

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: P624058

Luminaire Tested: **IFLD-M-SA4A-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624058
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

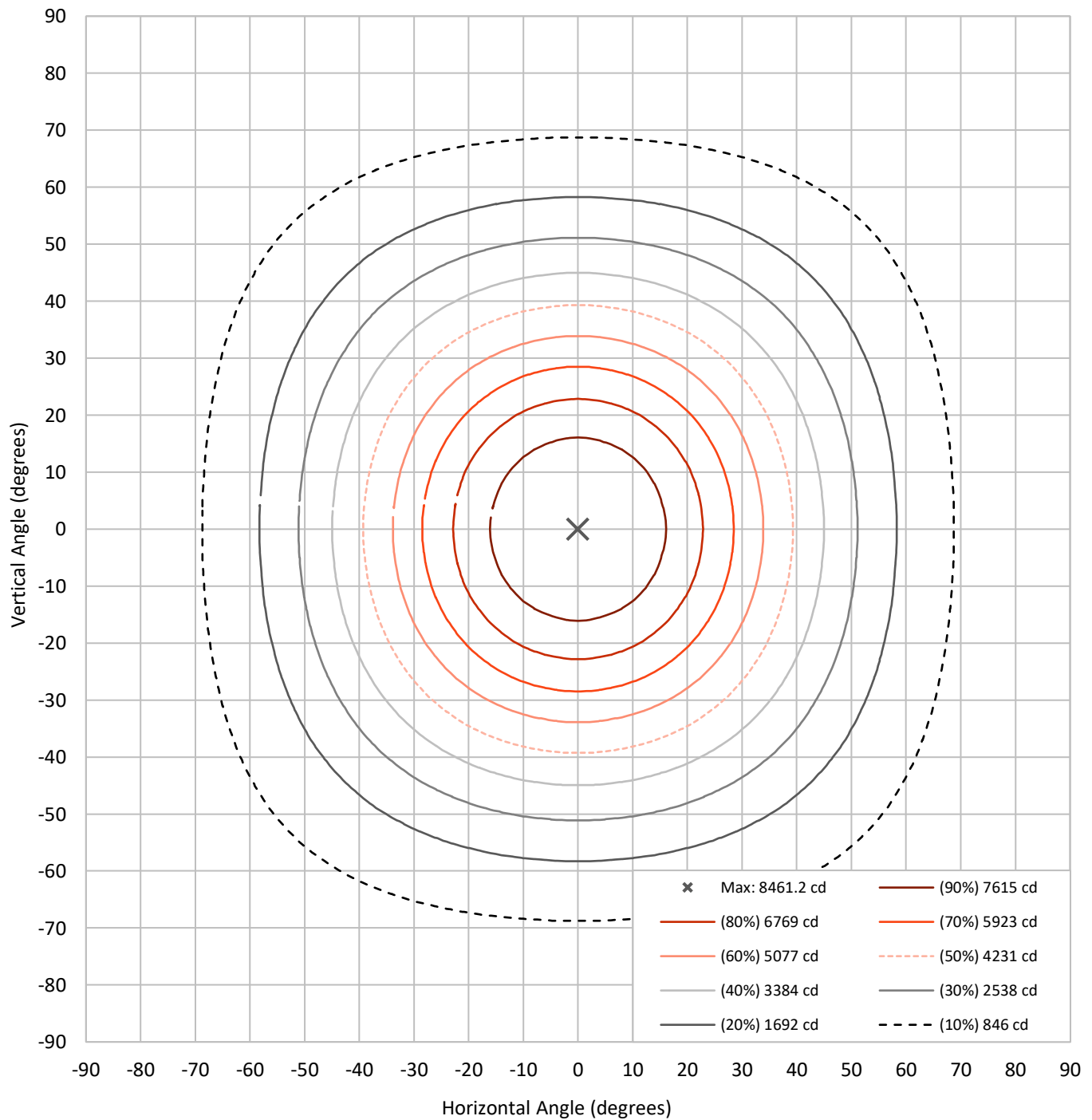
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15234.6 lumens	Max Intensity:	8461.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	118.5 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:	6591.8 lumens	Field Lumens:	10793.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	128.6		
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		



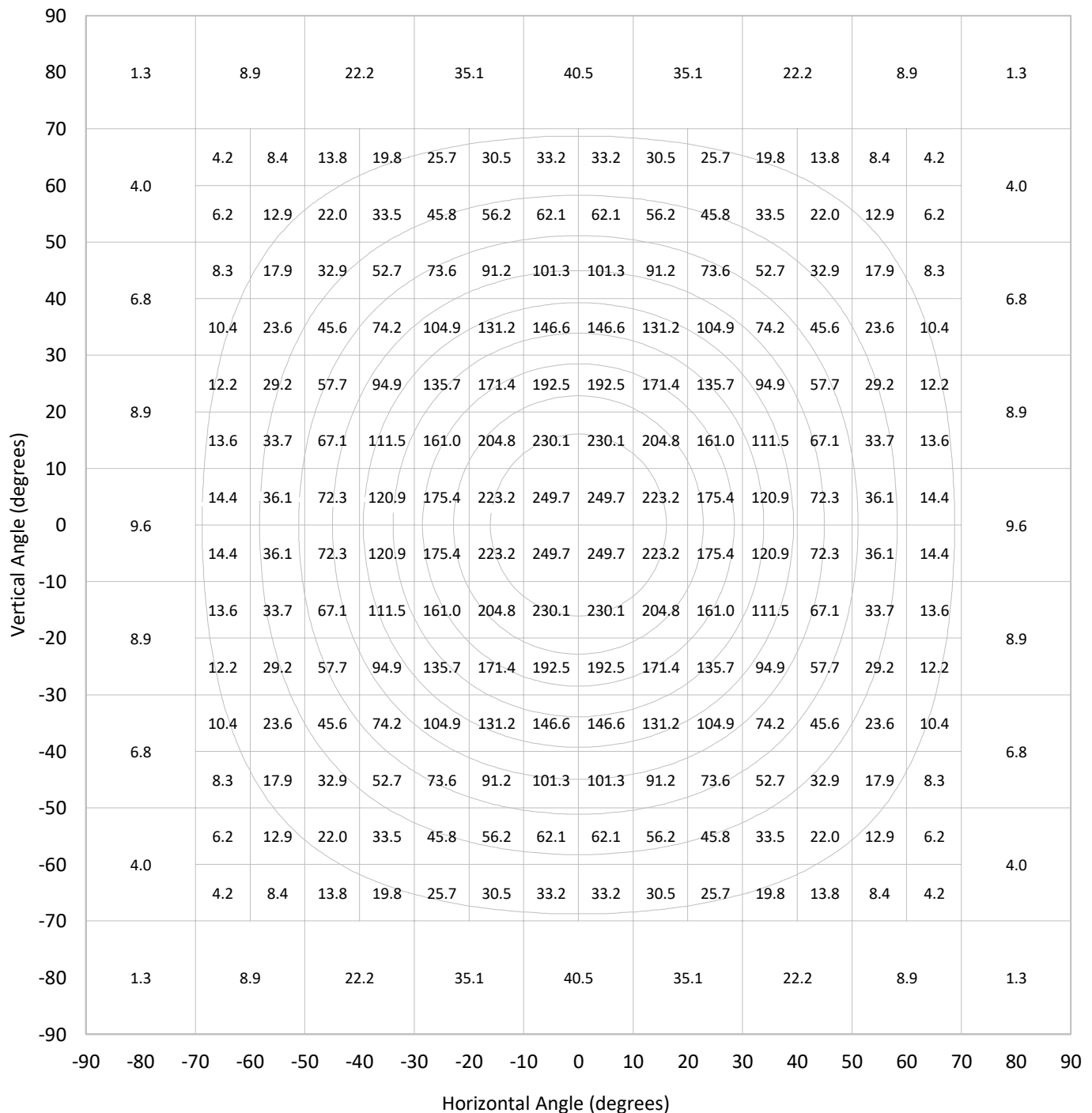
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Iso-Candela Plot



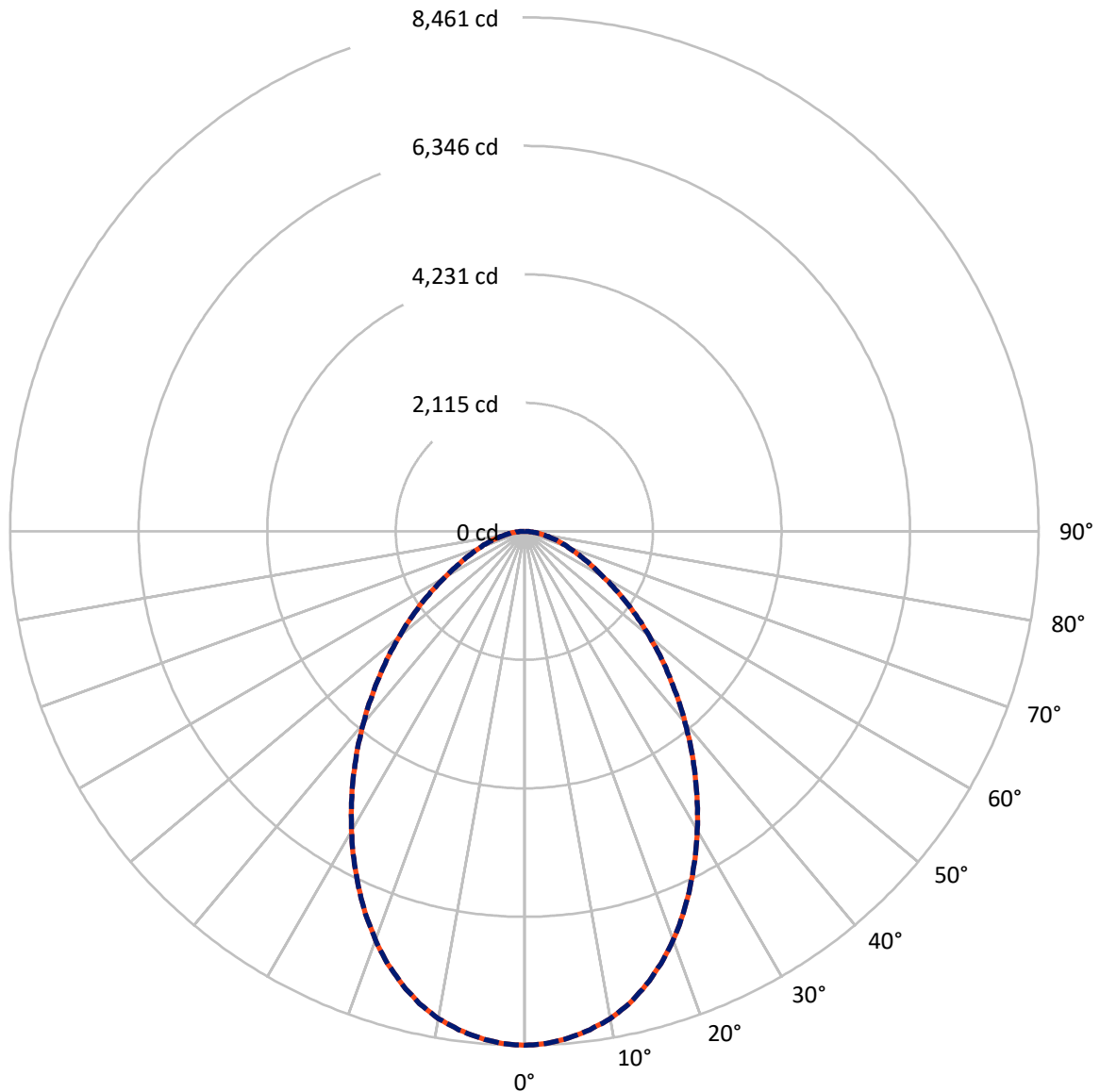
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Lumen Table



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Luminous Intensity Polar Plot

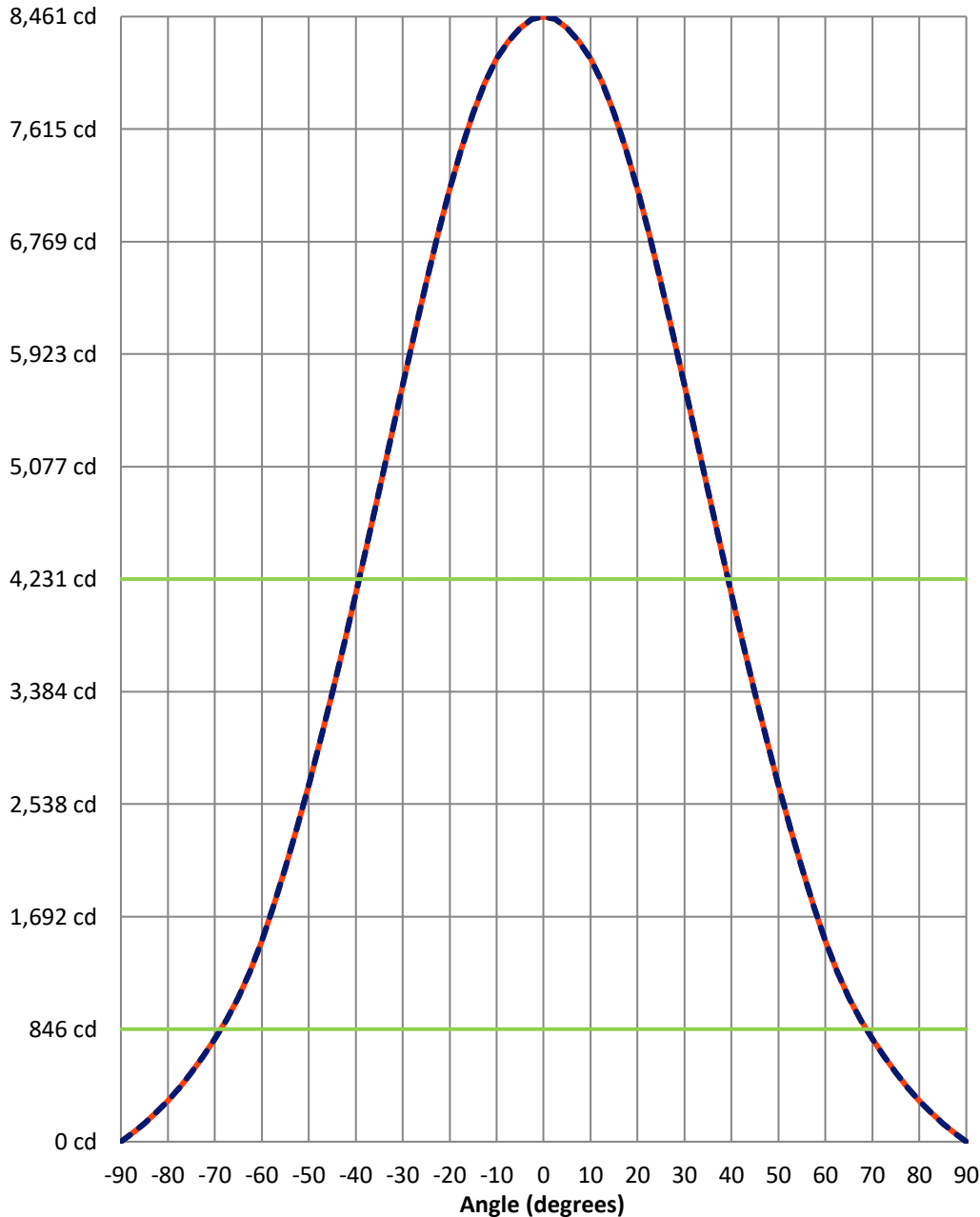


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 6591.8
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 10793.9
Efficiency: 70.9%

Spill:
Lumens: 4440.6
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°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	61.9	61.9	60.4	58.8
85°	136.6	136.6	136.6	136.6	136.6	133.4	131.8	130.2	128.7	125.5	123.9
82.5°	219.2	219.2	219.2	219.2	216.0	212.8	211.3	208.1	204.9	200.1	195.4
80°	306.6	306.6	306.6	306.6	301.8	298.6	293.8	290.7	285.9	279.6	273.2
77.5°	406.6	406.6	406.6	401.9	398.7	393.9	389.1	382.8	376.4	368.5	359.0
75°	519.4	519.4	519.4	513.0	508.3	503.5	495.6	487.6	478.1	467.0	454.3
72.5°	641.7	641.7	641.7	633.8	629.0	621.0	611.5	600.4	589.3	575.0	559.1
70°	773.5	773.5	773.5	764.0	756.1	748.1	735.4	722.7	706.8	690.9	671.9
67.5°	916.5	916.5	916.5	905.4	895.8	884.7	870.4	854.5	835.5	813.2	791.0
65°	1083.3	1083.3	1076.9	1067.4	1056.3	1040.4	1022.9	1000.7	976.8	948.3	918.1
62.5°	1280.2	1280.2	1270.7	1259.6	1245.3	1224.6	1200.8	1172.2	1138.9	1102.3	1065.8
60°	1508.9	1508.9	1497.8	1483.5	1462.9	1437.5	1405.7	1369.2	1327.9	1281.8	1237.3
57.5°	1772.6	1772.6	1758.3	1739.3	1713.8	1682.1	1642.4	1596.3	1543.9	1486.7	1431.1
55°	2058.5	2058.5	2041.0	2018.8	1988.6	1950.5	1902.9	1848.9	1785.3	1720.2	1648.7
52.5°	2361.9	2361.9	2341.2	2315.8	2280.9	2236.4	2182.4	2118.9	2045.8	1969.6	1885.4
50°	2681.2	2681.2	2657.3	2628.7	2589.0	2536.6	2474.7	2401.6	2320.6	2231.6	2134.8
47.5°	3022.7	3022.7	2995.6	2962.3	2914.6	2854.3	2781.2	2697.0	2604.9	2504.8	2395.2
45°	3373.7	3373.7	3343.5	3305.4	3253.0	3184.7	3103.7	3022.7	2905.1	2789.2	2662.1
42.5°	3739.0	3739.0	3704.1	3661.2	3600.8	3526.2	3434.0	3329.2	3213.3	3083.0	2944.8
40°	4118.6	4118.6	4078.9	4029.7	3963.0	3877.2	3773.9	3656.4	3526.2	3381.6	3229.1
37.5°	4506.2	4506.2	4461.7	4407.7	4333.0	4237.7	4121.8	3991.6	3845.4	3685.0	3516.6
35°	4896.9	4896.9	4847.7	4788.9	4706.3	4601.5	4476.0	4331.5	4169.4	3994.7	3805.7
32.5°	5295.6	5295.6	5241.6	5174.9	5081.2	4965.2	4827.0	4669.8	4506.2	4302.9	4096.4
30°	5689.5	5689.5	5630.7	5557.7	5457.6	5330.5	5179.6	5006.5	4814.3	4606.2	4383.9
27.5°	6077.1	6061.2	6011.9	5934.1	5824.5	5689.5	5525.9	5338.5	5130.4	4901.7	4663.4
25°	6458.3	6440.8	6386.8	6301.0	6183.5	6035.8	5859.5	5659.3	5435.4	5193.9	4933.4
22.5°	6823.6	6804.5	6747.4	6655.2	6529.8	6369.3	6180.3	5965.9	5727.6	5468.7	5193.9
20°	7161.9	7141.3	7082.5	6985.6	6855.4	6685.4	6485.3	6255.0	6000.8	5727.6	5435.4
17.5°	7466.9	7446.2	7384.3	7284.2	7161.9	6972.9	6766.4	6523.4	6255.0	5965.9	5659.3
15°	7735.3	7713.1	7649.5	7549.5	7409.7	7231.8	7014.2	6766.4	6485.3	6180.3	5859.5
12.5°	7964.0	7941.8	7876.7	7776.6	7632.1	7454.2	7231.8	6972.9	6685.4	6369.3	6035.8
10°	8145.1	8122.9	8060.9	7965.6	7816.3	7632.1	7409.7	7161.9	6855.4	6529.8	6183.5
7.5°	8275.4	8254.7	8197.5	8102.2	7965.6	7776.6	7549.5	7284.2	6985.6	6655.2	6301.0
5°	8373.8	8350.0	8292.8	8197.5	8060.9	7876.7	7649.5	7384.3	7082.5	6747.4	6386.8
2.5°	8442.1	8413.5	8350.0	8254.7	8122.9	7941.8	7713.1	7446.2	7141.3	6804.5	6440.8
0°	8461.2	8442.1	8373.8	8275.4	8145.1	7964.0	7735.3	7466.9	7161.9	6823.6	6458.3

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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°	57.2	57.2	55.6	54.0	52.4	49.2	47.7	46.1	44.5	41.3	39.7
85°	120.7	117.5	114.4	111.2	106.4	103.2	98.5	95.3	90.5	85.8	81.0
82.5°	190.6	185.8	179.5	174.7	168.4	160.4	154.1	146.1	138.2	131.8	123.9
80°	266.8	258.9	251.0	243.0	233.5	224.0	214.4	204.9	193.8	182.7	171.5
77.5°	349.4	338.3	327.2	314.5	303.4	290.7	278.0	265.3	251.0	236.7	222.4
75°	441.6	427.3	411.4	395.5	381.2	363.7	346.3	328.8	309.7	292.3	273.2
72.5°	541.6	524.2	505.1	486.0	465.4	443.2	420.9	397.1	374.9	352.6	328.8
70°	649.6	629.0	605.2	581.3	555.9	528.9	501.9	473.3	444.7	416.2	387.6
67.5°	765.6	740.2	711.6	683.0	651.2	619.5	587.7	554.3	519.4	484.5	451.1
65°	889.5	857.7	824.4	787.8	751.3	714.8	676.6	636.9	597.2	555.9	519.4
62.5°	1027.7	988.0	945.1	900.6	859.3	814.8	773.5	724.3	676.6	630.6	584.5
60°	1188.1	1135.7	1083.3	1027.7	975.3	918.1	867.2	813.2	759.2	706.8	652.8
57.5°	1367.6	1300.9	1237.3	1170.6	1100.7	1037.2	972.1	907.0	846.6	784.7	725.9
55°	1570.9	1489.9	1410.5	1327.9	1246.9	1167.4	1084.9	1011.8	937.1	867.2	798.9
52.5°	1793.3	1701.1	1602.7	1508.9	1405.7	1307.2	1215.1	1123.0	1035.6	951.4	873.6
50°	2031.5	1923.5	1810.7	1696.4	1578.8	1462.9	1351.7	1243.7	1142.0	1043.6	951.4
47.5°	2279.3	2157.0	2028.3	1898.1	1772.6	1631.2	1497.8	1375.5	1253.2	1142.0	1035.6
45°	2533.4	2395.2	2253.9	2106.2	1958.4	1806.0	1658.2	1508.9	1375.5	1243.7	1123.0
42.5°	2795.5	2639.9	2482.6	2319.0	2155.4	1988.6	1821.8	1658.2	1497.8	1351.7	1215.1
40°	3065.5	2894.0	2714.5	2536.6	2361.9	2171.3	1988.6	1806.0	1631.2	1462.9	1307.2
37.5°	3335.6	3148.1	2954.4	2754.2	2554.1	2361.9	2155.4	1958.4	1772.6	1578.8	1405.7
35°	3607.2	3400.7	3191.0	2973.4	2754.2	2536.6	2319.0	2106.2	1898.1	1696.4	1508.9
32.5°	3880.4	3654.8	3422.9	3191.0	2954.4	2714.5	2482.6	2253.9	2028.3	1810.7	1602.7
30°	4148.8	3904.2	3654.8	3400.7	3148.1	2894.0	2639.9	2395.2	2157.0	1923.5	1701.1
27.5°	4410.9	4148.8	3880.4	3607.2	3335.6	3065.5	2795.5	2533.4	2279.3	2031.5	1793.3
25°	4663.4	4383.9	4096.4	3805.7	3516.6	3229.1	2944.8	2662.1	2395.2	2134.8	1885.4
22.5°	4901.7	4606.2	4302.9	3994.7	3685.0	3381.6	3083.0	2789.2	2504.8	2231.6	1969.6
20°	5130.4	4814.3	4506.2	4169.4	3845.4	3526.2	3213.3	2905.1	2604.9	2320.6	2045.8
17.5°	5338.5	5006.5	4669.8	4331.5	3991.6	3656.4	3329.2	3022.7	2697.0	2401.6	2118.9
15°	5525.9	5179.6	4827.0	4476.0	4121.8	3773.9	3434.0	3103.7	2781.2	2474.7	2182.4
12.5°	5689.5	5330.5	4965.2	4601.5	4237.7	3877.2	3526.2	3184.7	2854.3	2536.6	2236.4
10°	5824.5	5457.6	5081.2	4706.3	4333.0	3963.0	3600.8	3253.0	2914.6	2589.0	2280.9
7.5°	5934.1	5557.7	5174.9	4788.9	4407.7	4029.7	3661.2	3305.4	2962.3	2628.7	2315.8
5°	6011.9	5630.7	5241.6	4847.7	4461.7	4078.9	3704.1	3343.5	2995.6	2657.3	2341.2
2.5°	6061.2	5689.5	5295.6	4896.9	4506.2	4118.6	3739.0	3373.7	3022.7	2681.2	2361.9
0°	6077.1	5689.5	5295.6	4896.9	4506.2	4118.6	3739.0	3373.7	3022.7	2681.2	2361.9

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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°	38.1	34.9	31.8	30.2	27.0	25.4	22.2	19.1	17.5	14.3	11.1
85°	76.2	69.9	65.1	60.4	55.6	49.2	44.5	39.7	33.4	28.6	22.2
82.5°	116.0	108.0	100.1	92.1	84.2	76.2	66.7	58.8	50.8	42.9	33.4
80°	160.4	147.7	136.6	125.5	114.4	103.2	90.5	79.4	66.7	55.6	44.5
77.5°	206.5	192.2	176.3	160.4	144.5	130.2	114.4	100.1	85.8	69.9	55.6
75°	255.7	236.7	219.2	198.5	179.5	158.8	139.8	120.7	103.2	85.8	66.7
72.5°	306.6	282.7	258.9	236.7	212.8	189.0	166.8	143.0	120.7	100.1	79.4
70°	359.0	330.4	301.8	274.8	247.8	219.2	193.8	166.8	139.8	114.4	90.5
67.5°	414.6	381.2	347.9	312.9	282.7	251.0	219.2	189.0	158.8	130.2	103.2
65°	474.9	435.2	393.9	357.4	317.7	282.7	247.8	212.8	179.5	144.5	114.4
62.5°	536.9	490.8	444.7	398.7	357.4	312.9	274.8	236.7	198.5	160.4	125.5
60°	600.4	548.0	495.6	444.7	393.9	347.9	301.8	258.9	219.2	176.3	136.6
57.5°	665.5	606.8	548.0	490.8	435.2	381.2	330.4	282.7	236.7	192.2	147.7
55°	732.2	665.5	600.4	536.9	474.9	414.6	359.0	306.6	255.7	206.5	160.4
52.5°	798.9	725.9	652.8	584.5	519.4	451.1	387.6	328.8	273.2	222.4	171.5
50°	867.2	784.7	706.8	630.6	555.9	484.5	416.2	352.6	292.3	236.7	182.7
47.5°	937.1	846.6	759.2	676.6	597.2	519.4	444.7	374.9	309.7	251.0	193.8
45°	1011.8	907.0	813.2	724.3	636.9	554.3	473.3	397.1	328.8	265.3	204.9
42.5°	1084.9	972.1	867.2	773.5	676.6	587.7	501.9	420.9	346.3	278.0	214.4
40°	1167.4	1037.2	918.1	814.8	714.8	619.5	528.9	443.2	363.7	290.7	224.0
37.5°	1246.9	1100.7	975.3	859.3	751.3	651.2	555.9	465.4	381.2	303.4	233.5
35°	1327.9	1170.6	1027.7	900.6	787.8	683.0	581.3	486.0	395.5	314.5	243.0
32.5°	1410.5	1237.3	1083.3	945.1	824.4	711.6	605.2	505.1	411.4	327.2	251.0
30°	1489.9	1300.9	1135.7	988.0	857.7	740.2	629.0	524.2	427.3	338.3	258.9
27.5°	1570.9	1367.6	1188.1	1027.7	889.5	765.6	649.6	541.6	441.6	349.4	266.8
25°	1648.7	1431.1	1237.3	1065.8	918.1	791.0	671.9	559.1	454.3	359.0	273.2
22.5°	1720.2	1486.7	1281.8	1102.3	948.3	813.2	690.9	575.0	467.0	368.5	279.6
20°	1785.3	1543.9	1327.9	1138.9	976.8	835.5	706.8	589.3	478.1	376.4	285.9
17.5°	1848.9	1596.3	1369.2	1172.2	1000.7	854.5	722.7	600.4	487.6	382.8	290.7
15°	1902.9	1642.4	1405.7	1200.8	1022.9	870.4	735.4	611.5	495.6	389.1	293.8
12.5°	1950.5	1682.1	1437.5	1224.6	1040.4	884.7	748.1	621.0	503.5	393.9	298.6
10°	1988.6	1713.8	1462.9	1245.3	1056.3	895.8	756.1	629.0	508.3	398.7	301.8
7.5°	2018.8	1739.3	1483.5	1259.6	1067.4	905.4	764.0	633.8	513.0	401.9	306.6
5°	2041.0	1758.3	1497.8	1270.7	1076.9	916.5	773.5	641.7	519.4	406.6	306.6
2.5°	2058.5	1772.6	1508.9	1280.2	1083.3	916.5	773.5	641.7	519.4	406.6	306.6
0°	2058.5	1772.6	1508.9	1280.2	1083.3	916.5	773.5	641.7	519.4	406.6	306.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.9	6.4	3.2	0.0
85°	17.5	11.1	6.4	0.0
82.5°	25.4	17.5	7.9	0.0
80°	33.4	22.2	11.1	0.0
77.5°	42.9	28.6	14.3	0.0
75°	50.8	33.4	17.5	0.0
72.5°	58.8	39.7	19.1	0.0
70°	66.7	44.5	22.2	0.0
67.5°	76.2	49.2	25.4	0.0
65°	84.2	55.6	27.0	0.0
62.5°	92.1	60.4	30.2	0.0
60°	100.1	65.1	31.8	0.0
57.5°	108.0	69.9	34.9	0.0
55°	116.0	76.2	38.1	0.0
52.5°	123.9	81.0	39.7	0.0
50°	131.8	85.8	41.3	0.0
47.5°	138.2	90.5	44.5	0.0
45°	146.1	95.3	46.1	0.0
42.5°	154.1	98.5	47.7	0.0
40°	160.4	103.2	49.2	0.0
37.5°	168.4	106.4	52.4	0.0
35°	174.7	111.2	54.0	0.0
32.5°	179.5	114.4	55.6	0.0
30°	185.8	117.5	57.2	0.0
27.5°	190.6	120.7	57.2	0.0
25°	195.4	123.9	58.8	0.0
22.5°	200.1	125.5	60.4	0.0
20°	204.9	128.7	61.9	0.0
17.5°	208.1	130.2	61.9	0.0
15°	211.3	131.8	65.1	0.0
12.5°	212.8	133.4	65.1	0.0
10°	216.0	136.6	65.1	0.0
7.5°	219.2	136.6	65.1	0.0
5°	219.2	136.6	65.1	0.0
2.5°	219.2	136.6	65.1	0.0
0°	219.2	136.6	65.1	0.0

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