

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: P623834

Luminaire Tested: **IFLD-L-SA7D-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623834
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

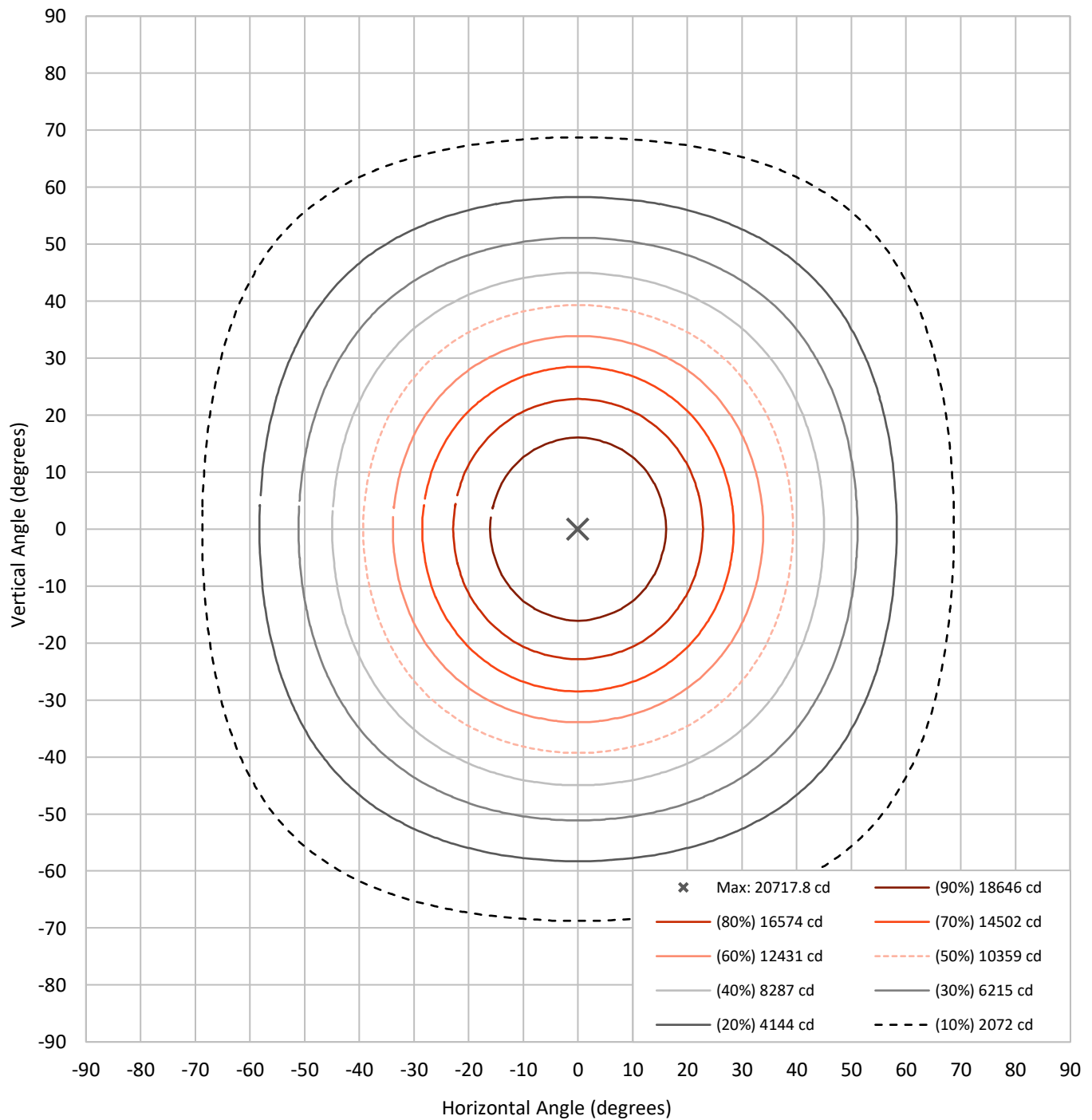
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	37302.9 lumens	Max Intensity:	20717.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	88.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	16140.6 lumens	Field Lumens:	26429.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	422.6		
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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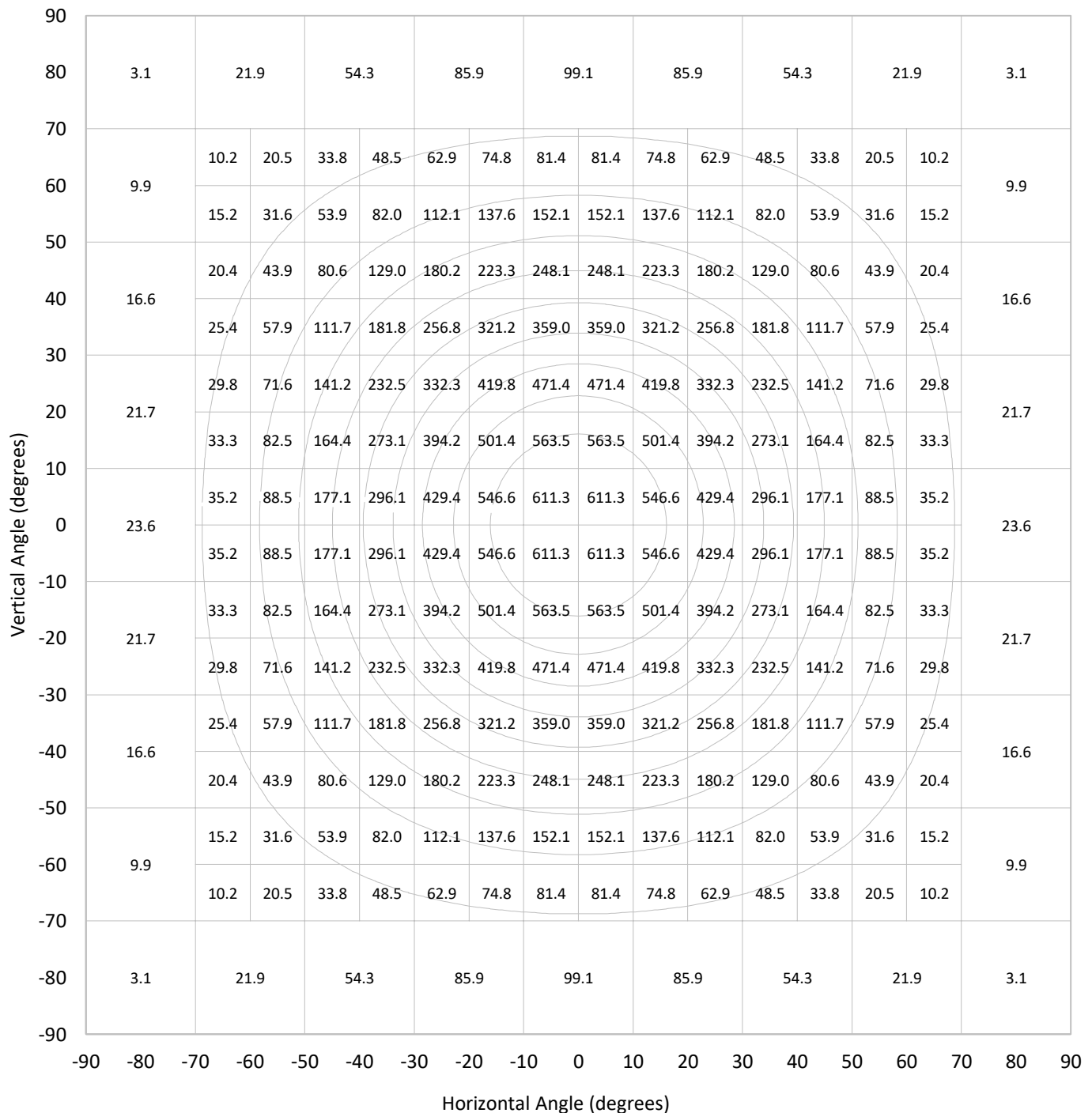
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Iso-Candela Plot



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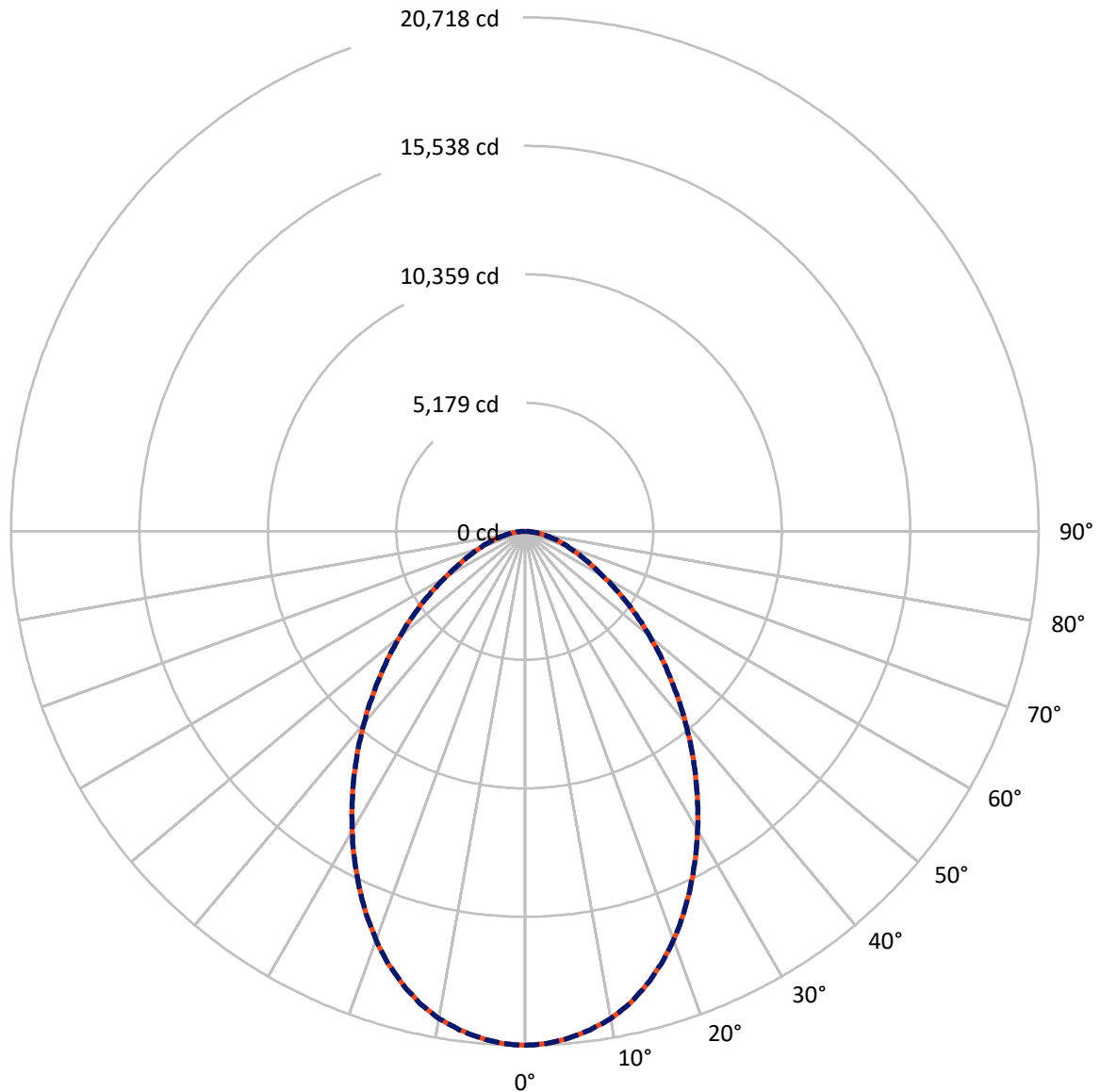
Lumen Table



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Luminous Intensity Polar Plot

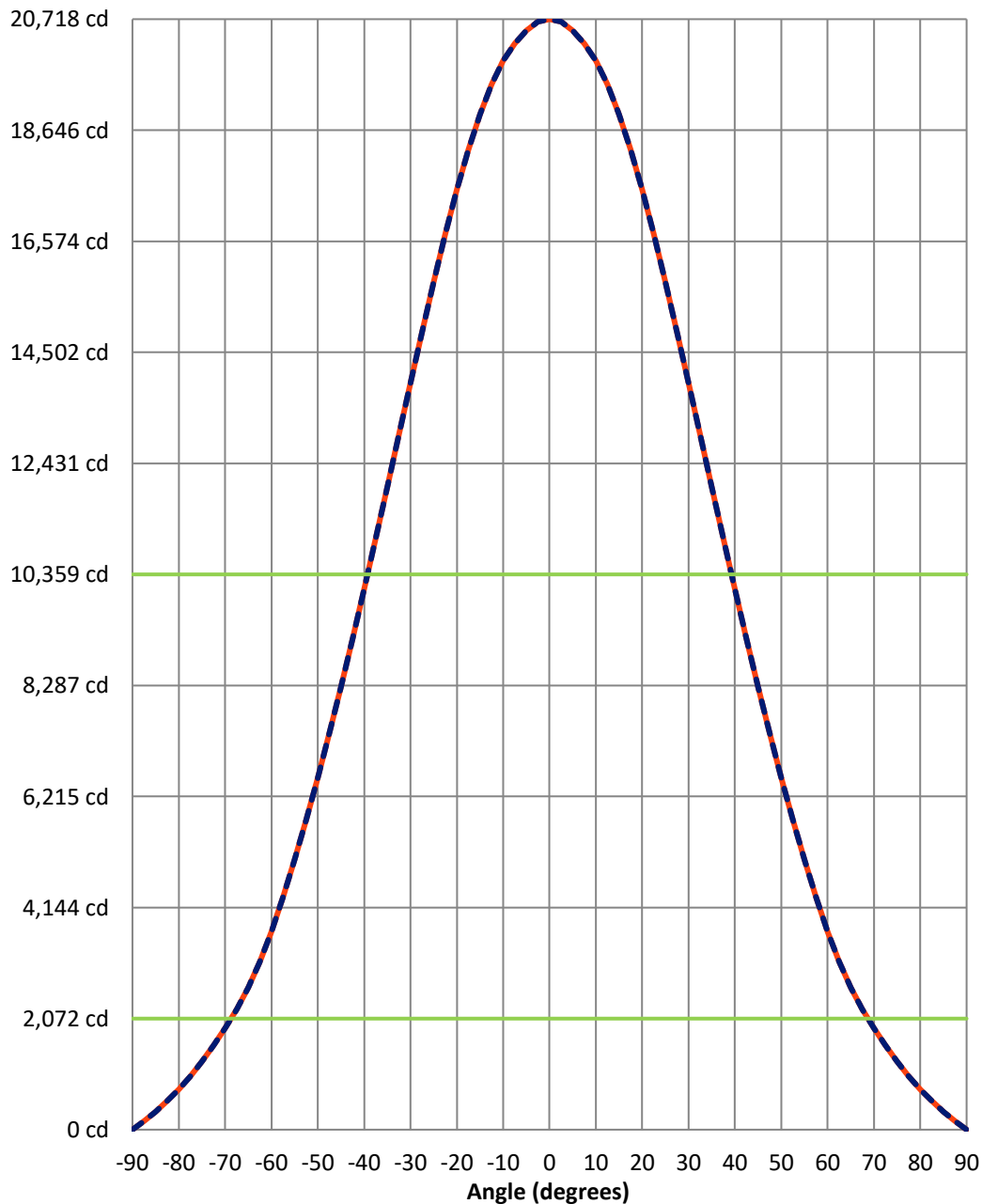


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 16140.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 26429.6
Efficiency: 70.9%

Spill:

Lumens: 10873.2
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°	159.5	159.5	159.5	159.5	159.5	159.5	159.5	151.7	151.7	147.8	143.9
85°	334.5	334.5	334.5	334.5	334.5	326.7	322.8	318.9	315.0	307.2	303.4
82.5°	536.7	536.7	536.7	536.7	528.9	521.2	517.3	509.5	501.7	490.0	478.4
80°	750.6	750.6	750.6	750.6	738.9	731.2	719.5	711.7	700.1	684.5	668.9
77.5°	995.6	995.6	995.6	984.0	976.2	964.5	952.9	937.3	921.7	902.3	879.0
75°	1271.8	1271.8	1271.8	1256.2	1244.5	1232.9	1213.4	1194.0	1170.7	1143.4	1112.3
72.5°	1571.2	1571.2	1571.2	1551.8	1540.1	1520.7	1497.3	1470.1	1442.9	1407.9	1369.0
70°	1894.0	1894.0	1894.0	1870.7	1851.3	1831.8	1800.7	1769.6	1730.7	1691.8	1645.1
67.5°	2244.1	2244.1	2244.1	2216.8	2193.5	2166.3	2131.3	2092.4	2045.7	1991.3	1936.8
65°	2652.4	2652.4	2636.9	2613.5	2586.3	2547.4	2504.6	2450.2	2391.9	2321.9	2248.0
62.5°	3134.7	3134.7	3111.4	3084.1	3049.1	2998.6	2940.2	2870.2	2788.6	2699.1	2609.7
60°	3694.7	3694.7	3667.5	3632.5	3582.0	3519.7	3441.9	3352.5	3251.4	3138.6	3029.7
57.5°	4340.4	4340.4	4305.4	4258.7	4196.5	4118.7	4021.4	3908.7	3780.3	3640.3	3504.2
55°	5040.4	5040.4	4997.6	4943.2	4869.3	4775.9	4659.3	4527.0	4371.5	4212.0	4037.0
52.5°	5783.2	5783.2	5732.7	5670.5	5584.9	5476.0	5343.8	5188.2	5009.3	4822.6	4616.5
50°	6565.0	6565.0	6506.6	6436.6	6339.4	6211.1	6059.4	5880.5	5682.1	5464.3	5227.1
47.5°	7401.2	7401.2	7335.0	7253.4	7136.7	6988.9	6810.0	6603.9	6378.3	6133.3	5864.9
45°	8260.7	8260.7	8186.8	8093.4	7965.1	7797.9	7599.5	7401.2	7113.4	6829.4	6518.3
42.5°	9155.2	9155.2	9069.6	8964.6	8816.8	8634.0	8408.5	8151.8	7867.9	7548.9	7210.6
40°	10084.7	10084.7	9987.5	9866.9	9703.6	9493.6	9240.8	8953.0	8634.0	8280.1	7906.8
37.5°	11033.7	11033.7	10924.8	10792.5	10609.8	10376.4	10092.5	9773.6	9415.8	9023.0	8610.7
35°	11990.4	11990.4	11869.9	11726.0	11523.7	11267.0	10959.8	10605.9	10209.2	9781.4	9318.5
32.5°	12966.6	12966.6	12834.4	12671.0	12441.6	12157.7	11819.3	11434.3	11033.7	10535.9	10030.3
30°	13931.1	13931.1	13787.2	13608.3	13363.3	13052.2	12682.7	12258.8	11788.2	11278.7	10734.2
27.5°	14880.1	14841.2	14720.6	14530.1	14261.7	13931.1	13530.5	13071.6	12562.1	12002.1	11418.7
25°	15813.5	15770.7	15638.5	15428.5	15140.7	14779.0	14347.3	13857.2	13308.9	12717.7	12079.9
22.5°	16708.0	16661.4	16521.3	16295.8	15988.5	15595.7	15132.9	14607.9	14024.5	13390.5	12717.7
20°	17536.4	17485.9	17342.0	17104.7	16785.8	16369.7	15879.6	15315.7	14693.4	14024.5	13308.9
17.5°	18283.2	18232.6	18080.9	17835.9	17536.4	17073.6	16568.0	15973.0	15315.7	14607.9	13857.2
15°	18940.4	18886.0	18730.4	18485.4	18143.1	17707.6	17174.7	16568.0	15879.6	15132.9	14347.3
12.5°	19500.5	19446.0	19286.6	19041.6	18687.6	18252.0	17707.6	17073.6	16369.7	15595.7	14779.0
10°	19943.8	19889.4	19737.7	19504.4	19138.8	18687.6	18143.1	17536.4	16785.8	15988.5	15140.7
7.5°	20262.8	20212.2	20072.2	19838.8	19504.4	19041.6	18485.4	17835.9	17104.7	16295.8	15428.5
5°	20503.9	20445.6	20305.5	20072.2	19737.7	19286.6	18730.4	18080.9	17342.0	16521.3	15638.5
2.5°	20671.1	20601.1	20445.6	20212.2	19889.4	19446.0	18886.0	18232.6	17485.9	16661.4	15770.7
0°	20717.8	20671.1	20503.9	20262.8	19943.8	19500.5	18940.4	18283.2	17536.4	16708.0	15813.5

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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°	140.0	140.0	136.1	132.2	128.3	120.6	116.7	112.8	108.9	101.1	97.2
85°	295.6	287.8	280.0	272.2	260.6	252.8	241.1	233.4	221.7	210.0	198.3
82.5°	466.7	455.0	439.5	427.8	412.3	392.8	377.3	357.8	338.4	322.8	303.4
80°	653.4	633.9	614.5	595.0	571.7	548.4	525.0	501.7	474.5	447.3	420.0
77.5°	855.6	828.4	801.2	770.1	742.8	711.7	680.6	649.5	614.5	579.5	544.5
75°	1081.2	1046.2	1007.3	968.4	933.4	890.6	847.8	805.1	758.4	715.6	668.9
72.5°	1326.2	1283.4	1236.8	1190.1	1139.5	1085.1	1030.6	972.3	917.9	863.4	805.1
70°	1590.7	1540.1	1481.8	1423.4	1361.2	1295.1	1229.0	1159.0	1089.0	1019.0	949.0
67.5°	1874.6	1812.4	1742.4	1672.4	1594.6	1516.8	1439.0	1357.3	1271.8	1186.2	1104.5
65°	2178.0	2100.2	2018.5	1929.0	1839.6	1750.1	1656.8	1559.6	1462.3	1361.2	1271.8
62.5°	2516.3	2419.1	2314.1	2205.2	2104.1	1995.2	1894.0	1773.5	1656.8	1544.0	1431.2
60°	2909.1	2780.8	2652.4	2516.3	2388.0	2248.0	2123.5	1991.3	1859.0	1730.7	1598.5
57.5°	3348.6	3185.3	3029.7	2866.3	2695.2	2539.7	2380.2	2220.7	2072.9	1921.3	1777.4
55°	3846.4	3648.1	3453.6	3251.4	3053.0	2858.6	2656.3	2477.4	2294.6	2123.5	1956.3
52.5°	4390.9	4165.3	3924.2	3694.7	3441.9	3200.8	2975.2	2749.7	2535.8	2329.6	2139.1
50°	4974.3	4709.8	4433.7	4153.7	3865.9	3582.0	3309.7	3045.2	2796.3	2555.2	2329.6
47.5°	5581.0	5281.5	4966.5	4647.6	4340.4	3994.2	3667.5	3368.1	3068.6	2796.3	2535.8
45°	6203.3	5864.9	5518.8	5157.1	4795.4	4422.0	4060.3	3694.7	3368.1	3045.2	2749.7
42.5°	6845.0	6463.9	6078.8	5678.2	5277.7	4869.3	4460.9	4060.3	3667.5	3309.7	2975.2
40°	7506.2	7086.1	6646.7	6211.1	5783.2	5316.5	4869.3	4422.0	3994.2	3582.0	3200.8
37.5°	8167.3	7708.4	7233.9	6743.9	6253.8	5783.2	5277.7	4795.4	4340.4	3865.9	3441.9
35°	8832.4	8326.8	7813.4	7280.6	6743.9	6211.1	5678.2	5157.1	4647.6	4153.7	3694.7
32.5°	9501.3	8949.1	8381.2	7813.4	7233.9	6646.7	6078.8	5518.8	4966.5	4433.7	3924.2
30°	10158.6	9559.7	8949.1	8326.8	7708.4	7086.1	6463.9	5864.9	5281.5	4709.8	4165.3
27.5°	10800.3	10158.6	9501.3	8832.4	8167.3	7506.2	6845.0	6203.3	5581.0	4974.3	4390.9
25°	11418.7	10734.2	10030.3	9318.5	8610.7	7906.8	7210.6	6518.3	5864.9	5227.1	4616.5
22.5°	12002.1	11278.7	10535.9	9781.4	9023.0	8280.1	7548.9	6829.4	6133.3	5464.3	4822.6
20°	12562.1	11788.2	11033.7	10209.2	9415.8	8634.0	7867.9	7113.4	6378.3	5682.1	5009.3
17.5°	13071.6	12258.8	11434.3	10605.9	9773.6	8953.0	8151.8	7401.2	6603.9	5880.5	5188.2
15°	13530.5	12682.7	11819.3	10959.8	10092.5	9240.8	8408.5	7599.5	6810.0	6059.4	5343.8
12.5°	13931.1	13052.2	12157.7	11267.0	10376.4	9493.6	8634.0	7797.9	6988.9	6211.1	5476.0
10°	14261.7	13363.3	12441.6	11523.7	10609.8	9703.6	8816.8	7965.1	7136.7	6339.4	5584.9
7.5°	14530.1	13608.3	12671.0	11726.0	10792.5	9866.9	8964.6	8093.4	7253.4	6436.6	5670.5
5°	14720.6	13787.2	12834.4	11869.9	10924.8	9987.5	9069.6	8186.8	7335.0	6506.6	5732.7
2.5°	14841.2	13931.1	12966.6	11990.4	11033.7	10084.7	9155.2	8260.7	7401.2	6565.0	5783.2
0°	14880.1	13931.1	12966.6	11990.4	11033.7	10084.7	9155.2	8260.7	7401.2	6565.0	5783.2

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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°	93.3	85.6	77.8	73.9	66.1	62.2	54.4	46.7	42.8	35.0	27.2
85°	186.7	171.1	159.5	147.8	136.1	120.6	108.9	97.2	81.7	70.0	54.4
82.5°	283.9	264.5	245.0	225.6	206.1	186.7	163.3	143.9	124.5	105.0	81.7
80°	392.8	361.7	334.5	307.2	280.0	252.8	221.7	194.5	163.3	136.1	108.9
77.5°	505.6	470.6	431.7	392.8	353.9	318.9	280.0	245.0	210.0	171.1	136.1
75°	626.2	579.5	536.7	486.2	439.5	388.9	342.3	295.6	252.8	210.0	163.3
72.5°	750.6	692.3	633.9	579.5	521.2	462.8	408.4	350.0	295.6	245.0	194.5
70°	879.0	809.0	738.9	672.8	606.7	536.7	474.5	408.4	342.3	280.0	221.7
67.5°	1015.1	933.4	851.7	766.2	692.3	614.5	536.7	462.8	388.9	318.9	252.8
65°	1162.9	1065.6	964.5	875.1	777.8	692.3	606.7	521.2	439.5	353.9	280.0
62.5°	1314.6	1201.8	1089.0	976.2	875.1	766.2	672.8	579.5	486.2	392.8	307.2
60°	1470.1	1341.8	1213.4	1089.0	964.5	851.7	738.9	633.9	536.7	431.7	334.5
57.5°	1629.6	1485.7	1341.8	1201.8	1065.6	933.4	809.0	692.3	579.5	470.6	361.7
55°	1792.9	1629.6	1470.1	1314.6	1162.9	1015.1	879.0	750.6	626.2	505.6	392.8
52.5°	1956.3	1777.4	1598.5	1431.2	1271.8	1104.5	949.0	805.1	668.9	544.5	420.0
50°	2123.5	1921.3	1730.7	1544.0	1361.2	1186.2	1019.0	863.4	715.6	579.5	447.3
47.5°	2294.6	2072.9	1859.0	1656.8	1462.3	1271.8	1089.0	917.9	758.4	614.5	474.5
45°	2477.4	2220.7	1991.3	1773.5	1559.6	1357.3	1159.0	972.3	805.1	649.5	501.7
42.5°	2656.3	2380.2	2123.5	1894.0	1656.8	1439.0	1229.0	1030.6	847.8	680.6	525.0
40°	2858.6	2539.7	2248.0	1995.2	1750.1	1516.8	1295.1	1085.1	890.6	711.7	548.4
37.5°	3053.0	2695.2	2388.0	2104.1	1839.6	1594.6	1361.2	1139.5	933.4	742.8	571.7
35°	3251.4	2866.3	2516.3	2205.2	1929.0	1672.4	1423.4	1190.1	968.4	770.1	595.0
32.5°	3453.6	3029.7	2652.4	2314.1	2018.5	1742.4	1481.8	1236.8	1007.3	801.2	614.5
30°	3648.1	3185.3	2780.8	2419.1	2100.2	1812.4	1540.1	1283.4	1046.2	828.4	633.9
27.5°	3846.4	3348.6	2909.1	2516.3	2178.0	1874.6	1590.7	1326.2	1081.2	855.6	653.4
25°	4037.0	3504.2	3029.7	2609.7	2248.0	1936.8	1645.1	1369.0	1112.3	879.0	668.9
22.5°	4212.0	3640.3	3138.6	2699.1	2321.9	1991.3	1691.8	1407.9	1143.4	902.3	684.5
20°	4371.5	3780.3	3251.4	2788.6	2391.9	2045.7	1730.7	1442.9	1170.7	921.7	700.1
17.5°	4527.0	3908.7	3352.5	2870.2	2450.2	2092.4	1769.6	1470.1	1194.0	937.3	711.7
15°	4659.3	4021.4	3441.9	2940.2	2504.6	2131.3	1800.7	1497.3	1213.4	952.9	719.5
12.5°	4775.9	4118.7	3519.7	2998.6	2547.4	2166.3	1831.8	1520.7	1232.9	964.5	731.2
10°	4869.3	4196.5	3582.0	3049.1	2586.3	2193.5	1851.3	1540.1	1244.5	976.2	738.9
7.5°	4943.2	4258.7	3632.5	3084.1	2613.5	2216.8	1870.7	1551.8	1256.2	984.0	750.6
5°	4997.6	4305.4	3667.5	3111.4	2636.9	2244.1	1894.0	1571.2	1271.8	995.6	750.6
2.5°	5040.4	4340.4	3694.7	3134.7	2652.4	2244.1	1894.0	1571.2	1271.8	995.6	750.6
0°	5040.4	4340.4	3694.7	3134.7	2652.4	2244.1	1894.0	1571.2	1271.8	995.6	750.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.4	15.6	7.8	0.0
85°	42.8	27.2	15.6	0.0
82.5°	62.2	42.8	19.4	0.0
80°	81.7	54.4	27.2	0.0
77.5°	105.0	70.0	35.0	0.0
75°	124.5	81.7	42.8	0.0
72.5°	143.9	97.2	46.7	0.0
70°	163.3	108.9	54.4	0.0
67.5°	186.7	120.6	62.2	0.0
65°	206.1	136.1	66.1	0.0
62.5°	225.6	147.8	73.9	0.0
60°	245.0	159.5	77.8	0.0
57.5°	264.5	171.1	85.6	0.0
55°	283.9	186.7	93.3	0.0
52.5°	303.4	198.3	97.2	0.0
50°	322.8	210.0	101.1	0.0
47.5°	338.4	221.7	108.9	0.0
45°	357.8	233.4	112.8	0.0
42.5°	377.3	241.1	116.7	0.0
40°	392.8	252.8	120.6	0.0
37.5°	412.3	260.6	128.3	0.0
35°	427.8	272.2	132.2	0.0
32.5°	439.5	280.0	136.1	0.0
30°	455.0	287.8	140.0	0.0
27.5°	466.7	295.6	140.0	0.0
25°	478.4	303.4	143.9	0.0
22.5°	490.0	307.2	147.8	0.0
20°	501.7	315.0	151.7	0.0
17.5°	509.5	318.9	151.7	0.0
15°	517.3	322.8	159.5	0.0
12.5°	521.2	326.7	159.5	0.0
10°	528.9	334.5	159.5	0.0
7.5°	536.7	334.5	159.5	0.0
5°	536.7	334.5	159.5	0.0
2.5°	536.7	334.5	159.5	0.0
0°	536.7	334.5	159.5	0.0

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