

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: P623886

Luminaire Tested: **IFLD-M-SA4C-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623886
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26878.6 lumens	Max Intensity:	14928.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.2 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:	11630.1 lumens	Field Lumens:	19043.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

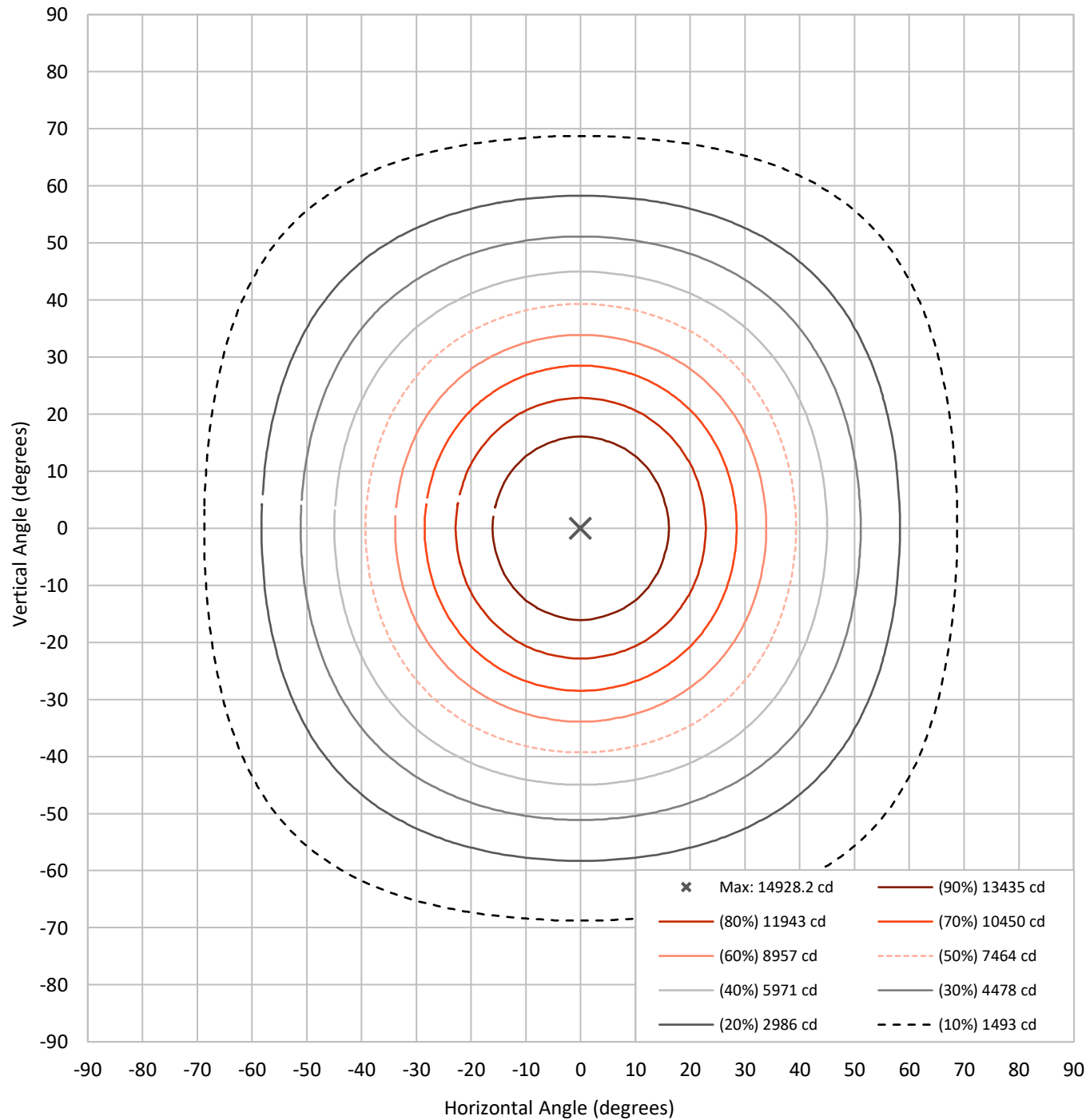
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





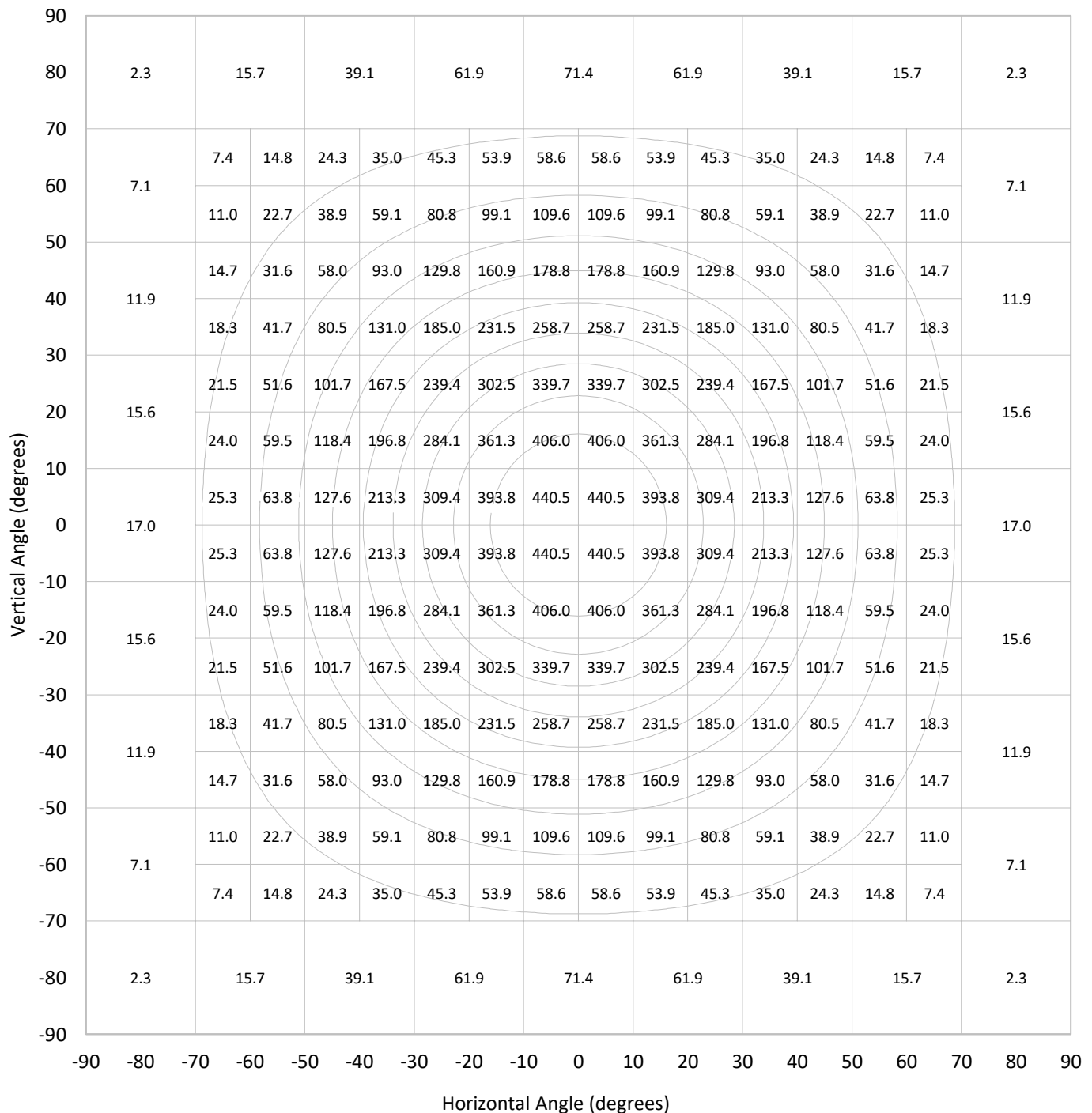
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Iso-Candela Plot



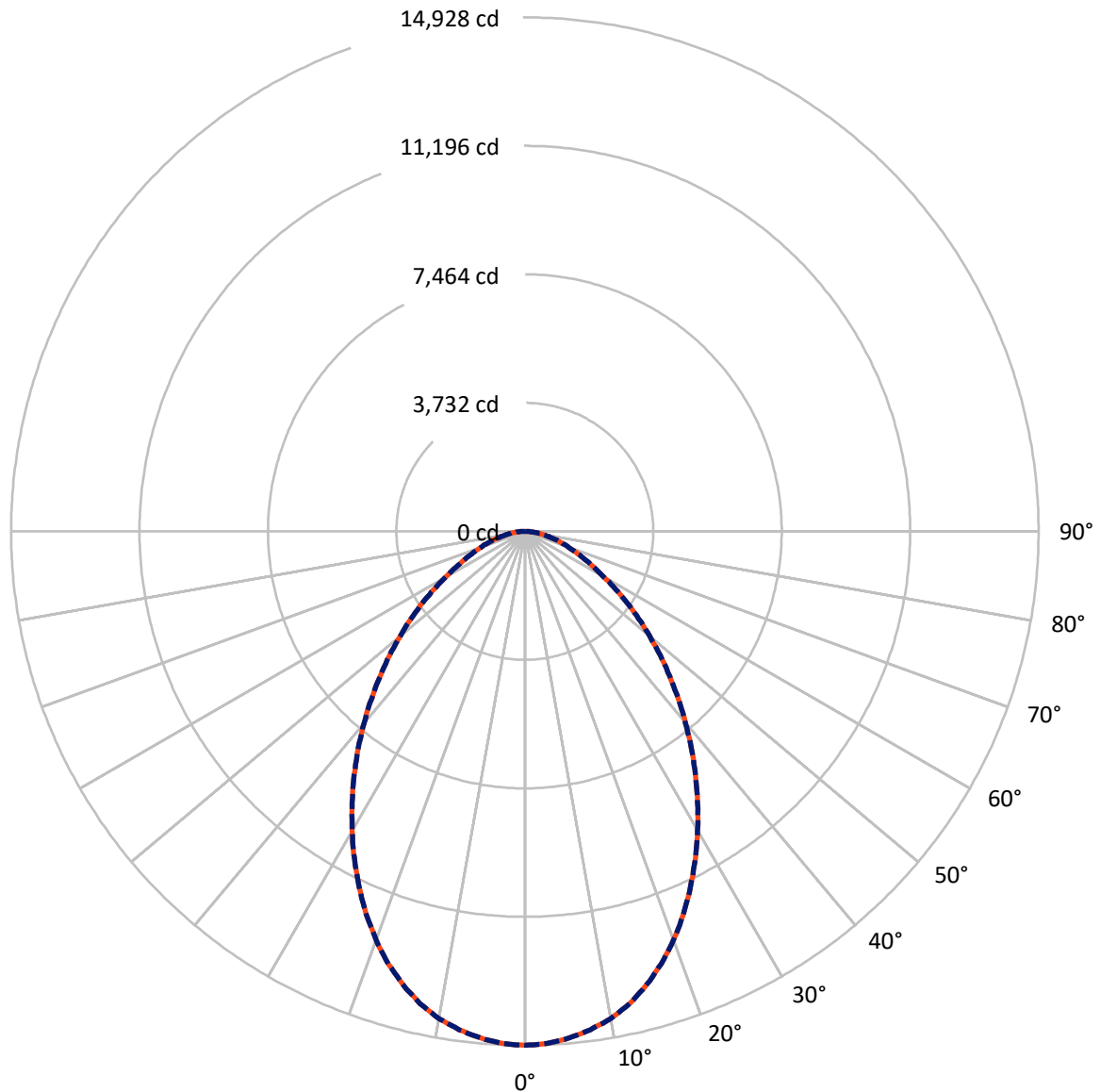
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Lumen Table



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Luminous Intensity Polar Plot

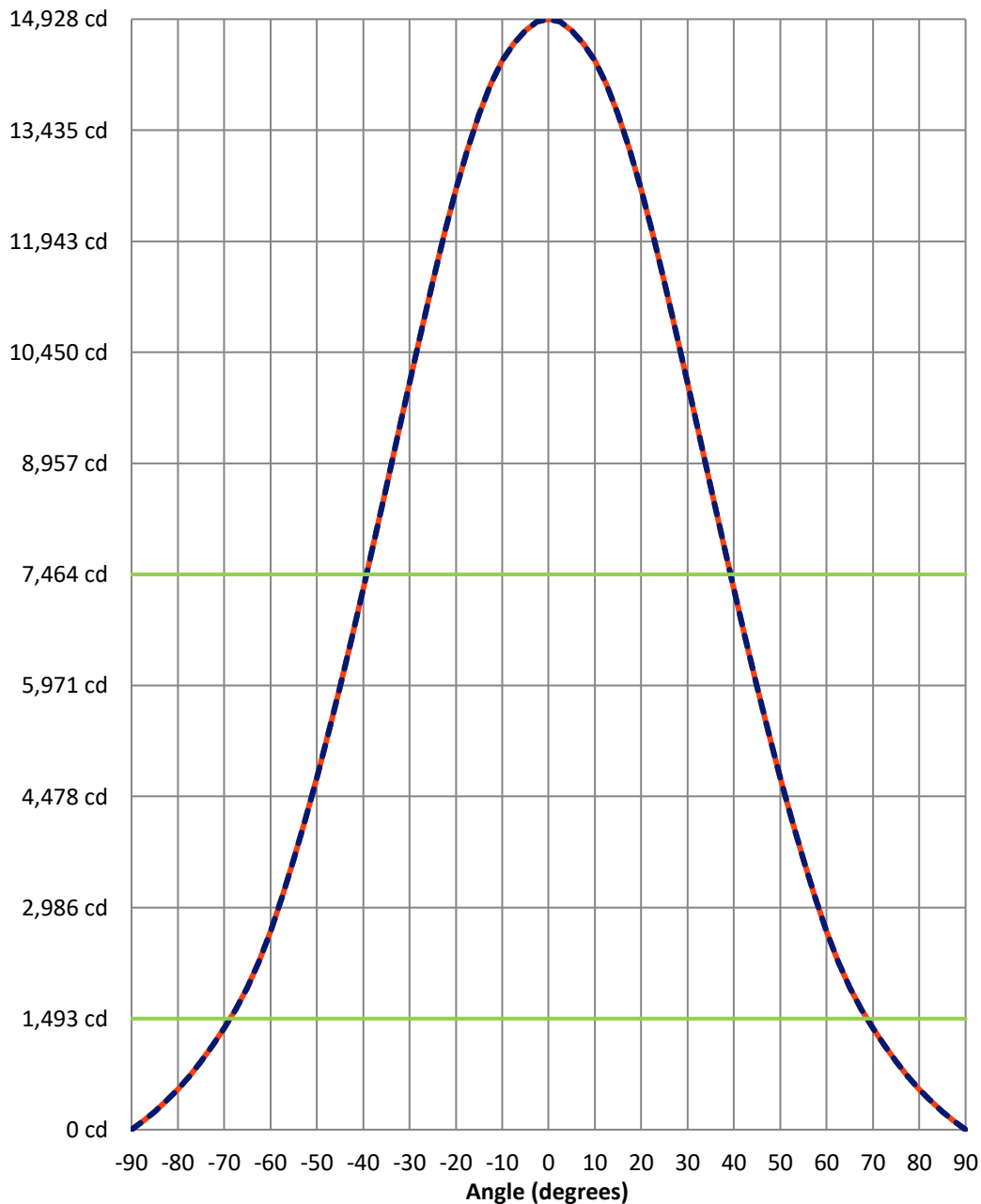


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11630.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 19043.9
Efficiency: 70.9%

Spill:

Lumens: 7834.7
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°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	109.3	109.3	106.5	103.7
85°	241.0	241.0	241.0	241.0	241.0	235.4	232.6	229.8	227.0	221.4	218.6
82.5°	386.7	386.7	386.7	386.7	381.1	375.5	372.7	367.1	361.5	353.1	344.7
80°	540.9	540.9	540.9	540.9	532.5	526.8	518.4	512.8	504.4	493.2	482.0
77.5°	717.4	717.4	717.4	709.0	703.4	695.0	686.6	675.4	664.2	650.2	633.3
75°	916.4	916.4	916.4	905.2	896.8	888.4	874.3	860.3	843.5	823.9	801.5
72.5°	1132.2	1132.2	1132.2	1118.1	1109.7	1095.7	1078.9	1059.3	1039.7	1014.5	986.4
70°	1364.8	1364.8	1364.8	1347.9	1333.9	1319.9	1297.5	1275.1	1247.1	1219.0	1185.4
67.5°	1617.0	1617.0	1617.0	1597.4	1580.5	1560.9	1535.7	1507.7	1474.0	1434.8	1395.6
65°	1911.2	1911.2	1900.0	1883.2	1863.6	1835.6	1804.7	1765.5	1723.5	1673.0	1619.8
62.5°	2258.7	2258.7	2241.9	2222.3	2197.1	2160.6	2118.6	2068.2	2009.3	1944.8	1880.4
60°	2662.3	2662.3	2642.6	2617.4	2581.0	2536.1	2480.1	2415.6	2342.8	2261.5	2183.0
57.5°	3127.4	3127.4	3102.2	3068.6	3023.8	2967.7	2897.7	2816.4	2723.9	2623.0	2524.9
55°	3631.9	3631.9	3601.0	3561.8	3508.6	3441.3	3357.2	3262.0	3149.9	3035.0	2908.9
52.5°	4167.1	4167.1	4130.7	4085.9	4024.2	3945.7	3850.5	3738.4	3609.5	3474.9	3326.4
50°	4730.4	4730.4	4688.4	4637.9	4567.9	4475.4	4366.1	4237.2	4094.3	3937.3	3766.4
47.5°	5332.9	5332.9	5285.3	5226.4	5142.4	5035.9	4907.0	4758.4	4595.9	4419.3	4226.0
45°	5952.2	5952.2	5899.0	5831.7	5739.3	5618.8	5475.8	5332.9	5125.5	4921.0	4696.8
42.5°	6596.8	6596.8	6535.1	6459.5	6353.0	6221.3	6058.7	5873.8	5669.2	5439.4	5195.6
40°	7266.6	7266.6	7196.5	7109.6	6991.9	6840.6	6658.4	6451.1	6221.3	5966.3	5697.2
37.5°	7950.3	7950.3	7871.9	7776.6	7644.9	7476.7	7272.2	7042.4	6784.5	6501.5	6204.5
35°	8639.7	8639.7	8552.8	8449.2	8303.4	8118.5	7897.1	7642.1	7356.2	7048.0	6714.5
32.5°	9343.1	9343.1	9247.8	9130.1	8964.8	8760.2	8516.4	8239.0	7950.3	7591.6	7227.3
30°	10038.1	10038.1	9934.4	9805.5	9629.0	9404.8	9138.5	8833.1	8494.0	8126.9	7734.5
27.5°	10721.9	10693.9	10607.0	10469.7	10276.3	10038.1	9749.5	9418.8	9051.7	8648.1	8227.8
25°	11394.4	11363.6	11268.3	11117.0	10909.6	10649.0	10338.0	9984.9	9589.7	9163.8	8704.2
22.5°	12039.0	12005.4	11904.5	11741.9	11520.6	11237.5	10904.0	10525.7	10105.4	9648.6	9163.8
20°	12635.9	12599.5	12495.8	12324.8	12095.0	11795.2	11442.1	11035.7	10587.4	10105.4	9589.7
17.5°	13174.0	13137.5	13028.2	12851.7	12635.9	12302.4	11938.1	11509.3	11035.7	10525.7	9984.9
15°	13647.6	13608.3	13496.2	13319.7	13073.1	12759.2	12375.3	11938.1	11442.1	10904.0	10338.0
12.5°	14051.1	14011.9	13897.0	13720.4	13465.4	13151.5	12759.2	12302.4	11795.2	11237.5	10649.0
10°	14370.6	14331.3	14222.0	14053.9	13790.5	13465.4	13073.1	12635.9	12095.0	11520.6	10909.6
7.5°	14600.4	14563.9	14463.0	14294.9	14053.9	13720.4	13319.7	12851.7	12324.8	11741.9	11117.0
5°	14774.1	14732.1	14631.2	14463.0	14222.0	13897.0	13496.2	13028.2	12495.8	11904.5	11268.3
2.5°	14894.6	14844.2	14732.1	14563.9	14331.3	14011.9	13608.3	13137.5	12599.5	12005.4	11363.6
0°	14928.2	14894.6	14774.1	14600.4	14370.6	14051.1	13647.6	13174.0	12635.9	12039.0	11394.4

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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°	100.9	100.9	98.1	95.3	92.5	86.9	84.1	81.3	78.5	72.9	70.1
85°	213.0	207.4	201.8	196.2	187.8	182.2	173.7	168.1	159.7	151.3	142.9
82.5°	336.3	327.9	316.7	308.3	297.1	283.0	271.8	257.8	243.8	232.6	218.6
80°	470.8	456.8	442.8	428.8	411.9	395.1	378.3	361.5	341.9	322.3	302.7
77.5°	616.5	596.9	577.3	554.9	535.3	512.8	490.4	468.0	442.8	417.6	392.3
75°	779.1	753.8	725.8	697.8	672.6	641.7	610.9	580.1	546.5	515.6	482.0
72.5°	955.6	924.8	891.2	857.5	821.1	781.9	742.6	700.6	661.4	622.1	580.1
70°	1146.2	1109.7	1067.7	1025.7	980.8	933.2	885.5	835.1	784.7	734.2	683.8
67.5°	1350.7	1305.9	1255.5	1205.0	1149.0	1092.9	1036.9	978.0	916.4	854.7	795.9
65°	1569.3	1513.3	1454.4	1390.0	1325.5	1261.1	1193.8	1123.8	1053.7	980.8	916.4
62.5°	1813.1	1743.1	1667.4	1588.9	1516.1	1437.6	1364.8	1277.9	1193.8	1112.5	1031.3
60°	2096.2	2003.7	1911.2	1813.1	1720.7	1619.8	1530.1	1434.8	1339.5	1247.1	1151.8
57.5°	2412.8	2295.1	2183.0	2065.3	1942.0	1829.9	1715.1	1600.2	1493.7	1384.4	1280.7
55°	2771.5	2628.6	2488.5	2342.8	2199.9	2059.7	1914.0	1785.1	1653.4	1530.1	1409.6
52.5°	3163.9	3001.3	2827.6	2662.3	2480.1	2306.4	2143.8	1981.3	1827.1	1678.6	1541.3
50°	3584.2	3393.7	3194.7	2992.9	2785.6	2581.0	2384.8	2194.3	2014.9	1841.2	1678.6
47.5°	4021.4	3805.6	3578.6	3348.8	3127.4	2878.0	2642.6	2426.9	2211.1	2014.9	1827.1
45°	4469.8	4226.0	3976.6	3715.9	3455.3	3186.3	2925.7	2662.3	2426.9	2194.3	1981.3
42.5°	4932.2	4657.5	4380.1	4091.5	3802.8	3508.6	3214.3	2925.7	2642.6	2384.8	2143.8
40°	5408.6	5105.9	4789.3	4475.4	4167.1	3830.8	3508.6	3186.3	2878.0	2581.0	2306.4
37.5°	5885.0	5554.3	5212.4	4859.3	4506.2	4167.1	3802.8	3455.3	3127.4	2785.6	2480.1
35°	6364.2	5999.9	5630.0	5246.0	4859.3	4475.4	4091.5	3715.9	3348.8	2992.9	2662.3
32.5°	6846.2	6448.3	6039.1	5630.0	5212.4	4789.3	4380.1	3976.6	3578.6	3194.7	2827.6
30°	7319.8	6888.2	6448.3	5999.9	5554.3	5105.9	4657.5	4226.0	3805.6	3393.7	3001.3
27.5°	7782.2	7319.8	6846.2	6364.2	5885.0	5408.6	4932.2	4469.8	4021.4	3584.2	3163.9
25°	8227.8	7734.5	7227.3	6714.5	6204.5	5697.2	5195.6	4696.8	4226.0	3766.4	3326.4
22.5°	8648.1	8126.9	7591.6	7048.0	6501.5	5966.3	5439.4	4921.0	4419.3	3937.3	3474.9
20°	9051.7	8494.0	7950.3	7356.2	6784.5	6221.3	5669.2	5125.5	4595.9	4094.3	3609.5
17.5°	9418.8	8833.1	8239.0	7642.1	7042.4	6451.1	5873.8	5332.9	4758.4	4237.2	3738.4
15°	9749.5	9138.5	8516.4	7897.1	7272.2	6658.4	6058.7	5475.8	4907.0	4366.1	3850.5
12.5°	10038.1	9404.8	8760.2	8118.5	7476.7	6840.6	6221.3	5618.8	5035.9	4475.4	3945.7
10°	10276.3	9629.0	8964.8	8303.4	7644.9	6991.9	6353.0	5739.3	5142.4	4567.9	4024.2
7.5°	10469.7	9805.5	9130.1	8449.2	7776.6	7109.6	6459.5	5831.7	5226.4	4637.9	4085.9
5°	10607.0	9934.4	9247.8	8552.8	7871.9	7196.5	6535.1	5899.0	5285.3	4688.4	4130.7
2.5°	10693.9	10038.1	9343.1	8639.7	7950.3	7266.6	6596.8	5952.2	5332.9	4730.4	4167.1
0°	10721.9	10038.1	9343.1	8639.7	7950.3	7266.6	6596.8	5952.2	5332.9	4730.4	4167.1

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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°	67.3	61.7	56.0	53.2	47.6	44.8	39.2	33.6	30.8	25.2	19.6
85°	134.5	123.3	114.9	106.5	98.1	86.9	78.5	70.1	58.8	50.4	39.2
82.5°	204.6	190.6	176.5	162.5	148.5	134.5	117.7	103.7	89.7	75.7	58.8
80°	283.0	260.6	241.0	221.4	201.8	182.2	159.7	140.1	117.7	98.1	78.5
77.5°	364.3	339.1	311.1	283.0	255.0	229.8	201.8	176.5	151.3	123.3	98.1
75°	451.2	417.6	386.7	350.3	316.7	280.2	246.6	213.0	182.2	151.3	117.7
72.5°	540.9	498.8	456.8	417.6	375.5	333.5	294.2	252.2	213.0	176.5	140.1
70°	633.3	582.9	532.5	484.8	437.2	386.7	341.9	294.2	246.6	201.8	159.7
67.5°	731.4	672.6	613.7	552.1	498.8	442.8	386.7	333.5	280.2	229.8	182.2
65°	837.9	767.9	695.0	630.5	560.5	498.8	437.2	375.5	316.7	255.0	201.8
62.5°	947.2	865.9	784.7	703.4	630.5	552.1	484.8	417.6	350.3	283.0	221.4
60°	1059.3	966.8	874.3	784.7	695.0	613.7	532.5	456.8	386.7	311.1	241.0
57.5°	1174.2	1070.5	966.8	865.9	767.9	672.6	582.9	498.8	417.6	339.1	260.6
55°	1291.9	1174.2	1059.3	947.2	837.9	731.4	633.3	540.9	451.2	364.3	283.0
52.5°	1409.6	1280.7	1151.8	1031.3	916.4	795.9	683.8	580.1	482.0	392.3	302.7
50°	1530.1	1384.4	1247.1	1112.5	980.8	854.7	734.2	622.1	515.6	417.6	322.3
47.5°	1653.4	1493.7	1339.5	1193.8	1053.7	916.4	784.7	661.4	546.5	442.8	341.9
45°	1785.1	1600.2	1434.8	1277.9	1123.8	978.0	835.1	700.6	580.1	468.0	361.5
42.5°	1914.0	1715.1	1530.1	1364.8	1193.8	1036.9	885.5	742.6	610.9	490.4	378.3
40°	2059.7	1829.9	1619.8	1437.6	1261.1	1092.9	933.2	781.9	641.7	512.8	395.1
37.5°	2199.9	1942.0	1720.7	1516.1	1325.5	1149.0	980.8	821.1	672.6	535.3	411.9
35°	2342.8	2065.3	1813.1	1588.9	1390.0	1205.0	1025.7	857.5	697.8	554.9	428.8
32.5°	2488.5	2183.0	1911.2	1667.4	1454.4	1255.5	1067.7	891.2	725.8	577.3	442.8
30°	2628.6	2295.1	2003.7	1743.1	1513.3	1305.9	1109.7	924.8	753.8	596.9	456.8
27.5°	2771.5	2412.8	2096.2	1813.1	1569.3	1350.7	1146.2	955.6	779.1	616.5	470.8
25°	2908.9	2524.9	2183.0	1880.4	1619.8	1395.6	1185.4	986.4	801.5	633.3	482.0
22.5°	3035.0	2623.0	2261.5	1944.8	1673.0	1434.8	1219.0	1014.5	823.9	650.2	493.2
20°	3149.9	2723.9	2342.8	2009.3	1723.5	1474.0	1247.1	1039.7	843.5	664.2	504.4
17.5°	3262.0	2816.4	2415.6	2068.2	1765.5	1507.7	1275.1	1059.3	860.3	675.4	512.8
15°	3357.2	2897.7	2480.1	2118.6	1804.7	1535.7	1297.5	1078.9	874.3	686.6	518.4
12.5°	3441.3	2967.7	2536.1	2160.6	1835.6	1560.9	1319.9	1095.7	888.4	695.0	526.8
10°	3508.6	3023.8	2581.0	2197.1	1863.6	1580.5	1333.9	1109.7	896.8	703.4	532.5
7.5°	3561.8	3068.6	2617.4	2222.3	1883.2	1597.4	1347.9	1118.1	905.2	709.0	540.9
5°	3601.0	3102.2	2642.6	2241.9	1900.0	1617.0	1364.8	1132.2	916.4	717.4	540.9
2.5°	3631.9	3127.4	2662.3	2258.7	1911.2	1617.0	1364.8	1132.2	916.4	717.4	540.9
0°	3631.9	3127.4	2662.3	2258.7	1911.2	1617.0	1364.8	1132.2	916.4	717.4	540.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.0	11.2	5.6	0.0
85°	30.8	19.6	11.2	0.0
82.5°	44.8	30.8	14.0	0.0
80°	58.8	39.2	19.6	0.0
77.5°	75.7	50.4	25.2	0.0
75°	89.7	58.8	30.8	0.0
72.5°	103.7	70.1	33.6	0.0
70°	117.7	78.5	39.2	0.0
67.5°	134.5	86.9	44.8	0.0
65°	148.5	98.1	47.6	0.0
62.5°	162.5	106.5	53.2	0.0
60°	176.5	114.9	56.0	0.0
57.5°	190.6	123.3	61.7	0.0
55°	204.6	134.5	67.3	0.0
52.5°	218.6	142.9	70.1	0.0
50°	232.6	151.3	72.9	0.0
47.5°	243.8	159.7	78.5	0.0
45°	257.8	168.1	81.3	0.0
42.5°	271.8	173.7	84.1	0.0
40°	283.0	182.2	86.9	0.0
37.5°	297.1	187.8	92.5	0.0
35°	308.3	196.2	95.3	0.0
32.5°	316.7	201.8	98.1	0.0
30°	327.9	207.4	100.9	0.0
27.5°	336.3	213.0	100.9	0.0
25°	344.7	218.6	103.7	0.0
22.5°	353.1	221.4	106.5	0.0
20°	361.5	227.0	109.3	0.0
17.5°	367.1	229.8	109.3	0.0
15°	372.7	232.6	114.9	0.0
12.5°	375.5	235.4	114.9	0.0
10°	381.1	241.0	114.9	0.0
7.5°	386.7	241.0	114.9	0.0
5°	386.7	241.0	114.9	0.0
2.5°	386.7	241.0	114.9	0.0
0°	386.7	241.0	114.9	0.0

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