

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: P623937

Luminaire Tested: **IFLD-S-SA6A-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623937
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

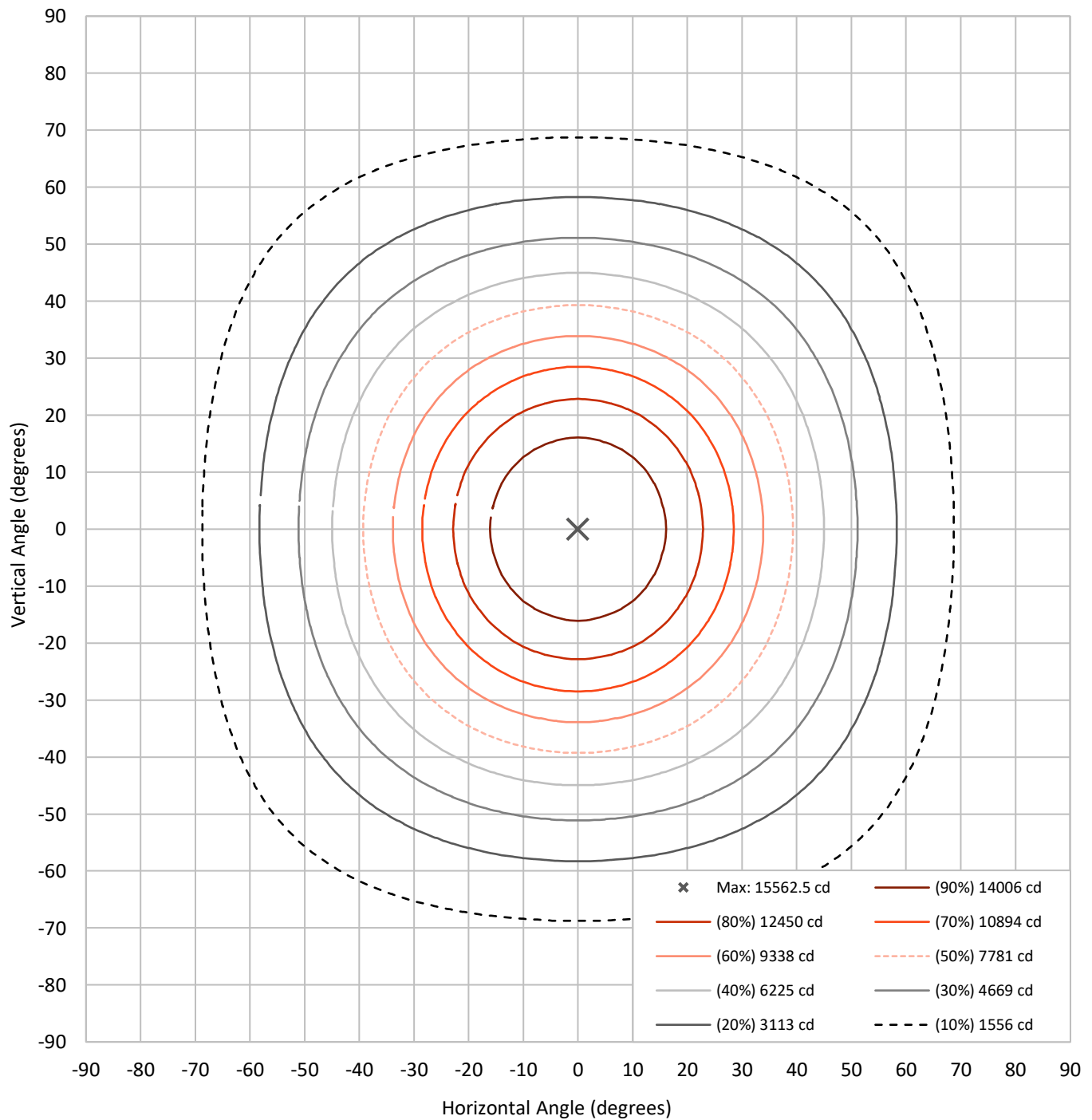
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	28020.7 lumens	Max Intensity:	15562.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.8 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:	12124.3 lumens	Field Lumens:	19853.1 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		



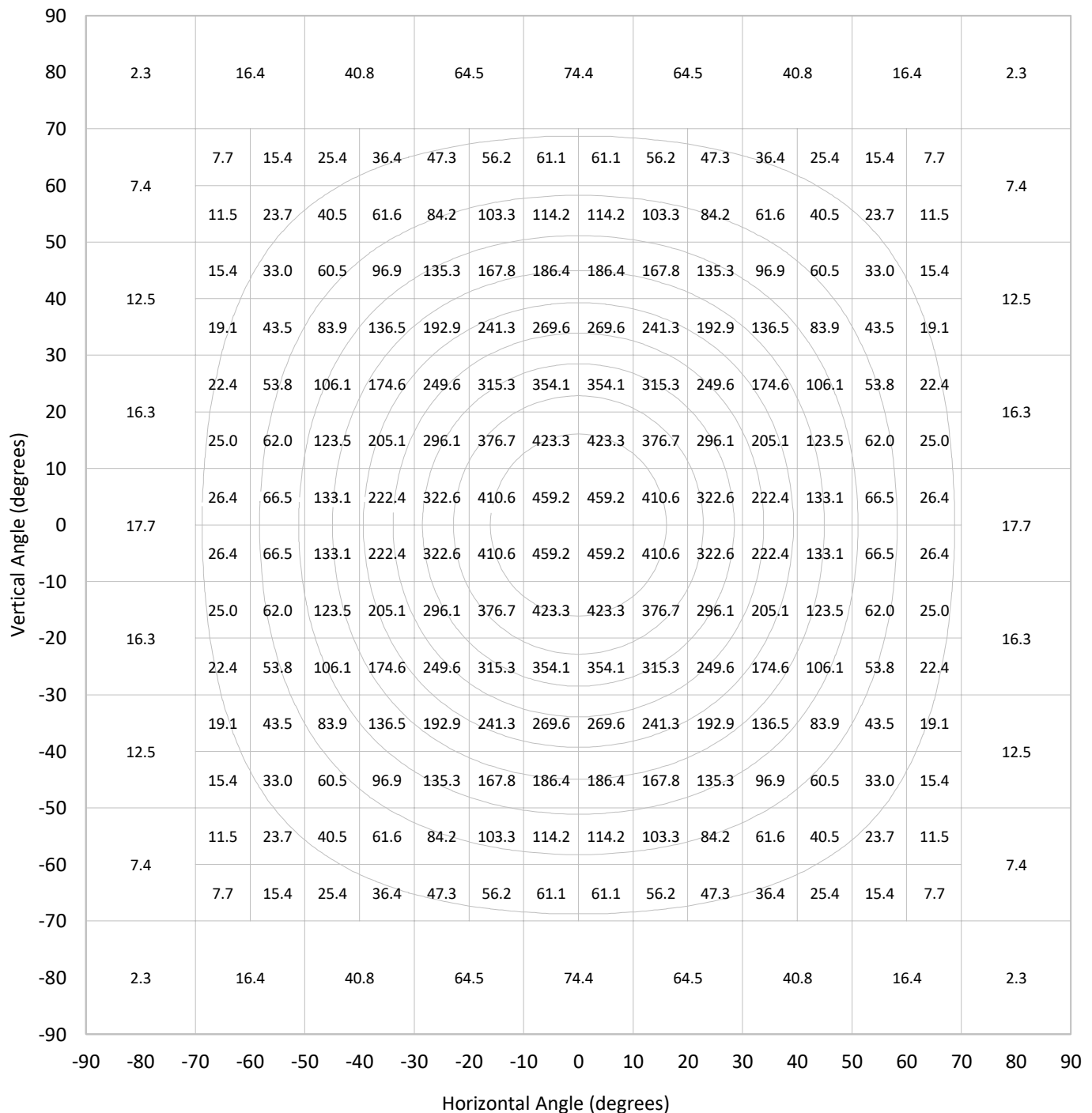
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Iso-Candela Plot



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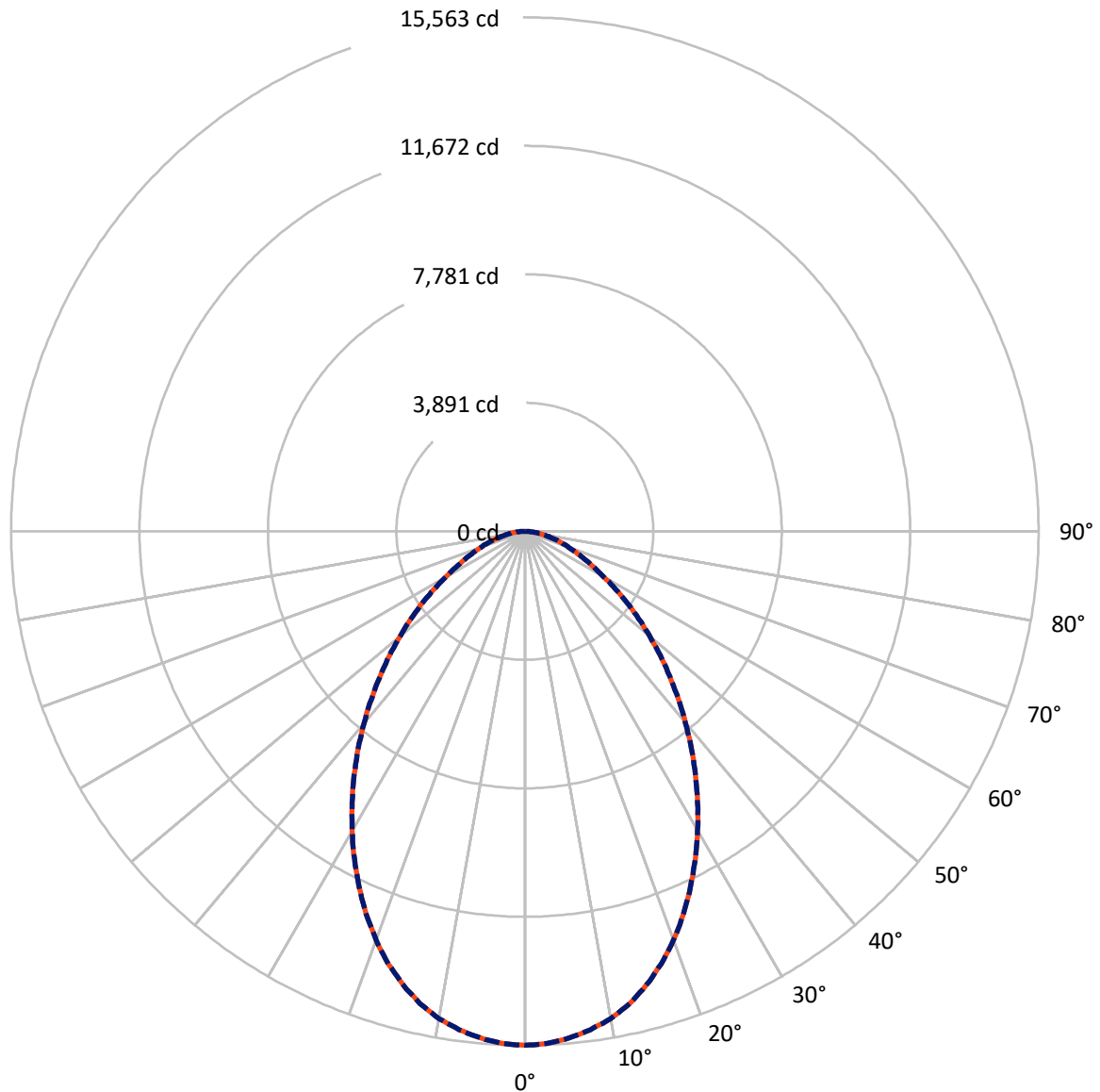
Lumen Table



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Luminous Intensity Polar Plot

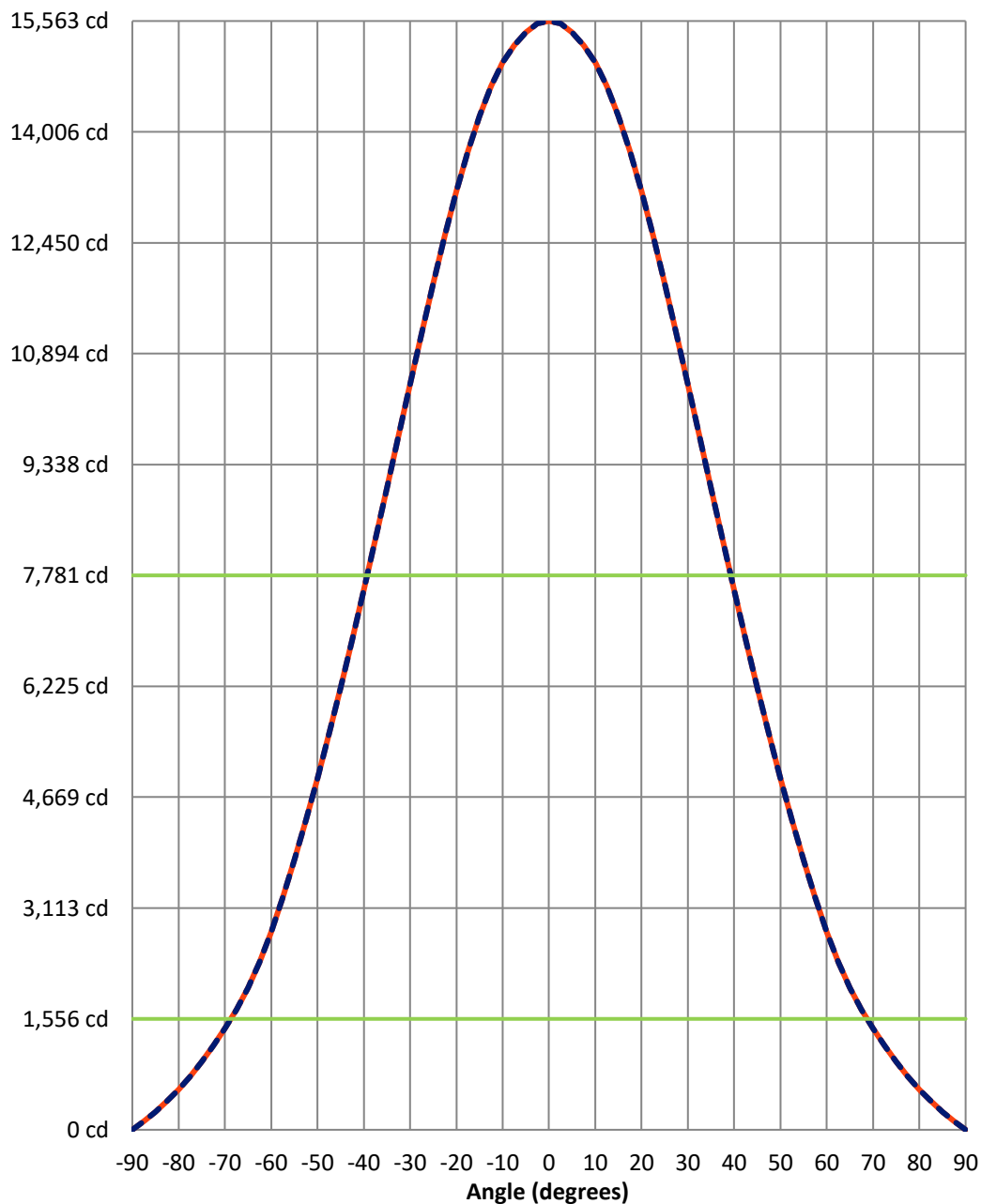


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 12124.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 19853.1
Efficiency: 70.9%

Spill:

Lumens: 8167.6
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°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	113.9	113.9	111.0	108.1
85°	251.2	251.2	251.2	251.2	251.2	245.4	242.5	239.6	236.6	230.8	227.9
82.5°	403.2	403.2	403.2	403.2	397.3	391.5	388.6	382.7	376.9	368.1	359.3
80°	563.8	563.8	563.8	563.8	555.1	549.2	540.5	534.6	525.9	514.2	502.5
77.5°	747.9	747.9	747.9	739.1	733.3	724.5	715.8	704.1	692.4	677.8	660.2
75°	955.3	955.3	955.3	943.6	934.9	926.1	911.5	896.9	879.4	858.9	835.5
72.5°	1180.3	1180.3	1180.3	1165.7	1156.9	1142.3	1124.8	1104.3	1083.9	1057.6	1028.3
70°	1422.7	1422.7	1422.7	1405.2	1390.6	1376.0	1352.6	1329.3	1300.0	1270.8	1235.8
67.5°	1685.7	1685.7	1685.7	1665.2	1647.7	1627.2	1601.0	1571.7	1536.7	1495.8	1454.9
65°	1992.4	1992.4	1980.7	1963.2	1942.8	1913.5	1881.4	1840.5	1796.7	1744.1	1688.6
62.5°	2354.7	2354.7	2337.2	2316.7	2290.4	2252.4	2208.6	2156.0	2094.7	2027.5	1960.3
60°	2775.4	2775.4	2754.9	2728.6	2690.7	2643.9	2585.5	2518.3	2442.3	2357.6	2275.8
57.5°	3260.3	3260.3	3234.0	3199.0	3152.2	3093.8	3020.8	2936.1	2839.6	2734.5	2632.2
55°	3786.2	3786.2	3754.1	3713.2	3657.6	3587.5	3499.9	3400.6	3283.7	3163.9	3032.5
52.5°	4344.2	4344.2	4306.2	4259.5	4195.2	4113.4	4014.1	3897.2	3762.8	3622.6	3467.8
50°	4931.4	4931.4	4887.6	4835.0	4762.0	4665.5	4551.6	4417.2	4268.2	4104.6	3926.4
47.5°	5559.5	5559.5	5509.8	5448.5	5360.9	5249.8	5115.4	4960.6	4791.2	4607.1	4405.5
45°	6205.1	6205.1	6149.6	6079.5	5983.1	5857.5	5708.5	5559.5	5343.3	5130.1	4896.3
42.5°	6877.1	6877.1	6812.8	6733.9	6622.9	6485.6	6316.2	6123.3	5910.1	5670.5	5416.4
40°	7575.3	7575.3	7502.3	7411.7	7289.0	7131.2	6941.4	6725.2	6485.6	6219.8	5939.3
37.5°	8288.1	8288.1	8206.3	8107.0	7969.7	7794.4	7581.1	7341.6	7072.8	6777.8	6468.1
35°	9006.8	9006.8	8916.2	8808.2	8656.2	8463.4	8232.6	7966.8	7668.8	7347.4	6999.8
32.5°	9740.1	9740.1	9640.8	9518.1	9345.7	9132.4	8878.3	8589.0	8288.1	7914.2	7534.4
30°	10464.6	10464.6	10356.5	10222.1	10038.1	9804.4	9526.8	9208.4	8854.9	8472.2	8063.2
27.5°	11177.4	11148.2	11057.7	10914.5	10712.9	10464.6	10163.7	9819.0	9436.3	9015.6	8577.4
25°	11878.6	11846.5	11747.1	11589.4	11373.2	11101.5	10777.2	10409.1	9997.2	9553.1	9074.0
22.5°	12550.5	12515.5	12410.3	12240.9	12010.1	11715.0	11367.3	10972.9	10534.7	10058.5	9553.1
20°	13172.8	13134.8	13026.7	12848.5	12609.0	12296.4	11928.3	11504.6	11037.2	10534.7	9997.2
17.5°	13733.7	13695.7	13581.8	13397.7	13172.8	12825.1	12445.4	11998.4	11504.6	10972.9	10409.1
15°	14227.4	14186.5	14069.7	13885.6	13628.5	13301.3	12901.1	12445.4	11928.3	11367.3	10777.2
12.5°	14648.1	14607.2	14487.4	14303.4	14037.5	13710.3	13301.3	12825.1	12296.4	11715.0	11101.5
10°	14981.2	14940.3	14826.3	14651.0	14376.4	14037.5	13628.5	13172.8	12609.0	12010.1	11373.2
7.5°	15220.7	15182.7	15077.6	14902.3	14651.0	14303.4	13885.6	13397.7	12848.5	12240.9	11589.4
5°	15401.9	15358.0	15252.9	15077.6	14826.3	14487.4	14069.7	13581.8	13026.7	12410.3	11747.1
2.5°	15527.5	15474.9	15358.0	15182.7	14940.3	14607.2	14186.5	13695.7	13134.8	12515.5	11846.5
0°	15562.5	15527.5	15401.9	15220.7	14981.2	14648.1	14227.4	13733.7	13172.8	12550.5	11878.6

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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°	105.2	105.2	102.3	99.3	96.4	90.6	87.6	84.7	81.8	76.0	73.0
85°	222.0	216.2	210.3	204.5	195.7	189.9	181.1	175.3	166.5	157.8	149.0
82.5°	350.6	341.8	330.1	321.4	309.7	295.1	283.4	268.8	254.2	242.5	227.9
80°	490.8	476.2	461.6	447.0	429.5	411.9	394.4	376.9	356.4	336.0	315.5
77.5°	642.7	622.3	601.8	578.4	558.0	534.6	511.3	487.9	461.6	435.3	409.0
75°	812.2	785.9	756.7	727.4	701.1	669.0	636.9	604.7	569.7	537.5	502.5
72.5°	996.2	964.1	929.0	894.0	856.0	815.1	774.2	730.4	689.5	648.6	604.7
70°	1194.9	1156.9	1113.1	1069.2	1022.5	972.8	923.2	870.6	818.0	765.4	712.8
67.5°	1408.1	1361.4	1308.8	1256.2	1197.8	1139.4	1080.9	1019.6	955.3	891.0	829.7
65°	1636.0	1577.6	1516.2	1449.0	1381.8	1314.6	1244.5	1171.5	1098.5	1022.5	955.3
62.5°	1890.2	1817.1	1738.3	1656.5	1580.5	1498.7	1422.7	1332.2	1244.5	1159.8	1075.1
60°	2185.2	2088.8	1992.4	1890.2	1793.8	1688.6	1595.1	1495.8	1396.5	1300.0	1200.7
57.5°	2515.4	2392.7	2275.8	2153.1	2024.6	1907.7	1787.9	1668.1	1557.1	1443.2	1335.1
55°	2889.3	2740.3	2594.2	2442.3	2293.3	2147.3	1995.3	1861.0	1723.7	1595.1	1469.5
52.5°	3298.3	3128.9	2947.7	2775.4	2585.5	2404.3	2234.9	2065.5	1904.8	1749.9	1606.8
50°	3736.5	3537.9	3330.4	3120.1	2903.9	2690.7	2486.1	2287.5	2100.5	1919.4	1749.9
47.5°	4192.3	3967.3	3730.7	3491.1	3260.3	3000.3	2754.9	2530.0	2305.0	2100.5	1904.8
45°	4659.7	4405.5	4145.5	3873.8	3602.1	3321.7	3050.0	2775.4	2530.0	2287.5	2065.5
42.5°	5141.7	4855.4	4566.2	4265.3	3964.4	3657.6	3350.9	3050.0	2754.9	2486.1	2234.9
40°	5638.4	5322.9	4992.7	4665.5	4344.2	3993.6	3657.6	3321.7	3000.3	2690.7	2404.3
37.5°	6135.0	5790.3	5433.9	5065.8	4697.7	4344.2	3964.4	3602.1	3260.3	2903.9	2585.5
35°	6634.6	6254.8	5869.2	5468.9	5065.8	4665.5	4265.3	3873.8	3491.1	3120.1	2775.4
32.5°	7137.1	6722.2	6295.7	5869.2	5433.9	4992.7	4566.2	4145.5	3730.7	3330.4	2947.7
30°	7630.8	7180.9	6722.2	6254.8	5790.3	5322.9	4855.4	4405.5	3967.3	3537.9	3128.9
27.5°	8112.9	7630.8	7137.1	6634.6	6135.0	5638.4	5141.7	4659.7	4192.3	3736.5	3298.3
25°	8577.4	8063.2	7534.4	6999.8	6468.1	5939.3	5416.4	4896.3	4405.5	3926.4	3467.8
22.5°	9015.6	8472.2	7914.2	7347.4	6777.8	6219.8	5670.5	5130.1	4607.1	4104.6	3622.6
20°	9436.3	8854.9	8288.1	7668.8	7072.8	6485.6	5910.1	5343.3	4791.2	4268.2	3762.8
17.5°	9819.0	9208.4	8589.0	7966.8	7341.6	6725.2	6123.3	5559.5	4960.6	4417.2	3897.2
15°	10163.7	9526.8	8878.3	8232.6	7581.1	6941.4	6316.2	5708.5	5115.4	4551.6	4014.1
12.5°	10464.6	9804.4	9132.4	8463.4	7794.4	7131.2	6485.6	5857.5	5249.8	4665.5	4113.4
10°	10712.9	10038.1	9345.7	8656.2	7969.7	7289.0	6622.9	5983.1	5360.9	4762.0	4195.2
7.5°	10914.5	10222.1	9518.1	8808.2	8107.0	7411.7	6733.9	6079.5	5448.5	4835.0	4259.5
5°	11057.7	10356.5	9640.8	8916.2	8206.3	7502.3	6812.8	6149.6	5509.8	4887.6	4306.2
2.5°	11148.2	10464.6	9740.1	9006.8	8288.1	7575.3	6877.1	6205.1	5559.5	4931.4	4344.2
0°	11177.4	10464.6	9740.1	9006.8	8288.1	7575.3	6877.1	6205.1	5559.5	4931.4	4344.2

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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°	70.1	64.3	58.4	55.5	49.7	46.7	40.9	35.1	32.1	26.3	20.5
85°	140.2	128.5	119.8	111.0	102.3	90.6	81.8	73.0	61.4	52.6	40.9
82.5°	213.3	198.7	184.1	169.4	154.8	140.2	122.7	108.1	93.5	78.9	61.4
80°	295.1	271.7	251.2	230.8	210.3	189.9	166.5	146.1	122.7	102.3	81.8
77.5°	379.8	353.5	324.3	295.1	265.9	239.6	210.3	184.1	157.8	128.5	102.3
75°	470.4	435.3	403.2	365.2	330.1	292.1	257.1	222.0	189.9	157.8	122.7
72.5°	563.8	520.0	476.2	435.3	391.5	347.7	306.8	262.9	222.0	184.1	146.1
70°	660.2	607.7	555.1	505.4	455.7	403.2	356.4	306.8	257.1	210.3	166.5
67.5°	762.5	701.1	639.8	575.5	520.0	461.6	403.2	347.7	292.1	239.6	189.9
65°	873.5	800.5	724.5	657.3	584.3	520.0	455.7	391.5	330.1	265.9	210.3
62.5°	987.4	902.7	818.0	733.3	657.3	575.5	505.4	435.3	365.2	295.1	230.8
60°	1104.3	1007.9	911.5	818.0	724.5	639.8	555.1	476.2	403.2	324.3	251.2
57.5°	1224.1	1116.0	1007.9	902.7	800.5	701.1	607.7	520.0	435.3	353.5	271.7
55°	1346.8	1224.1	1104.3	987.4	873.5	762.5	660.2	563.8	470.4	379.8	295.1
52.5°	1469.5	1335.1	1200.7	1075.1	955.3	829.7	712.8	604.7	502.5	409.0	315.5
50°	1595.1	1443.2	1300.0	1159.8	1022.5	891.0	765.4	648.6	537.5	435.3	336.0
47.5°	1723.7	1557.1	1396.5	1244.5	1098.5	955.3	818.0	689.5	569.7	461.6	356.4
45°	1861.0	1668.1	1495.8	1332.2	1171.5	1019.6	870.6	730.4	604.7	487.9	376.9
42.5°	1995.3	1787.9	1595.1	1422.7	1244.5	1080.9	923.2	774.2	636.9	511.3	394.4
40°	2147.3	1907.7	1688.6	1498.7	1314.6	1139.4	972.8	815.1	669.0	534.6	411.9
37.5°	2293.3	2024.6	1793.8	1580.5	1381.8	1197.8	1022.5	856.0	701.1	558.0	429.5
35°	2442.3	2153.1	1890.2	1656.5	1449.0	1256.2	1069.2	894.0	727.4	578.4	447.0
32.5°	2594.2	2275.8	1992.4	1738.3	1516.2	1308.8	1113.1	929.0	756.7	601.8	461.6
30°	2740.3	2392.7	2088.8	1817.1	1577.6	1361.4	1156.9	964.1	785.9	622.3	476.2
27.5°	2889.3	2515.4	2185.2	1890.2	1636.0	1408.1	1194.9	996.2	812.2	642.7	490.8
25°	3032.5	2632.2	2275.8	1960.3	1688.6	1454.9	1235.8	1028.3	835.5	660.2	502.5
22.5°	3163.9	2734.5	2357.6	2027.5	1744.1	1495.8	1270.8	1057.6	858.9	677.8	514.2
20°	3283.7	2839.6	2442.3	2094.7	1796.7	1536.7	1300.0	1083.9	879.4	692.4	525.9
17.5°	3400.6	2936.1	2518.3	2156.0	1840.5	1571.7	1329.3	1104.3	896.9	704.1	534.6
15°	3499.9	3020.8	2585.5	2208.6	1881.4	1601.0	1352.6	1124.8	911.5	715.8	540.5
12.5°	3587.5	3093.8	2643.9	2252.4	1913.5	1627.2	1376.0	1142.3	926.1	724.5	549.2
10°	3657.6	3152.2	2690.7	2290.4	1942.8	1647.7	1390.6	1156.9	934.9	733.3	555.1
7.5°	3713.2	3199.0	2728.6	2316.7	1963.2	1665.2	1405.2	1165.7	943.6	739.1	563.8
5°	3754.1	3234.0	2754.9	2337.2	1980.7	1685.7	1422.7	1180.3	955.3	747.9	563.8
2.5°	3786.2	3260.3	2775.4	2354.7	1992.4	1685.7	1422.7	1180.3	955.3	747.9	563.8
0°	3786.2	3260.3	2775.4	2354.7	1992.4	1685.7	1422.7	1180.3	955.3	747.9	563.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.6	11.7	5.8	0.0
85°	32.1	20.5	11.7	0.0
82.5°	46.7	32.1	14.6	0.0
80°	61.4	40.9	20.5	0.0
77.5°	78.9	52.6	26.3	0.0
75°	93.5	61.4	32.1	0.0
72.5°	108.1	73.0	35.1	0.0
70°	122.7	81.8	40.9	0.0
67.5°	140.2	90.6	46.7	0.0
65°	154.8	102.3	49.7	0.0
62.5°	169.4	111.0	55.5	0.0
60°	184.1	119.8	58.4	0.0
57.5°	198.7	128.5	64.3	0.0
55°	213.3	140.2	70.1	0.0
52.5°	227.9	149.0	73.0	0.0
50°	242.5	157.8	76.0	0.0
47.5°	254.2	166.5	81.8	0.0
45°	268.8	175.3	84.7	0.0
42.5°	283.4	181.1	87.6	0.0
40°	295.1	189.9	90.6	0.0
37.5°	309.7	195.7	96.4	0.0
35°	321.4	204.5	99.3	0.0
32.5°	330.1	210.3	102.3	0.0
30°	341.8	216.2	105.2	0.0
27.5°	350.6	222.0	105.2	0.0
25°	359.3	227.9	108.1	0.0
22.5°	368.1	230.8	111.0	0.0
20°	376.9	236.6	113.9	0.0
17.5°	382.7	239.6	113.9	0.0
15°	388.6	242.5	119.8	0.0
12.5°	391.5	245.4	119.8	0.0
10°	397.3	251.2	119.8	0.0
7.5°	403.2	251.2	119.8	0.0
5°	403.2	251.2	119.8	0.0
2.5°	403.2	251.2	119.8	0.0
0°	403.2	251.2	119.8	0.0

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