

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: P623983

Luminaire Tested: **IFLD-L-SA8C-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623983
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-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:	53803.3 lumens	Max Intensity:	29882.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.0 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:	23280.2 lumens	Field Lumens:	38120.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

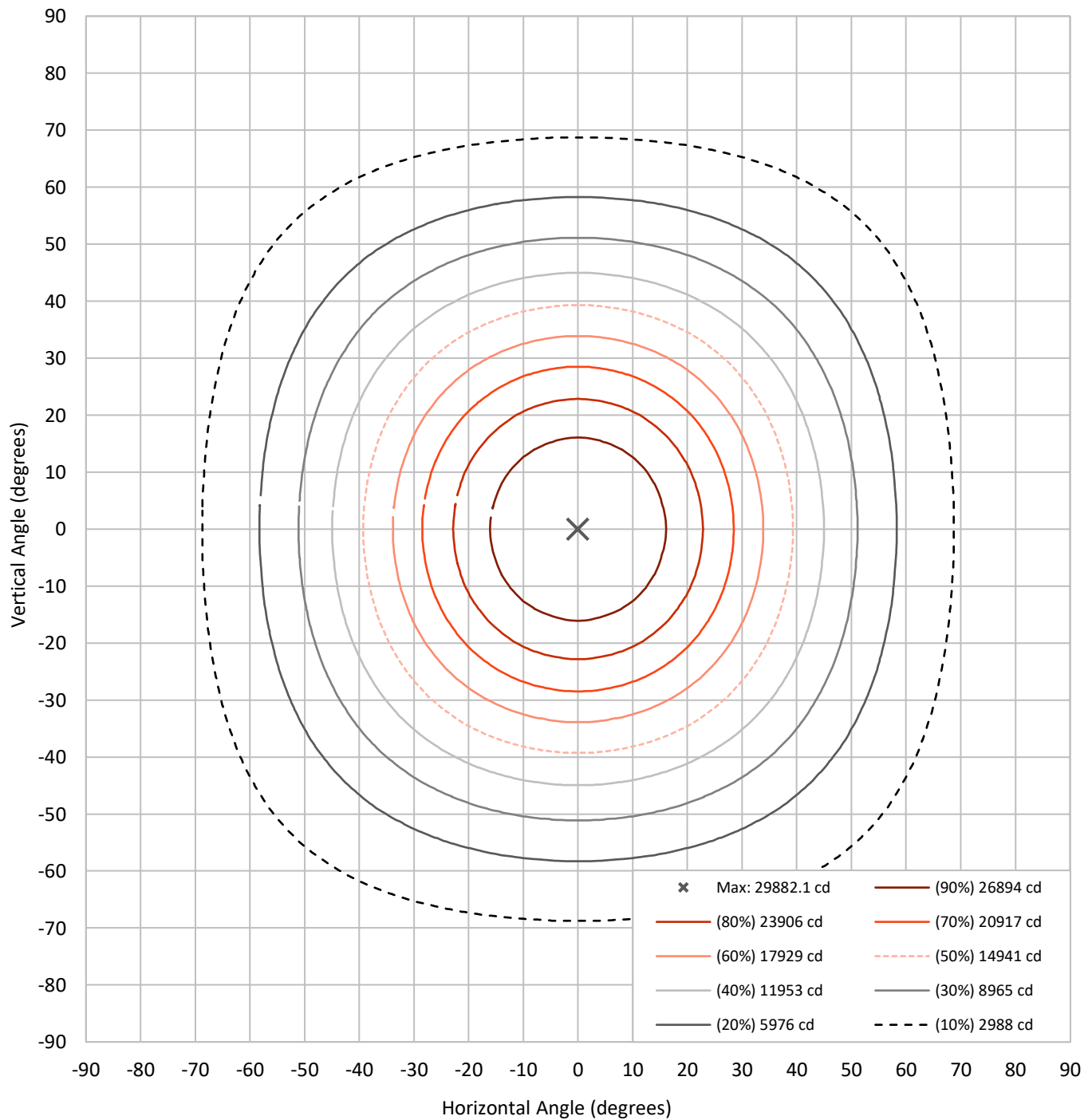
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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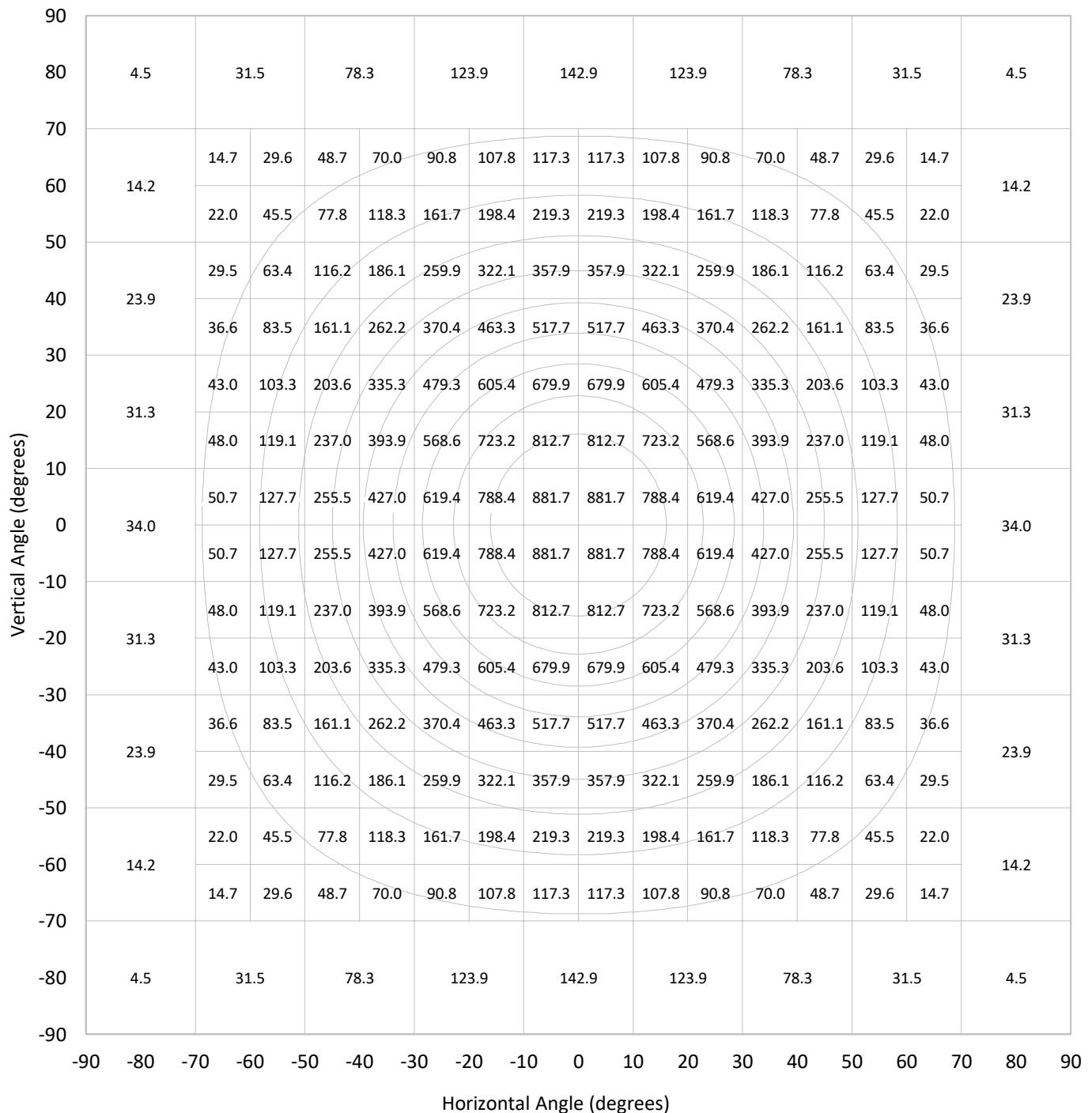
CATALOG NUMBER: IFLD-L-SA8C-750-U-77

Iso-Candela Plot



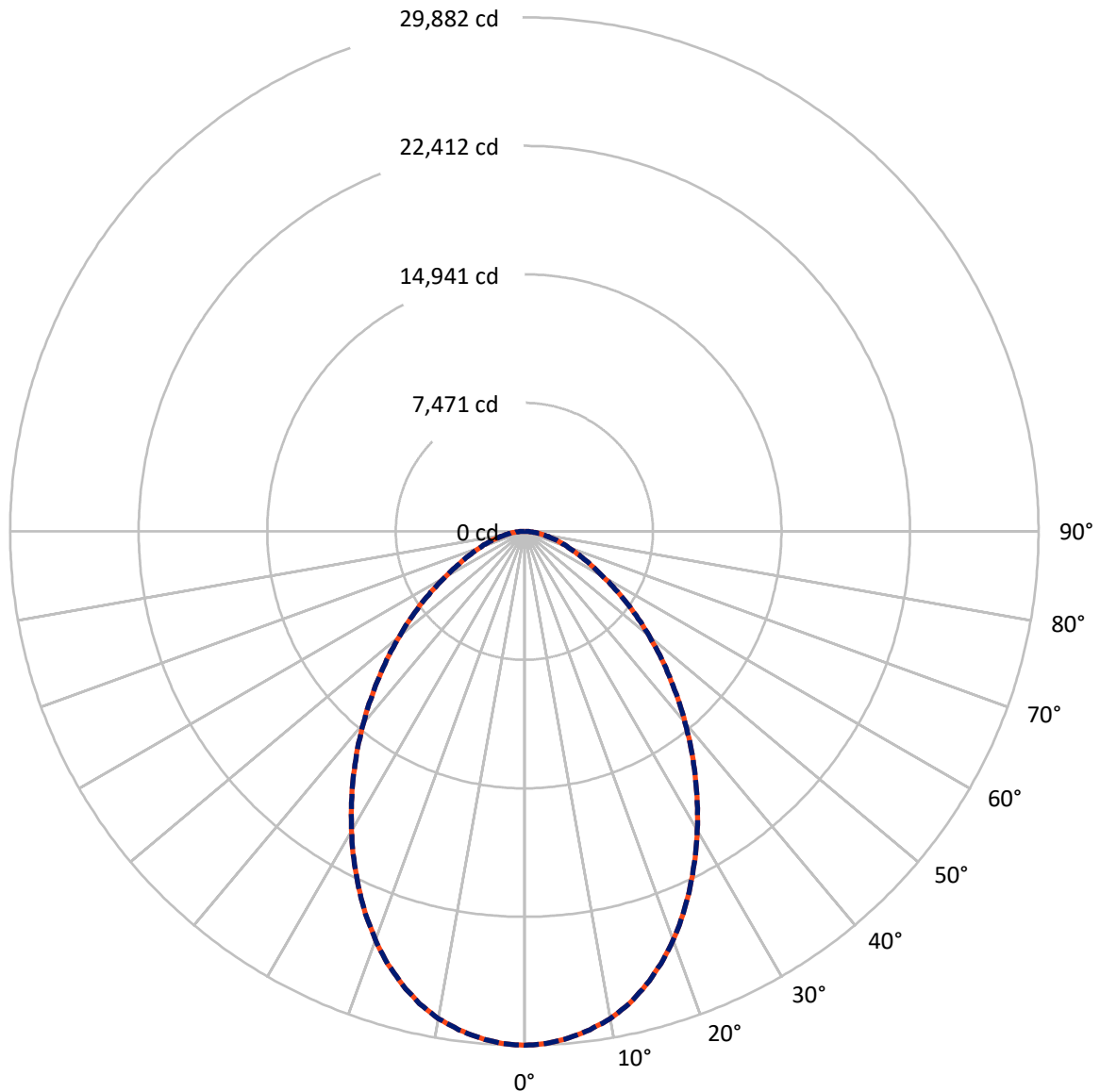
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Lumen Table



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Luminous Intensity Polar Plot

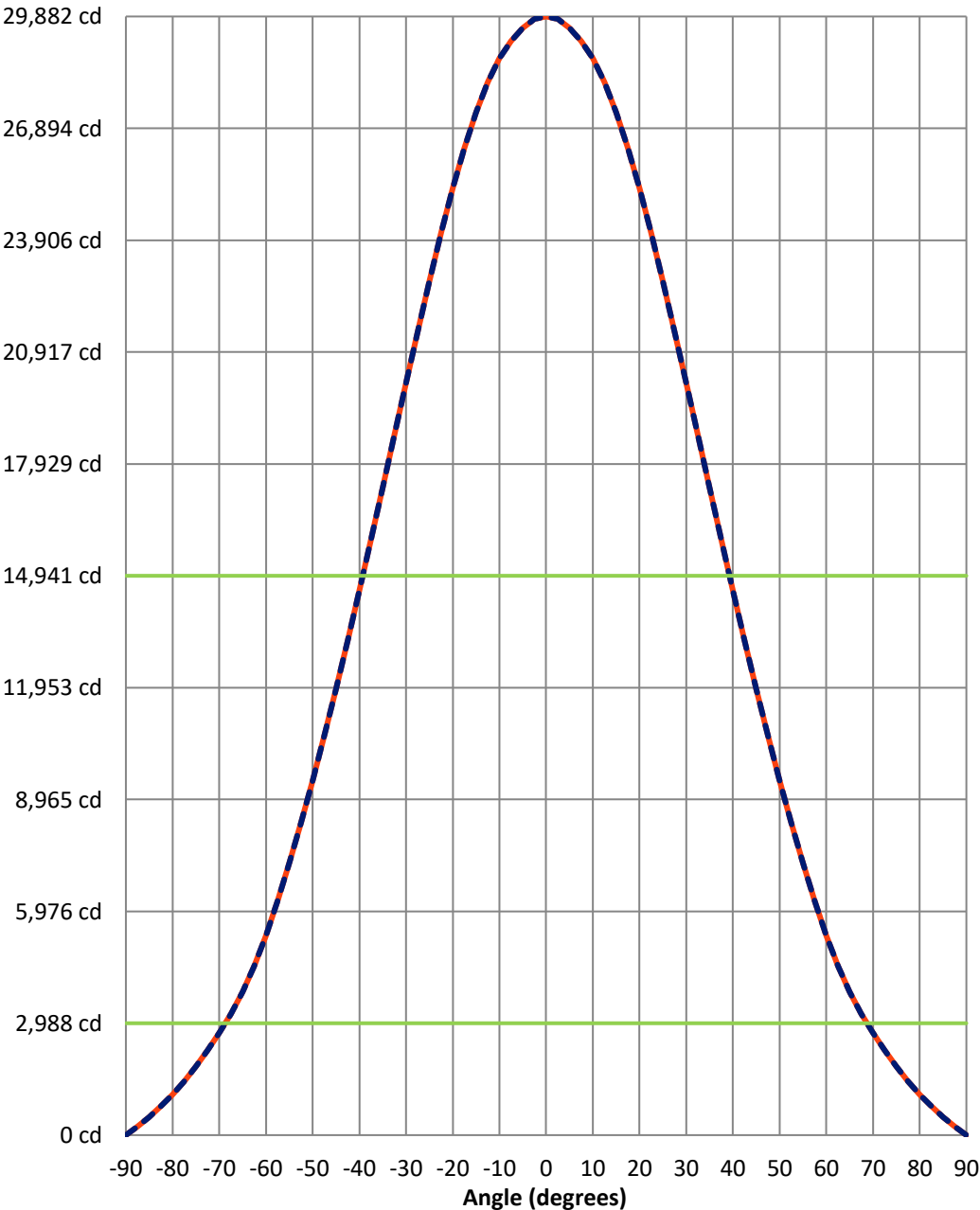


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 23280.2
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 38120.5
Efficiency: 70.9%

Spill:
Lumens: 15682.9
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°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	218.8	218.8	213.2	207.6
85°	482.4	482.4	482.4	482.4	482.4	471.2	465.6	460.0	454.4	443.2	437.5
82.5°	774.1	774.1	774.1	774.1	762.9	751.7	746.1	734.9	723.6	706.8	690.0
80°	1082.6	1082.6	1082.6	1082.6	1065.8	1054.6	1037.8	1026.5	1009.7	987.3	964.8
77.5°	1436.0	1436.0	1436.0	1419.2	1408.0	1391.2	1374.3	1351.9	1329.5	1301.4	1267.8
75°	1834.3	1834.3	1834.3	1811.9	1795.1	1778.2	1750.2	1722.1	1688.5	1649.2	1604.3
72.5°	2266.3	2266.3	2266.3	2238.2	2221.4	2193.3	2159.7	2120.4	2081.1	2030.7	1974.6
70°	2731.9	2731.9	2731.9	2698.2	2670.1	2642.1	2597.2	2552.3	2496.3	2440.2	2372.8
67.5°	3236.7	3236.7	3236.7	3197.4	3163.8	3124.5	3074.0	3017.9	2950.6	2872.1	2793.6
65°	3825.7	3825.7	3803.3	3769.6	3730.4	3674.3	3612.6	3534.0	3449.9	3348.9	3242.3
62.5°	4521.3	4521.3	4487.6	4448.4	4397.9	4325.0	4240.8	4139.8	4022.0	3893.0	3764.0
60°	5329.1	5329.1	5289.8	5239.3	5166.4	5076.6	4964.5	4835.4	4689.6	4526.9	4369.8
57.5°	6260.3	6260.3	6209.8	6142.5	6052.7	5940.5	5800.3	5637.6	5452.5	5250.5	5054.2
55°	7270.0	7270.0	7208.3	7129.7	7023.2	6888.5	6720.2	6529.5	6305.1	6075.1	5822.7
52.5°	8341.4	8341.4	8268.5	8178.7	8055.3	7898.2	7707.5	7483.1	7225.1	6955.8	6658.5
50°	9468.9	9468.9	9384.8	9283.8	9143.6	8958.5	8739.7	8481.6	8195.6	7881.4	7539.2
47.5°	10675.0	10675.0	10579.6	10461.8	10293.5	10080.4	9822.3	9525.0	9199.7	8846.3	8459.2
45°	11914.7	11914.7	11808.1	11673.5	11488.4	11247.1	10961.1	10675.0	10259.9	9850.4	9401.6
42.5°	13204.9	13204.9	13081.5	12930.0	12716.9	12453.2	12127.8	11757.6	11348.1	10888.1	10400.1
40°	14545.6	14545.6	14405.3	14231.4	13995.8	13692.9	13328.3	12913.2	12453.2	11942.7	11404.2
37.5°	15914.3	15914.3	15757.2	15566.5	15302.9	14966.3	14556.8	14096.8	13580.7	13014.2	12419.5
35°	17294.2	17294.2	17120.3	16912.8	16621.1	16250.9	15807.7	15297.2	14725.1	14108.0	13440.5
32.5°	18702.2	18702.2	18511.5	18275.9	17945.0	17535.5	17047.4	16492.1	15914.3	15196.3	14467.0
30°	20093.4	20093.4	19885.9	19627.8	19274.4	18825.7	18292.7	17681.3	17002.5	16267.7	15482.4
27.5°	21462.1	21406.0	21232.2	20957.3	20570.2	20093.4	19515.6	18853.7	18118.8	17311.1	16469.6
25°	22808.4	22746.7	22556.0	22253.1	21838.0	21316.3	20693.6	19986.8	19195.9	18343.2	17423.3
22.5°	24098.6	24031.3	23829.4	23504.0	23060.9	22494.3	21826.8	21069.5	20228.0	19313.7	18343.2
20°	25293.5	25220.5	25013.0	24670.8	24210.8	23610.6	22903.8	22090.4	21192.9	20228.0	19195.9
17.5°	26370.5	26297.6	26078.8	25725.4	25293.5	24625.9	23896.7	23038.4	22090.4	21069.5	19986.8
15°	27318.5	27240.0	27015.6	26662.2	26168.6	25540.3	24771.8	23896.7	22903.8	21826.8	20693.6
12.5°	28126.3	28047.8	27817.8	27464.4	26953.9	26325.6	25540.3	24625.9	23610.6	22494.3	21316.3
10°	28765.8	28687.2	28468.5	28131.9	27604.6	26953.9	26168.6	25293.5	24210.8	23060.9	21838.0
7.5°	29225.8	29152.8	28950.9	28614.3	28131.9	27464.4	26662.2	25725.4	24670.8	23504.0	22253.1
5°	29573.6	29489.4	29287.5	28950.9	28468.5	27817.8	27015.6	26078.8	25013.0	23829.4	22556.0
2.5°	29814.8	29713.8	29489.4	29152.8	28687.2	28047.8	27240.0	26297.6	25220.5	24031.3	22746.7
0°	29882.1	29814.8	29573.6	29225.8	28765.8	28126.3	27318.5	26370.5	25293.5	24098.6	22808.4

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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°	201.9	201.9	196.3	190.7	185.1	173.9	168.3	162.7	157.1	145.8	140.2
85°	426.3	415.1	403.9	392.7	375.8	364.6	347.8	336.6	319.7	302.9	286.1
82.5°	673.1	656.3	633.9	617.1	594.6	566.6	544.1	516.1	488.0	465.6	437.5
80°	942.4	914.4	886.3	858.3	824.6	790.9	757.3	723.6	684.4	645.1	605.8
77.5°	1234.1	1194.8	1155.6	1110.7	1071.4	1026.5	981.7	936.8	886.3	835.8	785.3
75°	1559.5	1509.0	1452.9	1396.8	1346.3	1284.6	1222.9	1161.2	1093.9	1032.2	964.8
72.5°	1912.9	1851.2	1783.8	1716.5	1643.6	1565.1	1486.5	1402.4	1323.9	1245.3	1161.2
70°	2294.3	2221.4	2137.2	2053.1	1963.3	1868.0	1772.6	1671.6	1570.7	1469.7	1368.7
67.5°	2703.8	2614.1	2513.1	2412.1	2299.9	2187.7	2075.5	1957.7	1834.3	1710.9	1593.1
65°	3141.3	3029.2	2911.4	2782.3	2653.3	2524.3	2389.7	2249.4	2109.2	1963.3	1834.3
62.5°	3629.4	3489.1	3337.7	3180.6	3034.8	2877.7	2731.9	2558.0	2389.7	2227.0	2064.3
60°	4195.9	4010.8	3825.7	3629.4	3444.3	3242.3	3062.8	2872.1	2681.4	2496.3	2305.5
57.5°	4829.8	4594.2	4369.8	4134.2	3887.4	3663.0	3433.0	3203.1	2989.9	2771.1	2563.6
55°	5547.8	5261.8	4981.3	4689.6	4403.5	4123.0	3831.3	3573.3	3309.6	3062.8	2821.6
52.5°	6333.2	6007.8	5660.0	5329.1	4964.5	4616.7	4291.3	3966.0	3657.4	3360.1	3085.3
50°	7174.6	6793.2	6394.9	5991.0	5575.9	5166.4	4773.7	4392.3	4033.3	3685.5	3360.1
47.5°	8049.7	7617.8	7163.4	6703.4	6260.3	5761.0	5289.8	4857.9	4425.9	4033.3	3657.4
45°	8947.2	8459.2	7960.0	7438.3	6916.6	6378.1	5856.4	5329.1	4857.9	4392.3	3966.0
42.5°	9872.8	9323.1	8767.7	8189.9	7612.2	7023.2	6434.2	5856.4	5289.8	4773.7	4291.3
40°	10826.4	10220.6	9586.7	8958.5	8341.4	7668.3	7023.2	6378.1	5761.0	5166.4	4616.7
37.5°	11780.1	11118.1	10433.8	9727.0	9020.2	8341.4	7612.2	6916.6	6260.3	5575.9	4964.5
35°	12739.3	12010.0	11269.6	10501.1	9727.0	8958.5	8189.9	7438.3	6703.4	5991.0	5329.1
32.5°	13704.1	12907.6	12088.6	11269.6	10433.8	9586.7	8767.7	7960.0	7163.4	6394.9	5660.0
30°	14652.1	13788.3	12907.6	12010.0	11118.1	10220.6	9323.1	8459.2	7617.8	6793.2	6007.8
27.5°	15577.7	14652.1	13704.1	12739.3	11780.1	10826.4	9872.8	8947.2	8049.7	7174.6	6333.2
25°	16469.6	15482.4	14467.0	13440.5	12419.5	11404.2	10400.1	9401.6	8459.2	7539.2	6658.5
22.5°	17311.1	16267.7	15196.3	14108.0	13014.2	11942.7	10888.1	9850.4	8846.3	7881.4	6955.8
20°	18118.8	17002.5	15914.3	14725.1	13580.7	12453.2	11348.1	10259.9	9199.7	8195.6	7225.1
17.5°	18853.7	17681.3	16492.1	15297.2	14096.8	12913.2	11757.6	10675.0	9525.0	8481.6	7483.1
15°	19515.6	18292.7	17047.4	15807.7	14556.8	13328.3	12127.8	10961.1	9822.3	8739.7	7707.5
12.5°	20093.4	18825.7	17535.5	16250.9	14966.3	13692.9	12453.2	11247.1	10080.4	8958.5	7898.2
10°	20570.2	19274.4	17945.0	16621.1	15302.9	13995.8	12716.9	11488.4	10293.5	9143.6	8055.3
7.5°	20957.3	19627.8	18275.9	16912.8	15566.5	14231.4	12930.0	11673.5	10461.8	9283.8	8178.7
5°	21232.2	19885.9	18511.5	17120.3	15757.2	14405.3	13081.5	11808.1	10579.6	9384.8	8268.5
2.5°	21406.0	20093.4	18702.2	17294.2	15914.3	14545.6	13204.9	11914.7	10675.0	9468.9	8341.4
0°	21462.1	20093.4	18702.2	17294.2	15914.3	14545.6	13204.9	11914.7	10675.0	9468.9	8341.4

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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°	134.6	123.4	112.2	106.6	95.4	89.8	78.5	67.3	61.7	50.5	39.3
85°	269.3	246.8	230.0	213.2	196.3	173.9	157.1	140.2	117.8	101.0	78.5
82.5°	409.5	381.4	353.4	325.4	297.3	269.3	235.6	207.6	179.5	151.5	117.8
80°	566.6	521.7	482.4	443.2	403.9	364.6	319.7	280.5	235.6	196.3	157.1
77.5°	729.2	678.8	622.7	566.6	510.5	460.0	403.9	353.4	302.9	246.8	196.3
75°	903.1	835.8	774.1	701.2	633.9	561.0	493.6	426.3	364.6	302.9	235.6
72.5°	1082.6	998.5	914.4	835.8	751.7	667.5	589.0	504.9	426.3	353.4	280.5
70°	1267.8	1166.8	1065.8	970.5	875.1	774.1	684.4	589.0	493.6	403.9	319.7
67.5°	1464.1	1346.3	1228.5	1105.1	998.5	886.3	774.1	667.5	561.0	460.0	364.6
65°	1677.3	1537.0	1391.2	1262.1	1121.9	998.5	875.1	751.7	633.9	510.5	403.9
62.5°	1896.0	1733.4	1570.7	1408.0	1262.1	1105.1	970.5	835.8	701.2	566.6	443.2
60°	2120.4	1935.3	1750.2	1570.7	1391.2	1228.5	1065.8	914.4	774.1	622.7	482.4
57.5°	2350.4	2142.8	1935.3	1733.4	1537.0	1346.3	1166.8	998.5	835.8	678.8	521.7
55°	2586.0	2350.4	2120.4	1896.0	1677.3	1464.1	1267.8	1082.6	903.1	729.2	566.6
52.5°	2821.6	2563.6	2305.5	2064.3	1834.3	1593.1	1368.7	1161.2	964.8	785.3	605.8
50°	3062.8	2771.1	2496.3	2227.0	1963.3	1710.9	1469.7	1245.3	1032.2	835.8	645.1
47.5°	3309.6	2989.9	2681.4	2389.7	2109.2	1834.3	1570.7	1323.9	1093.9	886.3	684.4
45°	3573.3	3203.1	2872.1	2558.0	2249.4	1957.7	1671.6	1402.4	1161.2	936.8	723.6
42.5°	3831.3	3433.0	3062.8	2731.9	2389.7	2075.5	1772.6	1486.5	1222.9	981.7	757.3
40°	4123.0	3663.0	3242.3	2877.7	2524.3	2187.7	1868.0	1565.1	1284.6	1026.5	790.9
37.5°	4403.5	3887.4	3444.3	3034.8	2653.3	2299.9	1963.3	1643.6	1346.3	1071.4	824.6
35°	4689.6	4134.2	3629.4	3180.6	2782.3	2412.1	2053.1	1716.5	1396.8	1110.7	858.3
32.5°	4981.3	4369.8	3825.7	3337.7	2911.4	2513.1	2137.2	1783.8	1452.9	1155.6	886.3
30°	5261.8	4594.2	4010.8	3489.1	3029.2	2614.1	2221.4	1851.2	1509.0	1194.8	914.4
27.5°	5547.8	4829.8	4195.9	3629.4	3141.3	2703.8	2294.3	1912.9	1559.5	1234.1	942.4
25°	5822.7	5054.2	4369.8	3764.0	3242.3	2793.6	2372.8	1974.6	1604.3	1267.8	964.8
22.5°	6075.1	5250.5	4526.9	3893.0	3348.9	2872.1	2440.2	2030.7	1649.2	1301.4	987.3
20°	6305.1	5452.5	4689.6	4022.0	3449.9	2950.6	2496.3	2081.1	1688.5	1329.5	1009.7
17.5°	6529.5	5637.6	4835.4	4139.8	3534.0	3017.9	2552.3	2120.4	1722.1	1351.9	1026.5
15°	6720.2	5800.3	4964.5	4240.8	3612.6	3074.0	2597.2	2159.7	1750.2	1374.3	1037.8
12.5°	6888.5	5940.5	5076.6	4325.0	3674.3	3124.5	2642.1	2193.3	1778.2	1391.2	1054.6
10°	7023.2	6052.7	5166.4	4397.9	3730.4	3163.8	2670.1	2221.4	1795.1	1408.0	1065.8
7.5°	7129.7	6142.5	5239.3	4448.4	3769.6	3197.4	2698.2	2238.2	1811.9	1419.2	1082.6
5°	7208.3	6209.8	5289.8	4487.6	3803.3	3236.7	2731.9	2266.3	1834.3	1436.0	1082.6
2.5°	7270.0	6260.3	5329.1	4521.3	3825.7	3236.7	2731.9	2266.3	1834.3	1436.0	1082.6
0°	7270.0	6260.3	5329.1	4521.3	3825.7	3236.7	2731.9	2266.3	1834.3	1436.0	1082.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	28.0	22.4	11.2	0.0
85°	61.7	39.3	22.4	0.0
82.5°	89.8	61.7	28.0	0.0
80°	117.8	78.5	39.3	0.0
77.5°	151.5	101.0	50.5	0.0
75°	179.5	117.8	61.7	0.0
72.5°	207.6	140.2	67.3	0.0
70°	235.6	157.1	78.5	0.0
67.5°	269.3	173.9	89.8	0.0
65°	297.3	196.3	95.4	0.0
62.5°	325.4	213.2	106.6	0.0
60°	353.4	230.0	112.2	0.0
57.5°	381.4	246.8	123.4	0.0
55°	409.5	269.3	134.6	0.0
52.5°	437.5	286.1	140.2	0.0
50°	465.6	302.9	145.8	0.0
47.5°	488.0	319.7	157.1	0.0
45°	516.1	336.6	162.7	0.0
42.5°	544.1	347.8	168.3	0.0
40°	566.6	364.6	173.9	0.0
37.5°	594.6	375.8	185.1	0.0
35°	617.1	392.7	190.7	0.0
32.5°	633.9	403.9	196.3	0.0
30°	656.3	415.1	201.9	0.0
27.5°	673.1	426.3	201.9	0.0
25°	690.0	437.5	207.6	0.0
22.5°	706.8	443.2	213.2	0.0
20°	723.6	454.4	218.8	0.0
17.5°	734.9	460.0	218.8	0.0
15°	746.1	465.6	230.0	0.0
12.5°	751.7	471.2	230.0	0.0
10°	762.9	482.4	230.0	0.0
7.5°	774.1	482.4	230.0	0.0
5°	774.1	482.4	230.0	0.0
2.5°	774.1	482.4	230.0	0.0
0°	774.1	482.4	230.0	0.0

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