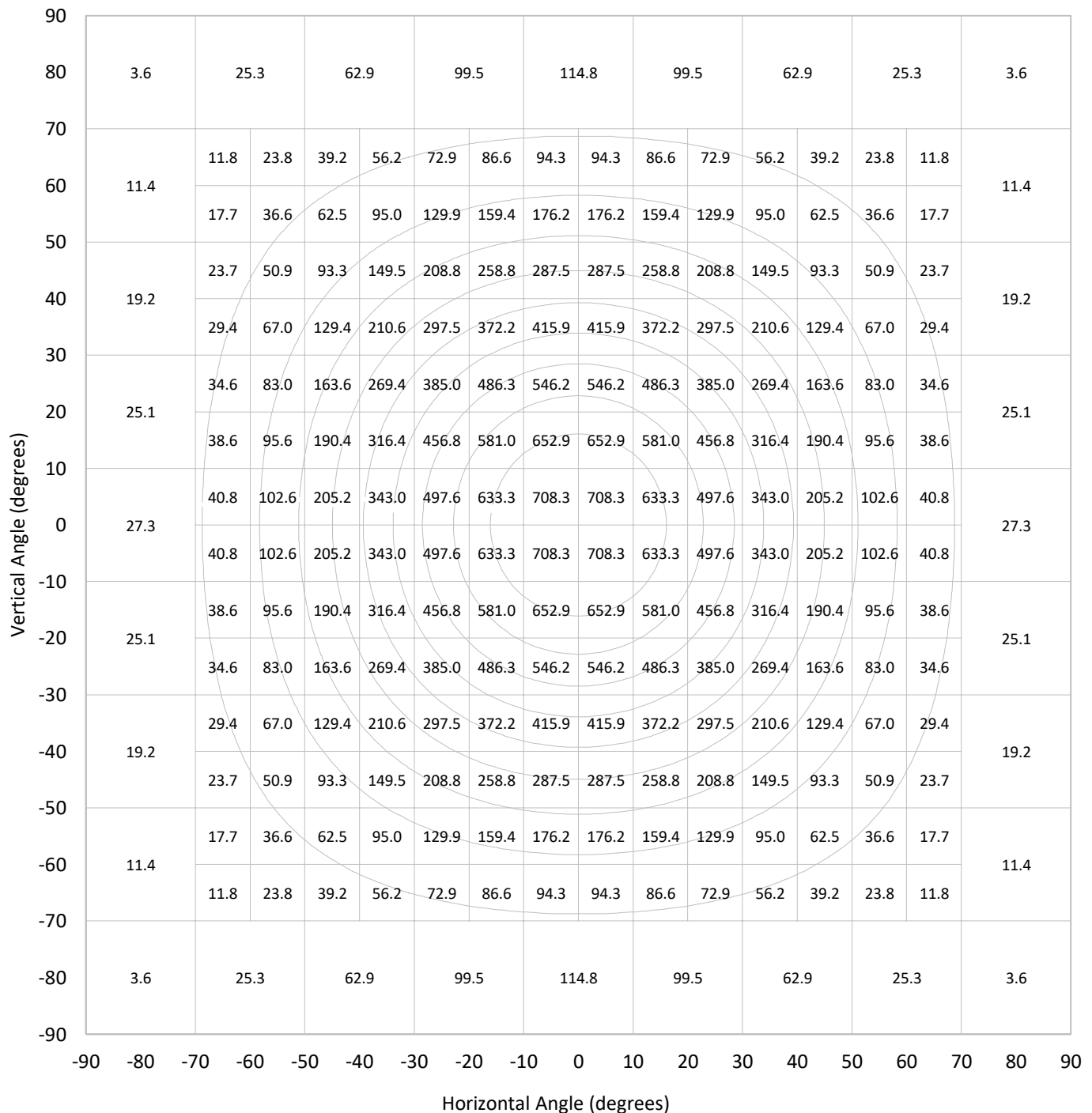
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Iso-Candela Plot



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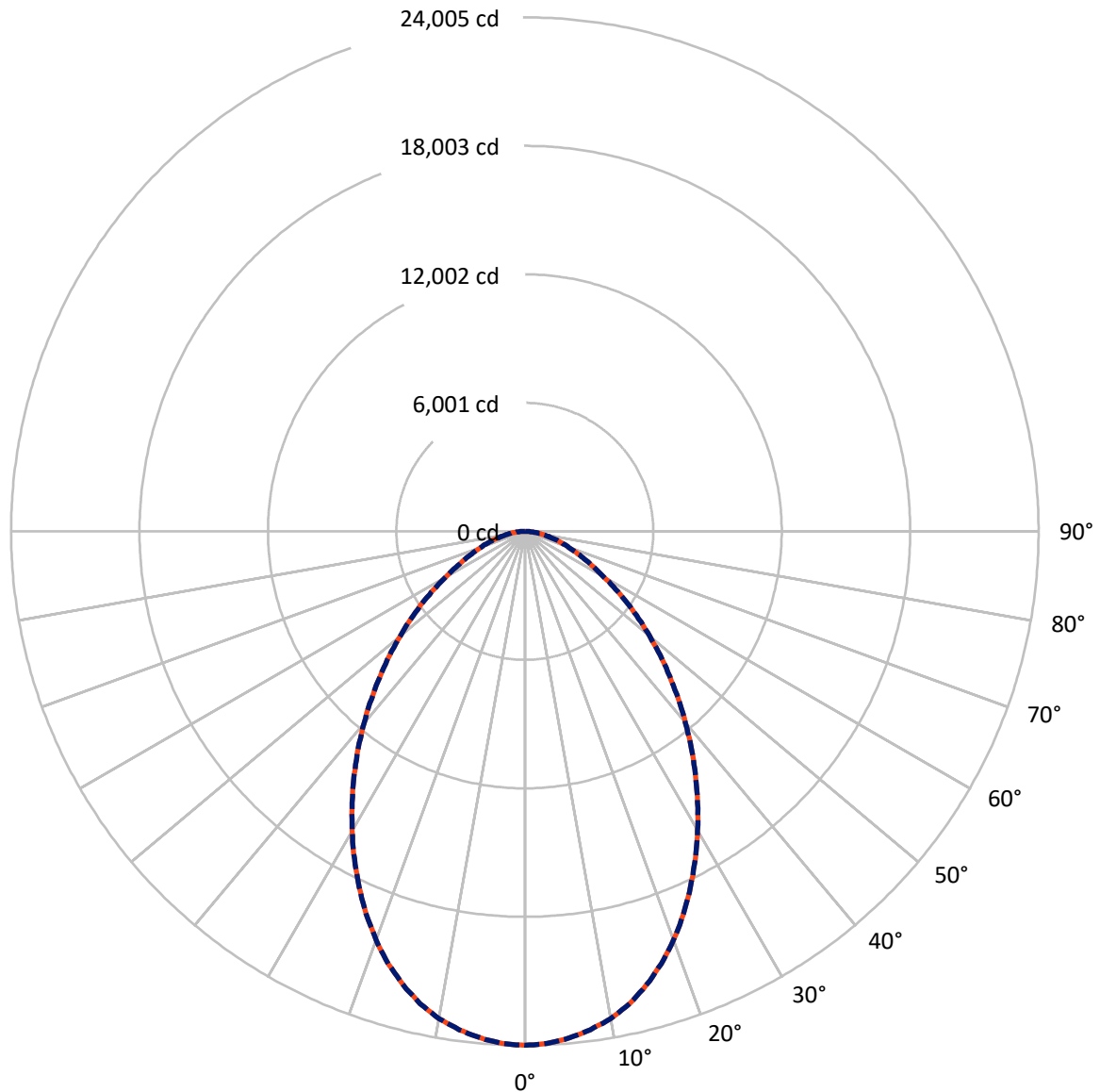
Lumen Table



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Luminous Intensity Polar Plot

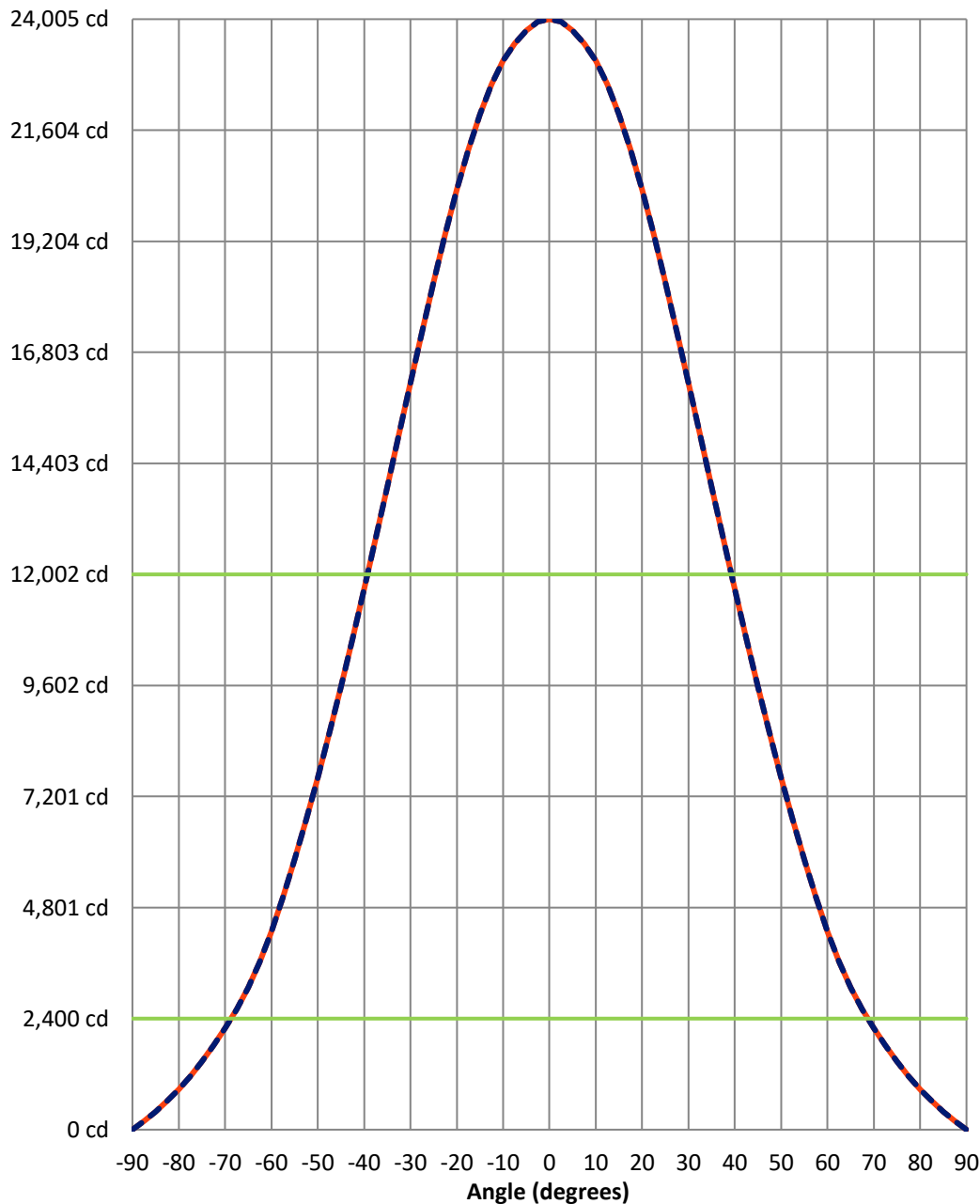


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 18701.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 30622.4
Efficiency: 70.9%

Spill:

Lumens: 12598.1
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	175.7	175.7	171.2	166.7
85°	387.5	387.5	387.5	387.5	387.5	378.5	374.0	369.5	365.0	356.0	351.5
82.5°	621.9	621.9	621.9	621.9	612.8	603.8	599.3	590.3	581.3	567.8	554.3
80°	869.7	869.7	869.7	869.7	856.2	847.2	833.6	824.6	811.1	793.1	775.1
77.5°	1153.6	1153.6	1153.6	1140.1	1131.1	1117.5	1104.0	1086.0	1068.0	1045.4	1018.4
75°	1473.5	1473.5	1473.5	1455.5	1442.0	1428.5	1405.9	1383.4	1356.4	1324.8	1288.8
72.5°	1820.5	1820.5	1820.5	1798.0	1784.5	1761.9	1734.9	1703.3	1671.8	1631.2	1586.2
70°	2194.5	2194.5	2194.5	2167.5	2144.9	2122.4	2086.4	2050.3	2005.3	1960.2	1906.1
67.5°	2600.1	2600.1	2600.1	2568.5	2541.5	2509.9	2469.4	2424.3	2370.3	2307.2	2244.1
65°	3073.2	3073.2	3055.2	3028.2	2996.6	2951.6	2902.0	2838.9	2771.3	2690.2	2604.6
62.5°	3632.0	3632.0	3604.9	3573.4	3532.9	3474.3	3406.7	3325.6	3230.9	3127.3	3023.7
60°	4280.9	4280.9	4249.3	4208.8	4150.2	4078.1	3988.0	3884.3	3767.2	3636.5	3510.3
57.5°	5028.9	5028.9	4988.3	4934.3	4862.2	4772.1	4659.4	4528.7	4380.0	4217.8	4060.1
55°	5840.0	5840.0	5790.5	5727.4	5641.7	5533.6	5398.4	5245.2	5065.0	4880.2	4677.4
52.5°	6700.7	6700.7	6642.1	6570.0	6470.9	6344.7	6191.5	6011.3	5804.0	5587.7	5348.8
50°	7606.4	7606.4	7538.9	7457.7	7345.1	7196.4	7020.6	6813.4	6583.5	6331.2	6056.3
47.5°	8575.3	8575.3	8498.7	8404.0	8268.9	8097.6	7890.3	7651.5	7390.1	7106.3	6795.3
45°	9571.1	9571.1	9485.5	9377.4	9228.7	9034.9	8805.1	8575.3	8241.8	7912.9	7552.4
42.5°	10607.6	10607.6	10508.4	10386.8	10215.5	10003.7	9742.4	9445.0	9116.0	8746.5	8354.5
40°	11684.5	11684.5	11571.9	11432.2	11242.9	10999.6	10706.7	10373.2	10003.7	9593.7	9161.1
37.5°	12784.1	12784.1	12657.9	12504.7	12292.9	12022.5	11693.6	11324.0	10909.5	10454.4	9976.7
35°	13892.6	13892.6	13752.9	13586.2	13351.8	13054.4	12698.4	12288.4	11828.7	11333.1	10796.8
32.5°	15023.6	15023.6	14870.4	14681.2	14415.3	14086.3	13694.3	13248.2	12784.1	12207.3	11621.5
30°	16141.2	16141.2	15974.4	15767.1	15483.3	15122.8	14694.7	14203.5	13658.3	13067.9	12437.1
27.5°	17240.7	17195.6	17055.9	16835.1	16524.2	16141.2	15677.0	15145.3	14555.0	13906.1	13230.2
25°	18322.2	18272.6	18119.4	17876.0	17542.6	17123.5	16623.3	16055.5	15420.2	14735.2	13996.2
22.5°	19358.6	19304.5	19142.3	18880.9	18524.9	18069.8	17533.6	16925.2	16249.3	15514.8	14735.2
20°	20318.4	20259.8	20093.1	19818.2	19448.7	18966.5	18398.8	17745.4	17024.4	16249.3	15420.2
17.5°	21183.6	21125.0	20949.3	20665.4	20318.4	19782.2	19196.4	18506.9	17745.4	16925.2	16055.5
15°	21945.1	21882.0	21701.8	21417.9	21021.4	20516.7	19899.3	19196.4	18398.8	17533.6	16623.3
12.5°	22594.0	22530.9	22346.2	22062.3	21652.2	21147.5	20516.7	19782.2	18966.5	18069.8	17123.5
10°	23107.7	23044.6	22868.9	22598.5	22174.9	21652.2	21021.4	20318.4	19448.7	18524.9	17542.6
7.5°	23477.2	23418.7	23256.4	22986.1	22598.5	22062.3	21417.9	20665.4	19818.2	18880.9	17876.0
5°	23756.6	23689.0	23526.8	23256.4	22868.9	22346.2	21701.8	20949.3	20093.1	19142.3	18119.4
2.5°	23950.4	23869.3	23689.0	23418.7	23044.6	22530.9	21882.0	21125.0	20259.8	19304.5	18272.6
0°	24004.5	23950.4	23756.6	23477.2	23107.7	22594.0	21945.1	21183.6	20318.4	19358.6	18322.2

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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°	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	324.4	315.4	301.9	292.9	279.4	270.4	256.9	243.3	229.8
82.5°	540.7	527.2	509.2	495.7	477.7	455.1	437.1	414.6	392.0	374.0	351.5
80°	757.0	734.5	712.0	689.4	662.4	635.4	608.3	581.3	549.8	518.2	486.7
77.5°	991.4	959.8	928.3	892.2	860.7	824.6	788.6	752.5	712.0	671.4	630.9
75°	1252.7	1212.2	1167.1	1122.0	1081.5	1031.9	982.3	932.8	878.7	829.1	775.1
72.5°	1536.6	1487.0	1433.0	1378.9	1320.3	1257.2	1194.1	1126.5	1063.5	1000.4	932.8
70°	1843.0	1784.5	1716.9	1649.3	1577.2	1500.6	1424.0	1342.8	1261.7	1180.6	1099.5
67.5°	2172.0	2099.9	2018.8	1937.7	1847.5	1757.4	1667.3	1572.7	1473.5	1374.4	1279.8
65°	2523.5	2433.3	2338.7	2235.1	2131.4	2027.8	1919.6	1807.0	1694.3	1577.2	1473.5
62.5°	2915.5	2802.8	2681.2	2555.0	2437.8	2311.7	2194.5	2054.8	1919.6	1789.0	1658.3
60°	3370.6	3221.9	3073.2	2915.5	2766.8	2604.6	2460.4	2307.2	2154.0	2005.3	1852.0
57.5°	3879.8	3690.6	3510.3	3321.1	3122.8	2942.5	2757.8	2573.0	2401.8	2226.1	2059.3
55°	4456.6	4226.8	4001.5	3767.2	3537.4	3312.0	3077.7	2870.4	2658.7	2460.4	2266.6
52.5°	5087.5	4826.1	4546.7	4280.9	3988.0	3708.6	3447.2	3185.9	2938.0	2699.2	2478.4
50°	5763.4	5457.0	5137.1	4812.6	4479.1	4150.2	3834.8	3528.3	3239.9	2960.6	2699.2
47.5°	6466.4	6119.4	5754.4	5384.9	5028.9	4627.9	4249.3	3902.4	3555.4	3239.9	2938.0
45°	7187.4	6795.3	6394.3	5975.2	5556.1	5123.5	4704.5	4280.9	3902.4	3528.3	3185.9
42.5°	7930.9	7489.3	7043.2	6579.0	6114.9	5641.7	5168.6	4704.5	4249.3	3834.8	3447.2
40°	8696.9	8210.3	7701.1	7196.4	6700.7	6160.0	5641.7	5123.5	4627.9	4150.2	3708.6
37.5°	9463.0	8931.3	8381.5	7813.7	7245.9	6700.7	6114.9	5556.1	5028.9	4479.1	3988.0
35°	10233.6	9647.7	9052.9	8435.6	7813.7	7196.4	6579.0	5975.2	5384.9	4812.6	4280.9
32.5°	11008.6	10368.7	9710.8	9052.9	8381.5	7701.1	7043.2	6394.3	5754.4	5137.1	4546.7
30°	11770.2	11076.2	10368.7	9647.7	8931.3	8210.3	7489.3	6795.3	6119.4	5457.0	4826.1
27.5°	12513.7	11770.2	11008.6	10233.6	9463.0	8696.9	7930.9	7187.4	6466.4	5763.4	5087.5
25°	13230.2	12437.1	11621.5	10796.8	9976.7	9161.1	8354.5	7552.4	6795.3	6056.3	5348.8
22.5°	13906.1	13067.9	12207.3	11333.1	10454.4	9593.7	8746.5	7912.9	7106.3	6331.2	5587.7
20°	14555.0	13658.3	12784.1	11828.7	10909.5	10003.7	9116.0	8241.8	7390.1	6583.5	5804.0
17.5°	15145.3	14203.5	13248.2	12288.4	11324.0	10373.2	9445.0	8575.3	7651.5	6813.4	6011.3
15°	15677.0	14694.7	13694.3	12698.4	11693.6	10706.7	9742.4	8805.1	7890.3	7020.6	6191.5
12.5°	16141.2	15122.8	14086.3	13054.4	12022.5	10999.6	10003.7	9034.9	8097.6	7196.4	6344.7
10°	16524.2	15483.3	14415.3	13351.8	12292.9	11242.9	10215.5	9228.7	8268.9	7345.1	6470.9
7.5°	16835.1	15767.1	14681.2	13586.2	12504.7	11432.2	10386.8	9377.4	8404.0	7457.7	6570.0
5°	17055.9	15974.4	14870.4	13752.9	12657.9	11571.9	10508.4	9485.5	8498.7	7538.9	6642.1
2.5°	17195.6	16141.2	15023.6	13892.6	12784.1	11684.5	10607.6	9571.1	8575.3	7606.4	6700.7
0°	17240.7	16141.2	15023.6	13892.6	12784.1	11684.5	10607.6	9571.1	8575.3	7606.4	6700.7

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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°	108.1	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	171.2	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°	455.1	419.1	387.5	356.0	324.4	292.9	256.9	225.3	189.3	157.7	126.2
77.5°	585.8	545.2	500.2	455.1	410.1	369.5	324.4	283.9	243.3	198.3	157.7
75°	725.5	671.4	621.9	563.3	509.2	450.6	396.5	342.5	292.9	243.3	189.3
72.5°	869.7	802.1	734.5	671.4	603.8	536.2	473.1	405.6	342.5	283.9	225.3
70°	1018.4	937.3	856.2	779.6	703.0	621.9	549.8	473.1	396.5	324.4	256.9
67.5°	1176.1	1081.5	986.9	887.7	802.1	712.0	621.9	536.2	450.6	369.5	292.9
65°	1347.3	1234.7	1117.5	1013.9	901.2	802.1	703.0	603.8	509.2	410.1	324.4
62.5°	1523.1	1392.4	1261.7	1131.1	1013.9	887.7	779.6	671.4	563.3	455.1	356.0
60°	1703.3	1554.6	1405.9	1261.7	1117.5	986.9	856.2	734.5	621.9	500.2	387.5
57.5°	1888.1	1721.4	1554.6	1392.4	1234.7	1081.5	937.3	802.1	671.4	545.2	419.1
55°	2077.4	1888.1	1703.3	1523.1	1347.3	1176.1	1018.4	869.7	725.5	585.8	455.1
52.5°	2266.6	2059.3	1852.0	1658.3	1473.5	1279.8	1099.5	932.8	775.1	630.9	486.7
50°	2460.4	2226.1	2005.3	1789.0	1577.2	1374.4	1180.6	1000.4	829.1	671.4	518.2
47.5°	2658.7	2401.8	2154.0	1919.6	1694.3	1473.5	1261.7	1063.5	878.7	712.0	549.8
45°	2870.4	2573.0	2307.2	2054.8	1807.0	1572.7	1342.8	1126.5	932.8	752.5	581.3
42.5°	3077.7	2757.8	2460.4	2194.5	1919.6	1667.3	1424.0	1194.1	982.3	788.6	608.3
40°	3312.0	2942.5	2604.6	2311.7	2027.8	1757.4	1500.6	1257.2	1031.9	824.6	635.4
37.5°	3537.4	3122.8	2766.8	2437.8	2131.4	1847.5	1577.2	1320.3	1081.5	860.7	662.4
35°	3767.2	3321.1	2915.5	2555.0	2235.1	1937.7	1649.3	1378.9	1122.0	892.2	689.4
32.5°	4001.5	3510.3	3073.2	2681.2	2338.7	2018.8	1716.9	1433.0	1167.1	928.3	712.0
30°	4226.8	3690.6	3221.9	2802.8	2433.3	2099.9	1784.5	1487.0	1212.2	959.8	734.5
27.5°	4456.6	3879.8	3370.6	2915.5	2523.5	2172.0	1843.0	1536.6	1252.7	991.4	757.0
25°	4677.4	4060.1	3510.3	3023.7	2604.6	2244.1	1906.1	1586.2	1288.8	1018.4	775.1
22.5°	4880.2	4217.8	3636.5	3127.3	2690.2	2307.2	1960.2	1631.2	1324.8	1045.4	793.1
20°	5065.0	4380.0	3767.2	3230.9	2771.3	2370.3	2005.3	1671.8	1356.4	1068.0	811.1
17.5°	5245.2	4528.7	3884.3	3325.6	2838.9	2424.3	2050.3	1703.3	1383.4	1086.0	824.6
15°	5398.4	4659.4	3988.0	3406.7	2902.0	2469.4	2086.4	1734.9	1405.9	1104.0	833.6
12.5°	5533.6	4772.1	4078.1	3474.3	2951.6	2509.9	2122.4	1761.9	1428.5	1117.5	847.2
10°	5641.7	4862.2	4150.2	3532.9	2996.6	2541.5	2144.9	1784.5	1442.0	1131.1	856.2
7.5°	5727.4	4934.3	4208.8	3573.4	3028.2	2568.5	2167.5	1798.0	1455.5	1140.1	869.7
5°	5790.5	4988.3	4249.3	3604.9	3055.2	2600.1	2194.5	1820.5	1473.5	1153.6	869.7
2.5°	5840.0	5028.9	4280.9	3632.0	3073.2	2600.1	2194.5	1820.5	1473.5	1153.6	869.7
0°	5840.0	5028.9	4280.9	3632.0	3073.2	2600.1	2194.5	1820.5	1473.5	1153.6	869.7

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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	171.2	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	108.1	0.0
52.5°	351.5	229.8	112.7	0.0
50°	374.0	243.3	117.2	0.0
47.5°	392.0	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°	455.1	292.9	139.7	0.0
37.5°	477.7	301.9	148.7	0.0
35°	495.7	315.4	153.2	0.0
32.5°	509.2	324.4	157.7	0.0
30°	527.2	333.5	162.2	0.0
27.5°	540.7	342.5	162.2	0.0
25°	554.3	351.5	166.7	0.0
22.5°	567.8	356.0	171.2	0.0
20°	581.3	365.0	175.7	0.0
17.5°	590.3	369.5	175.7	0.0
15°	599.3	374.0	184.8	0.0
12.5°	603.8	378.5	184.8	0.0
10°	612.8	387.5	184.8	0.0
7.5°	621.9	387.5	184.8	0.0
5°	621.9	387.5	184.8	0.0
2.5°	621.9	387.5	184.8	0.0
0°	621.9	387.5	184.8	0.0

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