

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: P623823

Luminaire Tested: **IFLD-S-SA6C-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623823
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31775.9 lumens	Max Intensity:	17648.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	98.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	13749.1 lumens	Field Lumens:	22513.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

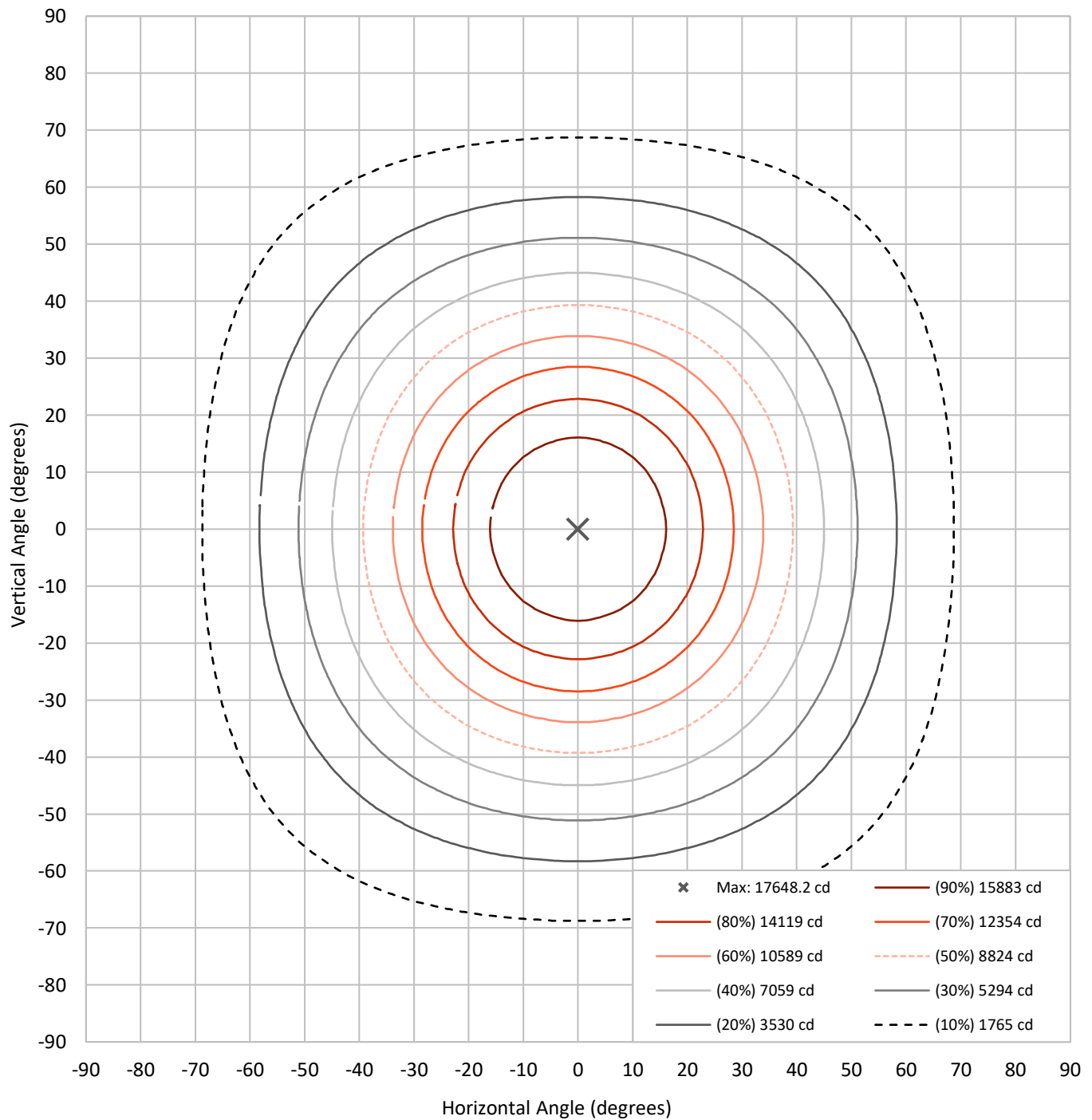
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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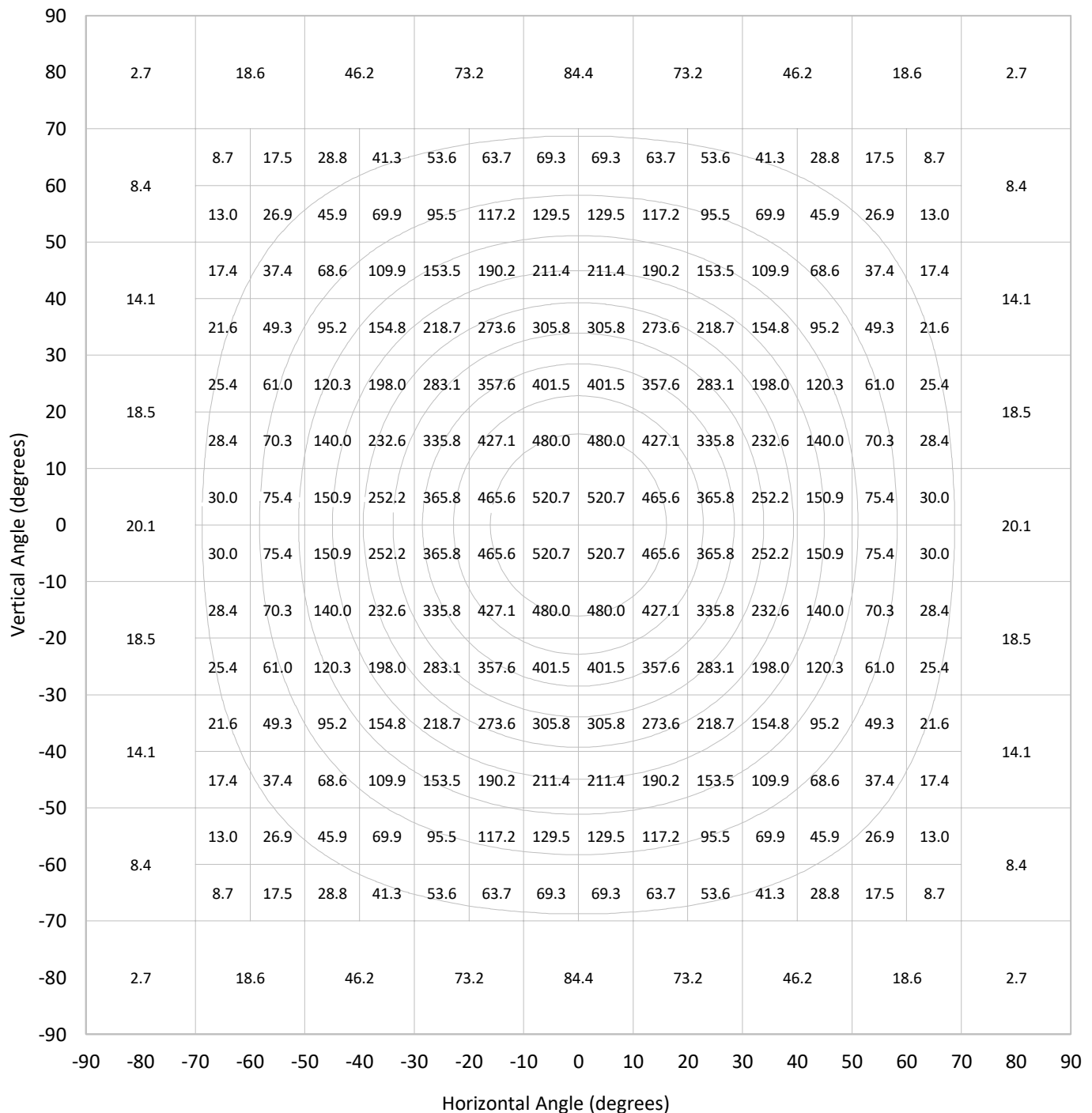
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Iso-Candela Plot



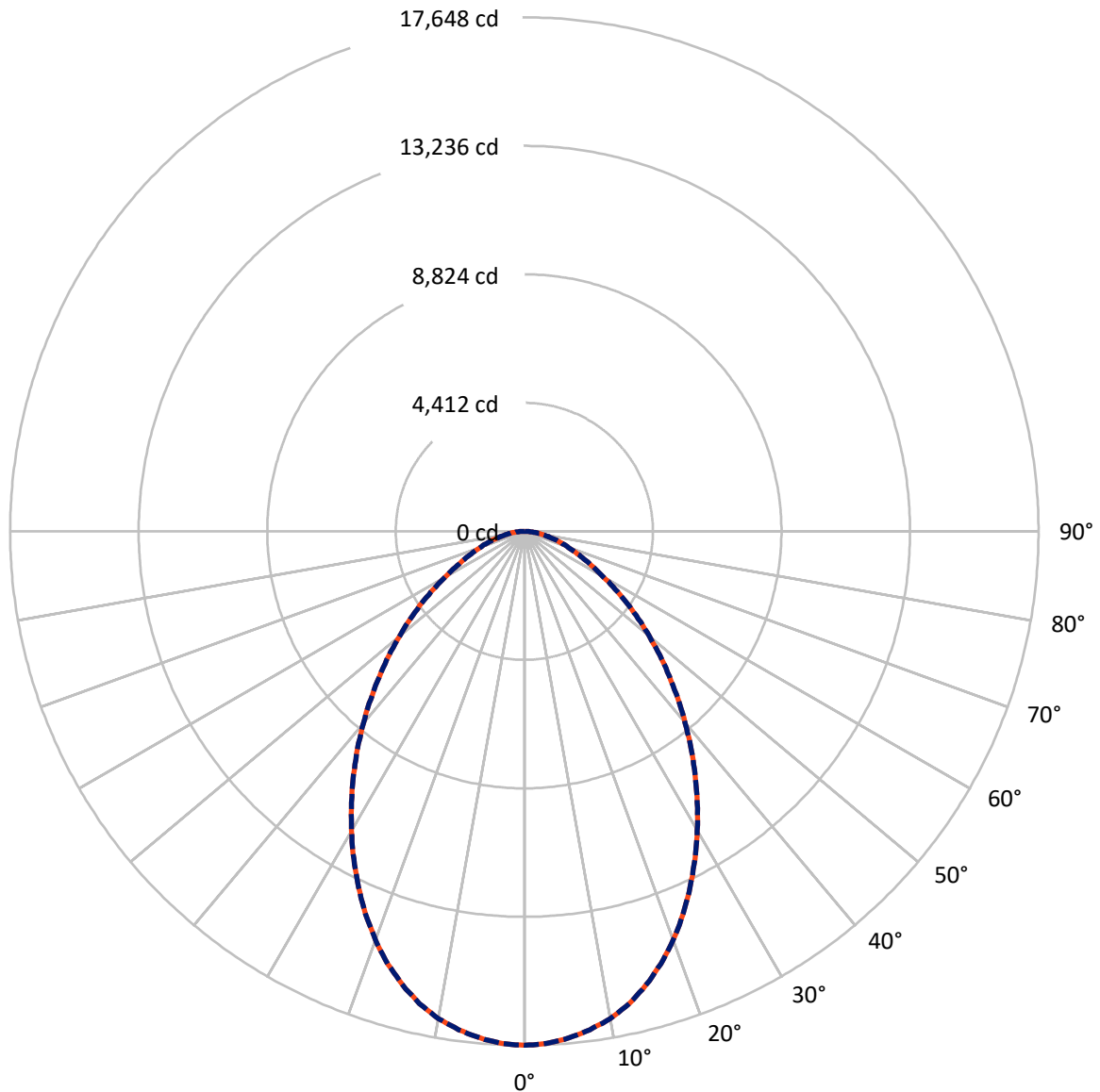
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Lumen Table



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Luminous Intensity Polar Plot

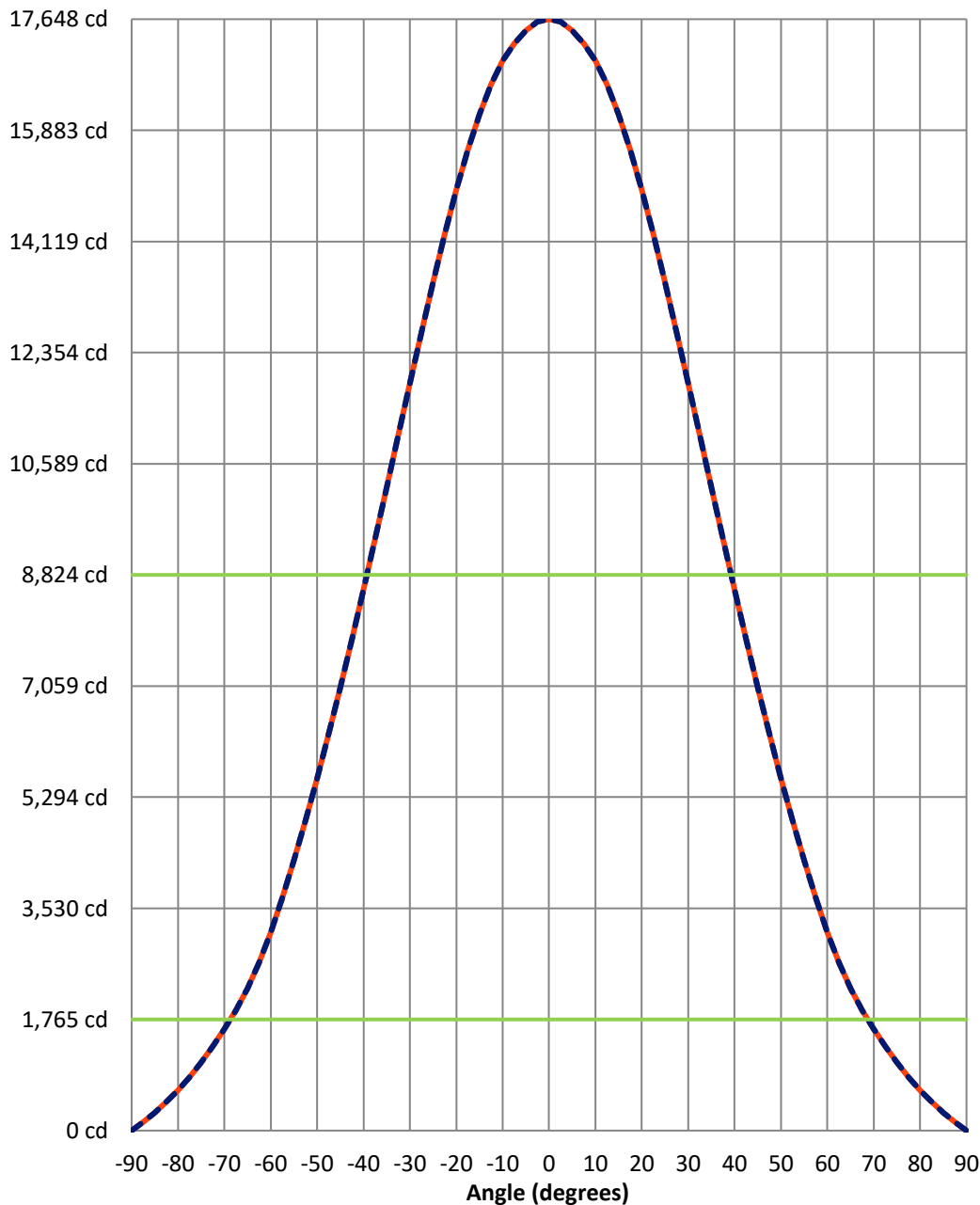


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 13749.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 22513.7
Efficiency: 70.9%

Spill:

Lumens: 9262.2
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°	135.8	135.8	135.8	135.8	135.8	135.8	135.8	129.2	129.2	125.9	122.6
85°	284.9	284.9	284.9	284.9	284.9	278.3	275.0	271.7	268.4	261.7	258.4
82.5°	457.2	457.2	457.2	457.2	450.6	443.9	440.6	434.0	427.4	417.4	407.5
80°	639.4	639.4	639.4	639.4	629.5	622.8	612.9	606.3	596.3	583.1	569.8
77.5°	848.1	848.1	848.1	838.2	831.6	821.6	811.7	798.4	785.2	768.6	748.7
75°	1083.3	1083.3	1083.3	1070.1	1060.2	1050.2	1033.6	1017.1	997.2	974.0	947.5
72.5°	1338.4	1338.4	1338.4	1321.9	1311.9	1295.4	1275.5	1252.3	1229.1	1199.3	1166.2
70°	1613.4	1613.4	1613.4	1593.5	1577.0	1560.4	1533.9	1507.4	1474.3	1441.1	1401.4
67.5°	1911.6	1911.6	1911.6	1888.4	1868.5	1845.3	1815.5	1782.4	1742.6	1696.2	1649.9
65°	2259.4	2259.4	2246.2	2226.3	2203.1	2170.0	2133.6	2087.2	2037.5	1977.8	1914.9
62.5°	2670.3	2670.3	2650.4	2627.2	2597.4	2554.3	2504.6	2445.0	2375.4	2299.2	2223.0
60°	3147.3	3147.3	3124.1	3094.3	3051.2	2998.2	2932.0	2855.8	2769.6	2673.6	2580.8
57.5°	3697.3	3697.3	3667.5	3627.7	3574.7	3508.4	3425.6	3329.5	3220.2	3100.9	2985.0
55°	4293.6	4293.6	4257.2	4210.8	4147.8	4068.3	3968.9	3856.3	3723.8	3587.9	3438.9
52.5°	4926.4	4926.4	4883.3	4830.3	4757.4	4664.7	4552.0	4419.5	4267.1	4108.1	3932.5
50°	5592.3	5592.3	5542.6	5483.0	5400.1	5290.8	5161.6	5009.2	4840.2	4654.7	4452.6
47.5°	6304.6	6304.6	6248.3	6178.7	6079.3	5953.4	5801.0	5625.4	5433.3	5224.6	4996.0
45°	7036.7	7036.7	6973.8	6894.3	6785.0	6642.5	6473.5	6304.6	6059.4	5817.6	5552.5
42.5°	7798.7	7798.7	7725.8	7636.4	7510.5	7354.8	7162.6	6944.0	6702.1	6430.5	6142.2
40°	8590.5	8590.5	8507.7	8405.0	8265.9	8087.0	7871.6	7626.5	7354.8	7053.3	6735.3
37.5°	9398.9	9398.9	9306.1	9193.5	9037.8	8839.0	8597.2	8325.5	8020.7	7686.1	7334.9
35°	10213.9	10213.9	10111.2	9988.6	9816.3	9597.7	9335.9	9034.5	8696.5	8332.1	7937.9
32.5°	11045.4	11045.4	10932.8	10793.7	10598.2	10356.3	10068.1	9740.1	9398.9	8974.8	8544.1
30°	11867.1	11867.1	11744.5	11592.1	11383.4	11118.3	10803.6	10442.5	10041.6	9607.6	9143.8
27.5°	12675.4	12642.3	12539.6	12377.3	12148.7	11867.1	11525.8	11134.9	10700.9	10223.8	9726.9
25°	13470.5	13434.1	13321.4	13142.5	12897.4	12589.3	12221.5	11804.1	11337.0	10833.4	10290.1
22.5°	14232.5	14192.8	14073.5	13881.3	13619.6	13285.0	12890.8	12443.5	11946.6	11406.6	10833.4
20°	14938.2	14895.1	14772.5	14570.4	14298.8	13944.3	13526.9	13046.5	12516.4	11946.6	11337.0
17.5°	15574.3	15531.2	15402.0	15193.3	14938.2	14543.9	14113.2	13606.4	13046.5	12443.5	11804.1
15°	16134.2	16087.8	15955.3	15746.5	15455.0	15083.9	14630.1	14113.2	13526.9	12890.8	12221.5
12.5°	16611.2	16564.8	16429.0	16220.3	15918.8	15547.8	15083.9	14543.9	13944.3	13285.0	12589.3
10°	16988.9	16942.5	16813.3	16614.5	16303.1	15918.8	15455.0	14938.2	14298.8	13619.6	12897.4
7.5°	17260.6	17217.5	17098.2	16899.5	16614.5	16220.3	15746.5	15193.3	14570.4	13881.3	13142.5
5°	17466.0	17416.3	17297.0	17098.2	16813.3	16429.0	15955.3	15402.0	14772.5	14073.5	13321.4
2.5°	17608.4	17548.8	17416.3	17217.5	16942.5	16564.8	16087.8	15531.2	14895.1	14192.8	13434.1
0°	17648.2	17608.4	17466.0	17260.6	16988.9	16611.2	16134.2	15574.3	14938.2	14232.5	13470.5

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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°	119.3	119.3	116.0	112.6	109.3	102.7	99.4	96.1	92.8	86.1	82.8
85°	251.8	245.2	238.5	231.9	222.0	215.3	205.4	198.8	188.8	178.9	169.0
82.5°	397.6	387.6	374.4	364.4	351.2	334.6	321.4	304.8	288.2	275.0	258.4
80°	556.6	540.0	523.4	506.9	487.0	467.1	447.3	427.4	404.2	381.0	357.8
77.5°	728.9	705.7	682.5	656.0	632.8	606.3	579.8	553.3	523.4	493.6	463.8
75°	921.0	891.2	858.1	824.9	795.1	758.7	722.2	685.8	646.0	609.6	569.8
72.5°	1129.7	1093.3	1053.5	1013.8	970.7	924.3	877.9	828.2	781.9	735.5	685.8
70°	1355.0	1311.9	1262.2	1212.5	1159.5	1103.2	1046.9	987.3	927.6	868.0	808.4
67.5°	1596.9	1543.8	1484.2	1424.6	1358.3	1292.1	1225.8	1156.2	1083.3	1010.5	940.9
65°	1855.3	1789.0	1719.4	1643.2	1567.0	1490.8	1411.3	1328.5	1245.7	1159.5	1083.3
62.5°	2143.5	2060.7	1971.2	1878.5	1792.3	1699.6	1613.4	1510.7	1411.3	1315.2	1219.2
60°	2478.1	2368.8	2259.4	2143.5	2034.2	1914.9	1808.9	1696.2	1583.6	1474.3	1361.6
57.5°	2852.5	2713.3	2580.8	2441.7	2295.9	2163.4	2027.5	1891.7	1765.8	1636.6	1514.0
55°	3276.5	3107.6	2941.9	2769.6	2600.7	2435.0	2262.8	2110.4	1954.7	1808.9	1666.4
52.5°	3740.3	3548.2	3342.8	3147.3	2932.0	2726.6	2534.4	2342.3	2160.1	1984.5	1822.1
50°	4237.3	4012.0	3776.8	3538.3	3293.1	3051.2	2819.3	2594.1	2382.0	2176.6	1984.5
47.5°	4754.1	4499.0	4230.7	3959.0	3697.3	3402.4	3124.1	2869.0	2613.9	2382.0	2160.1
45°	5284.2	4996.0	4701.1	4393.0	4084.9	3766.8	3458.7	3147.3	2869.0	2594.1	2342.3
42.5°	5830.8	5506.2	5178.2	4836.9	4495.7	4147.8	3800.0	3458.7	3124.1	2819.3	2534.4
40°	6394.0	6036.2	5661.9	5290.8	4926.4	4528.8	4147.8	3766.8	3402.4	3051.2	2726.6
37.5°	6957.2	6566.3	6162.1	5744.7	5327.3	4926.4	4495.7	4084.9	3697.3	3293.1	2932.0
35°	7523.8	7093.1	6655.8	6201.9	5744.7	5290.8	4836.9	4393.0	3959.0	3538.3	3147.3
32.5°	8093.6	7623.1	7139.4	6655.8	6162.1	5661.9	5178.2	4701.1	4230.7	3776.8	3342.8
30°	8653.5	8143.3	7623.1	7093.1	6566.3	6036.2	5506.2	4996.0	4499.0	4012.0	3548.2
27.5°	9200.1	8653.5	8093.6	7523.8	6957.2	6394.0	5830.8	5284.2	4754.1	4237.3	3740.3
25°	9726.9	9143.8	8544.1	7937.9	7334.9	6735.3	6142.2	5552.5	4996.0	4452.6	3932.5
22.5°	10223.8	9607.6	8974.8	8332.1	7686.1	7053.3	6430.5	5817.6	5224.6	4654.7	4108.1
20°	10700.9	10041.6	9398.9	8696.5	8020.7	7354.8	6702.1	6059.4	5433.3	4840.2	4267.1
17.5°	11134.9	10442.5	9740.1	9034.5	8325.5	7626.5	6944.0	6304.6	5625.4	5009.2	4419.5
15°	11525.8	10803.6	10068.1	9335.9	8597.2	7871.6	7162.6	6473.5	5801.0	5161.6	4552.0
12.5°	11867.1	11118.3	10356.3	9597.7	8839.0	8087.0	7354.8	6642.5	5953.4	5290.8	4664.7
10°	12148.7	11383.4	10598.2	9816.3	9037.8	8265.9	7510.5	6785.0	6079.3	5400.1	4757.4
7.5°	12377.3	11592.1	10793.7	9988.6	9193.5	8405.0	7636.4	6894.3	6178.7	5483.0	4830.3
5°	12539.6	11744.5	10932.8	10111.2	9306.1	8507.7	7725.8	6973.8	6248.3	5542.6	4883.3
2.5°	12642.3	11867.1	11045.4	10213.9	9398.9	8590.5	7798.7	7036.7	6304.6	5592.3	4926.4
0°	12675.4	11867.1	11045.4	10213.9	9398.9	8590.5	7798.7	7036.7	6304.6	5592.3	4926.4

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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°	79.5	72.9	66.3	62.9	56.3	53.0	46.4	39.8	36.4	29.8	23.2
85°	159.0	145.8	135.8	125.9	116.0	102.7	92.8	82.8	69.6	59.6	46.4
82.5°	241.8	225.3	208.7	192.2	175.6	159.0	139.1	122.6	106.0	89.5	69.6
80°	334.6	308.1	284.9	261.7	238.5	215.3	188.8	165.6	139.1	116.0	92.8
77.5°	430.7	400.9	367.7	334.6	301.5	271.7	238.5	208.7	178.9	145.8	116.0
75°	533.4	493.6	457.2	414.1	374.4	331.3	291.5	251.8	215.3	178.9	139.1
72.5°	639.4	589.7	540.0	493.6	443.9	394.2	347.9	298.2	251.8	208.7	165.6
70°	748.7	689.1	629.5	573.1	516.8	457.2	404.2	347.9	291.5	238.5	188.8
67.5°	864.7	795.1	725.5	652.7	589.7	523.4	457.2	394.2	331.3	271.7	215.3
65°	990.6	907.8	821.6	745.4	662.6	589.7	516.8	443.9	374.4	301.5	238.5
62.5°	1119.8	1023.7	927.6	831.6	745.4	652.7	573.1	493.6	414.1	334.6	261.7
60°	1252.3	1143.0	1033.6	927.6	821.6	725.5	629.5	540.0	457.2	367.7	284.9
57.5°	1388.1	1265.6	1143.0	1023.7	907.8	795.1	689.1	589.7	493.6	400.9	308.1
55°	1527.3	1388.1	1252.3	1119.8	990.6	864.7	748.7	639.4	533.4	430.7	334.6
52.5°	1666.4	1514.0	1361.6	1219.2	1083.3	940.9	808.4	685.8	569.8	463.8	357.8
50°	1808.9	1636.6	1474.3	1315.2	1159.5	1010.5	868.0	735.5	609.6	493.6	381.0
47.5°	1954.7	1765.8	1583.6	1411.3	1245.7	1083.3	927.6	781.9	646.0	523.4	404.2
45°	2110.4	1891.7	1696.2	1510.7	1328.5	1156.2	987.3	828.2	685.8	553.3	427.4
42.5°	2262.8	2027.5	1808.9	1613.4	1411.3	1225.8	1046.9	877.9	722.2	579.8	447.3
40°	2435.0	2163.4	1914.9	1699.6	1490.8	1292.1	1103.2	924.3	758.7	606.3	467.1
37.5°	2600.7	2295.9	2034.2	1792.3	1567.0	1358.3	1159.5	970.7	795.1	632.8	487.0
35°	2769.6	2441.7	2143.5	1878.5	1643.2	1424.6	1212.5	1013.8	824.9	656.0	506.9
32.5°	2941.9	2580.8	2259.4	1971.2	1719.4	1484.2	1262.2	1053.5	858.1	682.5	523.4
30°	3107.6	2713.3	2368.8	2060.7	1789.0	1543.8	1311.9	1093.3	891.2	705.7	540.0
27.5°	3276.5	2852.5	2478.1	2143.5	1855.3	1596.9	1355.0	1129.7	921.0	728.9	556.6
25°	3438.9	2985.0	2580.8	2223.0	1914.9	1649.9	1401.4	1166.2	947.5	748.7	569.8
22.5°	3587.9	3100.9	2673.6	2299.2	1977.8	1696.2	1441.1	1199.3	974.0	768.6	583.1
20°	3723.8	3220.2	2769.6	2375.4	2037.5	1742.6	1474.3	1229.1	997.2	785.2	596.3
17.5°	3856.3	3329.5	2855.8	2445.0	2087.2	1782.4	1507.4	1252.3	1017.1	798.4	606.3
15°	3968.9	3425.6	2932.0	2504.6	2133.6	1815.5	1533.9	1275.5	1033.6	811.7	612.9
12.5°	4068.3	3508.4	2998.2	2554.3	2170.0	1845.3	1560.4	1295.4	1050.2	821.6	622.8
10°	4147.8	3574.7	3051.2	2597.4	2203.1	1868.5	1577.0	1311.9	1060.2	831.6	629.5
7.5°	4210.8	3627.7	3094.3	2627.2	2226.3	1888.4	1593.5	1321.9	1070.1	838.2	639.4
5°	4257.2	3667.5	3124.1	2650.4	2246.2	1911.6	1613.4	1338.4	1083.3	848.1	639.4
2.5°	4293.6	3697.3	3147.3	2670.3	2259.4	1911.6	1613.4	1338.4	1083.3	848.1	639.4
0°	4293.6	3697.3	3147.3	2670.3	2259.4	1911.6	1613.4	1338.4	1083.3	848.1	639.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.6	13.3	6.6	0.0
85°	36.4	23.2	13.3	0.0
82.5°	53.0	36.4	16.6	0.0
80°	69.6	46.4	23.2	0.0
77.5°	89.5	59.6	29.8	0.0
75°	106.0	69.6	36.4	0.0
72.5°	122.6	82.8	39.8	0.0
70°	139.1	92.8	46.4	0.0
67.5°	159.0	102.7	53.0	0.0
65°	175.6	116.0	56.3	0.0
62.5°	192.2	125.9	62.9	0.0
60°	208.7	135.8	66.3	0.0
57.5°	225.3	145.8	72.9	0.0
55°	241.8	159.0	79.5	0.0
52.5°	258.4	169.0	82.8	0.0
50°	275.0	178.9	86.1	0.0
47.5°	288.2	188.8	92.8	0.0
45°	304.8	198.8	96.1	0.0
42.5°	321.4	205.4	99.4	0.0
40°	334.6	215.3	102.7	0.0
37.5°	351.2	222.0	109.3	0.0
35°	364.4	231.9	112.6	0.0
32.5°	374.4	238.5	116.0	0.0
30°	387.6	245.2	119.3	0.0
27.5°	397.6	251.8	119.3	0.0
25°	407.5	258.4	122.6	0.0
22.5°	417.4	261.7	125.9	0.0
20°	427.4	268.4	129.2	0.0
17.5°	434.0	271.7	129.2	0.0
15°	440.6	275.0	135.8	0.0
12.5°	443.9	278.3	135.8	0.0
10°	450.6	284.9	135.8	0.0
7.5°	457.2	284.9	135.8	0.0
5°	457.2	284.9	135.8	0.0
2.5°	457.2	284.9	135.8	0.0
0°	457.2	284.9	135.8	0.0

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