

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: P624607

Luminaire Tested: **IFLD-L-SA8A-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624607
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

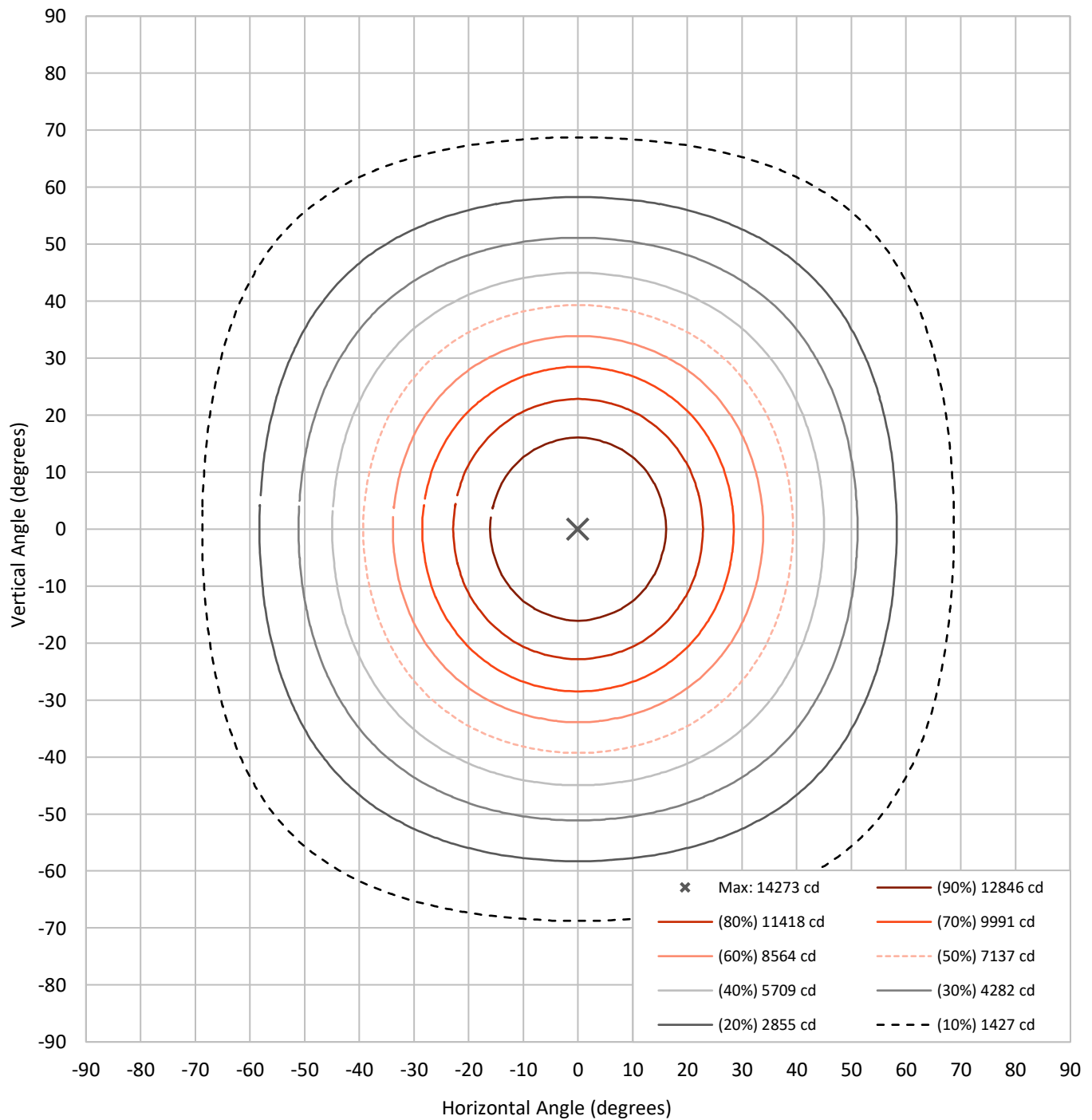
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	25698.9 lumens	Max Intensity:	14273 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	103.7 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:	11119.7 lumens	Field Lumens:	18208.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	247.8		
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		



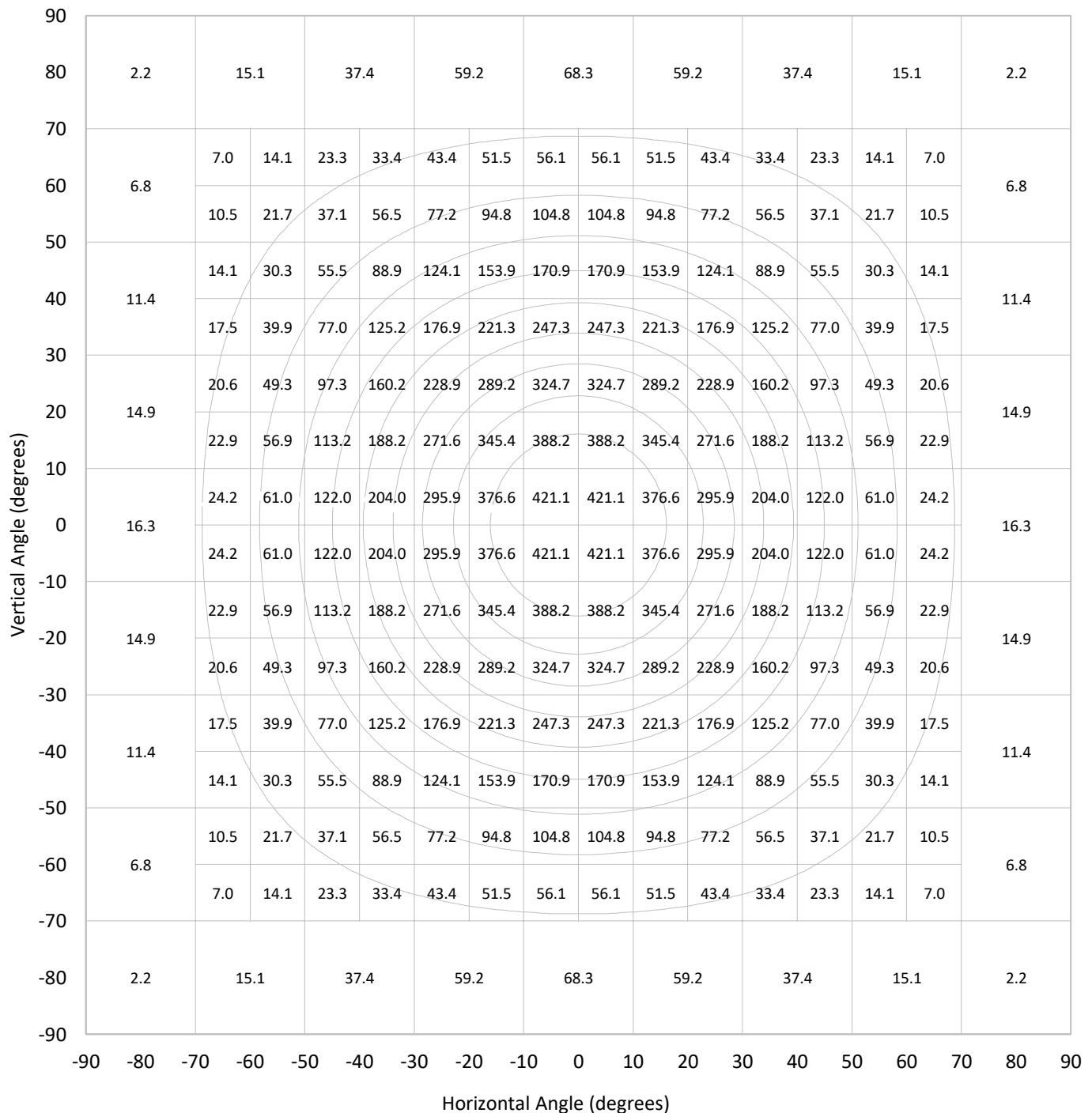
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Iso-Candela Plot



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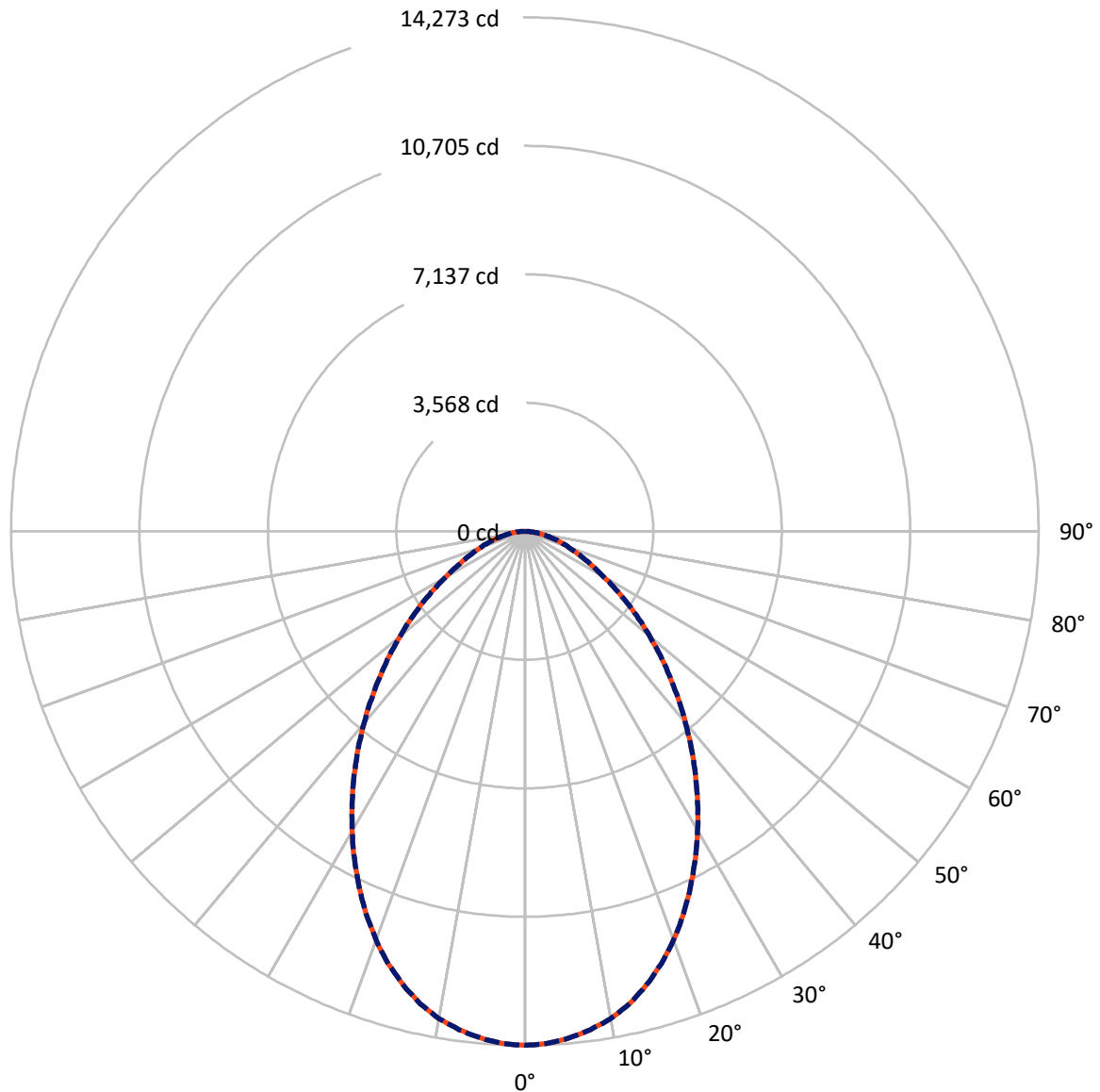
Lumen Table



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Luminous Intensity Polar Plot

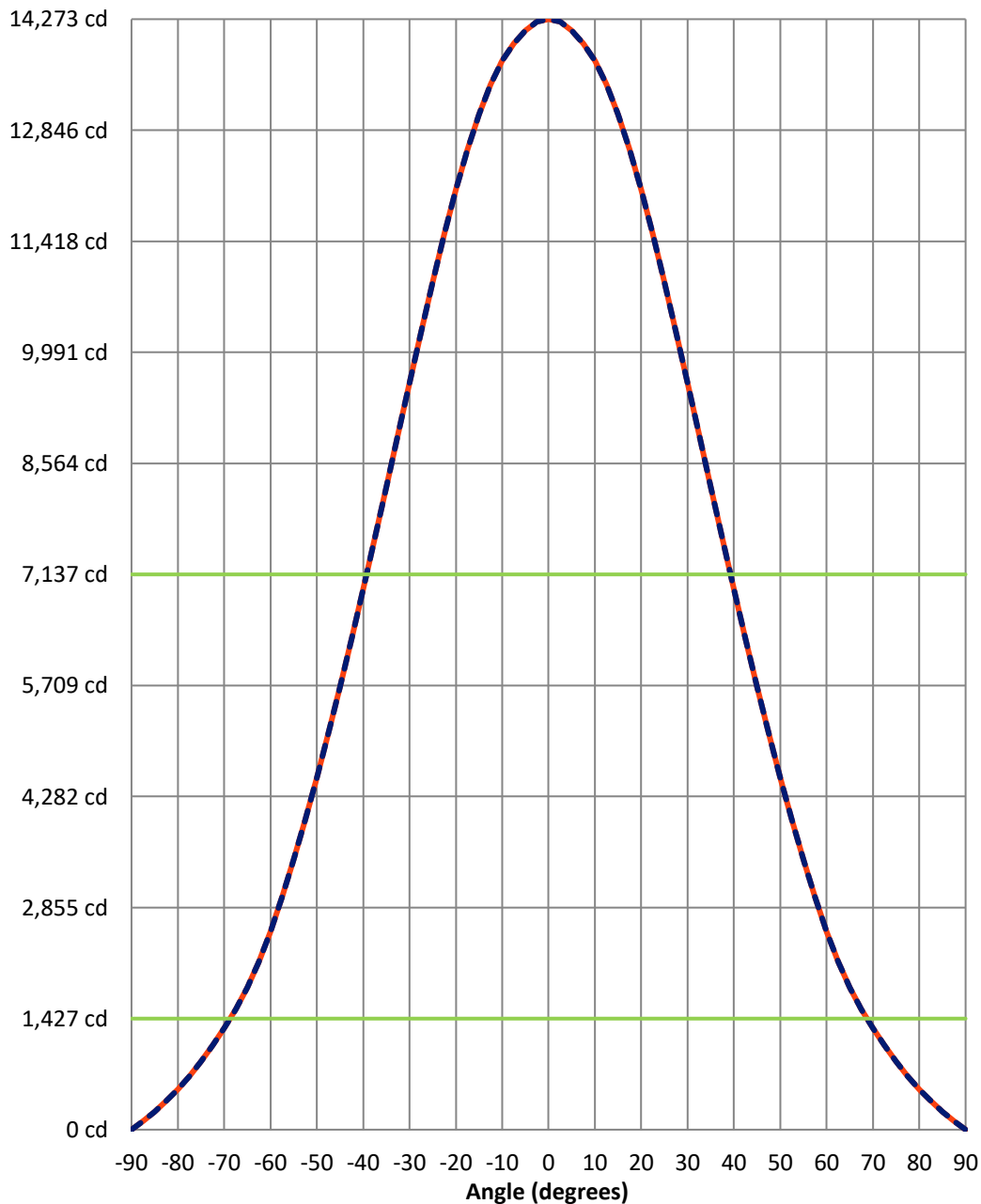


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11119.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 18208.1
Efficiency: 70.9%

Spill:

Lumens: 7490.8
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°	109.9	109.9	109.9	109.9	109.9	109.9	109.9	104.5	104.5	101.8	99.1
85°	230.4	230.4	230.4	230.4	230.4	225.1	222.4	219.7	217.0	211.7	209.0
82.5°	369.8	369.8	369.8	369.8	364.4	359.0	356.4	351.0	345.6	337.6	329.6
80°	517.1	517.1	517.1	517.1	509.1	503.7	495.7	490.3	482.3	471.6	460.9
77.5°	685.9	685.9	685.9	677.9	672.5	664.5	656.4	645.7	635.0	621.6	605.5
75°	876.2	876.2	876.2	865.4	857.4	849.4	836.0	822.6	806.5	787.7	766.3
72.5°	1082.5	1082.5	1082.5	1069.1	1061.0	1047.6	1031.6	1012.8	994.0	969.9	943.1
70°	1304.9	1304.9	1304.9	1288.8	1275.4	1262.0	1240.6	1219.1	1192.3	1165.5	1133.4
67.5°	1546.0	1546.0	1546.0	1527.2	1511.2	1492.4	1468.3	1441.5	1409.4	1371.8	1334.3
65°	1827.3	1827.3	1816.6	1800.5	1781.8	1755.0	1725.5	1688.0	1647.8	1599.6	1548.7
62.5°	2159.6	2159.6	2143.5	2124.7	2100.6	2065.8	2025.6	1977.4	1921.1	1859.5	1797.9
60°	2545.4	2545.4	2526.6	2502.5	2467.7	2424.8	2371.2	2309.6	2240.0	2162.3	2087.2
57.5°	2990.2	2990.2	2966.1	2933.9	2891.0	2837.5	2770.5	2692.8	2604.4	2507.9	2414.1
55°	3472.5	3472.5	3443.0	3405.5	3354.6	3290.3	3209.9	3118.8	3011.6	2901.8	2781.2
52.5°	3984.2	3984.2	3949.4	3906.5	3847.6	3772.6	3681.5	3574.3	3451.0	3322.4	3180.4
50°	4522.8	4522.8	4482.6	4434.4	4367.4	4279.0	4174.5	4051.2	3914.6	3764.5	3601.1
47.5°	5098.8	5098.8	5053.3	4997.0	4916.7	4814.8	4691.6	4549.6	4394.2	4225.4	4040.5
45°	5691.0	5691.0	5640.1	5575.8	5487.4	5372.1	5235.5	5098.8	4900.6	4705.0	4490.6
42.5°	6307.2	6307.2	6248.3	6176.0	6074.1	5948.2	5792.8	5616.0	5420.4	5200.7	4967.6
40°	6947.6	6947.6	6880.6	6797.6	6685.0	6540.4	6366.2	6167.9	5948.2	5704.4	5447.2
37.5°	7601.4	7601.4	7526.4	7435.3	7309.3	7148.6	6953.0	6733.3	6486.8	6216.1	5932.1
35°	8260.5	8260.5	8177.4	8078.3	7939.0	7762.1	7550.5	7306.7	7033.4	6738.6	6419.8
32.5°	8933.0	8933.0	8841.9	8729.4	8571.3	8375.7	8142.6	7877.4	7601.4	7258.4	6910.1
30°	9597.5	9597.5	9498.4	9375.1	9206.3	8992.0	8737.4	8445.4	8121.2	7770.2	7395.1
27.5°	10251.3	10224.5	10141.4	10010.1	9825.3	9597.5	9321.5	9005.4	8654.4	8268.5	7866.6
25°	10894.3	10864.9	10773.8	10629.1	10430.8	10181.6	9884.2	9546.6	9168.8	8761.6	8322.1
22.5°	11510.6	11478.4	11382.0	11226.6	11014.9	10744.3	10425.4	10063.7	9661.8	9225.1	8761.6
20°	12081.3	12046.5	11947.3	11783.9	11564.2	11277.5	10939.9	10551.4	10122.7	9661.8	9168.8
17.5°	12595.7	12560.9	12456.4	12287.6	12081.3	11762.5	11414.1	11004.2	10551.4	10063.7	9546.6
15°	13048.5	13011.0	12903.9	12735.1	12499.3	12199.2	11832.1	11414.1	10939.9	10425.4	9884.2
12.5°	13434.4	13396.9	13287.0	13118.2	12874.4	12574.3	12199.2	11762.5	11277.5	10744.3	10181.6
10°	13739.8	13702.3	13597.8	13437.1	13185.2	12874.4	12499.3	12081.3	11564.2	11014.9	10430.8
7.5°	13959.5	13924.7	13828.2	13667.5	13437.1	13118.2	12735.1	12287.6	11783.9	11226.6	10629.1
5°	14125.7	14085.5	13989.0	13828.2	13597.8	13287.0	12903.9	12456.4	11947.3	11382.0	10773.8
2.5°	14240.9	14192.6	14085.5	13924.7	13702.3	13396.9	13011.0	12560.9	12046.5	11478.4	10864.9
0°	14273.0	14240.9	14125.7	13959.5	13739.8	13434.4	13048.5	12595.7	12081.3	11510.6	10894.3

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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°	96.5	96.5	93.8	91.1	88.4	83.1	80.4	77.7	75.0	69.7	67.0
85°	203.6	198.3	192.9	187.6	179.5	174.2	166.1	160.8	152.7	144.7	136.6
82.5°	321.5	313.5	302.8	294.7	284.0	270.6	259.9	246.5	233.1	222.4	209.0
80°	450.1	436.7	423.3	409.9	393.9	377.8	361.7	345.6	326.9	308.1	289.4
77.5°	589.5	570.7	552.0	530.5	511.8	490.3	468.9	447.5	423.3	399.2	375.1
75°	744.9	720.8	694.0	667.2	643.0	613.6	584.1	554.6	522.5	493.0	460.9
72.5°	913.7	884.2	852.0	819.9	785.1	747.5	710.0	669.8	632.3	594.8	554.6
70°	1095.9	1061.0	1020.8	980.7	937.8	892.2	846.7	798.5	750.2	702.0	653.8
67.5°	1291.5	1248.6	1200.4	1152.1	1098.5	1045.0	991.4	935.1	876.2	817.2	760.9
65°	1500.4	1446.9	1390.6	1329.0	1267.3	1205.7	1141.4	1074.4	1007.4	937.8	876.2
62.5°	1733.6	1666.6	1594.2	1519.2	1449.5	1374.5	1304.9	1221.8	1141.4	1063.7	986.0
60°	2004.2	1915.8	1827.3	1733.6	1645.1	1548.7	1462.9	1371.8	1280.7	1192.3	1101.2
57.5°	2306.9	2194.4	2087.2	1974.7	1856.8	1749.6	1639.8	1529.9	1428.1	1323.6	1224.5
55°	2649.9	2513.3	2379.3	2240.0	2103.3	1969.3	1830.0	1706.8	1580.8	1462.9	1347.7
52.5°	3025.0	2869.6	2703.5	2545.4	2371.2	2205.1	2049.7	1894.3	1747.0	1604.9	1473.7
50°	3426.9	3244.7	3054.5	2861.6	2663.3	2467.7	2280.1	2097.9	1926.5	1760.3	1604.9
47.5°	3844.9	3638.6	3421.6	3201.9	2990.2	2751.7	2526.6	2320.3	2114.0	1926.5	1747.0
45°	4273.6	4040.5	3802.0	3552.8	3303.7	3046.4	2797.3	2545.4	2320.3	2097.9	1894.3
42.5°	4715.7	4453.1	4187.9	3911.9	3635.9	3354.6	3073.2	2797.3	2526.6	2280.1	2049.7
40°	5171.2	4881.8	4579.0	4279.0	3984.2	3662.7	3354.6	3046.4	2751.7	2467.7	2205.1
37.5°	5626.7	5310.5	4983.6	4646.0	4308.4	3984.2	3635.9	3303.7	2990.2	2663.3	2371.2
35°	6084.9	5736.5	5382.9	5015.8	4646.0	4279.0	3911.9	3552.8	3201.9	2861.6	2545.4
32.5°	6545.7	6165.2	5774.1	5382.9	4983.6	4579.0	4187.9	3802.0	3421.6	3054.5	2703.5
30°	6998.5	6585.9	6165.2	5736.5	5310.5	4881.8	4453.1	4040.5	3638.6	3244.7	2869.6
27.5°	7440.6	6998.5	6545.7	6084.9	5626.7	5171.2	4715.7	4273.6	3844.9	3426.9	3025.0
25°	7866.6	7395.1	6910.1	6419.8	5932.1	5447.2	4967.6	4490.6	4040.5	3601.1	3180.4
22.5°	8268.5	7770.2	7258.4	6738.6	6216.1	5704.4	5200.7	4705.0	4225.4	3764.5	3322.4
20°	8654.4	8121.2	7601.4	7033.4	6486.8	5948.2	5420.4	4900.6	4394.2	3914.6	3451.0
17.5°	9005.4	8445.4	7877.4	7306.7	6733.3	6167.9	5616.0	5098.8	4549.6	4051.2	3574.3
15°	9321.5	8737.4	8142.6	7550.5	6953.0	6366.2	5792.8	5235.5	4691.6	4174.5	3681.5
12.5°	9597.5	8992.0	8375.7	7762.1	7148.6	6540.4	5948.2	5372.1	4814.8	4279.0	3772.6
10°	9825.3	9206.3	8571.3	7939.0	7309.3	6685.0	6074.1	5487.4	4916.7	4367.4	3847.6
7.5°	10010.1	9375.1	8729.4	8078.3	7435.3	6797.6	6176.0	5575.8	4997.0	4434.4	3906.5
5°	10141.4	9498.4	8841.9	8177.4	7526.4	6880.6	6248.3	5640.1	5053.3	4482.6	3949.4
2.5°	10224.5	9597.5	8933.0	8260.5	7601.4	6947.6	6307.2	5691.0	5098.8	4522.8	3984.2
0°	10251.3	9597.5	8933.0	8260.5	7601.4	6947.6	6307.2	5691.0	5098.8	4522.8	3984.2

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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°	64.3	58.9	53.6	50.9	45.5	42.9	37.5	32.2	29.5	24.1	18.8
85°	128.6	117.9	109.9	101.8	93.8	83.1	75.0	67.0	56.3	48.2	37.5
82.5°	195.6	182.2	168.8	155.4	142.0	128.6	112.5	99.1	85.7	72.3	56.3
80°	270.6	249.2	230.4	211.7	192.9	174.2	152.7	134.0	112.5	93.8	75.0
77.5°	348.3	324.2	297.4	270.6	243.8	219.7	192.9	168.8	144.7	117.9	93.8
75°	431.4	399.2	369.8	334.9	302.8	267.9	235.8	203.6	174.2	144.7	112.5
72.5°	517.1	476.9	436.7	399.2	359.0	318.8	281.3	241.1	203.6	168.8	134.0
70°	605.5	557.3	509.1	463.5	418.0	369.8	326.9	281.3	235.8	192.9	152.7
67.5°	699.3	643.0	586.8	527.8	476.9	423.3	369.8	318.8	267.9	219.7	174.2
65°	801.1	734.1	664.5	602.9	535.9	476.9	418.0	359.0	302.8	243.8	192.9
62.5°	905.6	827.9	750.2	672.5	602.9	527.8	463.5	399.2	334.9	270.6	211.7
60°	1012.8	924.4	836.0	750.2	664.5	586.8	509.1	436.7	369.8	297.4	230.4
57.5°	1122.7	1023.5	924.4	827.9	734.1	643.0	557.3	476.9	399.2	324.2	249.2
55°	1235.2	1122.7	1012.8	905.6	801.1	699.3	605.5	517.1	431.4	348.3	270.6
52.5°	1347.7	1224.5	1101.2	986.0	876.2	760.9	653.8	554.6	460.9	375.1	289.4
50°	1462.9	1323.6	1192.3	1063.7	937.8	817.2	702.0	594.8	493.0	399.2	308.1
47.5°	1580.8	1428.1	1280.7	1141.4	1007.4	876.2	750.2	632.3	522.5	423.3	326.9
45°	1706.8	1529.9	1371.8	1221.8	1074.4	935.1	798.5	669.8	554.6	447.5	345.6
42.5°	1830.0	1639.8	1462.9	1304.9	1141.4	991.4	846.7	710.0	584.1	468.9	361.7
40°	1969.3	1749.6	1548.7	1374.5	1205.7	1045.0	892.2	747.5	613.6	490.3	377.8
37.5°	2103.3	1856.8	1645.1	1449.5	1267.3	1098.5	937.8	785.1	643.0	511.8	393.9
35°	2240.0	1974.7	1733.6	1519.2	1329.0	1152.1	980.7	819.9	667.2	530.5	409.9
32.5°	2379.3	2087.2	1827.3	1594.2	1390.6	1200.4	1020.8	852.0	694.0	552.0	423.3
30°	2513.3	2194.4	1915.8	1666.6	1446.9	1248.6	1061.0	884.2	720.8	570.7	436.7
27.5°	2649.9	2306.9	2004.2	1733.6	1500.4	1291.5	1095.9	913.7	744.9	589.5	450.1
25°	2781.2	2414.1	2087.2	1797.9	1548.7	1334.3	1133.4	943.1	766.3	605.5	460.9
22.5°	2901.8	2507.9	2162.3	1859.5	1599.6	1371.8	1165.5	969.9	787.7	621.6	471.6
20°	3011.6	2604.4	2240.0	1921.1	1647.8	1409.4	1192.3	994.0	806.5	635.0	482.3
17.5°	3118.8	2692.8	2309.6	1977.4	1688.0	1441.5	1219.1	1012.8	822.6	645.7	490.3
15°	3209.9	2770.5	2371.2	2025.6	1725.5	1468.3	1240.6	1031.6	836.0	656.4	495.7
12.5°	3290.3	2837.5	2424.8	2065.8	1755.0	1492.4	1262.0	1047.6	849.4	664.5	503.7
10°	3354.6	2891.0	2467.7	2100.6	1781.8	1511.2	1275.4	1061.0	857.4	672.5	509.1
7.5°	3405.5	2933.9	2502.5	2124.7	1800.5	1527.2	1288.8	1069.1	865.4	677.9	517.1
5°	3443.0	2966.1	2526.6	2143.5	1816.6	1546.0	1304.9	1082.5	876.2	685.9	517.1
2.5°	3472.5	2990.2	2545.4	2159.6	1827.3	1546.0	1304.9	1082.5	876.2	685.9	517.1
0°	3472.5	2990.2	2545.4	2159.6	1827.3	1546.0	1304.9	1082.5	876.2	685.9	517.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.4	10.7	5.4	0.0
85°	29.5	18.8	10.7	0.0
82.5°	42.9	29.5	13.4	0.0
80°	56.3	37.5	18.8	0.0
77.5°	72.3	48.2	24.1	0.0
75°	85.7	56.3	29.5	0.0
72.5°	99.1	67.0	32.2	0.0
70°	112.5	75.0	37.5	0.0
67.5°	128.6	83.1	42.9	0.0
65°	142.0	93.8	45.5	0.0
62.5°	155.4	101.8	50.9	0.0
60°	168.8	109.9	53.6	0.0
57.5°	182.2	117.9	58.9	0.0
55°	195.6	128.6	64.3	0.0
52.5°	209.0	136.6	67.0	0.0
50°	222.4	144.7	69.7	0.0
47.5°	233.1	152.7	75.0	0.0
45°	246.5	160.8	77.7	0.0
42.5°	259.9	166.1	80.4	0.0
40°	270.6	174.2	83.1	0.0
37.5°	284.0	179.5	88.4	0.0
35°	294.7	187.6	91.1	0.0
32.5°	302.8	192.9	93.8	0.0
30°	313.5	198.3	96.5	0.0
27.5°	321.5	203.6	96.5	0.0
25°	329.6	209.0	99.1	0.0
22.5°	337.6	211.7	101.8	0.0
20°	345.6	217.0	104.5	0.0
17.5°	351.0	219.7	104.5	0.0
15°	356.4	222.4	109.9	0.0
12.5°	359.0	225.1	109.9	0.0
10°	364.4	230.4	109.9	0.0
7.5°	369.8	230.4	109.9	0.0
5°	369.8	230.4	109.9	0.0
2.5°	369.8	230.4	109.9	0.0
0°	369.8	230.4	109.9	0.0

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