

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: P624050

Luminaire Tested: **IFLD-S-SA3C-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624050
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

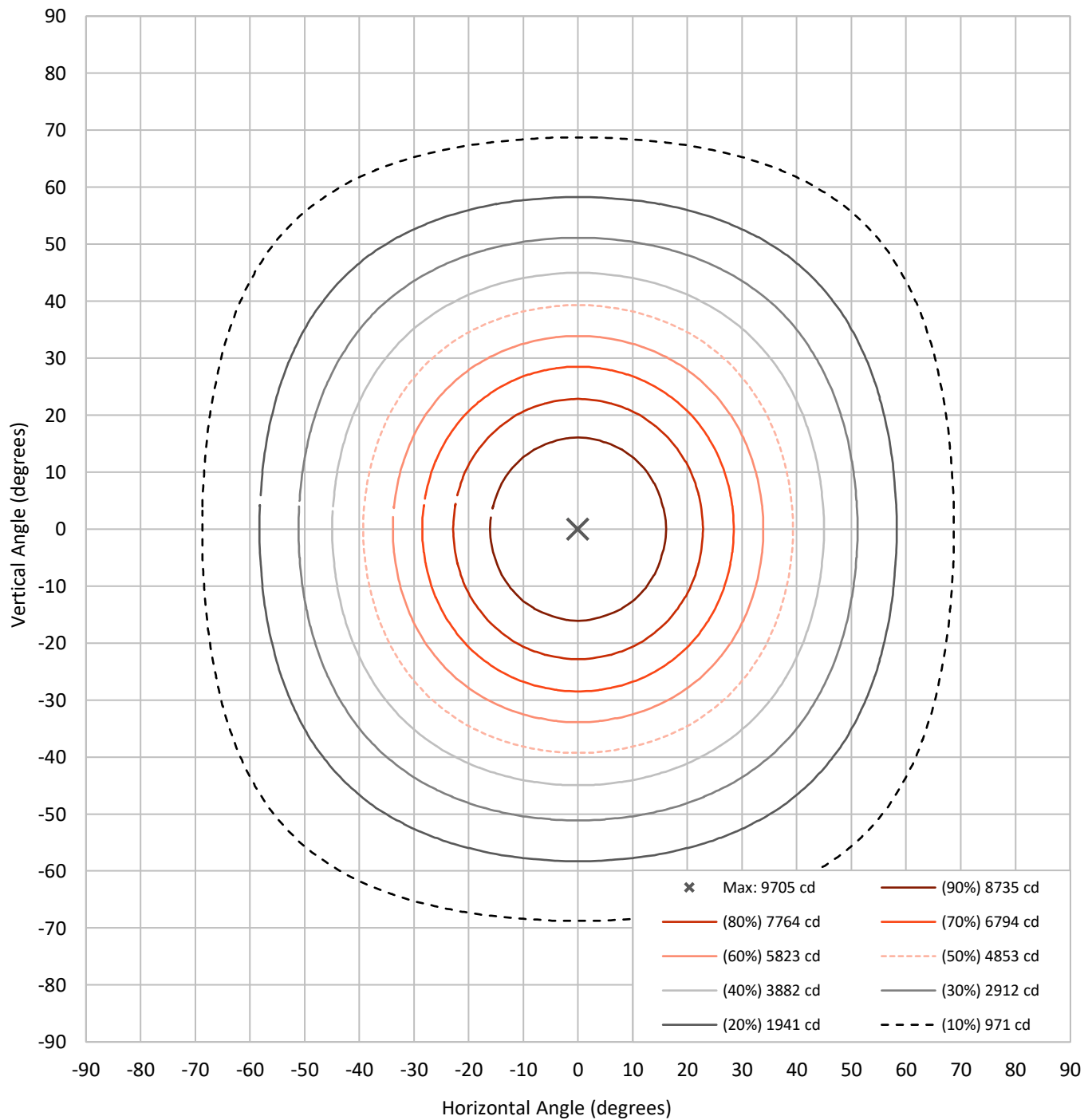
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17474 lumens	Max Intensity:	9705 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	108.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	7560.8 lumens	Field Lumens:	12380.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	160.8		
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		



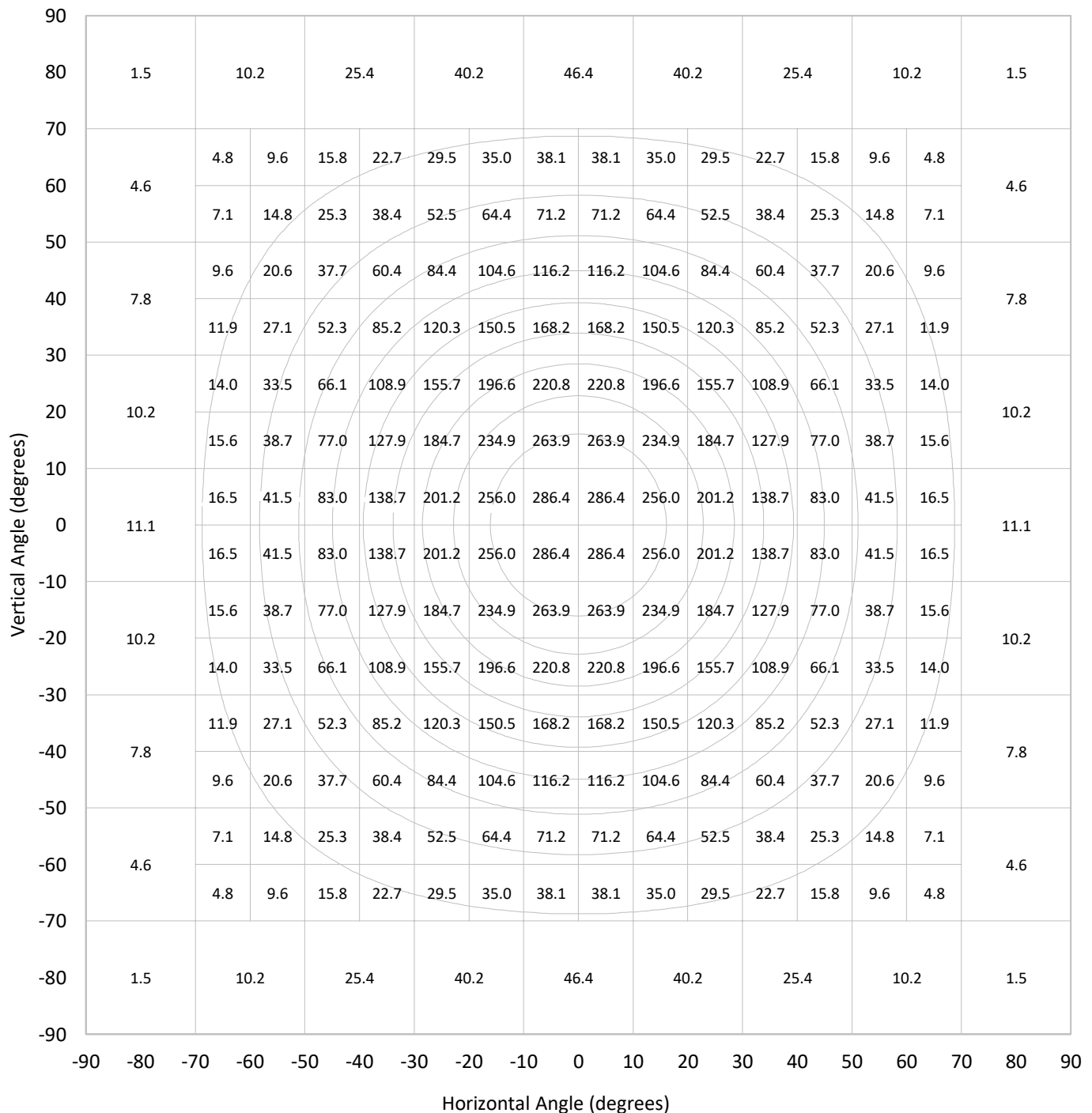
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Iso-Candela Plot



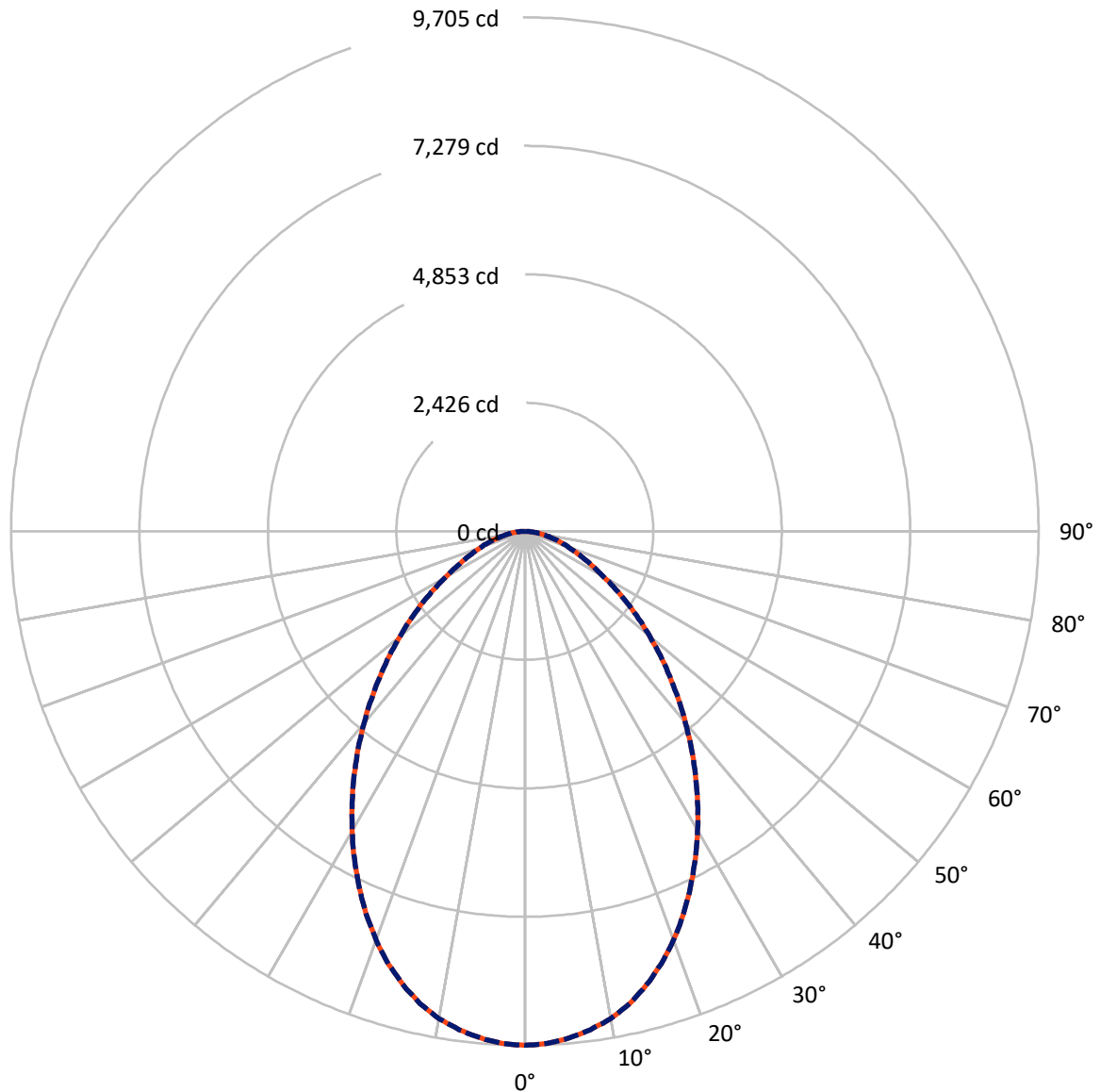
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Lumen Table



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Luminous Intensity Polar Plot

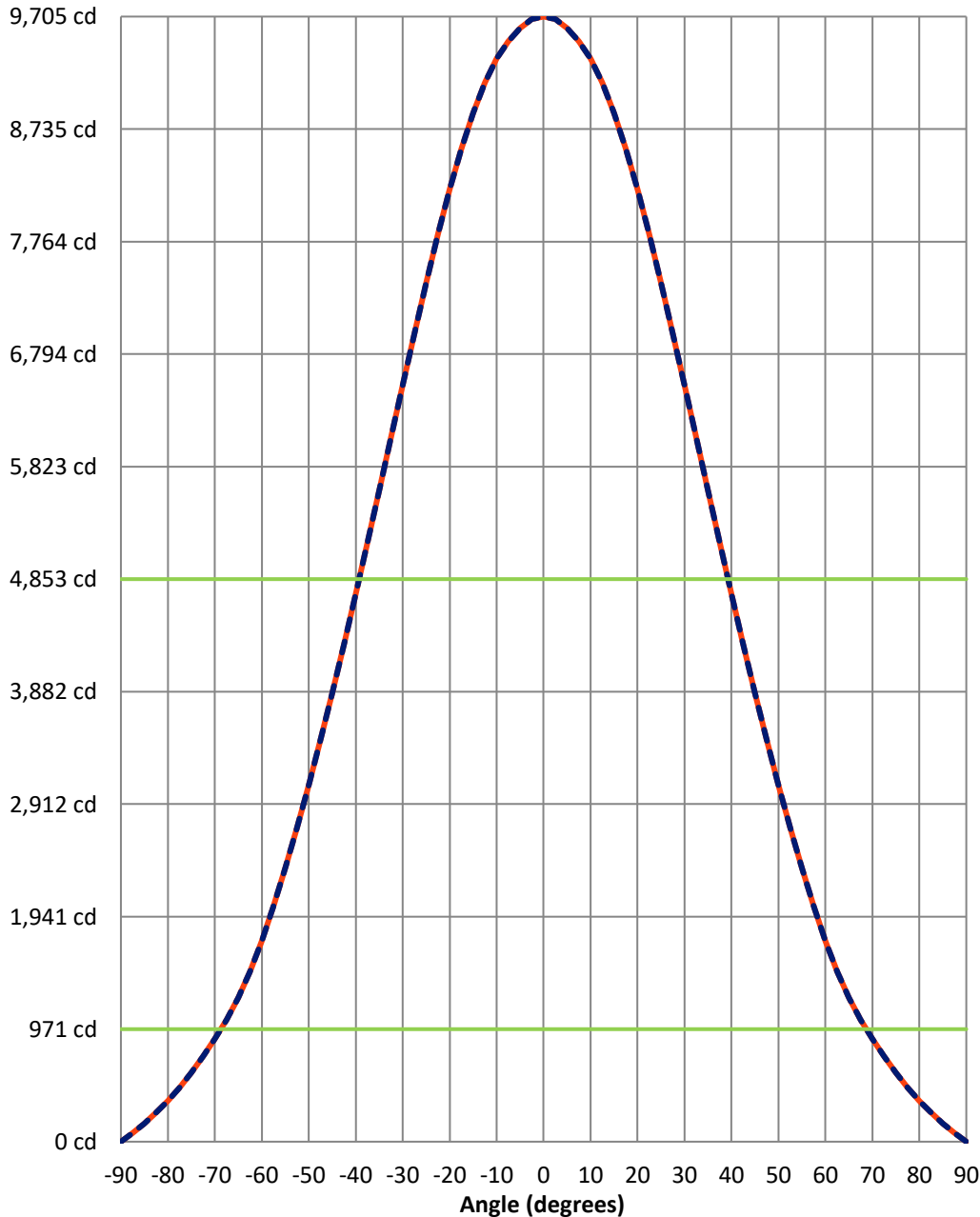


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 7560.8
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 12380.6
Efficiency: 70.9%

Spill:
Lumens: 5093.4
Efficiency: 29.1%

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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°	74.7	74.7	74.7	74.7	74.7	74.7	74.7	71.1	71.1	69.2	67.4
85°	156.7	156.7	156.7	156.7	156.7	153.0	151.2	149.4	147.6	143.9	142.1
82.5°	251.4	251.4	251.4	251.4	247.8	244.1	242.3	238.7	235.0	229.6	224.1
80°	351.6	351.6	351.6	351.6	346.2	342.5	337.0	333.4	327.9	320.6	313.4
77.5°	466.4	466.4	466.4	460.9	457.3	451.8	446.4	439.1	431.8	422.7	411.7
75°	595.7	595.7	595.7	588.5	583.0	577.5	568.4	559.3	548.4	535.6	521.0
72.5°	736.0	736.0	736.0	726.9	721.4	712.3	701.4	688.7	675.9	659.5	641.3
70°	887.2	887.2	887.2	876.3	867.2	858.1	843.5	828.9	810.7	792.5	770.6
67.5°	1051.2	1051.2	1051.2	1038.5	1027.5	1014.8	998.4	980.2	958.3	932.8	907.3
65°	1242.5	1242.5	1235.2	1224.3	1211.5	1193.3	1173.3	1147.8	1120.4	1087.6	1053.0
62.5°	1468.4	1468.4	1457.5	1444.7	1428.3	1404.6	1377.3	1344.5	1306.3	1264.4	1222.5
60°	1730.8	1730.8	1718.0	1701.6	1677.9	1648.8	1612.3	1570.4	1523.1	1470.2	1419.2
57.5°	2033.2	2033.2	2016.8	1994.9	1965.8	1929.3	1883.8	1831.0	1770.8	1705.2	1641.5
55°	2361.1	2361.1	2341.1	2315.6	2280.9	2237.2	2182.6	2120.6	2047.8	1973.1	1891.1
52.5°	2709.1	2709.1	2685.4	2656.2	2616.2	2565.2	2503.2	2430.3	2346.5	2259.1	2162.5
50°	3075.3	3075.3	3047.9	3015.1	2969.6	2909.5	2838.4	2754.6	2661.7	2559.7	2448.6
47.5°	3467.0	3467.0	3436.0	3397.7	3343.1	3273.9	3190.0	3093.5	2987.8	2873.0	2747.3
45°	3869.6	3869.6	3835.0	3791.3	3731.1	3652.8	3559.9	3467.0	3332.1	3199.2	3053.4
42.5°	4288.6	4288.6	4248.5	4199.3	4130.1	4044.5	3938.8	3818.6	3685.6	3536.2	3377.7
40°	4724.0	4724.0	4678.5	4622.0	4545.5	4447.1	4328.7	4193.9	4044.5	3878.7	3703.8
37.5°	5168.6	5168.6	5117.6	5055.6	4970.0	4860.7	4727.7	4578.3	4410.7	4226.7	4033.6
35°	5616.7	5616.7	5560.3	5492.9	5398.1	5277.9	5134.0	4968.2	4782.3	4581.9	4365.1
32.5°	6074.0	6074.0	6012.1	5935.6	5828.1	5695.1	5536.6	5356.2	5168.6	4935.4	4698.5
30°	6525.8	6525.8	6458.4	6374.6	6259.8	6114.1	5941.0	5742.4	5522.0	5283.3	5028.3
27.5°	6970.4	6952.1	6895.7	6806.4	6680.7	6525.8	6338.2	6123.2	5884.6	5622.2	5348.9
25°	7407.6	7387.6	7325.6	7227.2	7092.4	6923.0	6720.8	6491.2	6234.3	5957.4	5658.6
22.5°	7826.6	7804.8	7739.2	7633.5	7489.6	7305.6	7088.8	6842.8	6569.6	6272.6	5957.4
20°	8214.7	8191.0	8123.6	8012.5	7863.1	7668.1	7438.6	7174.4	6882.9	6569.6	6234.3
17.5°	8564.5	8540.8	8469.7	8355.0	8214.7	7997.9	7761.0	7482.3	7174.4	6842.8	6491.2
15°	8872.4	8846.9	8774.0	8659.2	8498.9	8294.8	8045.3	7761.0	7438.6	7088.8	6720.8
12.5°	9134.7	9109.2	9034.5	8919.7	8754.0	8549.9	8294.8	7997.9	7668.1	7305.6	6923.0
10°	9342.4	9316.9	9245.8	9136.5	8965.3	8754.0	8498.9	8214.7	7863.1	7489.6	7092.4
7.5°	9491.8	9468.1	9402.5	9293.2	9136.5	8919.7	8659.2	8355.0	8012.5	7633.5	7227.2
5°	9604.8	9577.4	9511.8	9402.5	9245.8	9034.5	8774.0	8469.7	8123.6	7739.2	7325.6
2.5°	9683.1	9650.3	9577.4	9468.1	9316.9	9109.2	8846.9	8540.8	8191.0	7804.8	7387.6
0°	9705.0	9683.1	9604.8	9491.8	9342.4	9134.7	8872.4	8564.5	8214.7	7826.6	7407.6

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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°	65.6	65.6	63.8	61.9	60.1	56.5	54.7	52.8	51.0	47.4	45.5
85°	138.5	134.8	131.2	127.5	122.1	118.4	113.0	109.3	103.8	98.4	92.9
82.5°	218.6	213.2	205.9	200.4	193.1	184.0	176.7	167.6	158.5	151.2	142.1
80°	306.1	297.0	287.9	278.7	267.8	256.9	245.9	235.0	222.3	209.5	196.8
77.5°	400.8	388.1	375.3	360.7	348.0	333.4	318.8	304.2	287.9	271.5	255.1
75°	506.5	490.1	471.9	453.6	437.2	417.2	397.2	377.1	355.3	335.2	313.4
72.5°	621.2	601.2	579.3	557.5	533.8	508.3	482.8	455.5	430.0	404.4	377.1
70°	745.1	721.4	694.1	666.8	637.6	606.7	575.7	542.9	510.1	477.3	444.5
67.5°	878.1	849.0	816.2	783.4	747.0	710.5	674.1	635.8	595.7	555.7	517.4
65°	1020.2	983.8	945.5	903.6	861.7	819.8	776.1	730.6	685.0	637.6	595.7
62.5°	1178.7	1133.2	1084.0	1033.0	985.6	934.6	887.2	830.8	776.1	723.3	670.4
60°	1362.7	1302.6	1242.5	1178.7	1118.6	1053.0	994.7	932.8	870.8	810.7	748.8
57.5°	1568.6	1492.1	1419.2	1342.7	1262.5	1189.7	1115.0	1040.3	971.0	900.0	832.6
55°	1801.8	1708.9	1617.8	1523.1	1430.1	1339.1	1244.3	1160.5	1074.9	994.7	916.4
52.5°	2056.9	1951.2	1838.2	1730.8	1612.3	1499.4	1393.7	1288.0	1187.8	1091.3	1002.0
50°	2330.1	2206.3	2076.9	1945.7	1810.9	1677.9	1550.4	1426.5	1309.9	1197.0	1091.3
47.5°	2614.3	2474.1	2326.5	2177.1	2033.2	1871.0	1718.0	1577.7	1437.4	1309.9	1187.8
45°	2905.8	2747.3	2585.2	2415.8	2246.3	2071.4	1902.0	1730.8	1577.7	1426.5	1288.0
42.5°	3206.4	3027.9	2847.5	2659.9	2472.2	2280.9	2089.7	1902.0	1718.0	1550.4	1393.7
40°	3516.2	3319.4	3113.5	2909.5	2709.1	2490.5	2280.9	2071.4	1871.0	1677.9	1499.4
37.5°	3825.9	3610.9	3388.6	3159.1	2929.5	2709.1	2472.2	2246.3	2033.2	1810.9	1612.3
35°	4137.4	3900.6	3660.1	3410.5	3159.1	2909.5	2659.9	2415.8	2177.1	1945.7	1730.8
32.5°	4450.8	4192.1	3926.1	3660.1	3388.6	3113.5	2847.5	2585.2	2326.5	2076.9	1838.2
30°	4758.7	4478.1	4192.1	3900.6	3610.9	3319.4	3027.9	2747.3	2474.1	2206.3	1951.2
27.5°	5059.3	4758.7	4450.8	4137.4	3825.9	3516.2	3206.4	2905.8	2614.3	2330.1	2056.9
25°	5348.9	5028.3	4698.5	4365.1	4033.6	3703.8	3377.7	3053.4	2747.3	2448.6	2162.5
22.5°	5622.2	5283.3	4935.4	4581.9	4226.7	3878.7	3536.2	3199.2	2873.0	2559.7	2259.1
20°	5884.6	5522.0	5168.6	4782.3	4410.7	4044.5	3685.6	3332.1	2987.8	2661.7	2346.5
17.5°	6123.2	5742.4	5356.2	4968.2	4578.3	4193.9	3818.6	3467.0	3093.5	2754.6	2430.3
15°	6338.2	5941.0	5536.6	5134.0	4727.7	4328.7	3938.8	3559.9	3190.0	2838.4	2503.2
12.5°	6525.8	6114.1	5695.1	5277.9	4860.7	4447.1	4044.5	3652.8	3273.9	2909.5	2565.2
10°	6680.7	6259.8	5828.1	5398.1	4970.0	4545.5	4130.1	3731.1	3343.1	2969.6	2616.2
7.5°	6806.4	6374.6	5935.6	5492.9	5055.6	4622.0	4199.3	3791.3	3397.7	3015.1	2656.2
5°	6895.7	6458.4	6012.1	5560.3	5117.6	4678.5	4248.5	3835.0	3436.0	3047.9	2685.4
2.5°	6952.1	6525.8	6074.0	5616.7	5168.6	4724.0	4288.6	3869.6	3467.0	3075.3	2709.1
0°	6970.4	6525.8	6074.0	5616.7	5168.6	4724.0	4288.6	3869.6	3467.0	3075.3	2709.1

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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°	43.7	40.1	36.4	34.6	31.0	29.1	25.5	21.9	20.0	16.4	12.8
85°	87.4	80.2	74.7	69.2	63.8	56.5	51.0	45.5	38.3	32.8	25.5
82.5°	133.0	123.9	114.8	105.7	96.6	87.4	76.5	67.4	58.3	49.2	38.3
80°	184.0	169.4	156.7	143.9	131.2	118.4	103.8	91.1	76.5	63.8	51.0
77.5°	236.8	220.4	202.2	184.0	165.8	149.4	131.2	114.8	98.4	80.2	63.8
75°	293.3	271.5	251.4	227.7	205.9	182.2	160.3	138.5	118.4	98.4	76.5
72.5°	351.6	324.3	297.0	271.5	244.1	216.8	191.3	164.0	138.5	114.8	91.1
70°	411.7	378.9	346.2	315.2	284.2	251.4	222.3	191.3	160.3	131.2	103.8
67.5°	475.5	437.2	399.0	358.9	324.3	287.9	251.4	216.8	182.2	149.4	118.4
65°	544.7	499.2	451.8	409.9	364.4	324.3	284.2	244.1	205.9	165.8	131.2
62.5°	615.8	562.9	510.1	457.3	409.9	358.9	315.2	271.5	227.7	184.0	143.9
60°	688.7	628.5	568.4	510.1	451.8	399.0	346.2	297.0	251.4	202.2	156.7
57.5°	763.4	695.9	628.5	562.9	499.2	437.2	378.9	324.3	271.5	220.4	169.4
55°	839.9	763.4	688.7	615.8	544.7	475.5	411.7	351.6	293.3	236.8	184.0
52.5°	916.4	832.6	748.8	670.4	595.7	517.4	444.5	377.1	313.4	255.1	196.8
50°	994.7	900.0	810.7	723.3	637.6	555.7	477.3	404.4	335.2	271.5	209.5
47.5°	1074.9	971.0	870.8	776.1	685.0	595.7	510.1	430.0	355.3	287.9	222.3
45°	1160.5	1040.3	932.8	830.8	730.6	635.8	542.9	455.5	377.1	304.2	235.0
42.5°	1244.3	1115.0	994.7	887.2	776.1	674.1	575.7	482.8	397.2	318.8	245.9
40°	1339.1	1189.7	1053.0	934.6	819.8	710.5	606.7	508.3	417.2	333.4	256.9
37.5°	1430.1	1262.5	1118.6	985.6	861.7	747.0	637.6	533.8	437.2	348.0	267.8
35°	1523.1	1342.7	1178.7	1033.0	903.6	783.4	666.8	557.5	453.6	360.7	278.7
32.5°	1617.8	1419.2	1242.5	1084.0	945.5	816.2	694.1	579.3	471.9	375.3	287.9
30°	1708.9	1492.1	1302.6	1133.2	983.8	849.0	721.4	601.2	490.1	388.1	297.0
27.5°	1801.8	1568.6	1362.7	1178.7	1020.2	878.1	745.1	621.2	506.5	400.8	306.1
25°	1891.1	1641.5	1419.2	1222.5	1053.0	907.3	770.6	641.3	521.0	411.7	313.4
22.5°	1973.1	1705.2	1470.2	1264.4	1087.6	932.8	792.5	659.5	535.6	422.7	320.6
20°	2047.8	1770.8	1523.1	1306.3	1120.4	958.3	810.7	675.9	548.4	431.8	327.9
17.5°	2120.6	1831.0	1570.4	1344.5	1147.8	980.2	828.9	688.7	559.3	439.1	333.4
15°	2182.6	1883.8	1612.3	1377.3	1173.3	998.4	843.5	701.4	568.4	446.4	337.0
12.5°	2237.2	1929.3	1648.8	1404.6	1193.3	1014.8	858.1	712.3	577.5	451.8	342.5
10°	2280.9	1965.8	1677.9	1428.3	1211.5	1027.5	867.2	721.4	583.0	457.3	346.2
7.5°	2315.6	1994.9	1701.6	1444.7	1224.3	1038.5	876.3	726.9	588.5	460.9	351.6
5°	2341.1	2016.8	1718.0	1457.5	1235.2	1051.2	887.2	736.0	595.7	466.4	351.6
2.5°	2361.1	2033.2	1730.8	1468.4	1242.5	1051.2	887.2	736.0	595.7	466.4	351.6
0°	2361.1	2033.2	1730.8	1468.4	1242.5	1051.2	887.2	736.0	595.7	466.4	351.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.1	7.3	3.6	0.0
85°	20.0	12.8	7.3	0.0
82.5°	29.1	20.0	9.1	0.0
80°	38.3	25.5	12.8	0.0
77.5°	49.2	32.8	16.4	0.0
75°	58.3	38.3	20.0	0.0
72.5°	67.4	45.5	21.9	0.0
70°	76.5	51.0	25.5	0.0
67.5°	87.4	56.5	29.1	0.0
65°	96.6	63.8	31.0	0.0
62.5°	105.7	69.2	34.6	0.0
60°	114.8	74.7	36.4	0.0
57.5°	123.9	80.2	40.1	0.0
55°	133.0	87.4	43.7	0.0
52.5°	142.1	92.9	45.5	0.0
50°	151.2	98.4	47.4	0.0
47.5°	158.5	103.8	51.0	0.0
45°	167.6	109.3	52.8	0.0
42.5°	176.7	113.0	54.7	0.0
40°	184.0	118.4	56.5	0.0
37.5°	193.1	122.1	60.1	0.0
35°	200.4	127.5	61.9	0.0
32.5°	205.9	131.2	63.8	0.0
30°	213.2	134.8	65.6	0.0
27.5°	218.6	138.5	65.6	0.0
25°	224.1	142.1	67.4	0.0
22.5°	229.6	143.9	69.2	0.0
20°	235.0	147.6	71.1	0.0
17.5°	238.7	149.4	71.1	0.0
15°	242.3	151.2	74.7	0.0
12.5°	244.1	153.0	74.7	0.0
10°	247.8	156.7	74.7	0.0
7.5°	251.4	156.7	74.7	0.0
5°	251.4	156.7	74.7	0.0
2.5°	251.4	156.7	74.7	0.0
0°	251.4	156.7	74.7	0.0

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