

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: P624512

Luminaire Tested: **IFLD-M-SA4C-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624512
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

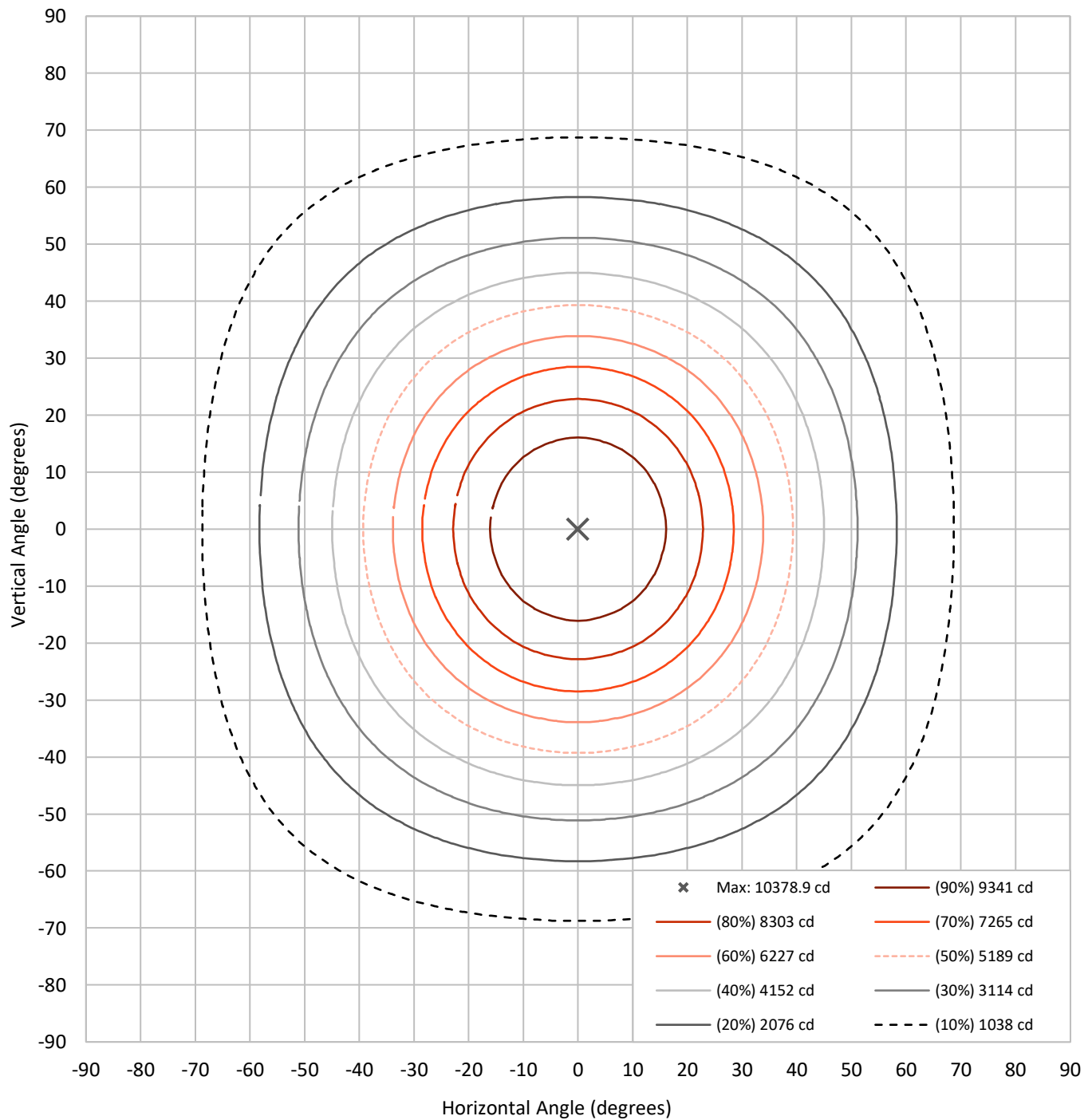
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	18687.5 lumens	Max Intensity:	10378.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	85.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	8085.9 lumens	Field Lumens:	13240.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	218.1		
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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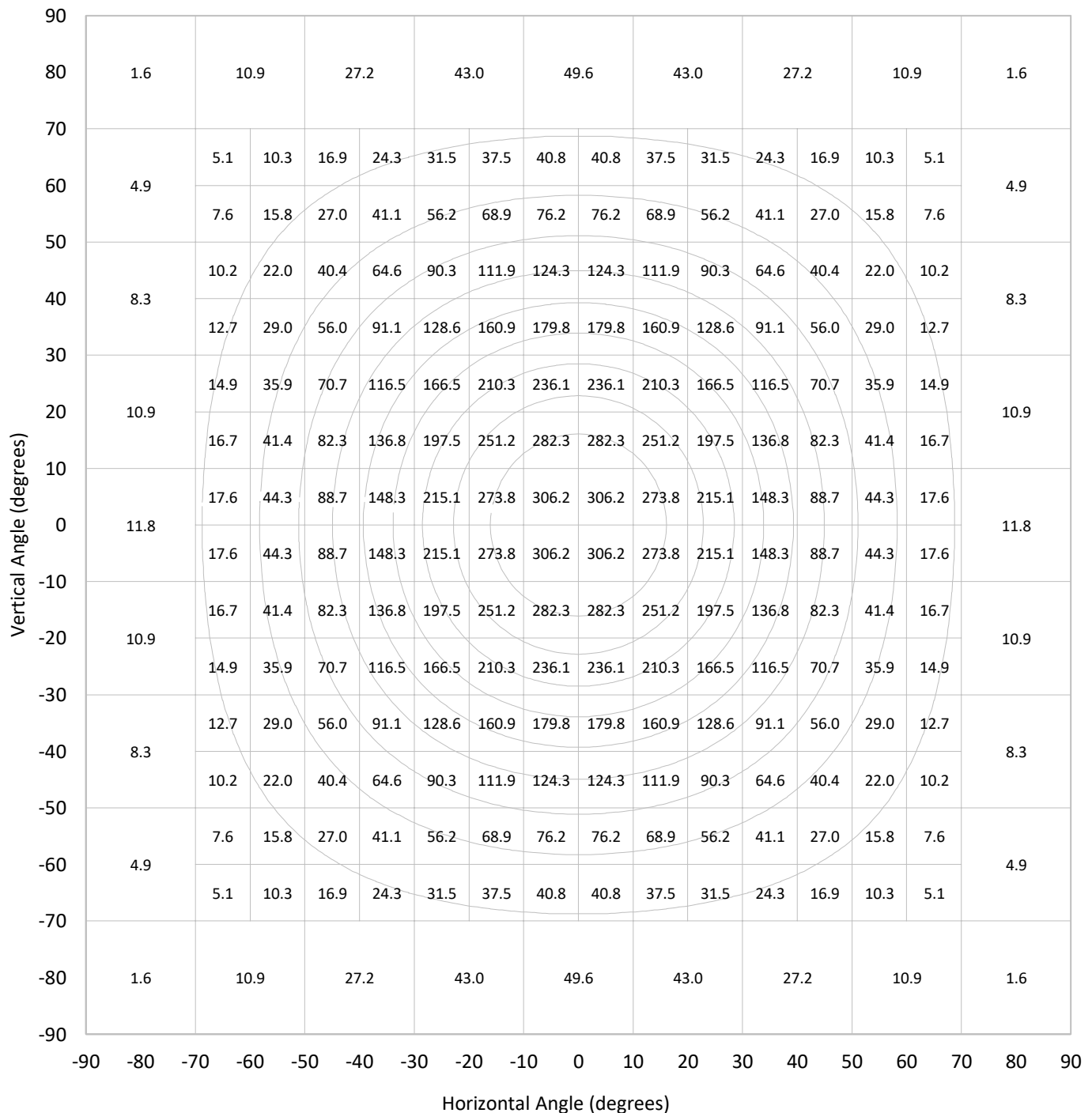
CATALOG NUMBER: IFLD-M-SA4C-927-U-77

Iso-Candela Plot



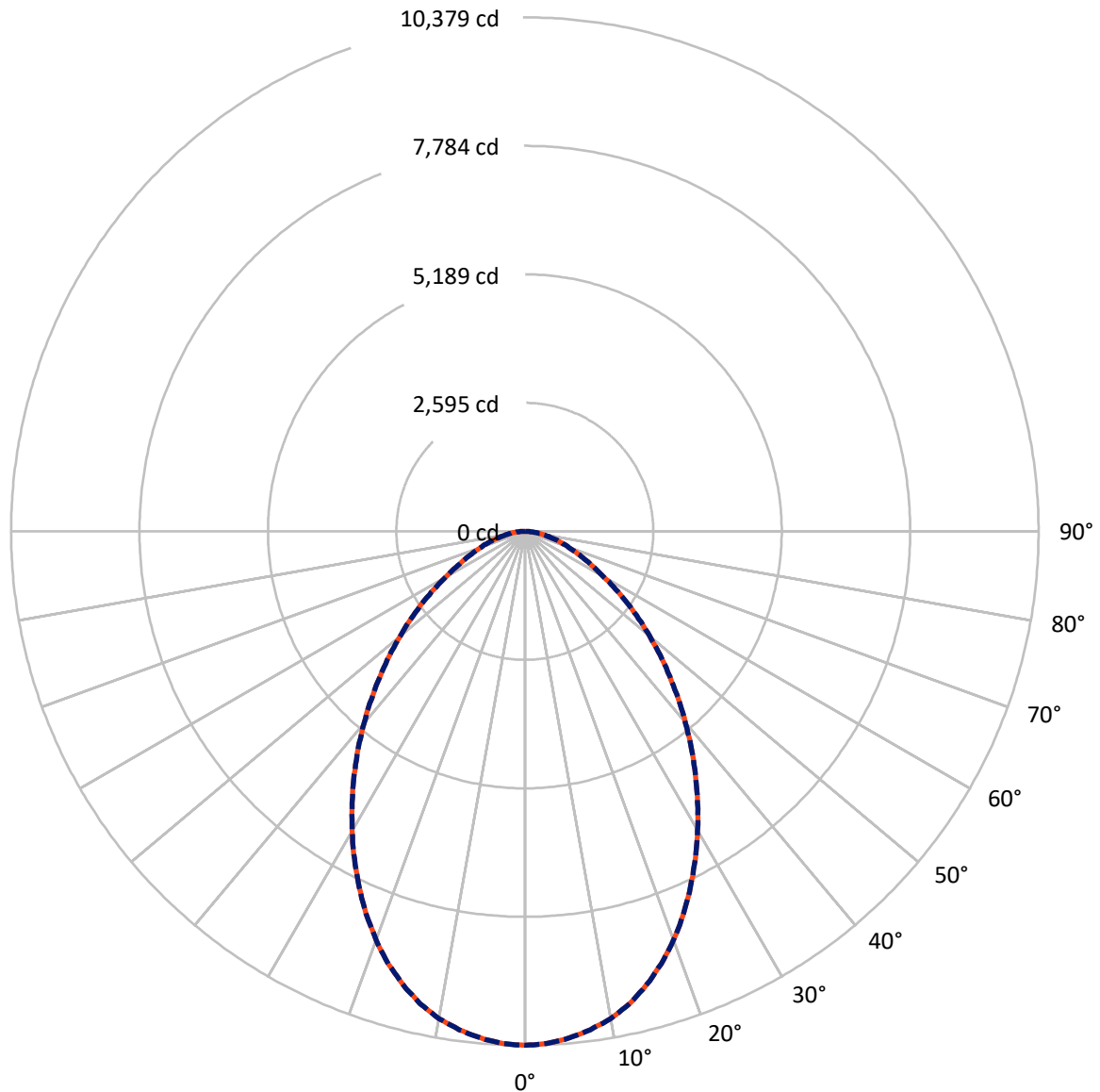
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Lumen Table



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Luminous Intensity Polar Plot

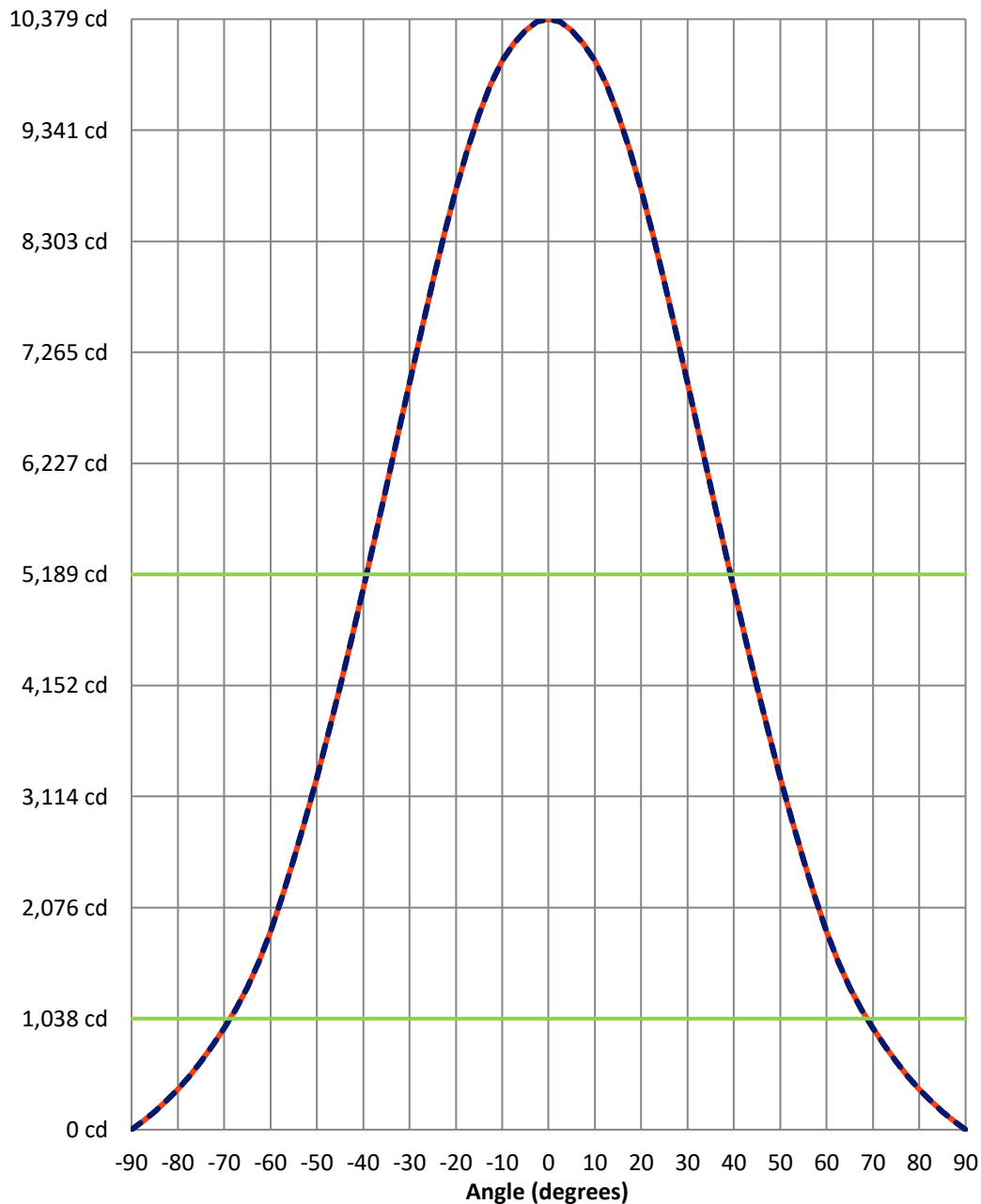


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 8085.9
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 13240.4
Efficiency: 70.9%

Spill:

Lumens: 5447.1
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°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	76.0	76.0	74.0	72.1
85°	167.6	167.6	167.6	167.6	167.6	163.7	161.7	159.8	157.8	153.9	152.0
82.5°	268.9	268.9	268.9	268.9	265.0	261.1	259.1	255.2	251.3	245.5	239.6
80°	376.0	376.0	376.0	376.0	370.2	366.3	360.4	356.6	350.7	342.9	335.1
77.5°	498.8	498.8	498.8	492.9	489.0	483.2	477.3	469.6	461.8	452.0	440.3
75°	637.1	637.1	637.1	629.3	623.5	617.6	607.9	598.1	586.5	572.8	557.2
72.5°	787.1	787.1	787.1	777.4	771.6	761.8	750.1	736.5	722.8	705.3	685.8
70°	948.9	948.9	948.9	937.2	927.4	917.7	902.1	886.5	867.0	847.5	824.2
67.5°	1124.2	1124.2	1124.2	1110.6	1098.9	1085.2	1067.7	1048.2	1024.8	997.6	970.3
65°	1328.8	1328.8	1321.0	1309.3	1295.7	1276.2	1254.7	1227.5	1198.2	1163.2	1126.2
62.5°	1570.4	1570.4	1558.7	1545.1	1527.5	1502.2	1473.0	1437.9	1397.0	1352.2	1307.4
60°	1850.9	1850.9	1837.3	1819.8	1794.4	1763.3	1724.3	1679.5	1628.8	1572.3	1517.8
57.5°	2174.4	2174.4	2156.8	2133.5	2102.3	2063.3	2014.6	1958.1	1893.8	1823.7	1755.5
55°	2525.1	2525.1	2503.7	2476.4	2439.4	2392.6	2334.1	2267.9	2190.0	2110.1	2022.4
52.5°	2897.2	2897.2	2871.9	2840.7	2797.9	2743.3	2677.1	2599.1	2509.5	2416.0	2312.7
50°	3288.8	3288.8	3259.6	3224.5	3175.8	3111.5	3035.6	2945.9	2846.6	2737.5	2618.6
47.5°	3707.7	3707.7	3674.6	3633.7	3575.3	3501.2	3411.6	3308.3	3195.3	3072.6	2938.1
45°	4138.3	4138.3	4101.3	4054.5	3990.3	3906.5	3807.1	3707.7	3563.6	3421.3	3265.5
42.5°	4586.5	4586.5	4543.6	4491.0	4416.9	4325.4	4212.4	4083.8	3941.5	3781.8	3612.3
40°	5052.1	5052.1	5003.4	4943.0	4861.2	4756.0	4629.3	4485.1	4325.4	4148.1	3961.0
37.5°	5527.5	5527.5	5473.0	5406.7	5315.1	5198.2	5056.0	4896.2	4717.0	4520.2	4313.7
35°	6006.8	6006.8	5946.4	5874.3	5773.0	5644.4	5490.5	5313.2	5114.5	4900.1	4668.3
32.5°	6495.9	6495.9	6429.6	6347.8	6232.8	6090.6	5921.1	5728.2	5527.5	5278.1	5024.8
30°	6979.0	6979.0	6907.0	6817.3	6694.6	6538.7	6353.6	6141.2	5905.5	5650.3	5377.5
27.5°	7454.4	7435.0	7374.6	7279.1	7144.7	6979.0	6778.4	6548.5	6293.2	6012.7	5720.4
25°	7922.1	7900.6	7834.4	7729.2	7585.0	7403.8	7187.5	6942.0	6667.3	6371.2	6051.6
22.5°	8370.2	8346.8	8276.7	8163.7	8009.7	7812.9	7581.1	7318.1	7025.8	6708.2	6371.2
20°	8785.2	8759.9	8687.8	8568.9	8409.1	8200.7	7955.2	7672.7	7360.9	7025.8	6667.3
17.5°	9159.3	9133.9	9058.0	8935.2	8785.2	8553.3	8300.0	8001.9	7672.7	7318.1	6942.0
15°	9488.5	9461.3	9383.3	9260.6	9089.1	8870.9	8604.0	8300.0	7955.2	7581.1	7187.5
12.5°	9769.1	9741.8	9661.9	9539.2	9361.9	9143.7	8870.9	8553.3	8200.7	7812.9	7403.8
10°	9991.2	9963.9	9888.0	9771.1	9587.9	9361.9	9089.1	8785.2	8409.1	8009.7	7585.0
7.5°	10151.0	10125.7	10055.5	9938.6	9771.1	9539.2	9260.6	8935.2	8568.9	8163.7	7729.2
5°	10271.8	10242.6	10172.4	10055.5	9888.0	9661.9	9383.3	9058.0	8687.8	8276.7	7834.4
2.5°	10355.6	10320.5	10242.6	10125.7	9963.9	9741.8	9461.3	9133.9	8759.9	8346.8	7900.6
0°	10378.9	10355.6	10271.8	10151.0	9991.2	9769.1	9488.5	9159.3	8785.2	8370.2	7922.1

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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°	70.1	70.1	68.2	66.2	64.3	60.4	58.5	56.5	54.6	50.7	48.7
85°	148.1	144.2	140.3	136.4	130.5	126.6	120.8	116.9	111.1	105.2	99.4
82.5°	233.8	228.0	220.2	214.3	206.5	196.8	189.0	179.2	169.5	161.7	152.0
80°	327.3	317.6	307.8	298.1	286.4	274.7	263.0	251.3	237.7	224.1	210.4
77.5°	428.6	415.0	401.4	385.8	372.1	356.6	341.0	325.4	307.8	290.3	272.8
75°	541.6	524.1	504.6	485.1	467.6	446.2	424.7	403.3	379.9	358.5	335.1
72.5°	664.4	643.0	619.6	596.2	570.9	543.6	516.3	487.1	459.8	432.5	403.3
70°	796.9	771.6	742.3	713.1	681.9	648.8	615.7	580.6	545.5	510.5	475.4
67.5°	939.1	907.9	872.9	837.8	798.8	759.9	720.9	680.0	637.1	594.3	553.3
65°	1091.1	1052.1	1011.2	966.4	921.6	876.8	830.0	781.3	732.6	681.9	637.1
62.5°	1260.6	1211.9	1159.3	1104.7	1054.1	999.5	948.9	888.5	830.0	773.5	717.0
60°	1457.4	1393.1	1328.8	1260.6	1196.3	1126.2	1063.8	997.6	931.3	867.0	800.8
57.5°	1677.5	1595.7	1517.8	1435.9	1350.2	1272.3	1192.4	1112.5	1038.5	962.5	890.4
55°	1926.9	1827.6	1730.1	1628.8	1529.5	1432.0	1330.7	1241.1	1149.5	1063.8	980.0
52.5°	2199.7	2086.7	1965.9	1850.9	1724.3	1603.5	1490.5	1377.5	1270.3	1167.1	1071.6
50°	2492.0	2359.5	2221.1	2080.9	1936.7	1794.4	1658.1	1525.6	1400.9	1280.1	1167.1
47.5°	2795.9	2645.9	2488.1	2328.3	2174.4	2001.0	1837.3	1687.3	1537.3	1400.9	1270.3
45°	3107.6	2938.1	2764.7	2583.5	2402.3	2215.3	2034.1	1850.9	1687.3	1525.6	1377.5
42.5°	3429.1	3238.2	3045.3	2844.6	2643.9	2439.4	2234.8	2034.1	1837.3	1658.1	1490.5
40°	3760.3	3549.9	3329.8	3111.5	2897.2	2663.4	2439.4	2215.3	2001.0	1794.4	1603.5
37.5°	4091.6	3861.7	3624.0	3378.5	3133.0	2897.2	2643.9	2402.3	2174.4	1936.7	1724.3
35°	4424.7	4171.5	3914.3	3647.3	3378.5	3111.5	2844.6	2583.5	2328.3	2080.9	1850.9
32.5°	4759.9	4483.2	4198.7	3914.3	3624.0	3329.8	3045.3	2764.7	2488.1	2221.1	1965.9
30°	5089.1	4789.1	4483.2	4171.5	3861.7	3549.9	3238.2	2938.1	2645.9	2359.5	2086.7
27.5°	5410.6	5089.1	4759.9	4424.7	4091.6	3760.3	3429.1	3107.6	2795.9	2492.0	2199.7
25°	5720.4	5377.5	5024.8	4668.3	4313.7	3961.0	3612.3	3265.5	2938.1	2618.6	2312.7
22.5°	6012.7	5650.3	5278.1	4900.1	4520.2	4148.1	3781.8	3421.3	3072.6	2737.5	2416.0
20°	6293.2	5905.5	5527.5	5114.5	4717.0	4325.4	3941.5	3563.6	3195.3	2846.6	2509.5
17.5°	6548.5	6141.2	5728.2	5313.2	4896.2	4485.1	4083.8	3707.7	3308.3	2945.9	2599.1
15°	6778.4	6353.6	5921.1	5490.5	5056.0	4629.3	4212.4	3807.1	3411.6	3035.6	2677.1
12.5°	6979.0	6538.7	6090.6	5644.4	5198.2	4756.0	4325.4	3906.5	3501.2	3111.5	2743.3
10°	7144.7	6694.6	6232.8	5773.0	5315.1	4861.2	4416.9	3990.3	3575.3	3175.8	2797.9
7.5°	7279.1	6817.3	6347.8	5874.3	5406.7	4943.0	4491.0	4054.5	3633.7	3224.5	2840.7
5°	7374.6	6907.0	6429.6	5946.4	5473.0	5003.4	4543.6	4101.3	3674.6	3259.6	2871.9
2.5°	7435.0	6979.0	6495.9	6006.8	5527.5	5052.1	4586.5	4138.3	3707.7	3288.8	2897.2
0°	7454.4	6979.0	6495.9	6006.8	5527.5	5052.1	4586.5	4138.3	3707.7	3288.8	2897.2

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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°	46.8	42.9	39.0	37.0	33.1	31.2	27.3	23.4	21.4	17.5	13.6
85°	93.5	85.7	79.9	74.0	68.2	60.4	54.6	48.7	40.9	35.1	27.3
82.5°	142.2	132.5	122.7	113.0	103.3	93.5	81.8	72.1	62.3	52.6	40.9
80°	196.8	181.2	167.6	153.9	140.3	126.6	111.1	97.4	81.8	68.2	54.6
77.5°	253.3	235.8	216.3	196.8	177.3	159.8	140.3	122.7	105.2	85.7	68.2
75°	313.7	290.3	268.9	243.5	220.2	194.8	171.5	148.1	126.6	105.2	81.8
72.5°	376.0	346.8	317.6	290.3	261.1	231.9	204.6	175.4	148.1	122.7	97.4
70°	440.3	405.3	370.2	337.1	303.9	268.9	237.7	204.6	171.5	140.3	111.1
67.5°	508.5	467.6	426.7	383.8	346.8	307.8	268.9	231.9	194.8	159.8	126.6
65°	582.6	533.9	483.2	438.4	389.7	346.8	303.9	261.1	220.2	177.3	140.3
62.5°	658.5	602.0	545.5	489.0	438.4	383.8	337.1	290.3	243.5	196.8	153.9
60°	736.5	672.2	607.9	545.5	483.2	426.7	370.2	317.6	268.9	216.3	167.6
57.5°	816.4	744.3	672.2	602.0	533.9	467.6	405.3	346.8	290.3	235.8	181.2
55°	898.2	816.4	736.5	658.5	582.6	508.5	440.3	376.0	313.7	253.3	196.8
52.5°	980.0	890.4	800.8	717.0	637.1	553.3	475.4	403.3	335.1	272.8	210.4
50°	1063.8	962.5	867.0	773.5	681.9	594.3	510.5	432.5	358.5	290.3	224.1
47.5°	1149.5	1038.5	931.3	830.0	732.6	637.1	545.5	459.8	379.9	307.8	237.7
45°	1241.1	1112.5	997.6	888.5	781.3	680.0	580.6	487.1	403.3	325.4	251.3
42.5°	1330.7	1192.4	1063.8	948.9	830.0	720.9	615.7	516.3	424.7	341.0	263.0
40°	1432.0	1272.3	1126.2	999.5	876.8	759.9	648.8	543.6	446.2	356.6	274.7
37.5°	1529.5	1350.2	1196.3	1054.1	921.6	798.8	681.9	570.9	467.6	372.1	286.4
35°	1628.8	1435.9	1260.6	1104.7	966.4	837.8	713.1	596.2	485.1	385.8	298.1
32.5°	1730.1	1517.8	1328.8	1159.3	1011.2	872.9	742.3	619.6	504.6	401.4	307.8
30°	1827.6	1595.7	1393.1	1211.9	1052.1	907.9	771.6	643.0	524.1	415.0	317.6
27.5°	1926.9	1677.5	1457.4	1260.6	1091.1	939.1	796.9	664.4	541.6	428.6	327.3
25°	2022.4	1755.5	1517.8	1307.4	1126.2	970.3	824.2	685.8	557.2	440.3	335.1
22.5°	2110.1	1823.7	1572.3	1352.2	1163.2	997.6	847.5	705.3	572.8	452.0	342.9
20°	2190.0	1893.8	1628.8	1397.0	1198.2	1024.8	867.0	722.8	586.5	461.8	350.7
17.5°	2267.9	1958.1	1679.5	1437.9	1227.5	1048.2	886.5	736.5	598.1	469.6	356.6
15°	2334.1	2014.6	1724.3	1473.0	1254.7	1067.7	902.1	750.1	607.9	477.3	360.4
12.5°	2392.6	2063.3	1763.3	1502.2	1276.2	1085.2	917.7	761.8	617.6	483.2	366.3
10°	2439.4	2102.3	1794.4	1527.5	1295.7	1098.9	927.4	771.6	623.5	489.0	370.2
7.5°	2476.4	2133.5	1819.8	1545.1	1309.3	1110.6	937.2	777.4	629.3	492.9	376.0
5°	2503.7	2156.8	1837.3	1558.7	1321.0	1124.2	948.9	787.1	637.1	498.8	376.0
2.5°	2525.1	2174.4	1850.9	1570.4	1328.8	1124.2	948.9	787.1	637.1	498.8	376.0
0°	2525.1	2174.4	1850.9	1570.4	1328.8	1124.2	948.9	787.1	637.1	498.8	376.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.7	7.8	3.9	0.0
85°	21.4	13.6	7.8	0.0
82.5°	31.2	21.4	9.7	0.0
80°	40.9	27.3	13.6	0.0
77.5°	52.6	35.1	17.5	0.0
75°	62.3	40.9	21.4	0.0
72.5°	72.1	48.7	23.4	0.0
70°	81.8	54.6	27.3	0.0
67.5°	93.5	60.4	31.2	0.0
65°	103.3	68.2	33.1	0.0
62.5°	113.0	74.0	37.0	0.0
60°	122.7	79.9	39.0	0.0
57.5°	132.5	85.7	42.9	0.0
55°	142.2	93.5	46.8	0.0
52.5°	152.0	99.4	48.7	0.0
50°	161.7	105.2	50.7	0.0
47.5°	169.5	111.1	54.6	0.0
45°	179.2	116.9	56.5	0.0
42.5°	189.0	120.8	58.5	0.0
40°	196.8	126.6	60.4	0.0
37.5°	206.5	130.5	64.3	0.0
35°	214.3	136.4	66.2	0.0
32.5°	220.2	140.3	68.2	0.0
30°	228.0	144.2	70.1	0.0
27.5°	233.8	148.1	70.1	0.0
25°	239.6	152.0	72.1	0.0
22.5°	245.5	153.9	74.0	0.0
20°	251.3	157.8	76.0	0.0
17.5°	255.2	159.8	76.0	0.0
15°	259.1	161.7	79.9	0.0
12.5°	261.1	163.7	79.9	0.0
10°	265.0	167.6	79.9	0.0
7.5°	268.9	167.6	79.9	0.0
5°	268.9	167.6	79.9	0.0
2.5°	268.9	167.6	79.9	0.0
0°	268.9	167.6	79.9	0.0

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