

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: P624550

Luminaire Tested: **IFLD-L-SA8B-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624550
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27041.9 lumens	Max Intensity:	15018.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	84.5 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:	11700.8 lumens	Field Lumens:	19159.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

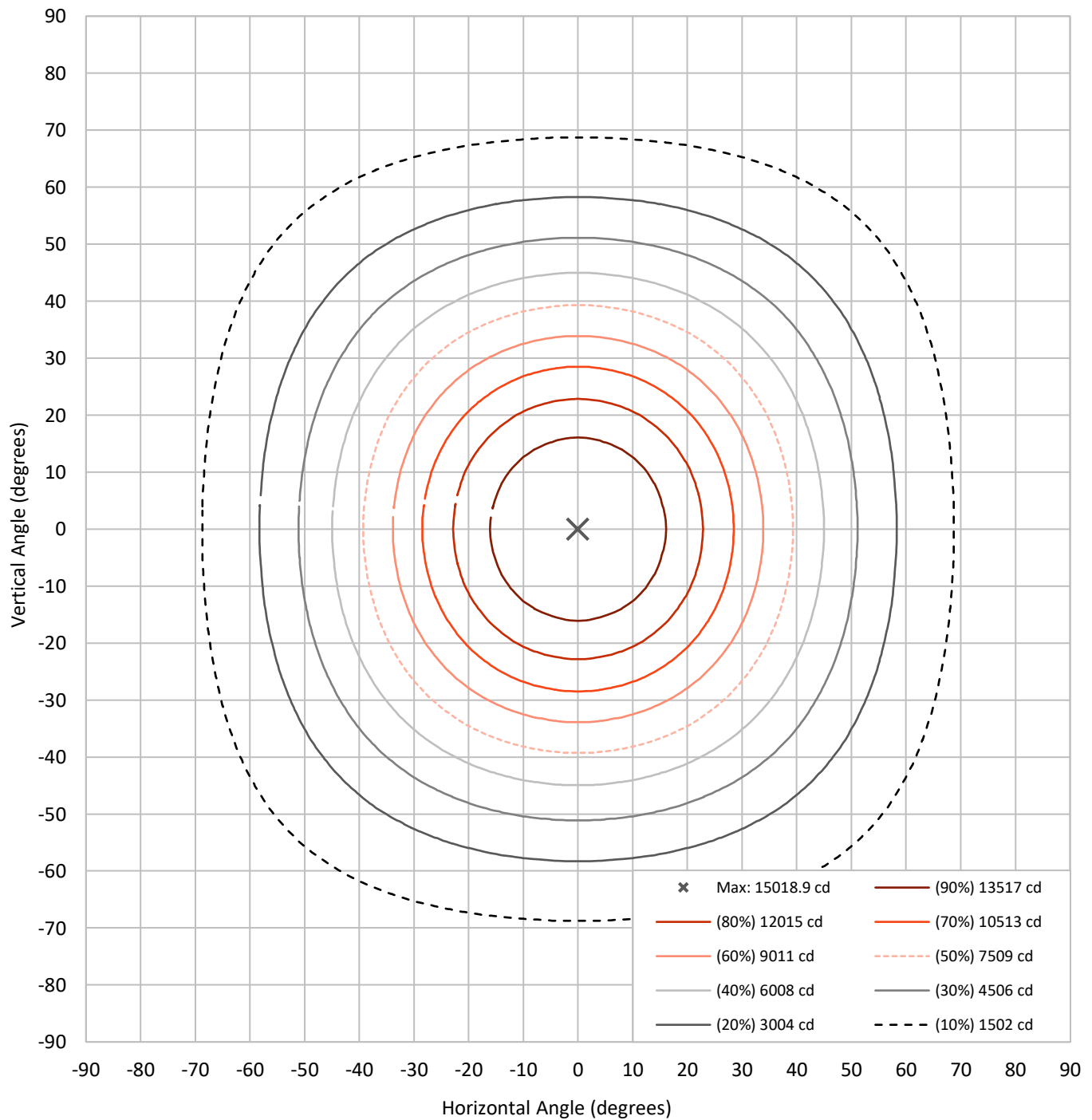
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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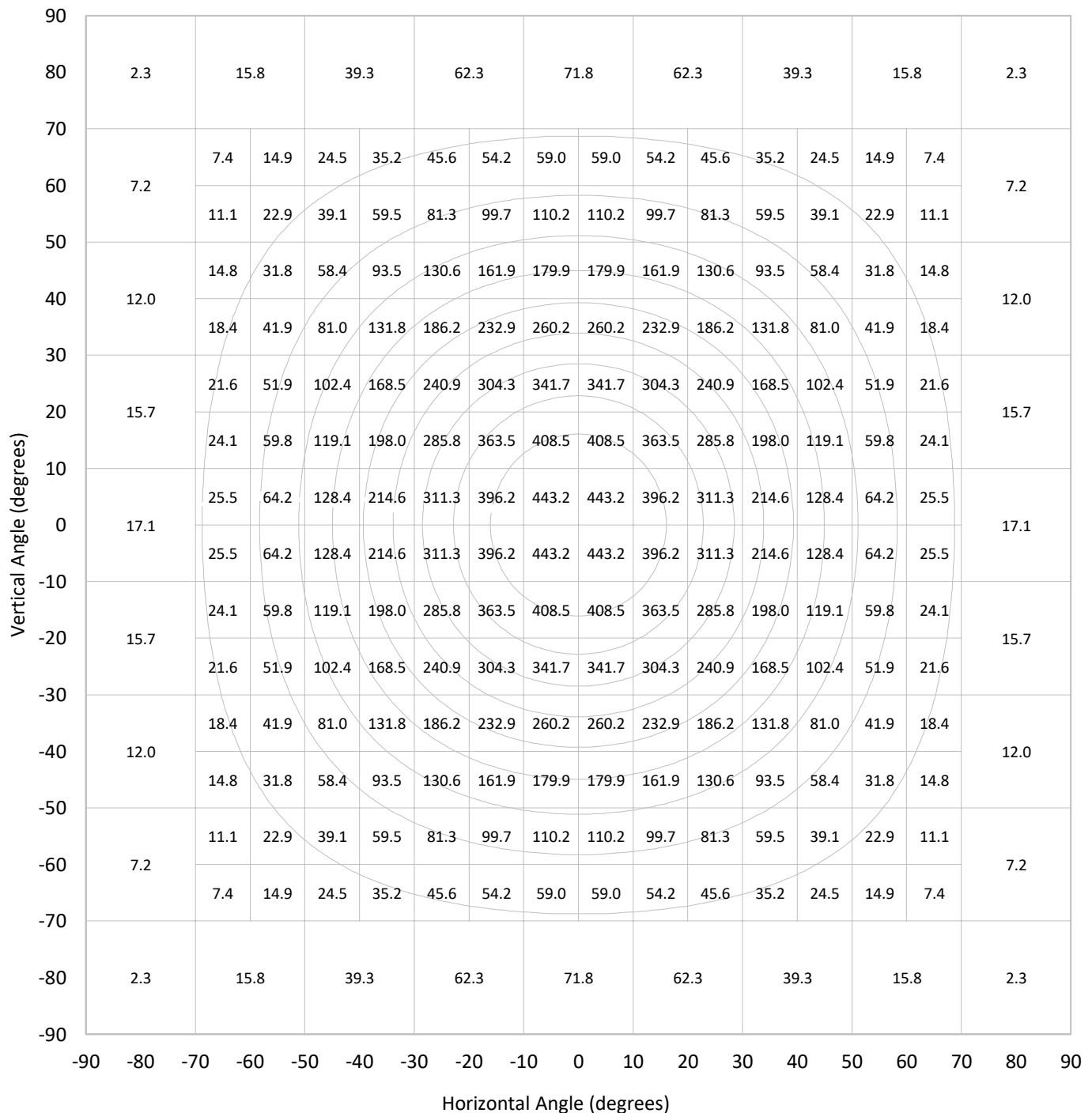
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Iso-Candela Plot



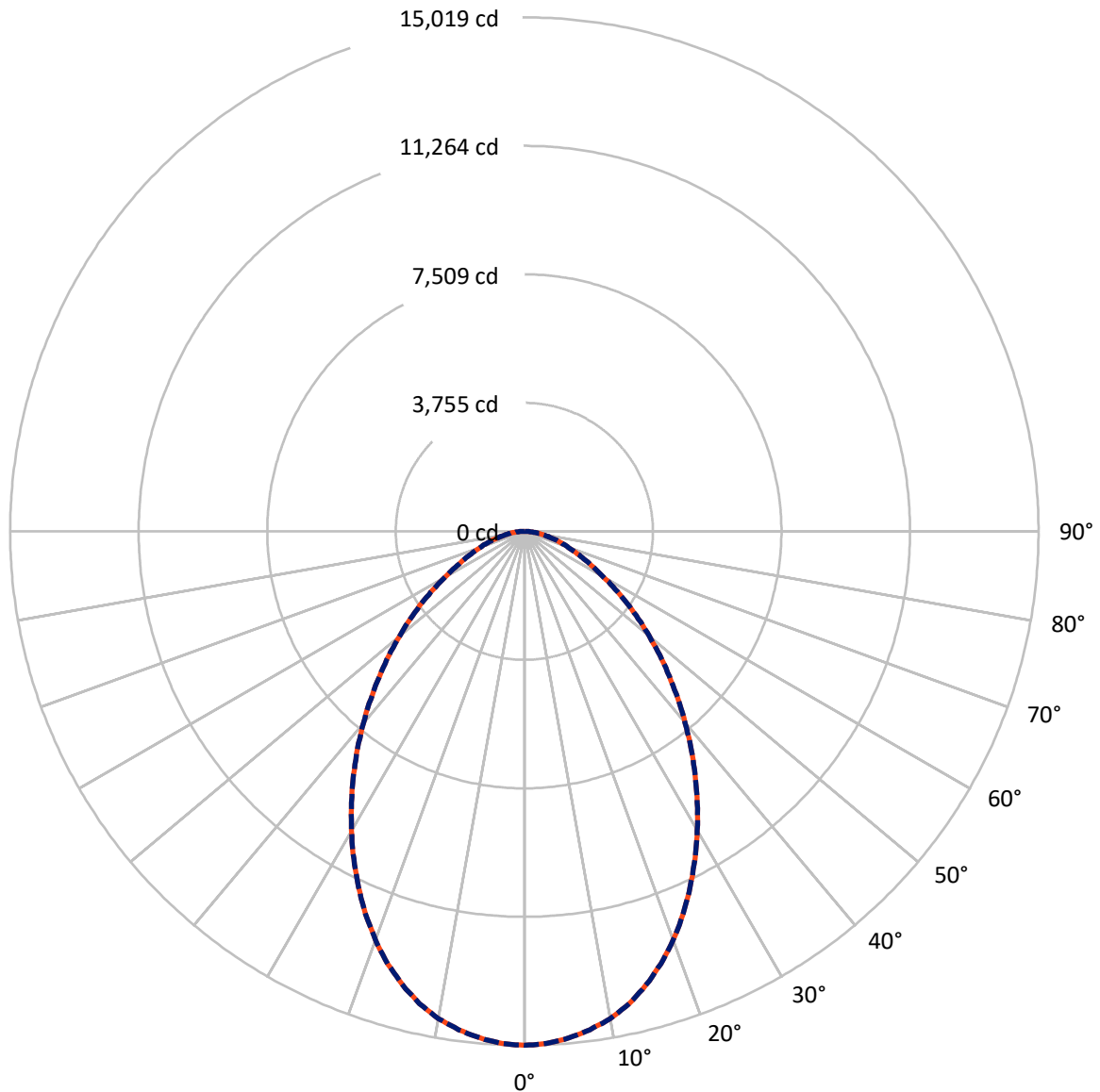
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Lumen Table



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Luminous Intensity Polar Plot

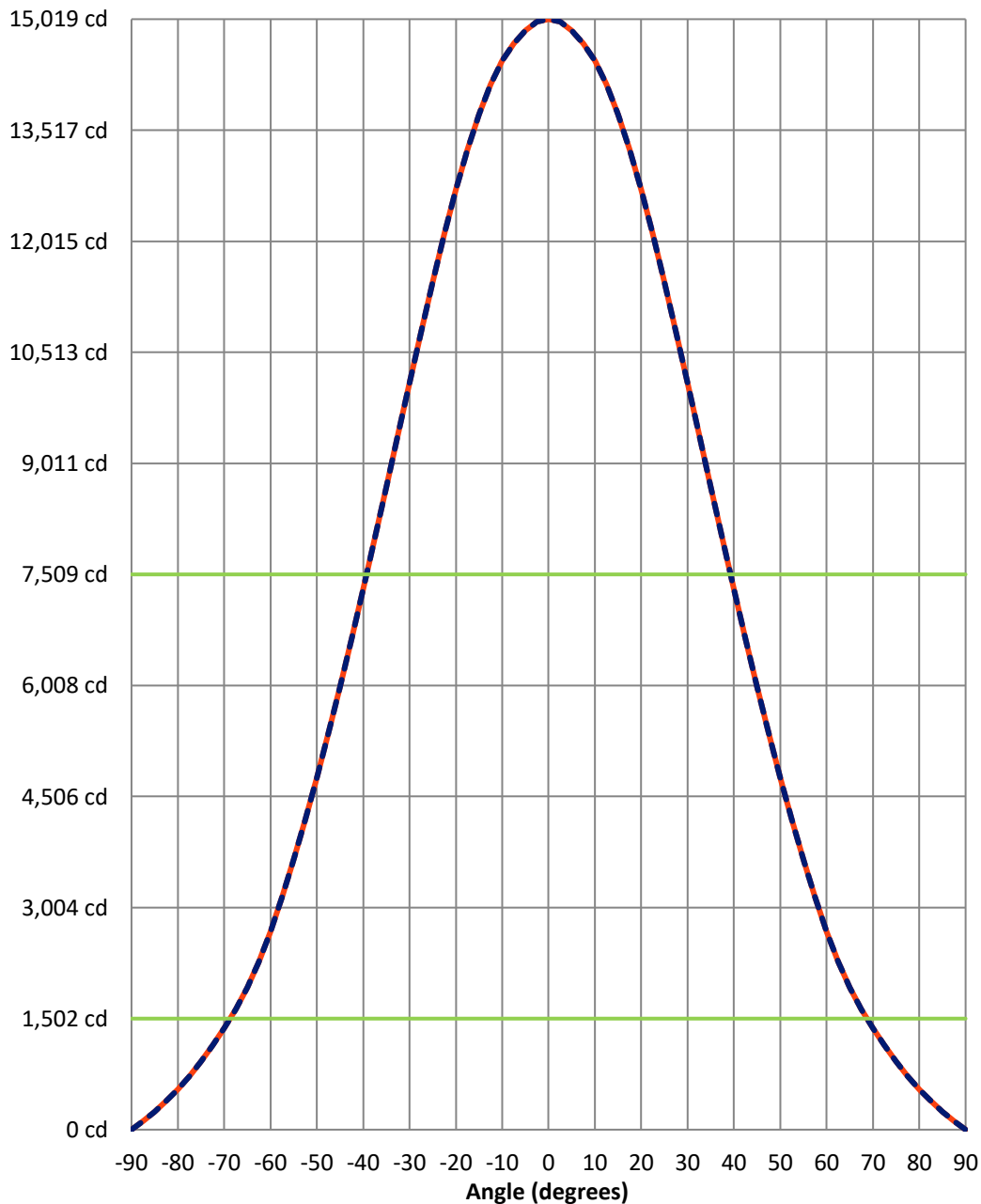


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11700.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 19159.6
Efficiency: 70.9%

Spill:

Lumens: 7882.3
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°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	110.0	110.0	107.1	104.3
85°	242.5	242.5	242.5	242.5	242.5	236.8	234.0	231.2	228.4	222.7	219.9
82.5°	389.1	389.1	389.1	389.1	383.4	377.8	375.0	369.3	363.7	355.2	346.8
80°	544.1	544.1	544.1	544.1	535.7	530.0	521.6	515.9	507.5	496.2	484.9
77.5°	721.8	721.8	721.8	713.3	707.7	699.2	690.8	679.5	668.2	654.1	637.2
75°	921.9	921.9	921.9	910.7	902.2	893.7	879.7	865.6	848.6	828.9	806.3
72.5°	1139.0	1139.0	1139.0	1124.9	1116.5	1102.4	1085.5	1065.7	1046.0	1020.6	992.4
70°	1373.0	1373.0	1373.0	1356.1	1342.0	1327.9	1305.4	1282.8	1254.6	1226.4	1192.6
67.5°	1626.8	1626.8	1626.8	1607.1	1590.1	1570.4	1545.0	1516.8	1483.0	1443.5	1404.1
65°	1922.8	1922.8	1911.6	1894.6	1874.9	1846.7	1815.7	1776.2	1733.9	1683.2	1629.6
62.5°	2272.4	2272.4	2255.5	2235.8	2210.4	2173.8	2131.5	2080.7	2021.5	1956.7	1891.8
60°	2678.4	2678.4	2658.7	2633.3	2596.7	2551.6	2495.2	2430.3	2357.0	2275.3	2196.3
57.5°	3146.4	3146.4	3121.1	3087.2	3042.1	2985.7	2915.3	2833.5	2740.5	2639.0	2540.3
55°	3653.9	3653.9	3622.9	3583.5	3529.9	3462.2	3377.6	3281.8	3169.0	3053.4	2926.5
52.5°	4192.4	4192.4	4155.8	4110.7	4048.7	3969.7	3873.8	3761.1	3631.4	3496.1	3346.6
50°	4759.1	4759.1	4716.8	4666.1	4595.6	4502.6	4392.6	4262.9	4119.1	3961.3	3789.3
47.5°	5365.3	5365.3	5317.4	5258.2	5173.6	5066.5	4936.8	4787.3	4623.8	4446.2	4251.6
45°	5988.4	5988.4	5934.8	5867.2	5774.1	5652.9	5509.1	5365.3	5156.7	4950.9	4725.3
42.5°	6636.9	6636.9	6574.8	6498.7	6391.6	6259.1	6095.5	5909.5	5703.6	5472.4	5227.2
40°	7310.7	7310.7	7240.2	7152.8	7034.4	6882.1	6698.9	6490.2	6259.1	6002.5	5731.8
37.5°	7998.6	7998.6	7919.7	7823.8	7691.3	7522.1	7316.3	7085.1	6825.8	6541.0	6242.1
35°	8692.2	8692.2	8604.8	8500.5	8353.9	8167.8	7945.1	7688.5	7400.9	7090.8	6755.3
32.5°	9399.9	9399.9	9304.0	9185.6	9019.2	8813.4	8568.1	8289.0	7998.6	7637.7	7271.2
30°	10099.1	10099.1	9994.8	9865.1	9687.4	9461.9	9194.0	8886.7	8545.6	8176.2	7781.5
27.5°	10787.0	10758.8	10671.4	10533.3	10338.7	10099.1	9808.7	9476.0	9106.6	8700.7	8277.7
25°	11463.7	11432.6	11336.8	11184.5	10975.9	10713.7	10400.7	10045.5	9648.0	9219.4	8757.0
22.5°	12112.1	12078.3	11976.8	11813.3	11590.5	11305.8	10970.3	10589.6	10166.7	9707.2	9219.4
20°	12712.7	12676.0	12571.7	12399.7	12168.5	11866.8	11511.6	11102.8	10651.7	10166.7	9648.0
17.5°	13254.0	13217.3	13107.4	12929.7	12712.7	12377.1	12010.6	11579.3	11102.8	10589.6	10045.5
15°	13730.5	13691.0	13578.2	13400.6	13152.5	12836.7	12450.5	12010.6	11511.6	10970.3	10400.7
12.5°	14136.4	14097.0	13981.4	13803.8	13547.2	13231.4	12836.7	12377.1	11866.8	11305.8	10713.7
10°	14457.9	14418.4	14308.4	14139.3	13874.2	13547.2	13152.5	12712.7	12168.5	11590.5	10975.9
7.5°	14689.1	14652.4	14550.9	14381.7	14139.3	13803.8	13400.6	12929.7	12399.7	11813.3	11184.5
5°	14863.9	14821.6	14720.1	14550.9	14308.4	13981.4	13578.2	13107.4	12571.7	11976.8	11336.8
2.5°	14985.1	14934.3	14821.6	14652.4	14418.4	14097.0	13691.0	13217.3	12676.0	12078.3	11432.6
0°	15018.9	14985.1	14863.9	14689.1	14457.9	14136.4	13730.5	13254.0	12712.7	12112.1	11463.7

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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°	101.5	101.5	98.7	95.9	93.0	87.4	84.6	81.8	78.9	73.3	70.5
85°	214.3	208.6	203.0	197.4	188.9	183.3	174.8	169.2	160.7	152.2	143.8
82.5°	338.3	329.9	318.6	310.1	298.9	284.8	273.5	259.4	245.3	234.0	219.9
80°	473.7	459.6	445.5	431.4	414.5	397.5	380.6	363.7	344.0	324.2	304.5
77.5°	620.3	600.5	580.8	558.2	538.5	515.9	493.4	470.8	445.5	420.1	394.7
75°	783.8	758.4	730.2	702.0	676.7	645.6	614.6	583.6	549.8	518.8	484.9
72.5°	961.4	930.4	896.6	862.7	826.1	786.6	747.1	704.8	665.4	625.9	583.6
70°	1153.1	1116.5	1074.2	1031.9	986.8	938.9	890.9	840.2	789.4	738.7	687.9
67.5°	1358.9	1313.8	1263.1	1212.3	1156.0	1099.6	1043.2	984.0	921.9	859.9	800.7
65°	1578.9	1522.5	1463.3	1398.4	1333.6	1268.7	1201.1	1130.6	1060.1	986.8	921.9
62.5°	1824.1	1753.7	1677.5	1598.6	1525.3	1446.3	1373.0	1285.6	1201.1	1119.3	1037.5
60°	2108.9	2015.9	1922.8	1824.1	1731.1	1629.6	1539.4	1443.5	1347.7	1254.6	1158.8
57.5°	2427.5	2309.1	2196.3	2077.9	1953.8	1841.1	1725.5	1609.9	1502.7	1392.8	1288.5
55°	2788.4	2644.6	2503.6	2357.0	2213.2	2072.3	1925.6	1796.0	1663.4	1539.4	1418.2
52.5°	3183.1	3019.6	2844.8	2678.4	2495.2	2320.4	2156.8	1993.3	1838.2	1688.8	1550.7
50°	3606.0	3414.3	3214.1	3011.1	2802.5	2596.7	2399.3	2207.6	2027.1	1852.3	1688.8
47.5°	4045.8	3828.7	3600.4	3369.2	3146.4	2895.5	2658.7	2441.6	2224.5	2027.1	1838.2
45°	4496.9	4251.6	4000.7	3738.5	3476.3	3205.7	2943.4	2678.4	2441.6	2207.6	1993.3
42.5°	4962.1	4685.8	4406.7	4116.3	3825.9	3529.9	3233.8	2943.4	2658.7	2399.3	2156.8
40°	5441.4	5136.9	4818.3	4502.6	4192.4	3854.1	3529.9	3205.7	2895.5	2596.7	2320.4
37.5°	5920.7	5588.0	5244.1	4888.8	4533.6	4192.4	3825.9	3476.3	3146.4	2802.5	2495.2
35°	6402.8	6036.3	5664.2	5277.9	4888.8	4502.6	4116.3	3738.5	3369.2	3011.1	2678.4
32.5°	6887.8	6487.4	6075.8	5664.2	5244.1	4818.3	4406.7	4000.7	3600.4	3214.1	2844.8
30°	7364.3	6930.1	6487.4	6036.3	5588.0	5136.9	4685.8	4251.6	3828.7	3414.3	3019.6
27.5°	7829.5	7364.3	6887.8	6402.8	5920.7	5441.4	4962.1	4496.9	4045.8	3606.0	3183.1
25°	8277.7	7781.5	7271.2	6755.3	6242.1	5731.8	5227.2	4725.3	4251.6	3789.3	3346.6
22.5°	8700.7	8176.2	7637.7	7090.8	6541.0	6002.5	5472.4	4950.9	4446.2	3961.3	3496.1
20°	9106.6	8545.6	7998.6	7400.9	6825.8	6259.1	5703.6	5156.7	4623.8	4119.1	3631.4
17.5°	9476.0	8886.7	8289.0	7688.5	7085.1	6490.2	5909.5	5365.3	4787.3	4262.9	3761.1
15°	9808.7	9194.0	8568.1	7945.1	7316.3	6698.9	6095.5	5509.1	4936.8	4392.6	3873.8
12.5°	10099.1	9461.9	8813.4	8167.8	7522.1	6882.1	6259.1	5652.9	5066.5	4502.6	3969.7
10°	10338.7	9687.4	9019.2	8353.9	7691.3	7034.4	6391.6	5774.1	5173.6	4595.6	4048.7
7.5°	10533.3	9865.1	9185.6	8500.5	7823.8	7152.8	6498.7	5867.2	5258.2	4666.1	4110.7
5°	10671.4	9994.8	9304.0	8604.8	7919.7	7240.2	6574.8	5934.8	5317.4	4716.8	4155.8
2.5°	10758.8	10099.1	9399.9	8692.2	7998.6	7310.7	6636.9	5988.4	5365.3	4759.1	4192.4
0°	10787.0	10099.1	9399.9	8692.2	7998.6	7310.7	6636.9	5988.4	5365.3	4759.1	4192.4

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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°	67.7	62.0	56.4	53.6	47.9	45.1	39.5	33.8	31.0	25.4	19.7
85°	135.3	124.1	115.6	107.1	98.7	87.4	78.9	70.5	59.2	50.7	39.5
82.5°	205.8	191.7	177.6	163.5	149.4	135.3	118.4	104.3	90.2	76.1	59.2
80°	284.8	262.2	242.5	222.7	203.0	183.3	160.7	141.0	118.4	98.7	78.9
77.5°	366.5	341.1	313.0	284.8	256.6	231.2	203.0	177.6	152.2	124.1	98.7
75°	453.9	420.1	389.1	352.4	318.6	281.9	248.1	214.3	183.3	152.2	118.4
72.5°	544.1	501.9	459.6	420.1	377.8	335.5	296.0	253.7	214.3	177.6	141.0
70°	637.2	586.4	535.7	487.8	439.8	389.1	344.0	296.0	248.1	203.0	160.7
67.5°	735.9	676.7	617.4	555.4	501.9	445.5	389.1	335.5	281.9	231.2	183.3
65°	843.0	772.5	699.2	634.4	563.9	501.9	439.8	377.8	318.6	256.6	203.0
62.5°	953.0	871.2	789.4	707.7	634.4	555.4	487.8	420.1	352.4	284.8	222.7
60°	1065.7	972.7	879.7	789.4	699.2	617.4	535.7	459.6	389.1	313.0	242.5
57.5°	1181.3	1077.0	972.7	871.2	772.5	676.7	586.4	501.9	420.1	341.1	262.2
55°	1299.7	1181.3	1065.7	953.0	843.0	735.9	637.2	544.1	453.9	366.5	284.8
52.5°	1418.2	1288.5	1158.8	1037.5	921.9	800.7	687.9	583.6	484.9	394.7	304.5
50°	1539.4	1392.8	1254.6	1119.3	986.8	859.9	738.7	625.9	518.8	420.1	324.2
47.5°	1663.4	1502.7	1347.7	1201.1	1060.1	921.9	789.4	665.4	549.8	445.5	344.0
45°	1796.0	1609.9	1443.5	1285.6	1130.6	984.0	840.2	704.8	583.6	470.8	363.7
42.5°	1925.6	1725.5	1539.4	1373.0	1201.1	1043.2	890.9	747.1	614.6	493.4	380.6
40°	2072.3	1841.1	1629.6	1446.3	1268.7	1099.6	938.9	786.6	645.6	515.9	397.5
37.5°	2213.2	1953.8	1731.1	1525.3	1333.6	1156.0	986.8	826.1	676.7	538.5	414.5
35°	2357.0	2077.9	1824.1	1598.6	1398.4	1212.3	1031.9	862.7	702.0	558.2	431.4
32.5°	2503.6	2196.3	1922.8	1677.5	1463.3	1263.1	1074.2	896.6	730.2	580.8	445.5
30°	2644.6	2309.1	2015.9	1753.7	1522.5	1313.8	1116.5	930.4	758.4	600.5	459.6
27.5°	2788.4	2427.5	2108.9	1824.1	1578.9	1358.9	1153.1	961.4	783.8	620.3	473.7
25°	2926.5	2540.3	2196.3	1891.8	1629.6	1404.1	1192.6	992.4	806.3	637.2	484.9
22.5°	3053.4	2639.0	2275.3	1956.7	1683.2	1443.5	1226.4	1020.6	828.9	654.1	496.2
20°	3169.0	2740.5	2357.0	2021.5	1733.9	1483.0	1254.6	1046.0	848.6	668.2	507.5
17.5°	3281.8	2833.5	2430.3	2080.7	1776.2	1516.8	1282.8	1065.7	865.6	679.5	515.9
15°	3377.6	2915.3	2495.2	2131.5	1815.7	1545.0	1305.4	1085.5	879.7	690.8	521.6
12.5°	3462.2	2985.7	2551.6	2173.8	1846.7	1570.4	1327.9	1102.4	893.7	699.2	530.0
10°	3529.9	3042.1	2596.7	2210.4	1874.9	1590.1	1342.0	1116.5	902.2	707.7	535.7
7.5°	3583.5	3087.2	2633.3	2235.8	1894.6	1607.1	1356.1	1124.9	910.7	713.3	544.1
5°	3622.9	3121.1	2658.7	2255.5	1911.6	1626.8	1373.0	1139.0	921.9	721.8	544.1
2.5°	3653.9	3146.4	2678.4	2272.4	1922.8	1626.8	1373.0	1139.0	921.9	721.8	544.1
0°	3653.9	3146.4	2678.4	2272.4	1922.8	1626.8	1373.0	1139.0	921.9	721.8	544.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.1	11.3	5.6	0.0
85°	31.0	19.7	11.3	0.0
82.5°	45.1	31.0	14.1	0.0
80°	59.2	39.5	19.7	0.0
77.5°	76.1	50.7	25.4	0.0
75°	90.2	59.2	31.0	0.0
72.5°	104.3	70.5	33.8	0.0
70°	118.4	78.9	39.5	0.0
67.5°	135.3	87.4	45.1	0.0
65°	149.4	98.7	47.9	0.0
62.5°	163.5	107.1	53.6	0.0
60°	177.6	115.6	56.4	0.0
57.5°	191.7	124.1	62.0	0.0
55°	205.8	135.3	67.7	0.0
52.5°	219.9	143.8	70.5	0.0
50°	234.0	152.2	73.3	0.0
47.5°	245.3	160.7	78.9	0.0
45°	259.4	169.2	81.8	0.0
42.5°	273.5	174.8	84.6	0.0
40°	284.8	183.3	87.4	0.0
37.5°	298.9	188.9	93.0	0.0
35°	310.1	197.4	95.9	0.0
32.5°	318.6	203.0	98.7	0.0
30°	329.9	208.6	101.5	0.0
27.5°	338.3	214.3	101.5	0.0
25°	346.8	219.9	104.3	0.0
22.5°	355.2	222.7	107.1	0.0
20°	363.7	228.4	110.0	0.0
17.5°	369.3	231.2	110.0	0.0
15°	375.0	234.0	115.6	0.0
12.5°	377.8	236.8	115.6	0.0
10°	383.4	242.5	115.6	0.0
7.5°	389.1	242.5	115.6	0.0
5°	389.1	242.5	115.6	0.0
2.5°	389.1	242.5	115.6	0.0
0°	389.1	242.5	115.6	0.0

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