

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: P623847

Luminaire Tested: **IFLD-S-SA3C-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623847
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

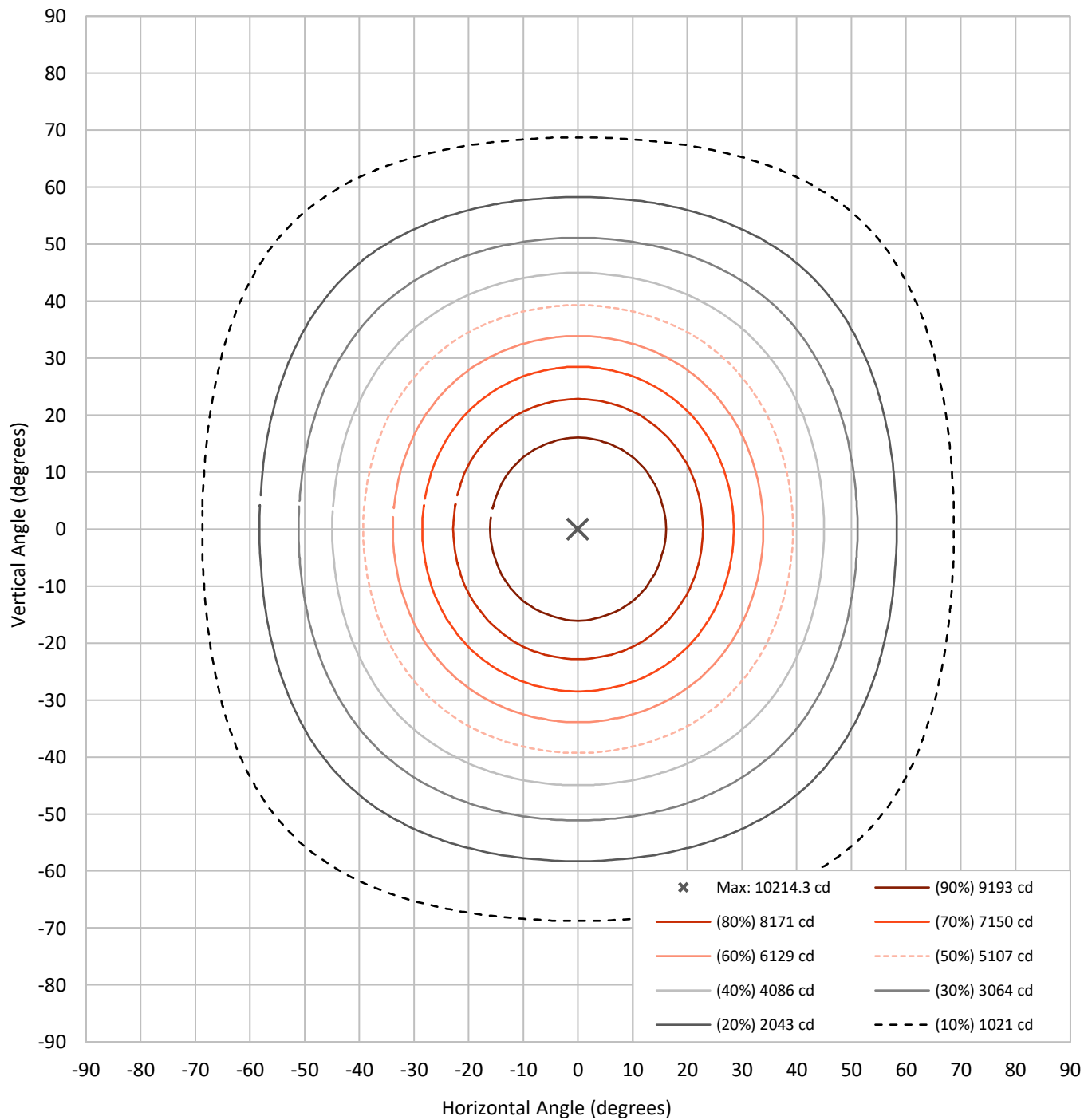
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	18391 lumens	Max Intensity:	10214.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	114.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7957.6 lumens	Field Lumens:	13030.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	160.8		
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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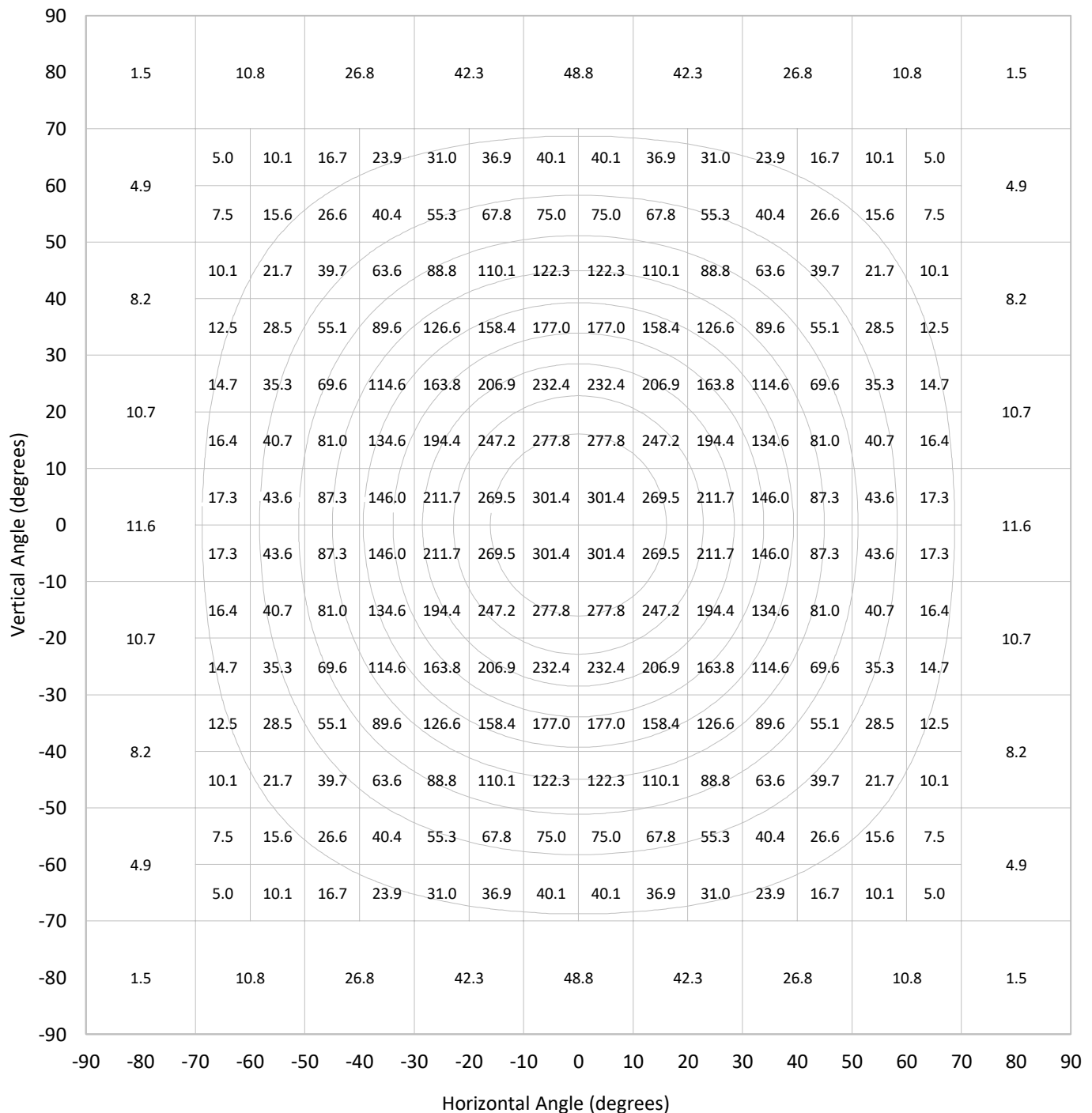
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Iso-Candela Plot



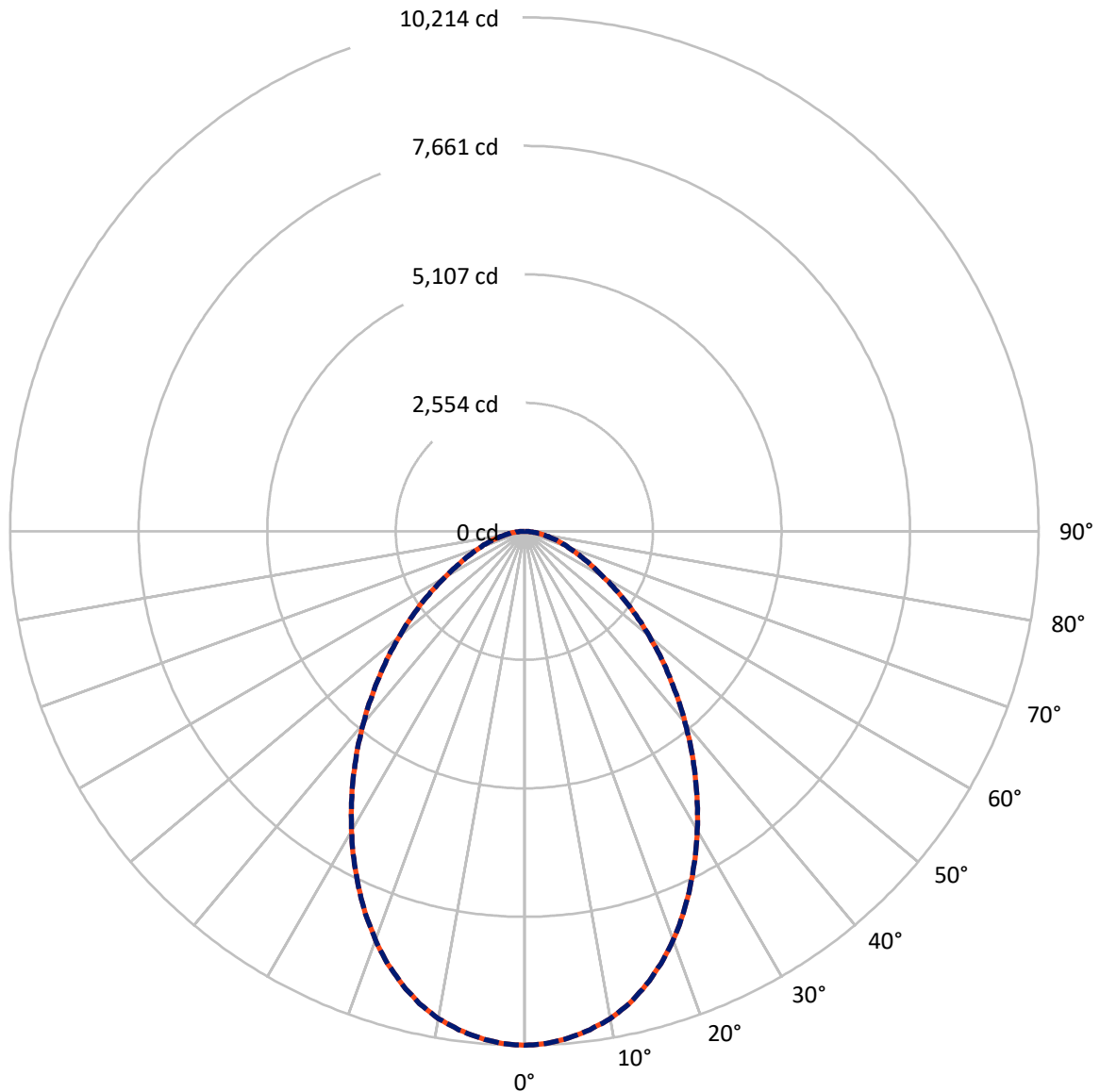
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Lumen Table



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Luminous Intensity Polar Plot

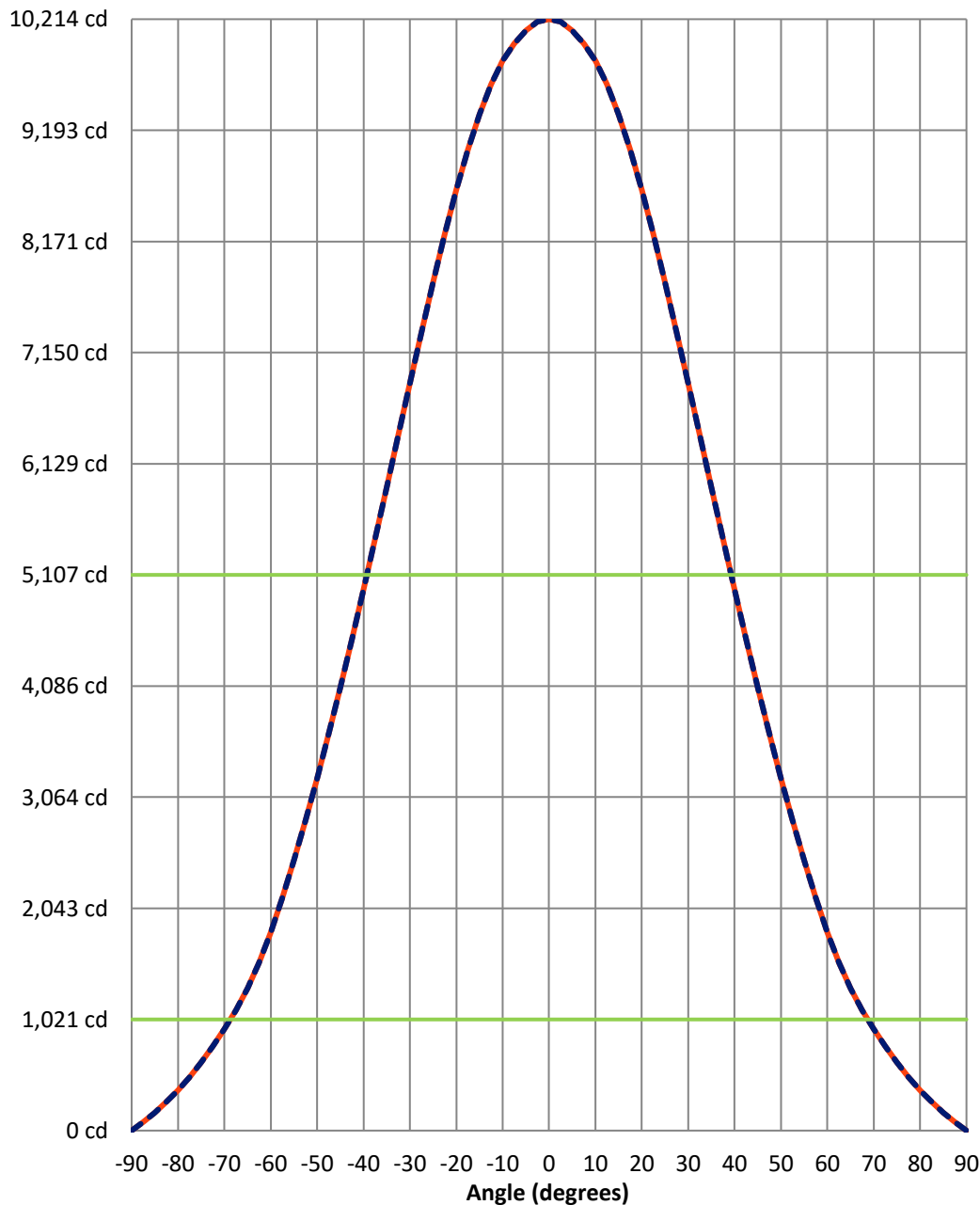


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle:	78.6°
V Angle:	78.6°
Lumens:	7957.6
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	13030.3
Efficiency:	70.9%

Spill:

Lumens:	5360.7
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°	78.6	78.6	78.6	78.6	78.6	78.6	78.6	74.8	74.8	72.9	70.9
85°	164.9	164.9	164.9	164.9	164.9	161.1	159.1	157.2	155.3	151.5	149.6
82.5°	264.6	264.6	264.6	264.6	260.8	256.9	255.0	251.2	247.4	241.6	235.8
80°	370.1	370.1	370.1	370.1	364.3	360.5	354.7	350.9	345.1	337.5	329.8
77.5°	490.9	490.9	490.9	485.1	481.3	475.5	469.8	462.1	454.4	444.8	433.3
75°	627.0	627.0	627.0	619.3	613.6	607.8	598.2	588.7	577.2	563.7	548.4
72.5°	774.7	774.7	774.7	765.1	759.3	749.7	738.2	724.8	711.4	694.1	674.9
70°	933.8	933.8	933.8	922.3	912.7	903.1	887.8	872.4	853.3	834.1	811.1
67.5°	1106.4	1106.4	1106.4	1092.9	1081.4	1068.0	1050.8	1031.6	1008.6	981.7	954.9
65°	1307.7	1307.7	1300.0	1288.5	1275.1	1255.9	1234.8	1208.0	1179.2	1144.7	1108.3
62.5°	1545.5	1545.5	1534.0	1520.5	1503.3	1478.4	1449.6	1415.1	1374.8	1330.7	1286.6
60°	1821.6	1821.6	1808.2	1790.9	1766.0	1735.3	1696.9	1652.8	1603.0	1547.4	1493.7
57.5°	2139.9	2139.9	2122.6	2099.6	2068.9	2030.6	1982.6	1927.0	1863.8	1794.7	1727.6
55°	2485.0	2485.0	2463.9	2437.1	2400.6	2354.6	2297.1	2231.9	2155.2	2076.6	1990.3
52.5°	2851.2	2851.2	2826.3	2795.6	2753.5	2699.8	2634.6	2557.9	2469.7	2377.6	2276.0
50°	3236.7	3236.7	3207.9	3173.4	3125.4	3062.2	2987.4	2899.2	2801.4	2694.0	2577.1
47.5°	3648.9	3648.9	3616.3	3576.0	3518.5	3445.7	3357.5	3255.8	3144.6	3023.8	2891.5
45°	4072.7	4072.7	4036.2	3990.2	3926.9	3844.5	3746.7	3648.9	3507.0	3367.0	3213.6
42.5°	4513.7	4513.7	4471.5	4419.7	4346.9	4256.7	4145.5	4019.0	3879.0	3721.8	3555.0
40°	4972.0	4972.0	4924.0	4864.6	4784.0	4680.5	4555.9	4414.0	4256.7	4082.3	3898.2
37.5°	5439.8	5439.8	5386.1	5320.9	5230.8	5115.8	4975.8	4818.6	4642.1	4448.5	4245.2
35°	5911.5	5911.5	5852.1	5781.1	5681.4	5554.9	5403.4	5228.9	5033.3	4822.4	4594.2
32.5°	6392.8	6392.8	6327.6	6247.1	6133.9	5994.0	5827.1	5637.3	5439.8	5194.4	4945.1
30°	6868.3	6868.3	6797.4	6709.2	6588.4	6435.0	6252.8	6043.8	5811.8	5560.6	5292.2
27.5°	7336.2	7317.0	7257.6	7163.6	7031.3	6868.3	6670.8	6444.6	6193.4	5917.3	5629.6
25°	7796.4	7775.3	7710.1	7606.5	7464.6	7286.3	7073.5	6831.9	6561.5	6270.1	5955.6
22.5°	8237.4	8214.4	8145.3	8034.1	7882.6	7689.0	7460.8	7201.9	6914.3	6601.8	6270.1
20°	8645.8	8620.9	8549.9	8432.9	8275.7	8070.6	7829.0	7550.9	7244.1	6914.3	6561.5
17.5°	9013.9	8989.0	8914.2	8793.4	8645.8	8417.6	8168.3	7875.0	7550.9	7201.9	6831.9
15°	9338.0	9311.1	9234.4	9113.6	8944.9	8730.2	8467.5	8168.3	7829.0	7460.8	7073.5
12.5°	9614.1	9587.3	9508.6	9387.8	9213.4	8998.6	8730.2	8417.6	8070.6	7689.0	7286.3
10°	9832.7	9805.8	9731.1	9616.0	9435.8	9213.4	8944.9	8645.8	8275.7	7882.6	7464.6
7.5°	9989.9	9965.0	9896.0	9780.9	9616.0	9387.8	9113.6	8793.4	8432.9	8034.1	7606.5
5°	10108.8	10080.0	10011.0	9896.0	9731.1	9508.6	9234.4	8914.2	8549.9	8145.3	7710.1
2.5°	10191.3	10156.7	10080.0	9965.0	9805.8	9587.3	9311.1	8989.0	8620.9	8214.4	7775.3
0°	10214.3	10191.3	10108.8	9989.9	9832.7	9614.1	9338.0	9013.9	8645.8	8237.4	7796.4

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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°	69.0	69.0	67.1	65.2	63.3	59.4	57.5	55.6	53.7	49.9	47.9
85°	145.7	141.9	138.1	134.2	128.5	124.6	118.9	115.0	109.3	103.5	97.8
82.5°	230.1	224.3	216.7	210.9	203.2	193.7	186.0	176.4	166.8	159.1	149.6
80°	322.1	312.5	303.0	293.4	281.9	270.4	258.9	247.4	233.9	220.5	207.1
77.5°	421.8	408.4	395.0	379.7	366.2	350.9	335.6	320.2	303.0	285.7	268.4
75°	533.1	515.8	496.6	477.4	460.2	439.1	418.0	396.9	373.9	352.8	329.8
72.5°	653.9	632.8	609.7	586.7	561.8	535.0	508.1	479.4	452.5	425.7	396.9
70°	784.2	759.3	730.5	701.8	671.1	638.5	605.9	571.4	536.9	502.4	467.9
67.5°	924.2	893.5	859.0	824.5	786.2	747.8	709.5	669.2	627.0	584.8	544.6
65°	1073.8	1035.4	995.2	951.1	907.0	862.9	816.8	768.9	721.0	671.1	627.0
62.5°	1240.6	1192.7	1140.9	1087.2	1037.3	983.7	933.8	874.4	816.8	761.2	705.6
60°	1434.3	1371.0	1307.7	1240.6	1177.3	1108.3	1046.9	981.7	916.5	853.3	788.1
57.5°	1650.9	1570.4	1493.7	1413.2	1328.8	1252.1	1173.5	1094.9	1022.0	947.2	876.3
55°	1896.4	1798.6	1702.7	1603.0	1505.2	1409.3	1309.6	1221.4	1131.3	1046.9	964.5
52.5°	2164.8	2053.6	1934.7	1821.6	1696.9	1578.1	1466.9	1355.6	1250.2	1148.6	1054.6
50°	2452.4	2322.0	2185.9	2047.8	1905.9	1766.0	1631.8	1501.4	1378.6	1259.8	1148.6
47.5°	2751.5	2603.9	2448.6	2291.4	2139.9	1969.2	1808.2	1660.5	1512.9	1378.6	1250.2
45°	3058.3	2891.5	2720.9	2542.5	2364.2	2180.1	2001.8	1821.6	1660.5	1501.4	1355.6
42.5°	3374.7	3186.8	2997.0	2799.5	2602.0	2400.6	2199.3	2001.8	1808.2	1631.8	1466.9
40°	3700.7	3493.6	3276.9	3062.2	2851.2	2621.2	2400.6	2180.1	1969.2	1766.0	1578.1
37.5°	4026.6	3800.4	3566.5	3324.9	3083.3	2851.2	2602.0	2364.2	2139.9	1905.9	1696.9
35°	4354.5	4105.3	3852.2	3589.5	3324.9	3062.2	2799.5	2542.5	2291.4	2047.8	1821.6
32.5°	4684.3	4412.1	4132.1	3852.2	3566.5	3276.9	2997.0	2720.9	2448.6	2185.9	1934.7
30°	5008.4	4713.1	4412.1	4105.3	3800.4	3493.6	3186.8	2891.5	2603.9	2322.0	2053.6
27.5°	5324.8	5008.4	4684.3	4354.5	4026.6	3700.7	3374.7	3058.3	2751.5	2452.4	2164.8
25°	5629.6	5292.2	4945.1	4594.2	4245.2	3898.2	3555.0	3213.6	2891.5	2577.1	2276.0
22.5°	5917.3	5560.6	5194.4	4822.4	4448.5	4082.3	3721.8	3367.0	3023.8	2694.0	2377.6
20°	6193.4	5811.8	5439.8	5033.3	4642.1	4256.7	3879.0	3507.0	3144.6	2801.4	2469.7
17.5°	6444.6	6043.8	5637.3	5228.9	4818.6	4414.0	4019.0	3648.9	3255.8	2899.2	2557.9
15°	6670.8	6252.8	5827.1	5403.4	4975.8	4555.9	4145.5	3746.7	3357.5	2987.4	2634.6
12.5°	6868.3	6435.0	5994.0	5554.9	5115.8	4680.5	4256.7	3844.5	3445.7	3062.2	2699.8
10°	7031.3	6588.4	6133.9	5681.4	5230.8	4784.0	4346.9	3926.9	3518.5	3125.4	2753.5
7.5°	7163.6	6709.2	6247.1	5781.1	5320.9	4864.6	4419.7	3990.2	3576.0	3173.4	2795.6
5°	7257.6	6797.4	6327.6	5852.1	5386.1	4924.0	4471.5	4036.2	3616.3	3207.9	2826.3
2.5°	7317.0	6868.3	6392.8	5911.5	5439.8	4972.0	4513.7	4072.7	3648.9	3236.7	2851.2
0°	7336.2	6868.3	6392.8	5911.5	5439.8	4972.0	4513.7	4072.7	3648.9	3236.7	2851.2

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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°	46.0	42.2	38.3	36.4	32.6	30.7	26.8	23.0	21.1	17.3	13.4
85°	92.0	84.4	78.6	72.9	67.1	59.4	53.7	47.9	40.3	34.5	26.8
82.5°	140.0	130.4	120.8	111.2	101.6	92.0	80.5	70.9	61.4	51.8	40.3
80°	193.7	178.3	164.9	151.5	138.1	124.6	109.3	95.9	80.5	67.1	53.7
77.5°	249.3	232.0	212.8	193.7	174.5	157.2	138.1	120.8	103.5	84.4	67.1
75°	308.7	285.7	264.6	239.7	216.7	191.7	168.7	145.7	124.6	103.5	80.5
72.5°	370.1	341.3	312.5	285.7	256.9	228.2	201.3	172.6	145.7	120.8	95.9
70°	433.3	398.8	364.3	331.7	299.1	264.6	233.9	201.3	168.7	138.1	109.3
67.5°	500.5	460.2	419.9	377.7	341.3	303.0	264.6	228.2	191.7	157.2	124.6
65°	573.3	525.4	475.5	431.4	383.5	341.3	299.1	256.9	216.7	174.5	138.1
62.5°	648.1	592.5	536.9	481.3	431.4	377.7	331.7	285.7	239.7	193.7	151.5
60°	724.8	661.5	598.2	536.9	475.5	419.9	364.3	312.5	264.6	212.8	164.9
57.5°	803.4	732.5	661.5	592.5	525.4	460.2	398.8	341.3	285.7	232.0	178.3
55°	883.9	803.4	724.8	648.1	573.3	500.5	433.3	370.1	308.7	249.3	193.7
52.5°	964.5	876.3	788.1	705.6	627.0	544.6	467.9	396.9	329.8	268.4	207.1
50°	1046.9	947.2	853.3	761.2	671.1	584.8	502.4	425.7	352.8	285.7	220.5
47.5°	1131.3	1022.0	916.5	816.8	721.0	627.0	536.9	452.5	373.9	303.0	233.9
45°	1221.4	1094.9	981.7	874.4	768.9	669.2	571.4	479.4	396.9	320.2	247.4
42.5°	1309.6	1173.5	1046.9	933.8	816.8	709.5	605.9	508.1	418.0	335.6	258.9
40°	1409.3	1252.1	1108.3	983.7	862.9	747.8	638.5	535.0	439.1	350.9	270.4
37.5°	1505.2	1328.8	1177.3	1037.3	907.0	786.2	671.1	561.8	460.2	366.2	281.9
35°	1603.0	1413.2	1240.6	1087.2	951.1	824.5	701.8	586.7	477.4	379.7	293.4
32.5°	1702.7	1493.7	1307.7	1140.9	995.2	859.0	730.5	609.7	496.6	395.0	303.0
30°	1798.6	1570.4	1371.0	1192.7	1035.4	893.5	759.3	632.8	515.8	408.4	312.5
27.5°	1896.4	1650.9	1434.3	1240.6	1073.8	924.2	784.2	653.9	533.1	421.8	322.1
25°	1990.3	1727.6	1493.7	1286.6	1108.3	954.9	811.1	674.9	548.4	433.3	329.8
22.5°	2076.6	1794.7	1547.4	1330.7	1144.7	981.7	834.1	694.1	563.7	444.8	337.5
20°	2155.2	1863.8	1603.0	1374.8	1179.2	1008.6	853.3	711.4	577.2	454.4	345.1
17.5°	2231.9	1927.0	1652.8	1415.1	1208.0	1031.6	872.4	724.8	588.7	462.1	350.9
15°	2297.1	1982.6	1696.9	1449.6	1234.8	1050.8	887.8	738.2	598.2	469.8	354.7
12.5°	2354.6	2030.6	1735.3	1478.4	1255.9	1068.0	903.1	749.7	607.8	475.5	360.5
10°	2400.6	2068.9	1766.0	1503.3	1275.1	1081.4	912.7	759.3	613.6	481.3	364.3
7.5°	2437.1	2099.6	1790.9	1520.5	1288.5	1092.9	922.3	765.1	619.3	485.1	370.1
5°	2463.9	2122.6	1808.2	1534.0	1300.0	1106.4	933.8	774.7	627.0	490.9	370.1
2.5°	2485.0	2139.9	1821.6	1545.5	1307.7	1106.4	933.8	774.7	627.0	490.9	370.1
0°	2485.0	2139.9	1821.6	1545.5	1307.7	1106.4	933.8	774.7	627.0	490.9	370.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.6	7.7	3.8	0.0
85°	21.1	13.4	7.7	0.0
82.5°	30.7	21.1	9.6	0.0
80°	40.3	26.8	13.4	0.0
77.5°	51.8	34.5	17.3	0.0
75°	61.4	40.3	21.1	0.0
72.5°	70.9	47.9	23.0	0.0
70°	80.5	53.7	26.8	0.0
67.5°	92.0	59.4	30.7	0.0
65°	101.6	67.1	32.6	0.0
62.5°	111.2	72.9	36.4	0.0
60°	120.8	78.6	38.3	0.0
57.5°	130.4	84.4	42.2	0.0
55°	140.0	92.0	46.0	0.0
52.5°	149.6	97.8	47.9	0.0
50°	159.1	103.5	49.9	0.0
47.5°	166.8	109.3	53.7	0.0
45°	176.4	115.0	55.6	0.0
42.5°	186.0	118.9	57.5	0.0
40°	193.7	124.6	59.4	0.0
37.5°	203.2	128.5	63.3	0.0
35°	210.9	134.2	65.2	0.0
32.5°	216.7	138.1	67.1	0.0
30°	224.3	141.9	69.0	0.0
27.5°	230.1	145.7	69.0	0.0
25°	235.8	149.6	70.9	0.0
22.5°	241.6	151.5	72.9	0.0
20°	247.4	155.3	74.8	0.0
17.5°	251.2	157.2	74.8	0.0
15°	255.0	159.1	78.6	0.0
12.5°	256.9	161.1	78.6	0.0
10°	260.8	164.9	78.6	0.0
7.5°	264.6	164.9	78.6	0.0
5°	264.6	164.9	78.6	0.0
2.5°	264.6	164.9	78.6	0.0
0°	264.6	164.9	78.6	0.0

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