

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: P624035

Luminaire Tested: **IFLD-L-SA7B-827-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624035
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27178.2 lumens	Max Intensity:	15094.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	96.7 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:	11759.7 lumens	Field Lumens:	19256.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

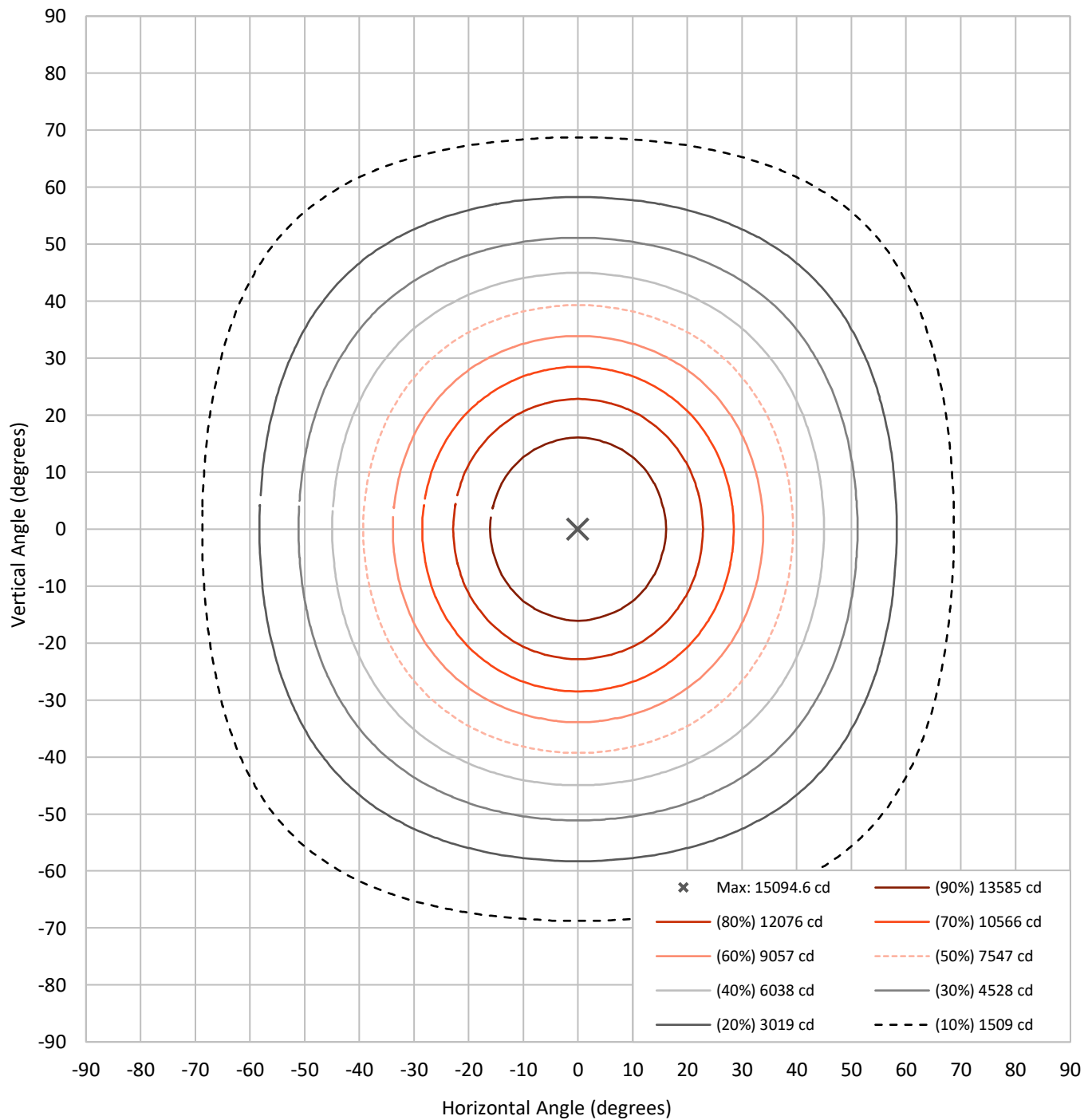
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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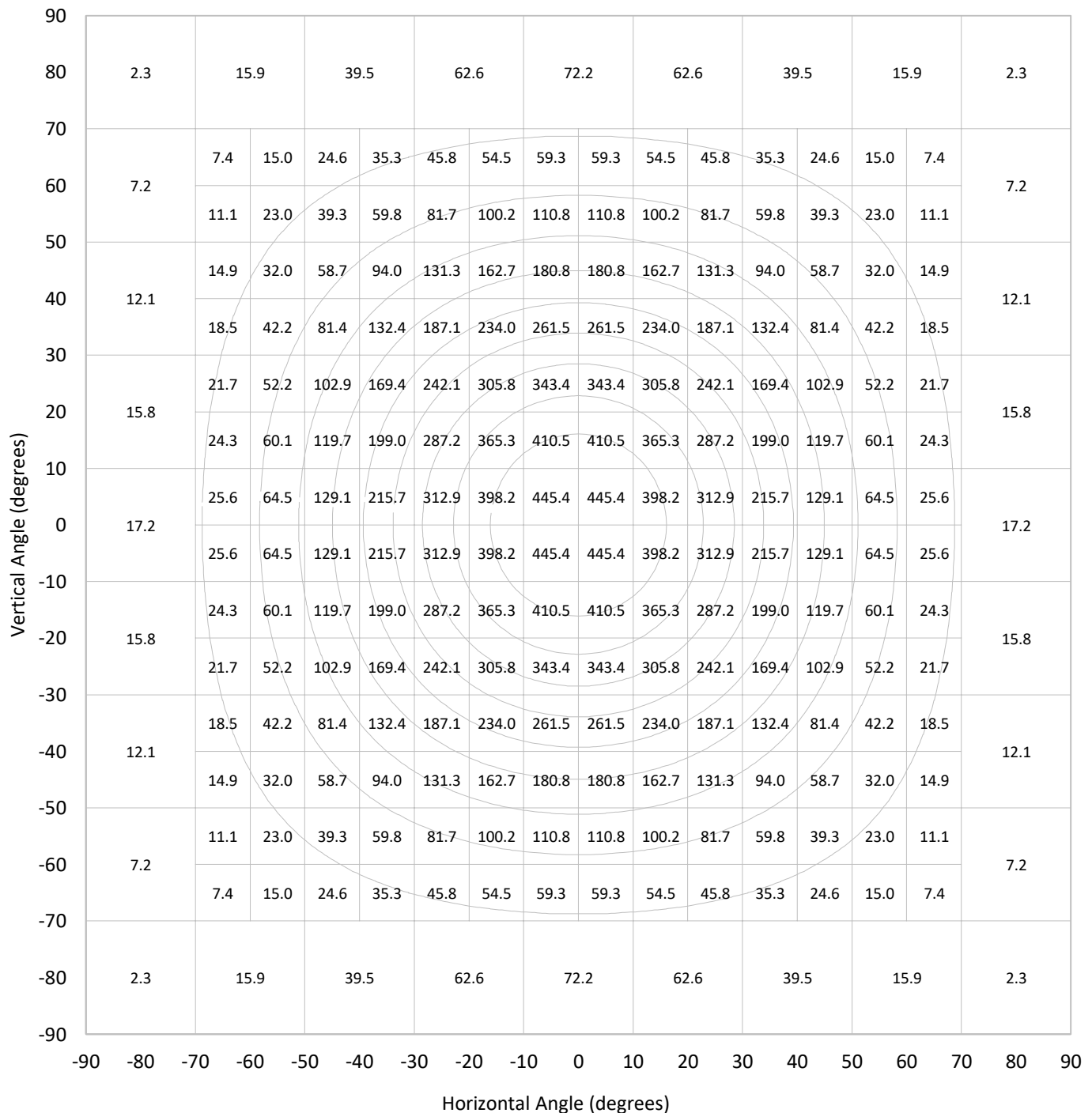
Iso-Candela Plot



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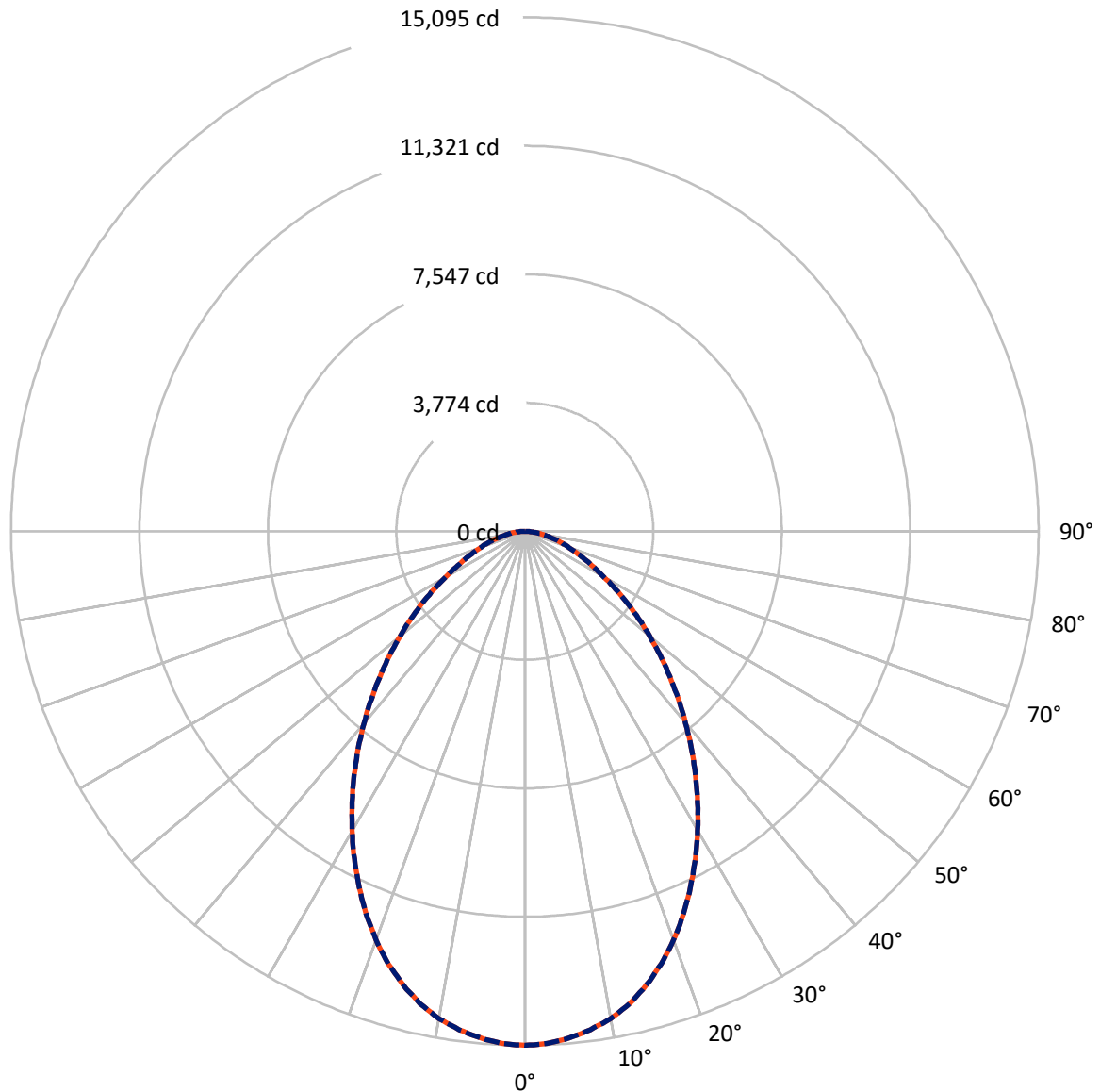
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Lumen Table



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Luminous Intensity Polar Plot

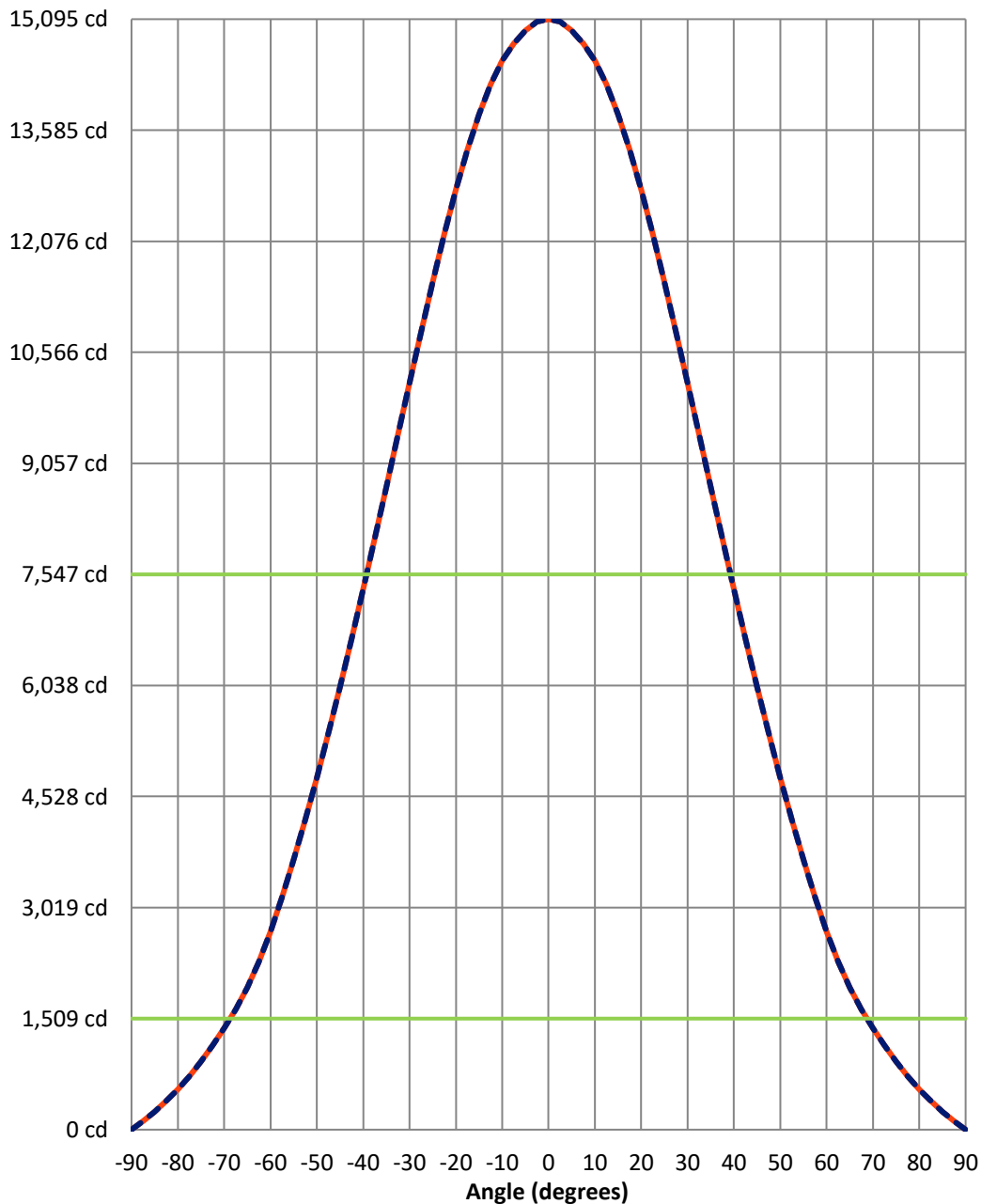


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11759.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 19256.2
Efficiency: 70.9%

Spill:

Lumens: 7922
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°	116.2	116.2	116.2	116.2	116.2	116.2	116.2	110.5	110.5	107.7	104.8
85°	243.7	243.7	243.7	243.7	243.7	238.0	235.2	232.4	229.5	223.9	221.0
82.5°	391.0	391.0	391.0	391.0	385.4	379.7	376.9	371.2	365.5	357.0	348.5
80°	546.9	546.9	546.9	546.9	538.4	532.7	524.2	518.5	510.0	498.7	487.4
77.5°	725.4	725.4	725.4	716.9	711.2	702.7	694.2	682.9	671.6	657.4	640.4
75°	926.6	926.6	926.6	915.3	906.8	898.3	884.1	869.9	852.9	833.1	810.4
72.5°	1144.8	1144.8	1144.8	1130.6	1122.1	1107.9	1090.9	1071.1	1051.3	1025.8	997.4
70°	1380.0	1380.0	1380.0	1363.0	1348.8	1334.6	1312.0	1289.3	1261.0	1232.6	1198.6
67.5°	1635.0	1635.0	1635.0	1615.2	1598.2	1578.3	1552.8	1524.5	1490.5	1450.8	1411.1
65°	1932.5	1932.5	1921.2	1904.2	1884.3	1856.0	1824.8	1785.2	1742.7	1691.7	1637.8
62.5°	2283.9	2283.9	2266.9	2247.0	2221.5	2184.7	2142.2	2091.2	2031.7	1966.5	1901.3
60°	2691.9	2691.9	2672.1	2646.6	2609.8	2564.4	2507.7	2442.6	2368.9	2286.7	2207.4
57.5°	3162.3	3162.3	3136.8	3102.8	3057.5	3000.8	2929.9	2847.8	2754.3	2652.3	2553.1
55°	3672.4	3672.4	3641.2	3601.5	3547.7	3479.7	3394.7	3298.3	3185.0	3068.8	2941.3
52.5°	4213.6	4213.6	4176.7	4131.4	4069.1	3989.7	3893.4	3780.0	3649.7	3513.7	3363.5
50°	4783.1	4783.1	4740.6	4689.6	4618.8	4525.3	4414.8	4284.4	4139.9	3981.2	3808.4
47.5°	5392.4	5392.4	5344.2	5284.7	5199.7	5092.0	4961.6	4811.5	4647.1	4468.6	4273.1
45°	6018.6	6018.6	5964.7	5896.7	5803.2	5681.4	5536.9	5392.4	5182.7	4975.8	4749.1
42.5°	6670.3	6670.3	6608.0	6531.5	6423.8	6290.6	6126.3	5939.2	5732.4	5500.0	5253.5
40°	7347.5	7347.5	7276.7	7188.9	7069.8	6916.8	6732.6	6523.0	6290.6	6032.7	5760.7
37.5°	8038.9	8038.9	7959.6	7863.3	7730.1	7560.1	7353.2	7120.9	6860.2	6574.0	6273.6
35°	8736.0	8736.0	8648.2	8543.3	8396.0	8209.0	7985.1	7727.2	7438.2	7126.5	6789.3
32.5°	9447.2	9447.2	9350.9	9231.9	9064.7	8857.9	8611.3	8330.8	8038.9	7676.2	7307.9
30°	10150.0	10150.0	10045.1	9914.8	9736.3	9509.6	9240.4	8931.5	8588.7	8217.5	7820.8
27.5°	10841.4	10813.0	10725.2	10586.4	10390.8	10150.0	9858.1	9523.7	9152.5	8744.5	8319.5
25°	11521.4	11490.3	11393.9	11240.9	11031.2	10767.7	10453.2	10096.1	9696.6	9265.9	8801.2
22.5°	12173.2	12139.2	12037.2	11872.8	11649.0	11362.8	11025.6	10643.0	10218.0	9756.1	9265.9
20°	12776.7	12739.9	12635.0	12462.2	12229.8	11926.6	11569.6	11158.7	10705.4	10218.0	9696.6
17.5°	13320.8	13283.9	13173.4	12994.9	12776.7	12439.5	12071.2	11637.6	11158.7	10643.0	10096.1
15°	13799.7	13760.0	13646.6	13468.1	13218.8	12901.4	12513.2	12071.2	11569.6	11025.6	10453.2
12.5°	14207.7	14168.0	14051.9	13873.3	13615.5	13298.1	12901.4	12439.5	11926.6	11362.8	10767.7
10°	14530.7	14491.1	14380.5	14210.5	13944.2	13615.5	13218.8	12776.7	12229.8	11649.0	11031.2
7.5°	14763.1	14726.2	14624.2	14454.2	14210.5	13873.3	13468.1	12994.9	12462.2	11872.8	11240.9
5°	14938.8	14896.3	14794.3	14624.2	14380.5	14051.9	13646.6	13173.4	12635.0	12037.2	11393.9
2.5°	15060.6	15009.6	14896.3	14726.2	14491.1	14168.0	13760.0	13283.9	12739.9	12139.2	11490.3
0°	15094.6	15060.6	14938.8	14763.1	14530.7	14207.7	13799.7	13320.8	12776.7	12173.2	11521.4

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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°	102.0	102.0	99.2	96.3	93.5	87.8	85.0	82.2	79.3	73.7	70.8
85°	215.4	209.7	204.0	198.4	189.9	184.2	175.7	170.0	161.5	153.0	144.5
82.5°	340.0	331.5	320.2	311.7	300.4	286.2	274.9	260.7	246.5	235.2	221.0
80°	476.0	461.9	447.7	433.5	416.5	399.5	382.5	365.5	345.7	325.9	306.0
77.5°	623.4	603.6	583.7	561.1	541.2	518.5	495.9	473.2	447.7	422.2	396.7
75°	787.7	762.2	733.9	705.6	680.1	648.9	617.7	586.6	552.6	521.4	487.4
72.5°	966.3	935.1	901.1	867.1	830.2	790.6	750.9	708.4	668.7	629.1	586.6
70°	1158.9	1122.1	1079.6	1037.1	991.8	943.6	895.4	844.4	793.4	742.4	691.4
67.5°	1365.8	1320.5	1269.5	1218.5	1161.8	1105.1	1048.4	988.9	926.6	864.2	804.7
65°	1586.8	1530.1	1470.6	1405.5	1340.3	1275.1	1207.1	1136.3	1065.4	991.8	926.6
62.5°	1833.3	1762.5	1686.0	1606.7	1533.0	1453.6	1380.0	1292.1	1207.1	1124.9	1042.8
60°	2119.5	2026.0	1932.5	1833.3	1739.8	1637.8	1547.1	1450.8	1354.5	1261.0	1164.6
57.5°	2439.7	2320.7	2207.4	2088.4	1963.7	1850.3	1734.2	1618.0	1510.3	1399.8	1295.0
55°	2802.4	2657.9	2516.2	2368.9	2224.4	2082.7	1935.4	1805.0	1671.8	1547.1	1425.3
52.5°	3199.1	3034.8	2859.1	2691.9	2507.7	2332.1	2167.7	2003.4	1847.5	1697.3	1558.5
50°	3624.2	3431.5	3230.3	3026.3	2816.6	2609.8	2411.4	2218.7	2037.4	1861.7	1697.3
47.5°	4066.2	3848.0	3618.5	3386.2	3162.3	2910.1	2672.1	2453.9	2235.7	2037.4	1847.5
45°	4519.6	4273.1	4020.9	3757.4	3493.8	3221.8	2958.3	2691.9	2453.9	2218.7	2003.4
42.5°	4987.1	4709.5	4428.9	4137.1	3845.2	3547.7	3250.1	2958.3	2672.1	2411.4	2167.7
40°	5468.9	5162.8	4842.6	4525.3	4213.6	3873.5	3547.7	3221.8	2910.1	2609.8	2332.1
37.5°	5950.6	5616.2	5270.5	4913.5	4556.4	4213.6	3845.2	3493.8	3162.3	2816.6	2507.7
35°	6435.1	6066.7	5692.7	5304.5	4913.5	4525.3	4137.1	3757.4	3386.2	3026.3	2691.9
32.5°	6922.5	6520.1	6106.4	5692.7	5270.5	4842.6	4428.9	4020.9	3618.5	3230.3	2859.1
30°	7401.4	6965.0	6520.1	6066.7	5616.2	5162.8	4709.5	4273.1	3848.0	3431.5	3034.8
27.5°	7868.9	7401.4	6922.5	6435.1	5950.6	5468.9	4987.1	4519.6	4066.2	3624.2	3199.1
25°	8319.5	7820.8	7307.9	6789.3	6273.6	5760.7	5253.5	4749.1	4273.1	3808.4	3363.5
22.5°	8744.5	8217.5	7676.2	7126.5	6574.0	6032.7	5500.0	4975.8	4468.6	3981.2	3513.7
20°	9152.5	8588.7	8038.9	7438.2	6860.2	6290.6	5732.4	5182.7	4647.1	4139.9	3649.7
17.5°	9523.7	8931.5	8330.8	7727.2	7120.9	6523.0	5939.2	5392.4	4811.5	4284.4	3780.0
15°	9858.1	9240.4	8611.3	7985.1	7353.2	6732.6	6126.3	5536.9	4961.6	4414.8	3893.4
12.5°	10150.0	9509.6	8857.9	8209.0	7560.1	6916.8	6290.6	5681.4	5092.0	4525.3	3989.7
10°	10390.8	9736.3	9064.7	8396.0	7730.1	7069.8	6423.8	5803.2	5199.7	4618.8	4069.1
7.5°	10586.4	9914.8	9231.9	8543.3	7863.3	7188.9	6531.5	5896.7	5284.7	4689.6	4131.4
5°	10725.2	10045.1	9350.9	8648.2	7959.6	7276.7	6608.0	5964.7	5344.2	4740.6	4176.7
2.5°	10813.0	10150.0	9447.2	8736.0	8038.9	7347.5	6670.3	6018.6	5392.4	4783.1	4213.6
0°	10841.4	10150.0	9447.2	8736.0	8038.9	7347.5	6670.3	6018.6	5392.4	4783.1	4213.6

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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°	68.0	62.3	56.7	53.8	48.2	45.3	39.7	34.0	31.2	25.5	19.8
85°	136.0	124.7	116.2	107.7	99.2	87.8	79.3	70.8	59.5	51.0	39.7
82.5°	206.9	192.7	178.5	164.3	150.2	136.0	119.0	104.8	90.7	76.5	59.5
80°	286.2	263.5	243.7	223.9	204.0	184.2	161.5	141.7	119.0	99.2	79.3
77.5°	368.4	342.9	314.5	286.2	257.9	232.4	204.0	178.5	153.0	124.7	99.2
75°	456.2	422.2	391.0	354.2	320.2	283.4	249.4	215.4	184.2	153.0	119.0
72.5°	546.9	504.4	461.9	422.2	379.7	337.2	297.5	255.0	215.4	178.5	141.7
70°	640.4	589.4	538.4	490.2	442.0	391.0	345.7	297.5	249.4	204.0	161.5
67.5°	739.6	680.1	620.6	558.2	504.4	447.7	391.0	337.2	283.4	232.4	184.2
65°	847.2	776.4	702.7	637.6	566.7	504.4	442.0	379.7	320.2	257.9	204.0
62.5°	957.8	875.6	793.4	711.2	637.6	558.2	490.2	422.2	354.2	286.2	223.9
60°	1071.1	977.6	884.1	793.4	702.7	620.6	538.4	461.9	391.0	314.5	243.7
57.5°	1187.3	1082.4	977.6	875.6	776.4	680.1	589.4	504.4	422.2	342.9	263.5
55°	1306.3	1187.3	1071.1	957.8	847.2	739.6	640.4	546.9	456.2	368.4	286.2
52.5°	1425.3	1295.0	1164.6	1042.8	926.6	804.7	691.4	586.6	487.4	396.7	306.0
50°	1547.1	1399.8	1261.0	1124.9	991.8	864.2	742.4	629.1	521.4	422.2	325.9
47.5°	1671.8	1510.3	1354.5	1207.1	1065.4	926.6	793.4	668.7	552.6	447.7	345.7
45°	1805.0	1618.0	1450.8	1292.1	1136.3	988.9	844.4	708.4	586.6	473.2	365.5
42.5°	1935.4	1734.2	1547.1	1380.0	1207.1	1048.4	895.4	750.9	617.7	495.9	382.5
40°	2082.7	1850.3	1637.8	1453.6	1275.1	1105.1	943.6	790.6	648.9	518.5	399.5
37.5°	2224.4	1963.7	1739.8	1533.0	1340.3	1161.8	991.8	830.2	680.1	541.2	416.5
35°	2368.9	2088.4	1833.3	1606.7	1405.5	1218.5	1037.1	867.1	705.6	561.1	433.5
32.5°	2516.2	2207.4	1932.5	1686.0	1470.6	1269.5	1079.6	901.1	733.9	583.7	447.7
30°	2657.9	2320.7	2026.0	1762.5	1530.1	1320.5	1122.1	935.1	762.2	603.6	461.9
27.5°	2802.4	2439.7	2119.5	1833.3	1586.8	1365.8	1158.9	966.3	787.7	623.4	476.0
25°	2941.3	2553.1	2207.4	1901.3	1637.8	1411.1	1198.6	997.4	810.4	640.4	487.4
22.5°	3068.8	2652.3	2286.7	1966.5	1691.7	1450.8	1232.6	1025.8	833.1	657.4	498.7
20°	3185.0	2754.3	2368.9	2031.7	1742.7	1490.5	1261.0	1051.3	852.9	671.6	510.0
17.5°	3298.3	2847.8	2442.6	2091.2	1785.2	1524.5	1289.3	1071.1	869.9	682.9	518.5
15°	3394.7	2929.9	2507.7	2142.2	1824.8	1552.8	1312.0	1090.9	884.1	694.2	524.2
12.5°	3479.7	3000.8	2564.4	2184.7	1856.0	1578.3	1334.6	1107.9	898.3	702.7	532.7
10°	3547.7	3057.5	2609.8	2221.5	1884.3	1598.2	1348.8	1122.1	906.8	711.2	538.4
7.5°	3601.5	3102.8	2646.6	2247.0	1904.2	1615.2	1363.0	1130.6	915.3	716.9	546.9
5°	3641.2	3136.8	2672.1	2266.9	1921.2	1635.0	1380.0	1144.8	926.6	725.4	546.9
2.5°	3672.4	3162.3	2691.9	2283.9	1932.5	1635.0	1380.0	1144.8	926.6	725.4	546.9
0°	3672.4	3162.3	2691.9	2283.9	1932.5	1635.0	1380.0	1144.8	926.6	725.4	546.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.2	11.3	5.7	0.0
85°	31.2	19.8	11.3	0.0
82.5°	45.3	31.2	14.2	0.0
80°	59.5	39.7	19.8	0.0
77.5°	76.5	51.0	25.5	0.0
75°	90.7	59.5	31.2	0.0
72.5°	104.8	70.8	34.0	0.0
70°	119.0	79.3	39.7	0.0
67.5°	136.0	87.8	45.3	0.0
65°	150.2	99.2	48.2	0.0
62.5°	164.3	107.7	53.8	0.0
60°	178.5	116.2	56.7	0.0
57.5°	192.7	124.7	62.3	0.0
55°	206.9	136.0	68.0	0.0
52.5°	221.0	144.5	70.8	0.0
50°	235.2	153.0	73.7	0.0
47.5°	246.5	161.5	79.3	0.0
45°	260.7	170.0	82.2	0.0
42.5°	274.9	175.7	85.0	0.0
40°	286.2	184.2	87.8	0.0
37.5°	300.4	189.9	93.5	0.0
35°	311.7	198.4	96.3	0.0
32.5°	320.2	204.0	99.2	0.0
30°	331.5	209.7	102.0	0.0
27.5°	340.0	215.4	102.0	0.0
25°	348.5	221.0	104.8	0.0
22.5°	357.0	223.9	107.7	0.0
20°	365.5	229.5	110.5	0.0
17.5°	371.2	232.4	110.5	0.0
15°	376.9	235.2	116.2	0.0
12.5°	379.7	238.0	116.2	0.0
10°	385.4	243.7	116.2	0.0
7.5°	391.0	243.7	116.2	0.0
5°	391.0	243.7	116.2	0.0
2.5°	391.0	243.7	116.2	0.0
0°	391.0	243.7	116.2	0.0

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