

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: P623869

Luminaire Tested: **IFLD-S-SA2A-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623869
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

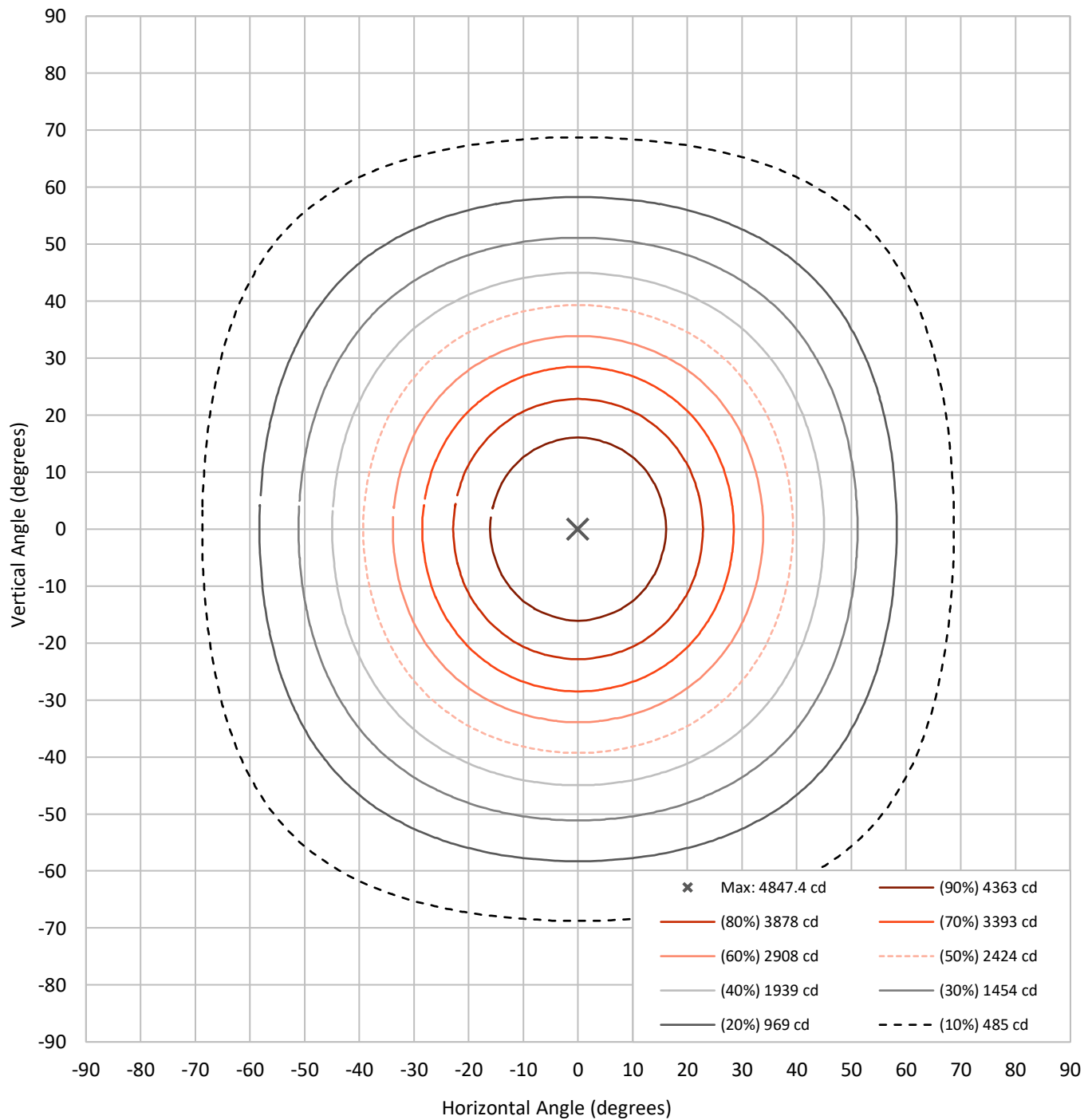
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8727.9 lumens	Max Intensity:	4847.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	136.8 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	3776.5 lumens	Field Lumens:	6183.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	63.8		
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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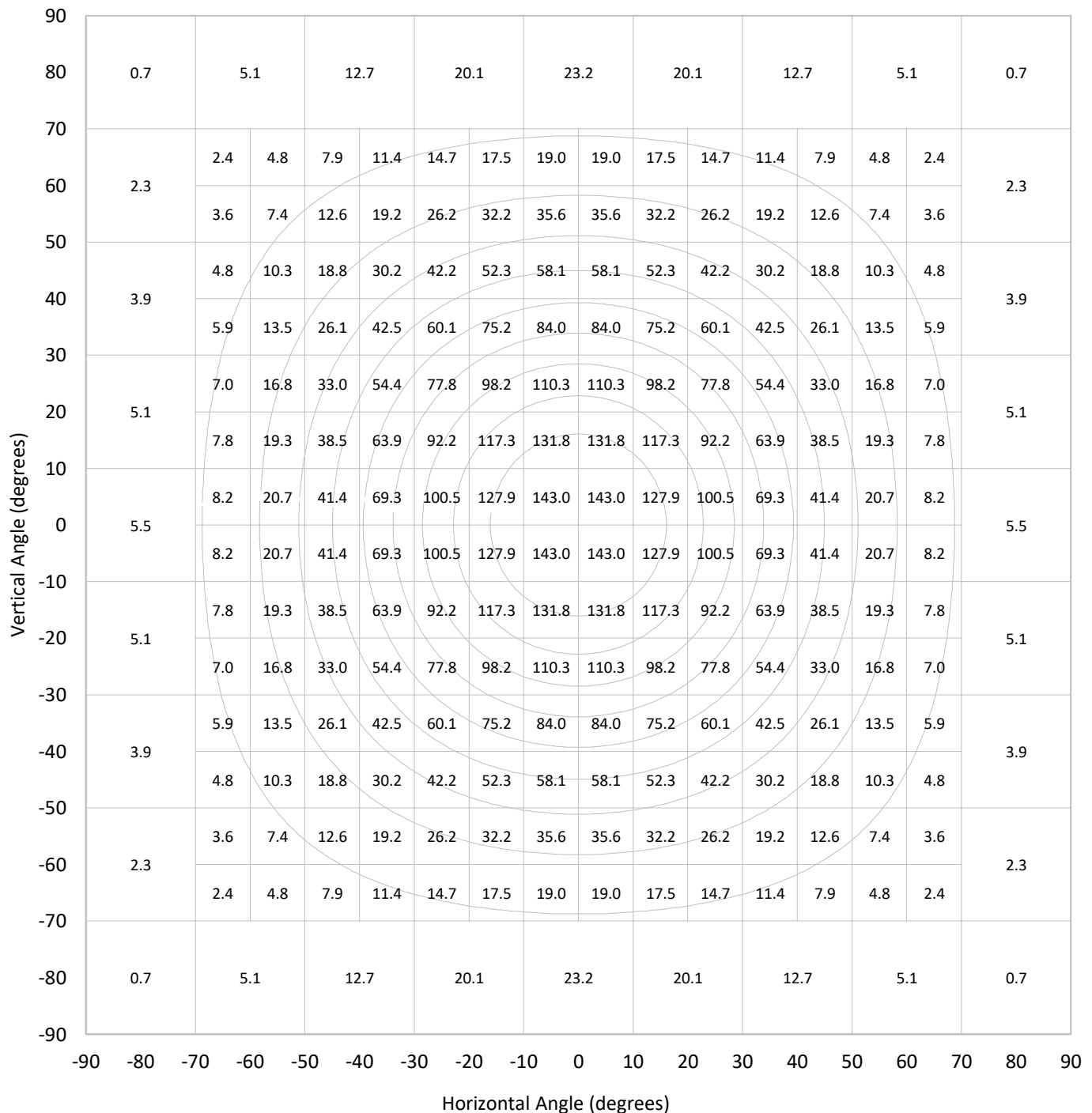
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Iso-Candela Plot



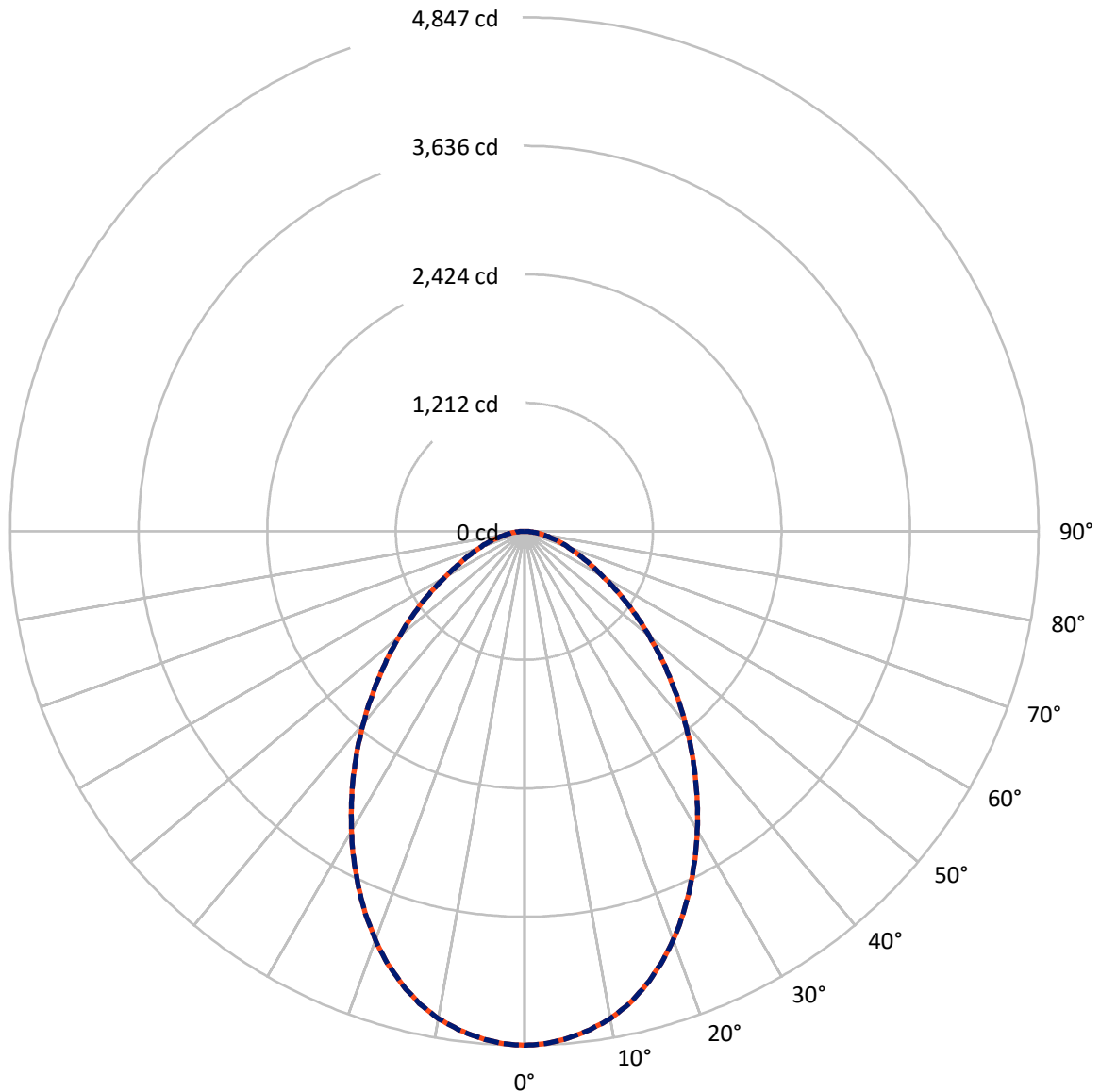
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Lumen Table



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Luminous Intensity Polar Plot

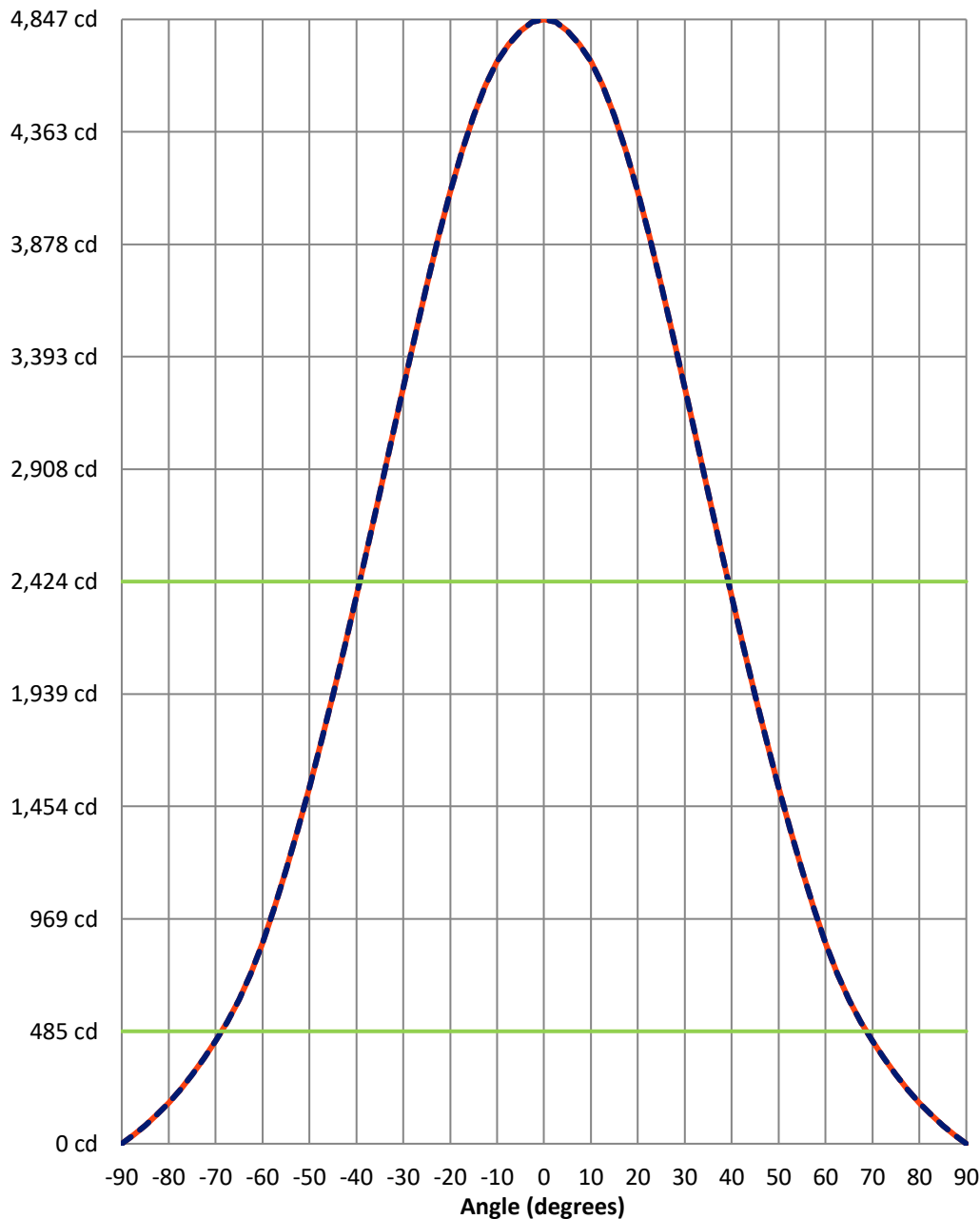


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°

V Angle: 78.6°

Lumens: 3776.5

Efficiency: 43.3%

Field:

H Angle: 137.5°

V Angle: 137.5°

Lumens: 6183.9

Efficiency: 70.9%

Spill:

Lumens: 2544.1

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°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	35.5	35.5	34.6	33.7
85°	78.3	78.3	78.3	78.3	78.3	76.4	75.5	74.6	73.7	71.9	71.0
82.5°	125.6	125.6	125.6	125.6	123.8	121.9	121.0	119.2	117.4	114.7	111.9
80°	175.6	175.6	175.6	175.6	172.9	171.1	168.3	166.5	163.8	160.2	156.5
77.5°	233.0	233.0	233.0	230.2	228.4	225.7	222.9	219.3	215.7	211.1	205.7
75°	297.6	297.6	297.6	293.9	291.2	288.5	283.9	279.4	273.9	267.5	260.3
72.5°	367.6	367.6	367.6	363.1	360.4	355.8	350.3	344.0	337.6	329.4	320.3
70°	443.2	443.2	443.2	437.7	433.1	428.6	421.3	414.0	404.9	395.8	384.9
67.5°	525.1	525.1	525.1	518.7	513.2	506.9	498.7	489.6	478.6	465.9	453.2
65°	620.6	620.6	617.0	611.5	605.1	596.0	586.0	573.3	559.6	543.3	526.0
62.5°	733.4	733.4	728.0	721.6	713.4	701.6	687.9	671.6	652.5	631.5	610.6
60°	864.5	864.5	858.1	849.9	838.1	823.5	805.3	784.4	760.7	734.3	708.9
57.5°	1015.5	1015.5	1007.3	996.4	981.9	963.7	940.9	914.5	884.5	851.7	819.9
55°	1179.3	1179.3	1169.3	1156.6	1139.3	1117.4	1090.1	1059.2	1022.8	985.5	944.6
52.5°	1353.1	1353.1	1341.3	1326.7	1306.7	1281.2	1250.3	1213.9	1172.0	1128.4	1080.1
50°	1536.0	1536.0	1522.4	1506.0	1483.3	1453.2	1417.7	1375.9	1329.5	1278.5	1223.0
47.5°	1731.7	1731.7	1716.2	1697.1	1669.8	1635.2	1593.4	1545.1	1492.4	1435.0	1372.2
45°	1932.8	1932.8	1915.5	1893.7	1863.6	1824.5	1778.1	1731.7	1664.3	1597.9	1525.1
42.5°	2142.1	2142.1	2122.1	2097.5	2062.9	2020.1	1967.4	1907.3	1840.9	1766.3	1687.1
40°	2359.6	2359.6	2336.8	2308.6	2270.4	2221.2	2162.1	2094.8	2020.1	1937.3	1850.0
37.5°	2581.6	2581.6	2556.1	2525.2	2482.4	2427.8	2361.4	2286.8	2203.0	2111.1	2014.7
35°	2805.5	2805.5	2777.2	2743.6	2696.3	2636.2	2564.3	2481.5	2388.7	2288.6	2180.3
32.5°	3033.9	3033.9	3002.9	2964.7	2911.0	2844.6	2765.4	2675.3	2581.6	2465.1	2346.8
30°	3259.5	3259.5	3225.9	3184.0	3126.7	3053.9	2967.4	2868.2	2758.1	2638.9	2511.5
27.5°	3481.6	3472.5	3444.3	3399.7	3336.9	3259.5	3165.8	3058.4	2939.2	2808.2	2671.7
25°	3700.0	3689.9	3659.0	3609.9	3542.5	3457.9	3356.9	3242.2	3113.9	2975.6	2826.4
22.5°	3909.3	3898.3	3865.6	3812.8	3740.9	3649.0	3540.7	3417.9	3281.4	3133.0	2975.6
20°	4103.1	4091.2	4057.6	4002.1	3927.5	3830.1	3715.4	3583.5	3437.9	3281.4	3113.9
17.5°	4277.8	4266.0	4230.5	4173.1	4103.1	3994.8	3876.5	3737.3	3583.5	3417.9	3242.2
15°	4431.6	4418.8	4382.4	4325.1	4245.0	4143.1	4018.4	3876.5	3715.4	3540.7	3356.9
12.5°	4562.6	4549.9	4512.6	4455.2	4372.4	4270.5	4143.1	3994.8	3830.1	3649.0	3457.9
10°	4666.4	4653.6	4618.1	4563.5	4478.0	4372.4	4245.0	4103.1	3927.5	3740.9	3542.5
7.5°	4741.0	4729.1	4696.4	4641.8	4563.5	4455.2	4325.1	4173.1	4002.1	3812.8	3609.9
5°	4797.4	4783.7	4751.0	4696.4	4618.1	4512.6	4382.4	4230.5	4057.6	3865.6	3659.0
2.5°	4836.5	4820.1	4783.7	4729.1	4653.6	4549.9	4418.8	4266.0	4091.2	3898.3	3689.9
0°	4847.4	4836.5	4797.4	4741.0	4666.4	4562.6	4431.6	4277.8	4103.1	3909.3	3700.0

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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°	32.8	32.8	31.8	30.9	30.0	28.2	27.3	26.4	25.5	23.7	22.7
85°	69.2	67.3	65.5	63.7	61.0	59.1	56.4	54.6	51.9	49.1	46.4
82.5°	109.2	106.5	102.8	100.1	96.5	91.9	88.3	83.7	79.2	75.5	71.0
80°	152.9	148.3	143.8	139.2	133.8	128.3	122.8	117.4	111.0	104.6	98.3
77.5°	200.2	193.8	187.5	180.2	173.8	166.5	159.2	152.0	143.8	135.6	127.4
75°	253.0	244.8	235.7	226.6	218.4	208.4	198.4	188.4	177.4	167.4	156.5
72.5°	310.3	300.3	289.4	278.5	266.6	253.9	241.1	227.5	214.8	202.0	188.4
70°	372.2	360.4	346.7	333.1	318.5	303.0	287.6	271.2	254.8	238.4	222.0
67.5°	438.6	424.0	407.7	391.3	373.1	354.9	336.7	317.6	297.6	277.5	258.4
65°	509.6	491.4	472.3	451.3	430.4	409.5	387.6	364.9	342.2	318.5	297.6
62.5°	588.8	566.0	541.4	516.0	492.3	466.8	443.2	414.9	387.6	361.3	334.9
60°	680.7	650.6	620.6	588.8	558.7	526.0	496.8	465.9	435.0	404.9	374.0
57.5°	783.5	745.3	708.9	670.7	630.6	594.2	556.9	519.6	485.0	449.5	415.9
55°	900.0	853.6	808.1	760.7	714.3	668.8	621.5	579.7	536.9	496.8	457.7
52.5°	1027.4	974.6	918.2	864.5	805.3	748.9	696.1	643.4	593.3	545.1	500.5
50°	1163.9	1102.0	1037.4	971.9	904.5	838.1	774.4	712.5	654.3	597.9	545.1
47.5°	1305.8	1235.7	1162.0	1087.4	1015.5	934.5	858.1	788.0	718.0	654.3	593.3
45°	1451.4	1372.2	1291.3	1206.6	1122.0	1034.6	950.0	864.5	788.0	712.5	643.4
42.5°	1601.6	1512.4	1422.3	1328.6	1234.8	1139.3	1043.7	950.0	858.1	774.4	696.1
40°	1756.3	1658.0	1555.1	1453.2	1353.1	1243.9	1139.3	1034.6	934.5	838.1	748.9
37.5°	1910.9	1803.6	1692.6	1577.9	1463.2	1353.1	1234.8	1122.0	1015.5	904.5	805.3
35°	2066.6	1948.3	1828.1	1703.5	1577.9	1453.2	1328.6	1206.6	1087.4	971.9	864.5
32.5°	2223.1	2093.9	1961.0	1828.1	1692.6	1555.1	1422.3	1291.3	1162.0	1037.4	918.2
30°	2376.9	2236.7	2093.9	1948.3	1803.6	1658.0	1512.4	1372.2	1235.7	1102.0	974.6
27.5°	2527.0	2376.9	2223.1	2066.6	1910.9	1756.3	1601.6	1451.4	1305.8	1163.9	1027.4
25°	2671.7	2511.5	2346.8	2180.3	2014.7	1850.0	1687.1	1525.1	1372.2	1223.0	1080.1
22.5°	2808.2	2638.9	2465.1	2288.6	2111.1	1937.3	1766.3	1597.9	1435.0	1278.5	1128.4
20°	2939.2	2758.1	2581.6	2388.7	2203.0	2020.1	1840.9	1664.3	1492.4	1329.5	1172.0
17.5°	3058.4	2868.2	2675.3	2481.5	2286.8	2094.8	1907.3	1731.7	1545.1	1375.9	1213.9
15°	3165.8	2967.4	2765.4	2564.3	2361.4	2162.1	1967.4	1778.1	1593.4	1417.7	1250.3
12.5°	3259.5	3053.9	2844.6	2636.2	2427.8	2221.2	2020.1	1824.5	1635.2	1453.2	1281.2
10°	3336.9	3126.7	2911.0	2696.3	2482.4	2270.4	2062.9	1863.6	1669.8	1483.3	1306.7
7.5°	3399.7	3184.0	2964.7	2743.6	2525.2	2308.6	2097.5	1893.7	1697.1	1506.0	1326.7
5°	3444.3	3225.9	3002.9	2777.2	2556.1	2336.8	2122.1	1915.5	1716.2	1522.4	1341.3
2.5°	3472.5	3259.5	3033.9	2805.5	2581.6	2359.6	2142.1	1932.8	1731.7	1536.0	1353.1
0°	3481.6	3259.5	3033.9	2805.5	2581.6	2359.6	2142.1	1932.8	1731.7	1536.0	1353.1

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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°	21.8	20.0	18.2	17.3	15.5	14.6	12.7	10.9	10.0	8.2	6.4
85°	43.7	40.0	37.3	34.6	31.8	28.2	25.5	22.7	19.1	16.4	12.7
82.5°	66.4	61.9	57.3	52.8	48.2	43.7	38.2	33.7	29.1	24.6	19.1
80°	91.9	84.6	78.3	71.9	65.5	59.1	51.9	45.5	38.2	31.8	25.5
77.5°	118.3	110.1	101.0	91.9	82.8	74.6	65.5	57.3	49.1	40.0	31.8
75°	146.5	135.6	125.6	113.7	102.8	91.0	80.1	69.2	59.1	49.1	38.2
72.5°	175.6	162.0	148.3	135.6	121.9	108.3	95.5	81.9	69.2	57.3	45.5
70°	205.7	189.3	172.9	157.4	142.0	125.6	111.0	95.5	80.1	65.5	51.9
67.5°	237.5	218.4	199.3	179.3	162.0	143.8	125.6	108.3	91.0	74.6	59.1
65°	272.1	249.3	225.7	204.7	182.0	162.0	142.0	121.9	102.8	82.8	65.5
62.5°	307.6	281.2	254.8	228.4	204.7	179.3	157.4	135.6	113.7	91.9	71.9
60°	344.0	313.9	283.9	254.8	225.7	199.3	172.9	148.3	125.6	101.0	78.3
57.5°	381.3	347.6	313.9	281.2	249.3	218.4	189.3	162.0	135.6	110.1	84.6
55°	419.5	381.3	344.0	307.6	272.1	237.5	205.7	175.6	146.5	118.3	91.9
52.5°	457.7	415.9	374.0	334.9	297.6	258.4	222.0	188.4	156.5	127.4	98.3
50°	496.8	449.5	404.9	361.3	318.5	277.5	238.4	202.0	167.4	135.6	104.6
47.5°	536.9	485.0	435.0	387.6	342.2	297.6	254.8	214.8	177.4	143.8	111.0
45°	579.7	519.6	465.9	414.9	364.9	317.6	271.2	227.5	188.4	152.0	117.4
42.5°	621.5	556.9	496.8	443.2	387.6	336.7	287.6	241.1	198.4	159.2	122.8
40°	668.8	594.2	526.0	466.8	409.5	354.9	303.0	253.9	208.4	166.5	128.3
37.5°	714.3	630.6	558.7	492.3	430.4	373.1	318.5	266.6	218.4	173.8	133.8
35°	760.7	670.7	588.8	516.0	451.3	391.3	333.1	278.5	226.6	180.2	139.2
32.5°	808.1	708.9	620.6	541.4	472.3	407.7	346.7	289.4	235.7	187.5	143.8
30°	853.6	745.3	650.6	566.0	491.4	424.0	360.4	300.3	244.8	193.8	148.3
27.5°	900.0	783.5	680.7	588.8	509.6	438.6	372.2	310.3	253.0	200.2	152.9
25°	944.6	819.9	708.9	610.6	526.0	453.2	384.9	320.3	260.3	205.7	156.5
22.5°	985.5	851.7	734.3	631.5	543.3	465.9	395.8	329.4	267.5	211.1	160.2
20°	1022.8	884.5	760.7	652.5	559.6	478.6	404.9	337.6	273.9	215.7	163.8
17.5°	1059.2	914.5	784.4	671.6	573.3	489.6	414.0	344.0	279.4	219.3	166.5
15°	1090.1	940.9	805.3	687.9	586.0	498.7	421.3	350.3	283.9	222.9	168.3
12.5°	1117.4	963.7	823.5	701.6	596.0	506.9	428.6	355.8	288.5	225.7	171.1
10°	1139.3	981.9	838.1	713.4	605.1	513.2	433.1	360.4	291.2	228.4	172.9
7.5°	1156.6	996.4	849.9	721.6	611.5	518.7	437.7	363.1	293.9	230.2	175.6
5°	1169.3	1007.3	858.1	728.0	617.0	525.1	443.2	367.6	297.6	233.0	175.6
2.5°	1179.3	1015.5	864.5	733.4	620.6	525.1	443.2	367.6	297.6	233.0	175.6
0°	1179.3	1015.5	864.5	733.4	620.6	525.1	443.2	367.6	297.6	233.0	175.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.5	3.6	1.8	0.0
85°	10.0	6.4	3.6	0.0
82.5°	14.6	10.0	4.5	0.0
80°	19.1	12.7	6.4	0.0
77.5°	24.6	16.4	8.2	0.0
75°	29.1	19.1	10.0	0.0
72.5°	33.7	22.7	10.9	0.0
70°	38.2	25.5	12.7	0.0
67.5°	43.7	28.2	14.6	0.0
65°	48.2	31.8	15.5	0.0
62.5°	52.8	34.6	17.3	0.0
60°	57.3	37.3	18.2	0.0
57.5°	61.9	40.0	20.0	0.0
55°	66.4	43.7	21.8	0.0
52.5°	71.0	46.4	22.7	0.0
50°	75.5	49.1	23.7	0.0
47.5°	79.2	51.9	25.5	0.0
45°	83.7	54.6	26.4	0.0
42.5°	88.3	56.4	27.3	0.0
40°	91.9	59.1	28.2	0.0
37.5°	96.5	61.0	30.0	0.0
35°	100.1	63.7	30.9	0.0
32.5°	102.8	65.5	31.8	0.0
30°	106.5	67.3	32.8	0.0
27.5°	109.2	69.2	32.8	0.0
25°	111.9	71.0	33.7	0.0
22.5°	114.7	71.9	34.6	0.0
20°	117.4	73.7	35.5	0.0
17.5°	119.2	74.6	35.5	0.0
15°	121.0	75.5	37.3	0.0
12.5°	121.9	76.4	37.3	0.0
10°	123.8	78.3	37.3	0.0
7.5°	125.6	78.3	37.3	0.0
5°	125.6	78.3	37.3	0.0
2.5°	125.6	78.3	37.3	0.0
0°	125.6	78.3	37.3	0.0

(END OF REPORT)