

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: P624522

Luminaire Tested: **IFLD-L-SA8C-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624522
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

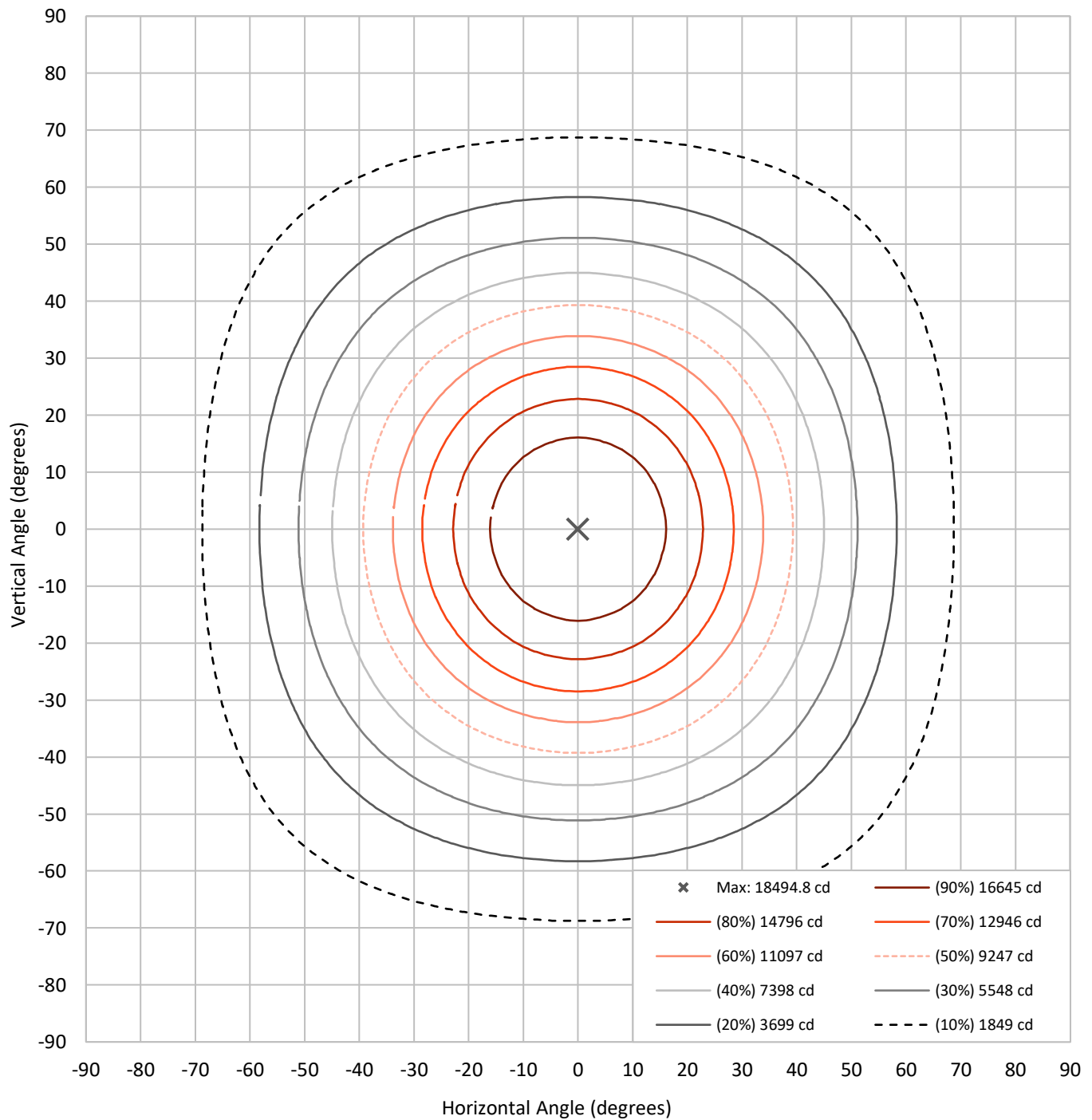
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33300.3 lumens	Max Intensity:	18494.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	79.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	14408.7 lumens	Field Lumens:	23593.8 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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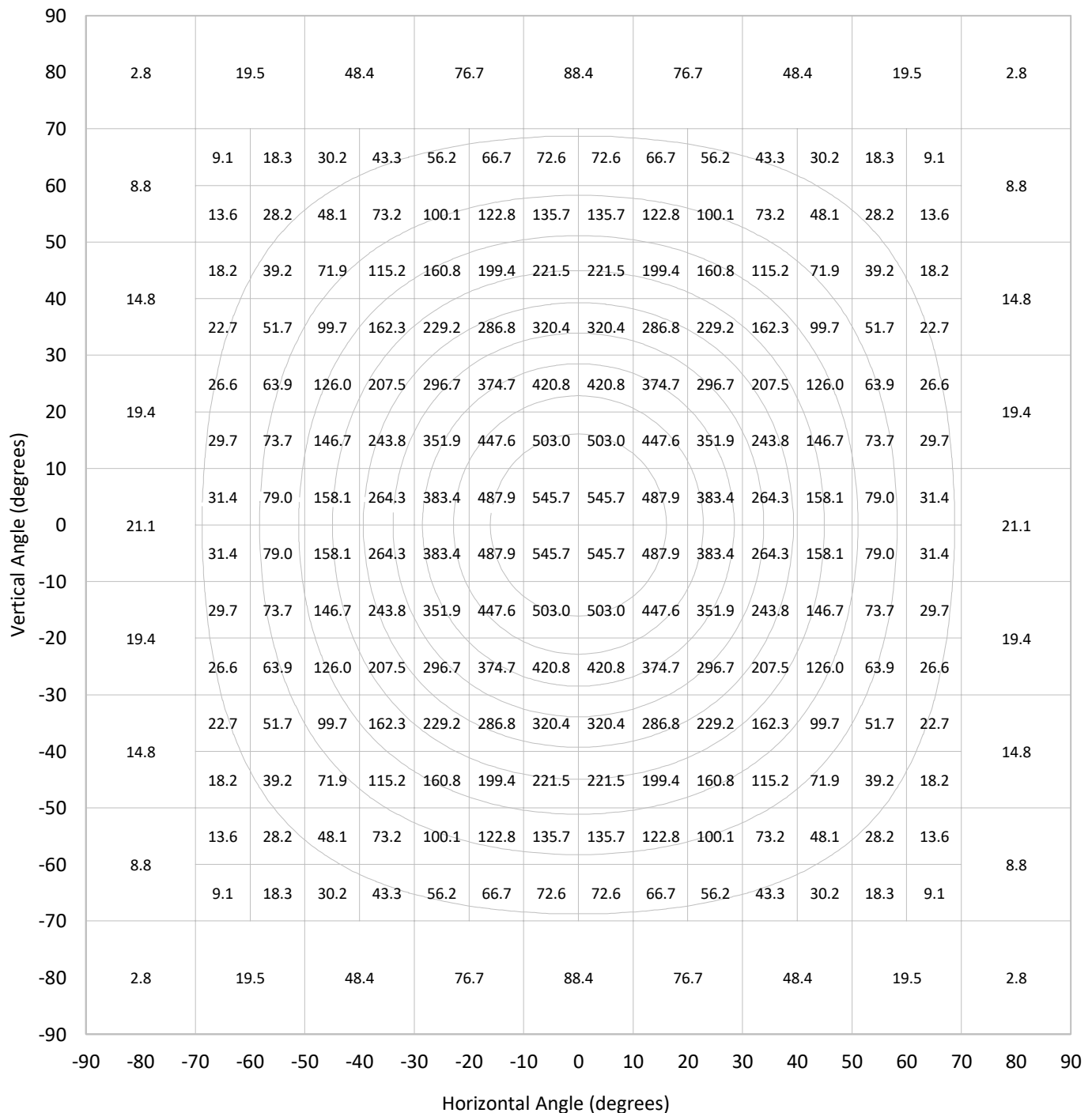
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Iso-Candela Plot



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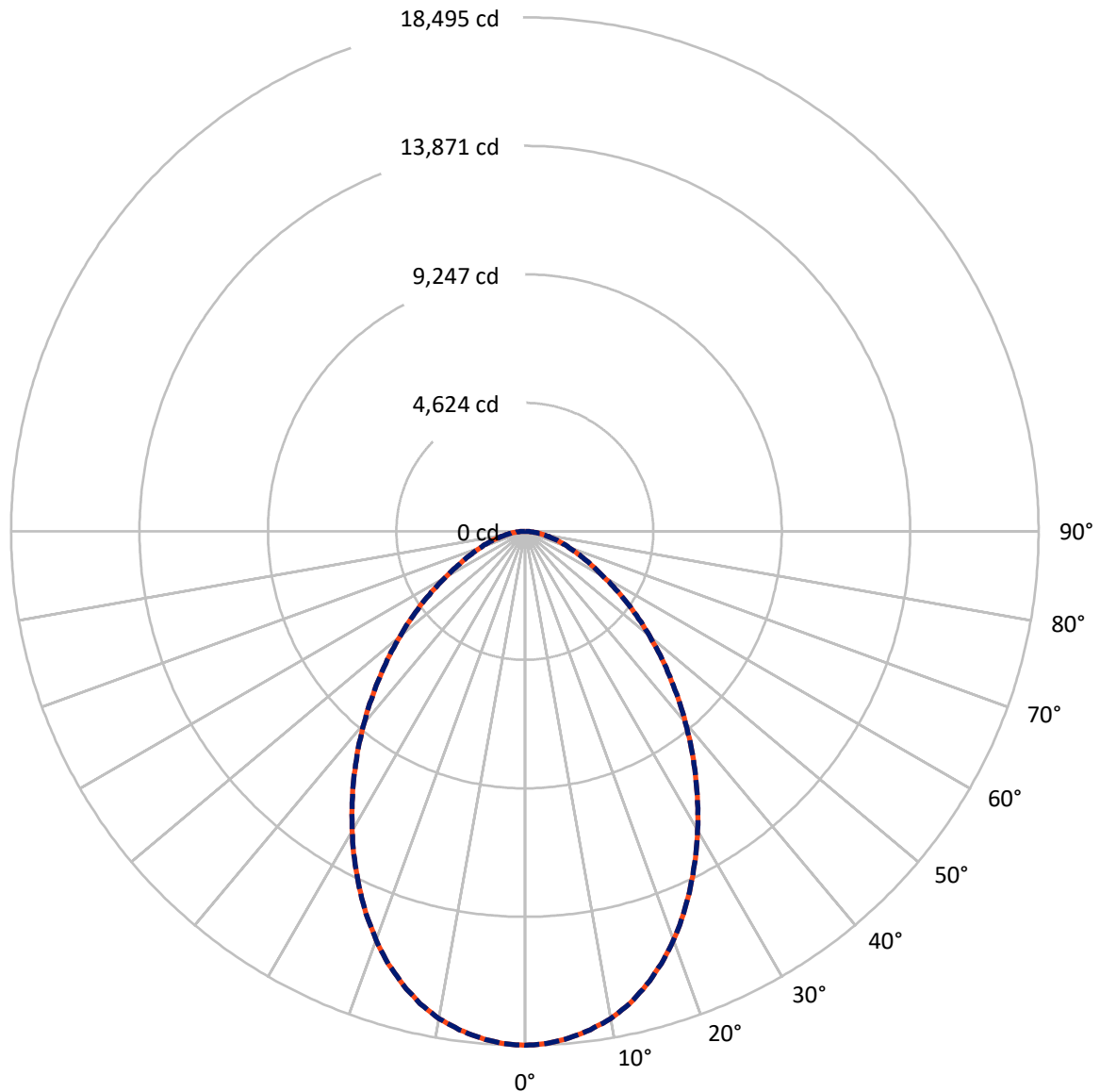
Lumen Table



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Luminous Intensity Polar Plot

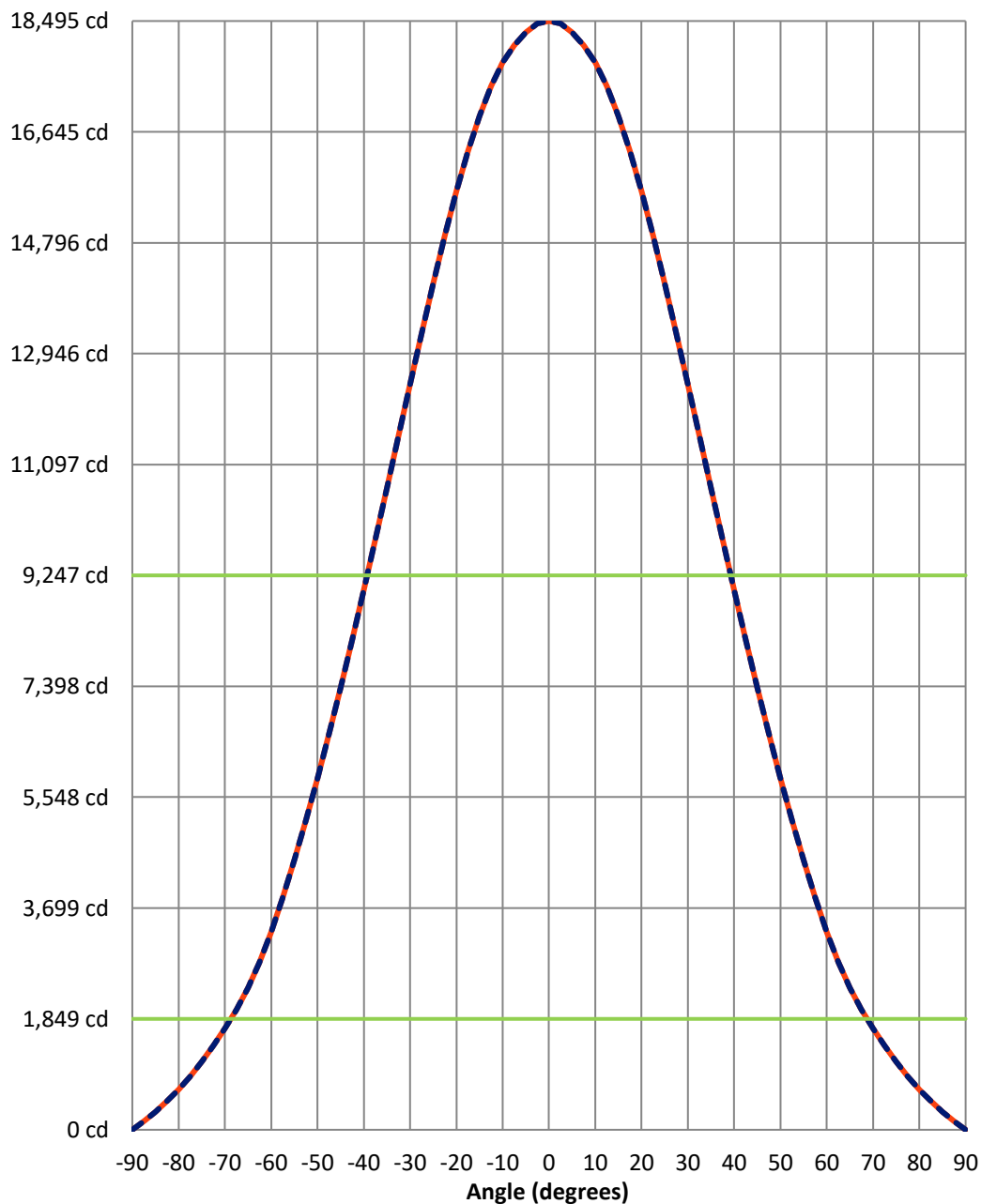


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 14408.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 23593.8
Efficiency: 70.9%

Spill:

Lumens: 9706.5
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°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	135.4	135.4	131.9	128.5
85°	298.6	298.6	298.6	298.6	298.6	291.6	288.2	284.7	281.2	274.3	270.8
82.5°	479.1	479.1	479.1	479.1	472.2	465.2	461.8	454.8	447.9	437.5	427.0
80°	670.1	670.1	670.1	670.1	659.7	652.7	642.3	635.4	624.9	611.1	597.2
77.5°	888.8	888.8	888.8	878.4	871.4	861.0	850.6	836.7	822.8	805.5	784.6
75°	1135.3	1135.3	1135.3	1121.4	1111.0	1100.6	1083.2	1065.9	1045.0	1020.7	993.0
72.5°	1402.6	1402.6	1402.6	1385.3	1374.9	1357.5	1336.7	1312.4	1288.1	1256.8	1222.1
70°	1690.8	1690.8	1690.8	1670.0	1652.6	1635.3	1607.5	1579.7	1545.0	1510.3	1468.6
67.5°	2003.3	2003.3	2003.3	1979.0	1958.2	1933.8	1902.6	1867.9	1826.2	1777.6	1729.0
65°	2367.8	2367.8	2353.9	2333.1	2308.8	2274.1	2235.9	2187.3	2135.2	2072.7	2006.8
62.5°	2798.4	2798.4	2777.5	2753.2	2722.0	2676.8	2624.8	2562.3	2489.4	2409.5	2329.6
60°	3298.3	3298.3	3274.0	3242.8	3197.6	3142.1	3072.6	2992.8	2902.5	2801.8	2704.6
57.5°	3874.6	3874.6	3843.4	3801.7	3746.2	3676.7	3589.9	3489.3	3374.7	3249.7	3128.2
55°	4499.6	4499.6	4461.4	4412.8	4346.8	4263.5	4159.3	4041.3	3902.4	3760.1	3603.8
52.5°	5162.7	5162.7	5117.6	5062.0	4985.6	4888.4	4770.4	4631.5	4471.8	4305.2	4121.1
50°	5860.6	5860.6	5808.5	5746.0	5659.2	5544.6	5409.2	5249.5	5072.4	4878.0	4666.2
47.5°	6607.0	6607.0	6548.0	6475.1	6370.9	6239.0	6079.3	5895.3	5693.9	5475.2	5235.6
45°	7374.3	7374.3	7308.3	7225.0	7110.5	6961.2	6784.1	6607.0	6350.1	6096.7	5818.9
42.5°	8172.9	8172.9	8096.5	8002.7	7870.8	7707.6	7506.2	7277.1	7023.7	6739.0	6436.9
40°	9002.6	9002.6	8915.8	8808.2	8662.4	8474.9	8249.2	7992.3	7707.6	7391.7	7058.4
37.5°	9849.8	9849.8	9752.6	9634.5	9471.3	9263.0	9009.6	8724.9	8405.5	8054.8	7686.8
35°	10703.9	10703.9	10596.2	10467.8	10287.2	10058.1	9783.8	9467.9	9113.7	8731.8	8318.7
32.5°	11575.3	11575.3	11457.3	11311.5	11106.6	10853.2	10551.1	10207.4	9849.8	9405.4	8954.0
30°	12436.3	12436.3	12307.9	12148.2	11929.4	11651.7	11321.9	10943.4	10523.3	10068.5	9582.4
27.5°	13283.5	13248.8	13141.1	12971.0	12731.5	12436.3	12078.7	11669.1	11214.2	10714.3	10193.5
25°	14116.7	14078.6	13960.5	13773.0	13516.1	13193.2	12807.8	12370.4	11880.8	11353.1	10783.7
22.5°	14915.3	14873.6	14748.6	14547.3	14273.0	13922.3	13509.2	13040.5	12519.7	11953.8	11353.1
20°	15654.8	15609.7	15481.2	15269.4	14984.7	14613.2	14175.8	13672.3	13116.8	12519.7	11880.8
17.5°	16321.4	16276.3	16140.9	15922.1	15654.8	15241.6	14790.3	14259.1	13672.3	13040.5	12370.4
15°	16908.2	16859.5	16720.7	16501.9	16196.4	15807.6	15331.9	14790.3	14175.8	13509.2	12807.8
12.5°	17408.1	17359.5	17217.2	16998.4	16682.5	16293.6	15807.6	15241.6	14613.2	13922.3	13193.2
10°	17803.9	17755.3	17619.9	17411.6	17085.2	16682.5	16196.4	15654.8	14984.7	14273.0	13516.1
7.5°	18088.6	18043.5	17918.5	17710.2	17411.6	16998.4	16501.9	15922.1	15269.4	14547.3	13773.0
5°	18303.9	18251.8	18126.8	17918.5	17619.9	17217.2	16720.7	16140.9	15481.2	14748.6	13960.5
2.5°	18453.1	18390.7	18251.8	18043.5	17755.3	17359.5	16859.5	16276.3	15609.7	14873.6	14078.6
0°	18494.8	18453.1	18303.9	18088.6	17803.9	17408.1	16908.2	16321.4	15654.8	14915.3	14116.7

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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°	125.0	125.0	121.5	118.0	114.6	107.6	104.2	100.7	97.2	90.3	86.8
85°	263.9	256.9	250.0	243.0	232.6	225.7	215.3	208.3	197.9	187.5	177.1
82.5°	416.6	406.2	392.3	381.9	368.0	350.7	336.8	319.4	302.1	288.2	270.8
80°	583.3	565.9	548.6	531.2	510.4	489.5	468.7	447.9	423.6	399.3	375.0
77.5°	763.8	739.5	715.2	687.4	663.1	635.4	607.6	579.8	548.6	517.3	486.1
75°	965.2	933.9	899.2	864.5	833.3	795.1	756.9	718.7	677.0	638.8	597.2
72.5°	1183.9	1145.7	1104.1	1062.4	1017.3	968.7	920.1	868.0	819.4	770.8	718.7
70°	1420.0	1374.9	1322.8	1270.7	1215.2	1156.1	1097.1	1034.6	972.1	909.6	847.1
67.5°	1673.5	1617.9	1555.4	1492.9	1423.5	1354.0	1284.6	1211.7	1135.3	1058.9	986.0
65°	1944.3	1874.8	1801.9	1722.1	1642.2	1562.4	1479.0	1392.2	1305.4	1215.2	1135.3
62.5°	2246.3	2159.5	2065.8	1968.6	1878.3	1781.1	1690.8	1583.2	1479.0	1378.3	1277.7
60°	2597.0	2482.4	2367.8	2246.3	2131.7	2006.8	1895.7	1777.6	1659.6	1545.0	1427.0
57.5°	2989.3	2843.5	2704.6	2558.8	2406.0	2267.2	2124.8	1982.5	1850.5	1715.1	1586.7
55°	3433.7	3256.6	3083.0	2902.5	2725.4	2551.8	2371.3	2211.6	2048.4	1895.7	1746.4
52.5°	3919.8	3718.4	3503.1	3298.3	3072.6	2857.4	2656.0	2454.6	2263.7	2079.7	1909.5
50°	4440.6	4204.5	3958.0	3708.0	3451.1	3197.6	2954.6	2718.5	2496.3	2281.0	2079.7
47.5°	4982.2	4714.8	4433.6	4148.9	3874.6	3565.6	3274.0	3006.7	2739.3	2496.3	2263.7
45°	5537.7	5235.6	4926.6	4603.7	4280.9	3947.6	3624.7	3298.3	3006.7	2718.5	2454.6
42.5°	6110.5	5770.3	5426.6	5069.0	4711.4	4346.8	3982.3	3624.7	3274.0	2954.6	2656.0
40°	6700.8	6325.8	5933.5	5544.6	5162.7	4746.1	4346.8	3947.6	3565.6	3197.6	2857.4
37.5°	7291.0	6881.3	6457.7	6020.3	5582.8	5162.7	4711.4	4280.9	3874.6	3451.1	3072.6
35°	7884.7	7433.3	6975.0	6499.4	6020.3	5544.6	5069.0	4603.7	4148.9	3708.0	3298.3
32.5°	8481.9	7988.8	7481.9	6975.0	6457.7	5933.5	5426.6	4926.6	4433.6	3958.0	3503.1
30°	9068.6	8533.9	7988.8	7433.3	6881.3	6325.8	5770.3	5235.6	4714.8	4204.5	3718.4
27.5°	9641.5	9068.6	8481.9	7884.7	7291.0	6700.8	6110.5	5537.7	4982.2	4440.6	3919.8
25°	10193.5	9582.4	8954.0	8318.7	7686.8	7058.4	6436.9	5818.9	5235.6	4666.2	4121.1
22.5°	10714.3	10068.5	9405.4	8731.8	8054.8	7391.7	6739.0	6096.7	5475.2	4878.0	4305.2
20°	11214.2	10523.3	9849.8	9113.7	8405.5	7707.6	7023.7	6350.1	5693.9	5072.4	4471.8
17.5°	11669.1	10943.4	10207.4	9467.9	8724.9	7992.3	7277.1	6607.0	5895.3	5249.5	4631.5
15°	12078.7	11321.9	10551.1	9783.8	9009.6	8249.2	7506.2	6784.1	6079.3	5409.2	4770.4
12.5°	12436.3	11651.7	10853.2	10058.1	9263.0	8474.9	7707.6	6961.2	6239.0	5544.6	4888.4
10°	12731.5	11929.4	11106.6	10287.2	9471.3	8662.4	7870.8	7110.5	6370.9	5659.2	4985.6
7.5°	12971.0	12148.2	11311.5	10467.8	9634.5	8808.2	8002.7	7225.0	6475.1	5746.0	5062.0
5°	13141.1	12307.9	11457.3	10596.2	9752.6	8915.8	8096.5	7308.3	6548.0	5808.5	5117.6
2.5°	13248.8	12436.3	11575.3	10703.9	9849.8	9002.6	8172.9	7374.3	6607.0	5860.6	5162.7
0°	13283.5	12436.3	11575.3	10703.9	9849.8	9002.6	8172.9	7374.3	6607.0	5860.6	5162.7



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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°	83.3	76.4	69.4	66.0	59.0	55.6	48.6	41.7	38.2	31.2	24.3
85°	166.7	152.8	142.3	131.9	121.5	107.6	97.2	86.8	72.9	62.5	48.6
82.5°	253.4	236.1	218.7	201.4	184.0	166.7	145.8	128.5	111.1	93.7	72.9
80°	350.7	322.9	298.6	274.3	250.0	225.7	197.9	173.6	145.8	121.5	97.2
77.5°	451.3	420.1	385.4	350.7	315.9	284.7	250.0	218.7	187.5	152.8	121.5
75°	559.0	517.3	479.1	434.0	392.3	347.2	305.5	263.9	225.7	187.5	145.8
72.5°	670.1	618.0	565.9	517.3	465.2	413.2	364.5	312.5	263.9	218.7	173.6
70°	784.6	722.2	659.7	600.6	541.6	479.1	423.6	364.5	305.5	250.0	197.9
67.5°	906.2	833.3	760.3	684.0	618.0	548.6	479.1	413.2	347.2	284.7	225.7
65°	1038.1	951.3	861.0	781.2	694.4	618.0	541.6	465.2	392.3	315.9	250.0
62.5°	1173.5	1072.8	972.1	871.4	781.2	684.0	600.6	517.3	434.0	350.7	274.3
60°	1312.4	1197.8	1083.2	972.1	861.0	760.3	659.7	565.9	479.1	385.4	298.6
57.5°	1454.7	1326.3	1197.8	1072.8	951.3	833.3	722.2	618.0	517.3	420.1	322.9
55°	1600.5	1454.7	1312.4	1173.5	1038.1	906.2	784.6	670.1	559.0	451.3	350.7
52.5°	1746.4	1586.7	1427.0	1277.7	1135.3	986.0	847.1	718.7	597.2	486.1	375.0
50°	1895.7	1715.1	1545.0	1378.3	1215.2	1058.9	909.6	770.8	638.8	517.3	399.3
47.5°	2048.4	1850.5	1659.6	1479.0	1305.4	1135.3	972.1	819.4	677.0	548.6	423.6
45°	2211.6	1982.5	1777.6	1583.2	1392.2	1211.7	1034.6	868.0	718.7	579.8	447.9
42.5°	2371.3	2124.8	1895.7	1690.8	1479.0	1284.6	1097.1	920.1	756.9	607.6	468.7
40°	2551.8	2267.2	2006.8	1781.1	1562.4	1354.0	1156.1	968.7	795.1	635.4	489.5
37.5°	2725.4	2406.0	2131.7	1878.3	1642.2	1423.5	1215.2	1017.3	833.3	663.1	510.4
35°	2902.5	2558.8	2246.3	1968.6	1722.1	1492.9	1270.7	1062.4	864.5	687.4	531.2
32.5°	3083.0	2704.6	2367.8	2065.8	1801.9	1555.4	1322.8	1104.1	899.2	715.2	548.6
30°	3256.6	2843.5	2482.4	2159.5	1874.8	1617.9	1374.9	1145.7	933.9	739.5	565.9
27.5°	3433.7	2989.3	2597.0	2246.3	1944.3	1673.5	1420.0	1183.9	965.2	763.8	583.3
25°	3603.8	3128.2	2704.6	2329.6	2006.8	1729.0	1468.6	1222.1	993.0	784.6	597.2
22.5°	3760.1	3249.7	2801.8	2409.5	2072.7	1777.6	1510.3	1256.8	1020.7	805.5	611.1
20°	3902.4	3374.7	2902.5	2489.4	2135.2	1826.2	1545.0	1288.1	1045.0	822.8	624.9
17.5°	4041.3	3489.3	2992.8	2562.3	2187.3	1867.9	1579.7	1312.4	1065.9	836.7	635.4
15°	4159.3	3589.9	3072.6	2624.8	2235.9	1902.6	1607.5	1336.7	1083.2	850.6	642.3
12.5°	4263.5	3676.7	3142.1	2676.8	2274.1	1933.8	1635.3	1357.5	1100.6	861.0	652.7
10°	4346.8	3746.2	3197.6	2722.0	2308.8	1958.2	1652.6	1374.9	1111.0	871.4	659.7
7.5°	4412.8	3801.7	3242.8	2753.2	2333.1	1979.0	1670.0	1385.3	1121.4	878.4	670.1
5°	4461.4	3843.4	3274.0	2777.5	2353.9	2003.3	1690.8	1402.6	1135.3	888.8	670.1
2.5°	4499.6	3874.6	3298.3	2798.4	2367.8	2003.3	1690.8	1402.6	1135.3	888.8	670.1
0°	4499.6	3874.6	3298.3	2798.4	2367.8	2003.3	1690.8	1402.6	1135.3	888.8	670.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.4	13.9	6.9	0.0
85°	38.2	24.3	13.9	0.0
82.5°	55.6	38.2	17.4	0.0
80°	72.9	48.6	24.3	0.0
77.5°	93.7	62.5	31.2	0.0
75°	111.1	72.9	38.2	0.0
72.5°	128.5	86.8	41.7	0.0
70°	145.8	97.2	48.6	0.0
67.5°	166.7	107.6	55.6	0.0
65°	184.0	121.5	59.0	0.0
62.5°	201.4	131.9	66.0	0.0
60°	218.7	142.3	69.4	0.0
57.5°	236.1	152.8	76.4	0.0
55°	253.4	166.7	83.3	0.0
52.5°	270.8	177.1	86.8	0.0
50°	288.2	187.5	90.3	0.0
47.5°	302.1	197.9	97.2	0.0
45°	319.4	208.3	100.7	0.0
42.5°	336.8	215.3	104.2	0.0
40°	350.7	225.7	107.6	0.0
37.5°	368.0	232.6	114.6	0.0
35°	381.9	243.0	118.0	0.0
32.5°	392.3	250.0	121.5	0.0
30°	406.2	256.9	125.0	0.0
27.5°	416.6	263.9	125.0	0.0
25°	427.0	270.8	128.5	0.0
22.5°	437.5	274.3	131.9	0.0
20°	447.9	281.2	135.4	0.0
17.5°	454.8	284.7	135.4	0.0
15°	461.8	288.2	142.3	0.0
12.5°	465.2	291.6	142.3	0.0
10°	472.2	298.6	142.3	0.0
7.5°	479.1	298.6	142.3	0.0
5°	479.1	298.6	142.3	0.0
2.5°	479.1	298.6	142.3	0.0
0°	479.1	298.6	142.3	0.0

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