

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: P624048

Luminaire Tested: **IFLD-S-SA3A-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624048
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-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

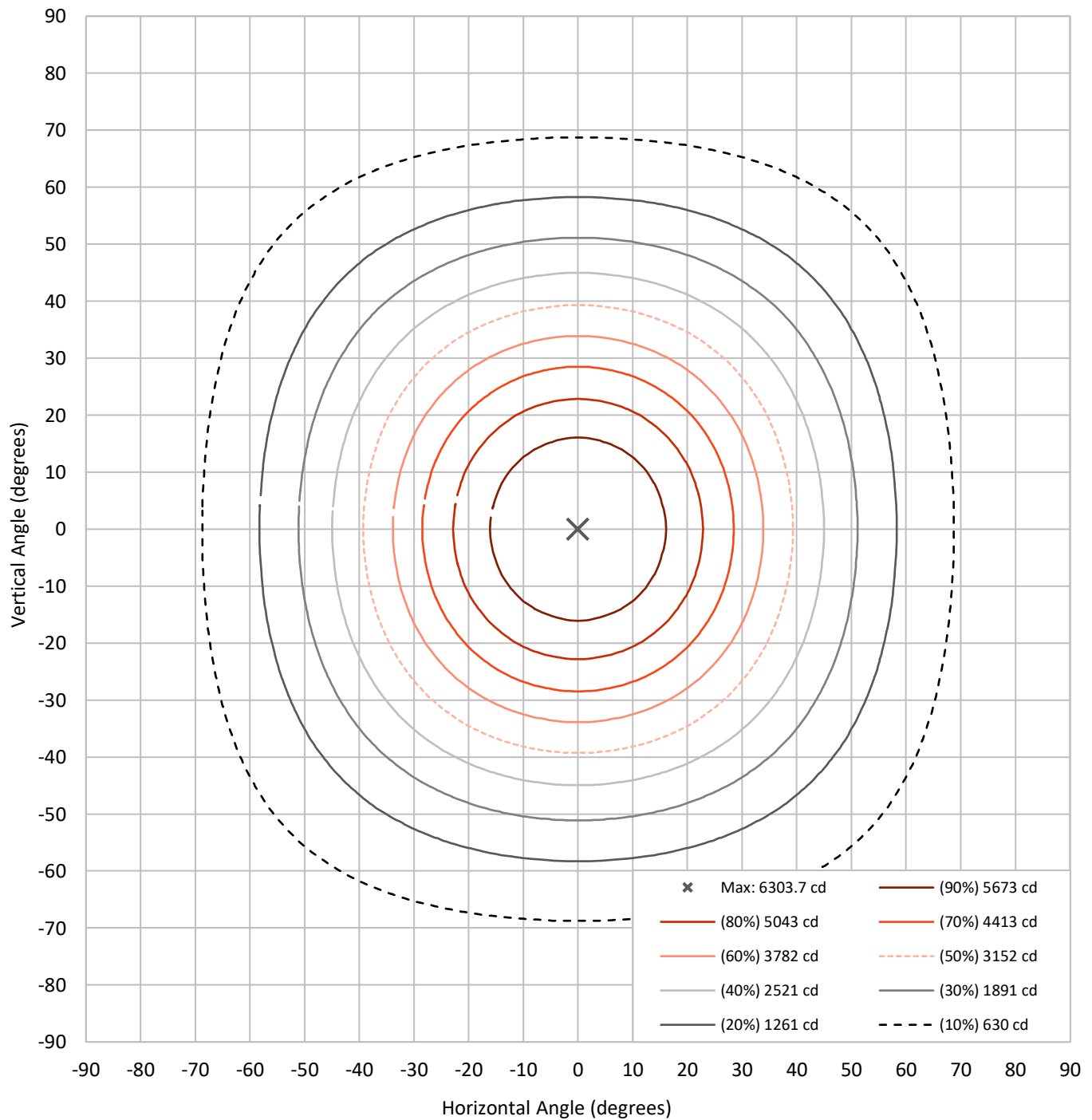
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11350.1 lumens	Max Intensity:	6303.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4911.1 lumens	Field Lumens:	8041.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	94.8		
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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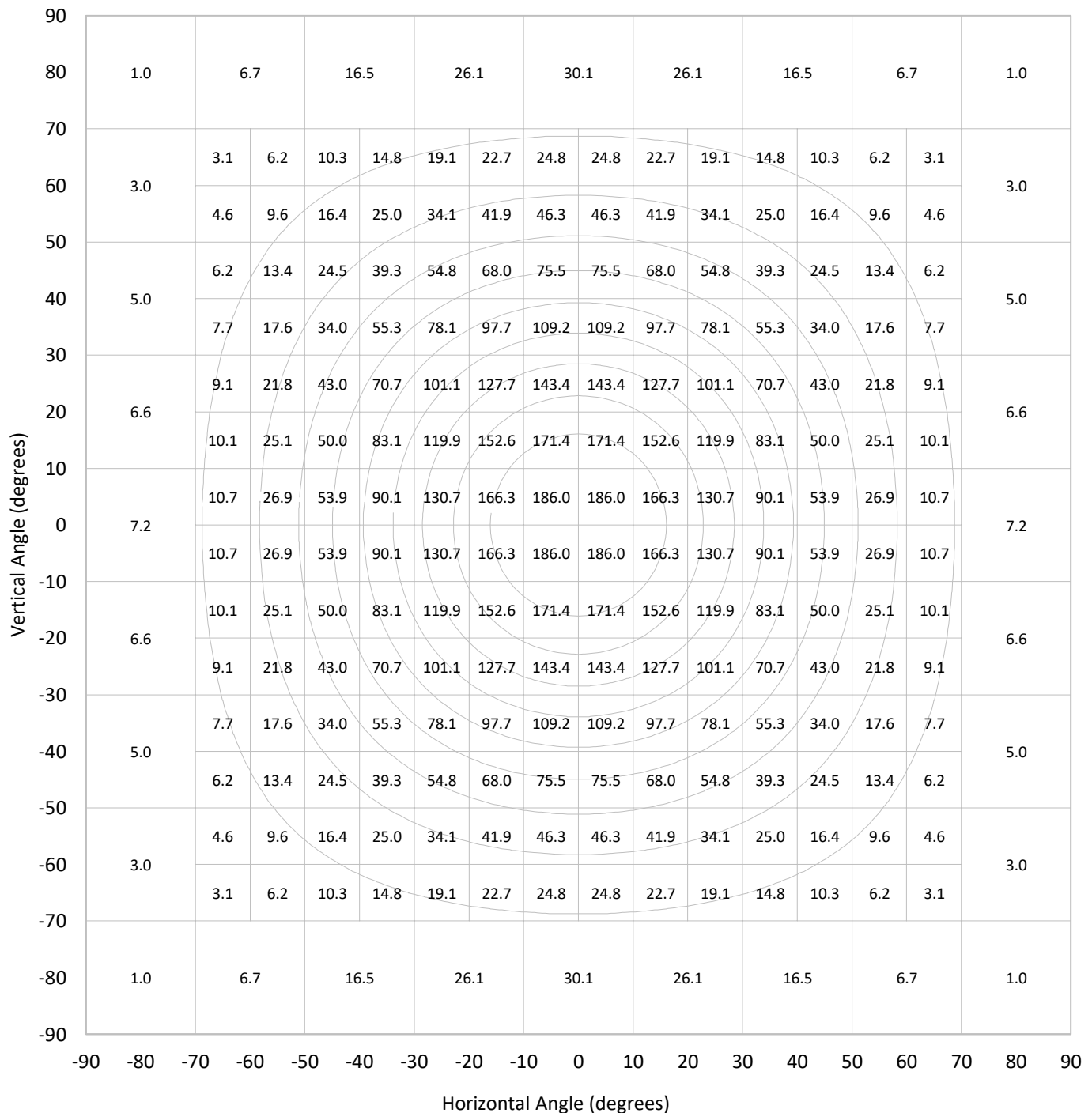
CATALOG NUMBER: IFLD-S-SA3A-830-U-77

Iso-Candela Plot



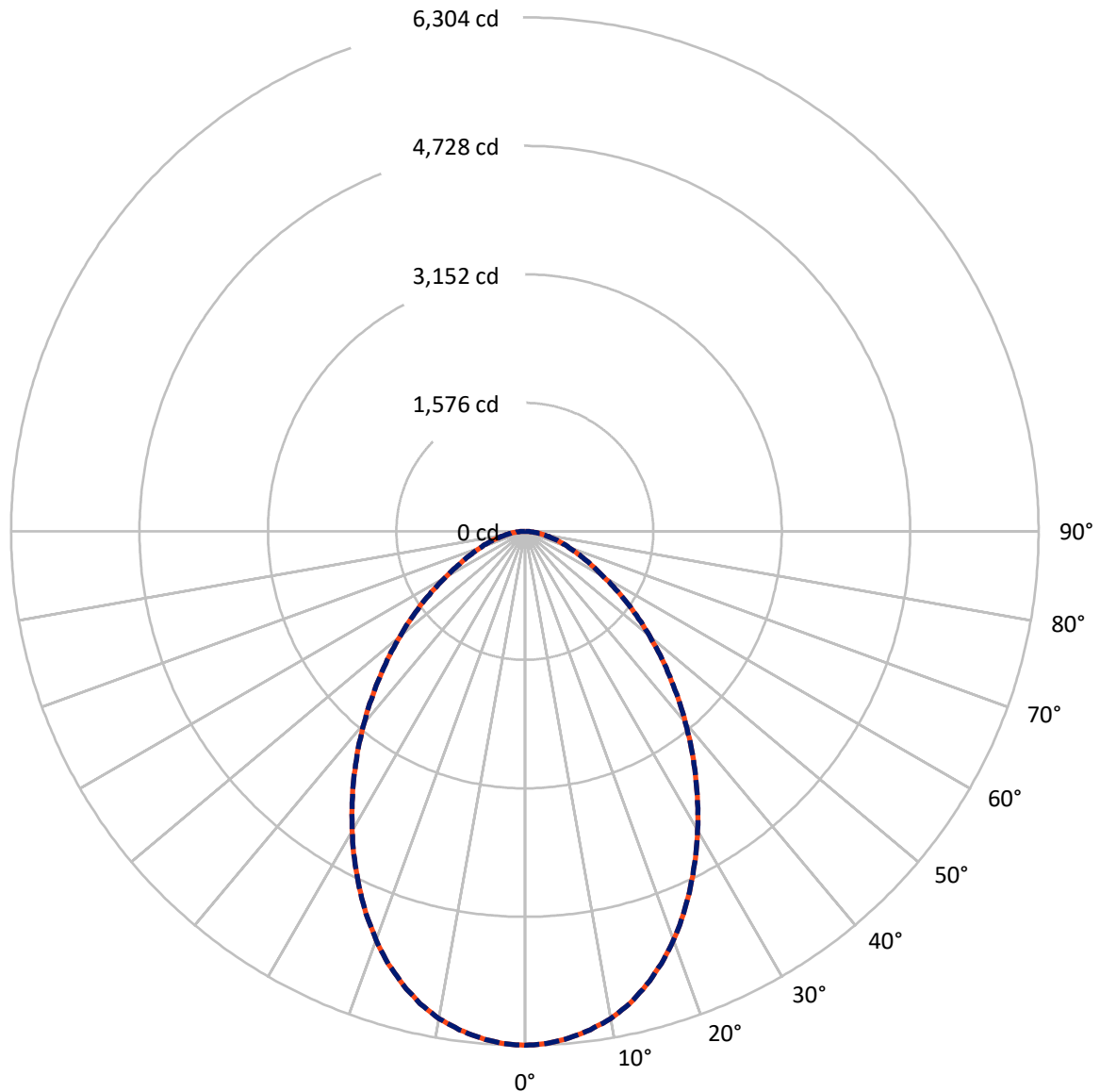
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Lumen Table



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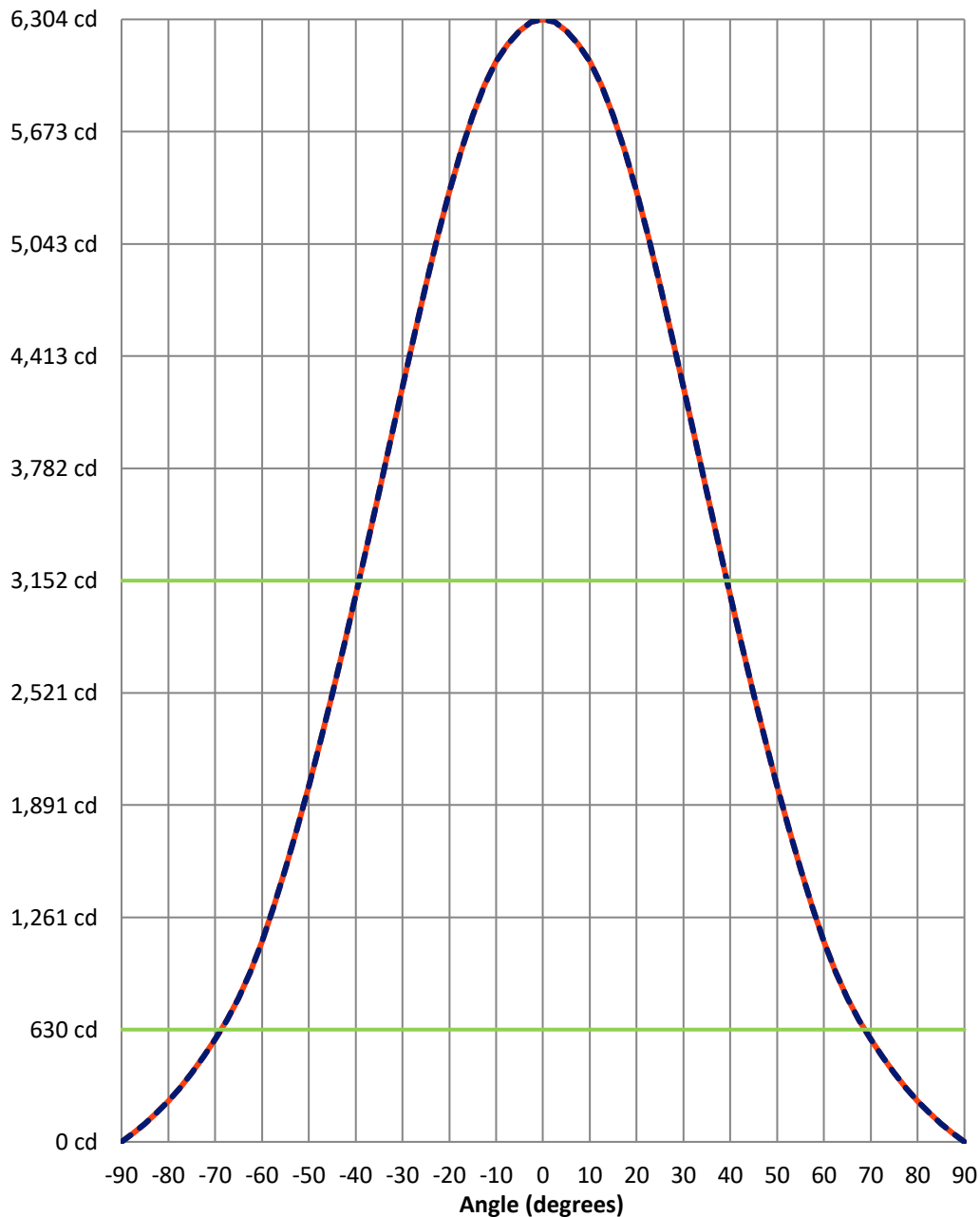
Luminous Intensity Polar Plot



— 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: 4911.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 8041.7
Efficiency: 70.9%

Spill:

Lumens: 3308.4
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°	48.5	48.5	48.5	48.5	48.5	48.5	48.5	46.2	46.2	45.0	43.8
85°	101.8	101.8	101.8	101.8	101.8	99.4	98.2	97.0	95.9	93.5	92.3
82.5°	163.3	163.3	163.3	163.3	160.9	158.6	157.4	155.0	152.7	149.1	145.6
80°	228.4	228.4	228.4	228.4	224.8	222.5	218.9	216.6	213.0	208.3	203.5
77.5°	302.9	302.9	302.9	299.4	297.0	293.5	289.9	285.2	280.5	274.5	267.4
75°	387.0	387.0	387.0	382.2	378.7	375.1	369.2	363.3	356.2	347.9	338.4
72.5°	478.1	478.1	478.1	472.2	468.6	462.7	455.6	447.3	439.0	428.4	416.5
70°	576.3	576.3	576.3	569.2	563.3	557.4	547.9	538.4	526.6	514.8	500.6
67.5°	682.8	682.8	682.8	674.5	667.4	659.1	648.5	636.6	622.4	605.9	589.3
65°	807.1	807.1	802.3	795.2	786.9	775.1	762.1	745.5	727.8	706.5	684.0
62.5°	953.8	953.8	946.7	938.4	927.8	912.4	894.6	873.3	848.5	821.3	794.0
60°	1124.2	1124.2	1115.9	1105.3	1089.9	1070.9	1047.3	1020.1	989.3	955.0	921.8
57.5°	1320.6	1320.6	1310.0	1295.8	1276.8	1253.2	1223.6	1189.3	1150.2	1107.6	1066.2
55°	1533.6	1533.6	1520.6	1504.0	1481.6	1453.2	1417.7	1377.4	1330.1	1281.6	1228.3
52.5°	1759.7	1759.7	1744.3	1725.3	1699.3	1666.2	1625.9	1578.6	1524.2	1467.4	1404.6
50°	1997.5	1997.5	1979.8	1958.5	1928.9	1889.8	1843.7	1789.2	1728.9	1662.6	1590.4
47.5°	2251.9	2251.9	2231.8	2207.0	2171.5	2126.5	2072.1	2009.3	1940.7	1866.2	1784.5
45°	2513.5	2513.5	2491.0	2462.6	2423.5	2372.6	2312.3	2251.9	2164.4	2078.0	1983.3
42.5°	2785.6	2785.6	2759.6	2727.6	2682.7	2627.1	2558.4	2480.3	2393.9	2296.9	2193.9
40°	3068.4	3068.4	3038.9	3002.2	2952.5	2888.6	2811.7	2724.1	2627.1	2519.4	2405.8
37.5°	3357.2	3357.2	3324.1	3283.8	3228.2	3157.2	3070.8	2973.8	2864.9	2745.4	2620.0
35°	3648.3	3648.3	3611.6	3567.8	3506.3	3428.2	3334.7	3227.0	3106.3	2976.1	2835.3
32.5°	3945.3	3945.3	3905.1	3855.4	3785.6	3699.2	3596.2	3479.1	3357.2	3205.7	3051.9
30°	4238.8	4238.8	4195.0	4140.6	4066.0	3971.3	3858.9	3729.9	3586.8	3431.7	3266.1
27.5°	4527.5	4515.7	4479.0	4421.0	4339.4	4238.8	4116.9	3977.3	3822.2	3651.8	3474.3
25°	4811.5	4798.5	4758.3	4694.4	4606.8	4496.8	4365.4	4216.3	4049.5	3869.6	3675.5
22.5°	5083.7	5069.5	5026.9	4958.3	4864.8	4745.3	4604.4	4444.7	4267.2	4074.3	3869.6
20°	5335.8	5320.4	5276.6	5204.4	5107.4	4980.8	4831.7	4660.1	4470.7	4267.2	4049.5
17.5°	5563.0	5547.6	5501.4	5426.9	5335.8	5194.9	5041.1	4860.1	4660.1	4444.7	4216.3
15°	5763.0	5746.4	5699.1	5624.5	5520.4	5387.8	5225.7	5041.1	4831.7	4604.4	4365.4
12.5°	5933.4	5916.8	5868.3	5793.7	5686.0	5553.5	5387.8	5194.9	4980.8	4745.3	4496.8
10°	6068.3	6051.7	6005.5	5934.5	5823.3	5686.0	5520.4	5335.8	5107.4	4864.8	4606.8
7.5°	6165.3	6149.9	6107.3	6036.3	5934.5	5793.7	5624.5	5426.9	5204.4	4958.3	4694.4
5°	6238.7	6220.9	6178.3	6107.3	6005.5	5868.3	5699.1	5501.4	5276.6	5026.9	4758.3
2.5°	6289.5	6268.2	6220.9	6149.9	6051.7	5916.8	5746.4	5547.6	5320.4	5069.5	4798.5
0°	6303.7	6289.5	6238.7	6165.3	6068.3	5933.4	5763.0	5563.0	5335.8	5083.7	4811.5

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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°	42.6	42.6	41.4	40.2	39.1	36.7	35.5	34.3	33.1	30.8	29.6
85°	89.9	87.6	85.2	82.8	79.3	76.9	73.4	71.0	67.5	63.9	60.4
82.5°	142.0	138.5	133.7	130.2	125.4	119.5	114.8	108.9	103.0	98.2	92.3
80°	198.8	192.9	187.0	181.1	174.0	166.9	159.8	152.7	144.4	136.1	127.8
77.5°	260.3	252.1	243.8	234.3	226.0	216.6	207.1	197.6	187.0	176.3	165.7
75°	329.0	318.3	306.5	294.7	284.0	271.0	258.0	245.0	230.8	217.7	203.5
72.5°	403.5	390.5	376.3	362.1	346.7	330.2	313.6	295.8	279.3	262.7	245.0
70°	484.0	468.6	450.9	433.1	414.2	394.1	373.9	352.6	331.3	310.0	288.7
67.5°	570.4	551.4	530.1	508.8	485.2	461.5	437.8	413.0	387.0	360.9	336.1
65°	662.7	639.0	614.2	586.9	559.7	532.5	504.1	474.5	444.9	414.2	387.0
62.5°	765.6	736.0	704.1	671.0	640.2	607.1	576.3	539.6	504.1	469.8	435.5
60°	885.2	846.1	807.1	765.6	726.6	684.0	646.1	605.9	565.6	526.6	486.4
57.5°	1018.9	969.2	921.8	872.1	820.1	772.7	724.2	675.7	630.7	584.6	540.8
55°	1170.3	1110.0	1050.8	989.3	928.9	869.8	808.2	753.8	698.2	646.1	595.2
52.5°	1336.0	1267.4	1194.0	1124.2	1047.3	973.9	905.3	836.6	771.5	708.8	650.8
50°	1513.5	1433.0	1349.0	1263.8	1176.3	1089.9	1007.0	926.6	850.8	777.5	708.8
47.5°	1698.1	1607.0	1511.1	1414.1	1320.6	1215.3	1115.9	1024.8	933.7	850.8	771.5
45°	1887.5	1784.5	1679.2	1569.1	1459.1	1345.5	1235.4	1124.2	1024.8	926.6	836.6
42.5°	2082.7	1966.7	1849.6	1727.7	1605.8	1481.6	1357.3	1235.4	1115.9	1007.0	905.3
40°	2283.9	2156.1	2022.4	1889.8	1759.7	1617.7	1481.6	1345.5	1215.3	1089.9	973.9
37.5°	2485.1	2345.4	2201.0	2051.9	1902.8	1759.7	1605.8	1459.1	1320.6	1176.3	1047.3
35°	2687.4	2533.6	2377.4	2215.2	2051.9	1889.8	1727.7	1569.1	1414.1	1263.8	1124.2
32.5°	2890.9	2722.9	2550.1	2377.4	2201.0	2022.4	1849.6	1679.2	1511.1	1349.0	1194.0
30°	3090.9	2908.7	2722.9	2533.6	2345.4	2156.1	1966.7	1784.5	1607.0	1433.0	1267.4
27.5°	3286.2	3090.9	2890.9	2687.4	2485.1	2283.9	2082.7	1887.5	1698.1	1513.5	1336.0
25°	3474.3	3266.1	3051.9	2835.3	2620.0	2405.8	2193.9	1983.3	1784.5	1590.4	1404.6
22.5°	3651.8	3431.7	3205.7	2976.1	2745.4	2519.4	2296.9	2078.0	1866.2	1662.6	1467.4
20°	3822.2	3586.8	3357.2	3106.3	2864.9	2627.1	2393.9	2164.4	1940.7	1728.9	1524.2
17.5°	3977.3	3729.9	3479.1	3227.0	2973.8	2724.1	2480.3	2251.9	2009.3	1789.2	1578.6
15°	4116.9	3858.9	3596.2	3334.7	3070.8	2811.7	2558.4	2312.3	2072.1	1843.7	1625.9
12.5°	4238.8	3971.3	3699.2	3428.2	3157.2	2888.6	2627.1	2372.6	2126.5	1889.8	1666.2
10°	4339.4	4066.0	3785.6	3506.3	3228.2	2952.5	2682.7	2423.5	2171.5	1928.9	1699.3
7.5°	4421.0	4140.6	3855.4	3567.8	3283.8	3002.2	2727.6	2462.6	2207.0	1958.5	1725.3
5°	4479.0	4195.0	3905.1	3611.6	3324.1	3038.9	2759.6	2491.0	2231.8	1979.8	1744.3
2.5°	4515.7	4238.8	3945.3	3648.3	3357.2	3068.4	2785.6	2513.5	2251.9	1997.5	1759.7
0°	4527.5	4238.8	3945.3	3648.3	3357.2	3068.4	2785.6	2513.5	2251.9	1997.5	1759.7

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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°	28.4	26.0	23.7	22.5	20.1	18.9	16.6	14.2	13.0	10.7	8.3
85°	56.8	52.1	48.5	45.0	41.4	36.7	33.1	29.6	24.9	21.3	16.6
82.5°	86.4	80.5	74.6	68.6	62.7	56.8	49.7	43.8	37.9	32.0	24.9
80°	119.5	110.1	101.8	93.5	85.2	76.9	67.5	59.2	49.7	41.4	33.1
77.5°	153.8	143.2	131.4	119.5	107.7	97.0	85.2	74.6	63.9	52.1	41.4
75°	190.5	176.3	163.3	147.9	133.7	118.3	104.1	89.9	76.9	63.9	49.7
72.5°	228.4	210.6	192.9	176.3	158.6	140.8	124.3	106.5	89.9	74.6	59.2
70°	267.4	246.1	224.8	204.7	184.6	163.3	144.4	124.3	104.1	85.2	67.5
67.5°	308.9	284.0	259.2	233.1	210.6	187.0	163.3	140.8	118.3	97.0	76.9
65°	353.8	324.2	293.5	266.3	236.7	210.6	184.6	158.6	133.7	107.7	85.2
62.5°	400.0	365.7	331.3	297.0	266.3	233.1	204.7	176.3	147.9	119.5	93.5
60°	447.3	408.3	369.2	331.3	293.5	259.2	224.8	192.9	163.3	131.4	101.8
57.5°	495.8	452.0	408.3	365.7	324.2	284.0	246.1	210.6	176.3	143.2	110.1
55°	545.5	495.8	447.3	400.0	353.8	308.9	267.4	228.4	190.5	153.8	119.5
52.5°	595.2	540.8	486.4	435.5	387.0	336.1	288.7	245.0	203.5	165.7	127.8
50°	646.1	584.6	526.6	469.8	414.2	360.9	310.0	262.7	217.7	176.3	136.1
47.5°	698.2	630.7	565.6	504.1	444.9	387.0	331.3	279.3	230.8	187.0	144.4
45°	753.8	675.7	605.9	539.6	474.5	413.0	352.6	295.8	245.0	197.6	152.7
42.5°	808.2	724.2	646.1	576.3	504.1	437.8	373.9	313.6	258.0	207.1	159.8
40°	869.8	772.7	684.0	607.1	532.5	461.5	394.1	330.2	271.0	216.6	166.9
37.5°	928.9	820.1	726.6	640.2	559.7	485.2	414.2	346.7	284.0	226.0	174.0
35°	989.3	872.1	765.6	671.0	586.9	508.8	433.1	362.1	294.7	234.3	181.1
32.5°	1050.8	921.8	807.1	704.1	614.2	530.1	450.9	376.3	306.5	243.8	187.0
30°	1110.0	969.2	846.1	736.0	639.0	551.4	468.6	390.5	318.3	252.1	192.9
27.5°	1170.3	1018.9	885.2	765.6	662.7	570.4	484.0	403.5	329.0	260.3	198.8
25°	1228.3	1066.2	921.8	794.0	684.0	589.3	500.6	416.5	338.4	267.4	203.5
22.5°	1281.6	1107.6	955.0	821.3	706.5	605.9	514.8	428.4	347.9	274.5	208.3
20°	1330.1	1150.2	989.3	848.5	727.8	622.4	526.6	439.0	356.2	280.5	213.0
17.5°	1377.4	1189.3	1020.1	873.3	745.5	636.6	538.4	447.3	363.3	285.2	216.6
15°	1417.7	1223.6	1047.3	894.6	762.1	648.5	547.9	455.6	369.2	289.9	218.9
12.5°	1453.2	1253.2	1070.9	912.4	775.1	659.1	557.4	462.7	375.1	293.5	222.5
10°	1481.6	1276.8	1089.9	927.8	786.9	667.4	563.3	468.6	378.7	297.0	224.8
7.5°	1504.0	1295.8	1105.3	938.4	795.2	674.5	569.2	472.2	382.2	299.4	228.4
5°	1520.6	1310.0	1115.9	946.7	802.3	682.8	576.3	478.1	387.0	302.9	228.4
2.5°	1533.6	1320.6	1124.2	953.8	807.1	682.8	576.3	478.1	387.0	302.9	228.4
0°	1533.6	1320.6	1124.2	953.8	807.1	682.8	576.3	478.1	387.0	302.9	228.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.9	4.7	2.4	0.0
85°	13.0	8.3	4.7	0.0
82.5°	18.9	13.0	5.9	0.0
80°	24.9	16.6	8.3	0.0
77.5°	32.0	21.3	10.7	0.0
75°	37.9	24.9	13.0	0.0
72.5°	43.8	29.6	14.2	0.0
70°	49.7	33.1	16.6	0.0
67.5°	56.8	36.7	18.9	0.0
65°	62.7	41.4	20.1	0.0
62.5°	68.6	45.0	22.5	0.0
60°	74.6	48.5	23.7	0.0
57.5°	80.5	52.1	26.0	0.0
55°	86.4	56.8	28.4	0.0
52.5°	92.3	60.4	29.6	0.0
50°	98.2	63.9	30.8	0.0
47.5°	103.0	67.5	33.1	0.0
45°	108.9	71.0	34.3	0.0
42.5°	114.8	73.4	35.5	0.0
40°	119.5	76.9	36.7	0.0
37.5°	125.4	79.3	39.1	0.0
35°	130.2	82.8	40.2	0.0
32.5°	133.7	85.2	41.4	0.0
30°	138.5	87.6	42.6	0.0
27.5°	142.0	89.9	42.6	0.0
25°	145.6	92.3	43.8	0.0
22.5°	149.1	93.5	45.0	0.0
20°	152.7	95.9	46.2	0.0
17.5°	155.0	97.0	46.2	0.0
15°	157.4	98.2	48.5	0.0
12.5°	158.6	99.4	48.5	0.0
10°	160.9	101.8	48.5	0.0
7.5°	163.3	101.8	48.5	0.0
5°	163.3	101.8	48.5	0.0
2.5°	163.3	101.8	48.5	0.0
0°	163.3	101.8	48.5	0.0

(END OF REPORT)