

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: P623867

Luminaire Tested: **IFLD-L-SA8C-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623867
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	43988.4 lumens	Max Intensity:	24430.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	104.7 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:	19033.4 lumens	Field Lumens:	31166.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

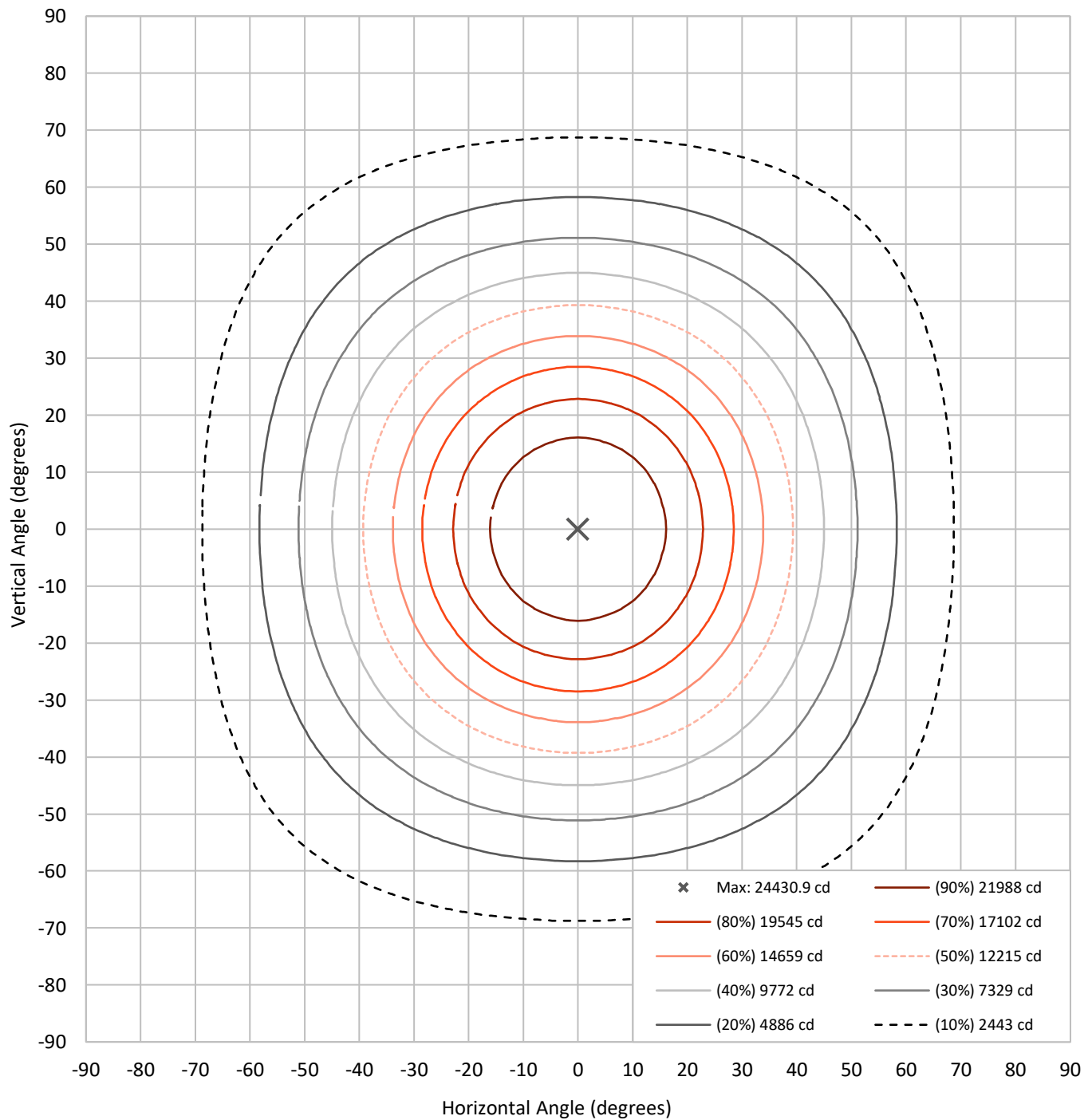
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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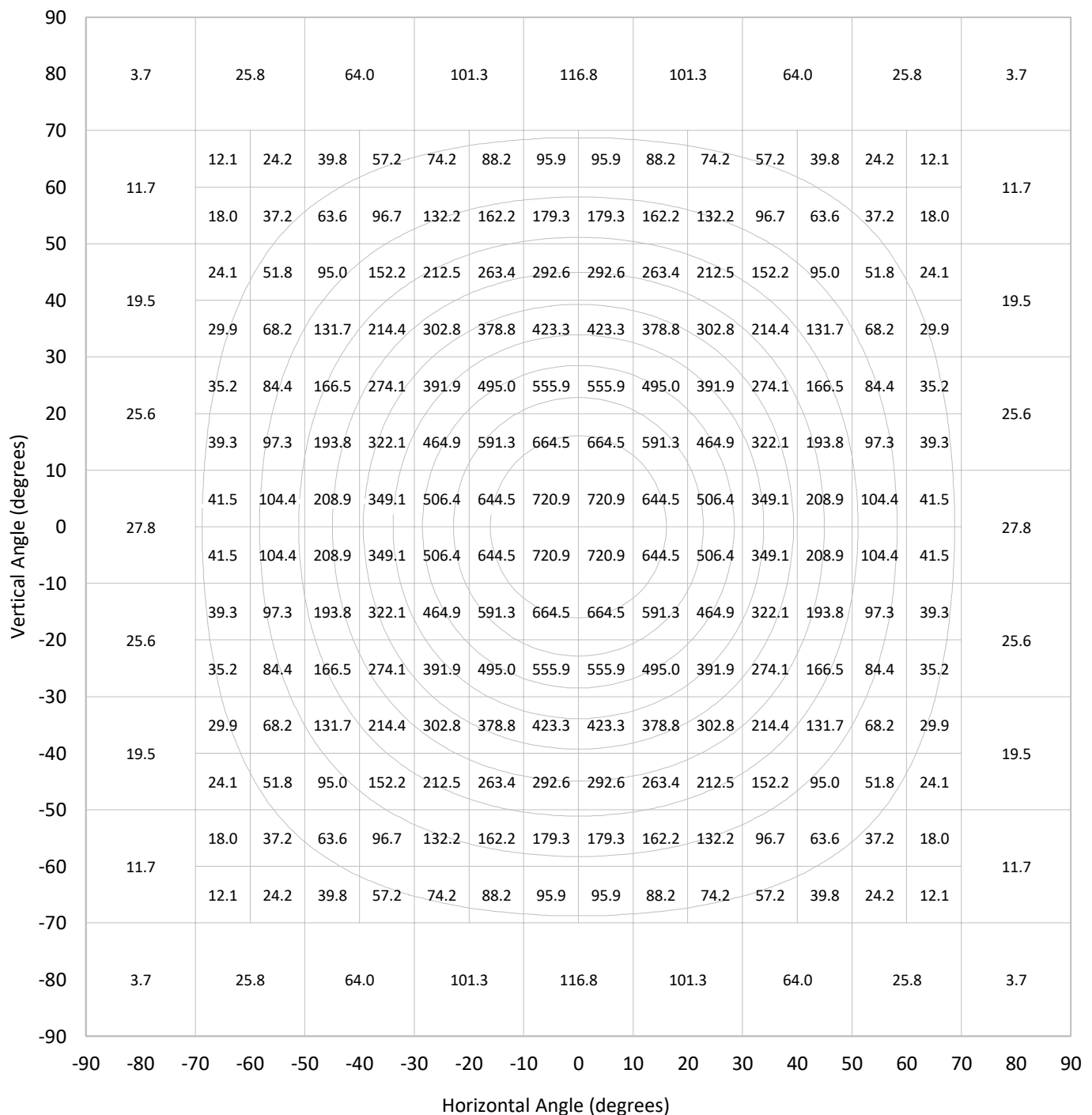
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Iso-Candela Plot



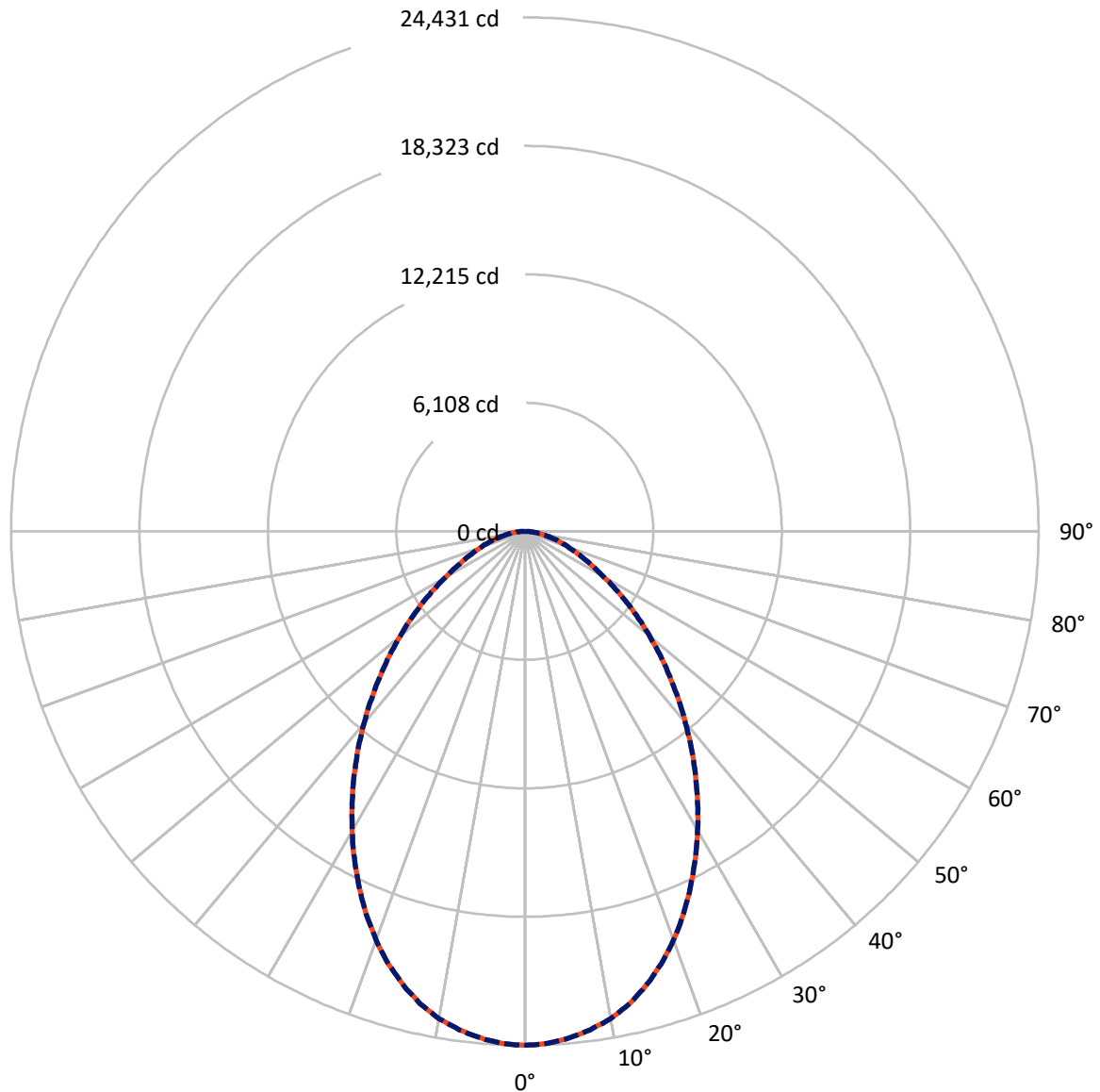
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Lumen Table



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Luminous Intensity Polar Plot

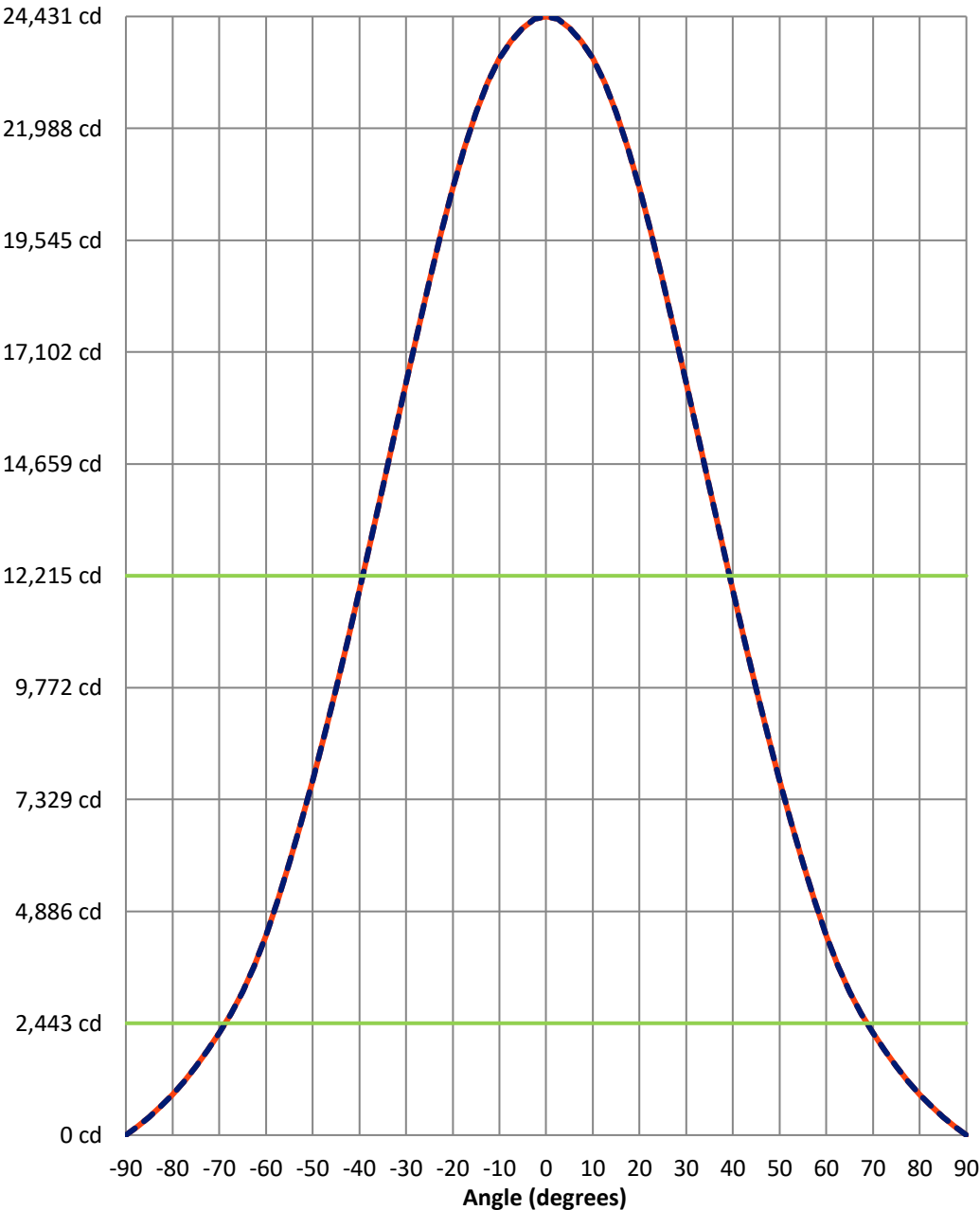


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 19033.4
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 31166.4
Efficiency: 70.9%

Spill:
Lumens: 12821.9
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°	188.0	188.0	188.0	188.0	188.0	188.0	188.0	178.9	178.9	174.3	169.7
85°	394.4	394.4	394.4	394.4	394.4	385.2	380.7	376.1	371.5	362.3	357.7
82.5°	632.9	632.9	632.9	632.9	623.7	614.6	610.0	600.8	591.6	577.9	564.1
80°	885.1	885.1	885.1	885.1	871.4	862.2	848.5	839.3	825.5	807.2	788.8
77.5°	1174.1	1174.1	1174.1	1160.3	1151.1	1137.4	1123.6	1105.3	1086.9	1064.0	1036.5
75°	1499.7	1499.7	1499.7	1481.4	1467.6	1453.8	1430.9	1408.0	1380.5	1348.4	1311.7
72.5°	1852.8	1852.8	1852.8	1829.9	1816.2	1793.2	1765.7	1733.6	1701.5	1660.2	1614.4
70°	2233.5	2233.5	2233.5	2206.0	2183.1	2160.1	2123.4	2086.7	2040.9	1995.0	1940.0
67.5°	2646.3	2646.3	2646.3	2614.2	2586.6	2554.5	2513.3	2467.4	2412.4	2348.2	2283.9
65°	3127.8	3127.8	3109.5	3082.0	3049.9	3004.0	2953.5	2889.3	2820.5	2738.0	2650.8
62.5°	3696.5	3696.5	3669.0	3636.9	3595.6	3536.0	3467.2	3384.6	3288.3	3182.9	3077.4
60°	4356.9	4356.9	4324.8	4283.6	4223.9	4150.5	4058.8	3953.3	3834.1	3701.1	3572.7
57.5°	5118.2	5118.2	5077.0	5021.9	4948.6	4856.8	4742.2	4609.2	4457.8	4292.7	4132.2
55°	5943.8	5943.8	5893.3	5829.1	5742.0	5631.9	5494.3	5338.4	5154.9	4966.9	4760.5
52.5°	6819.7	6819.7	6760.1	6686.7	6585.8	6457.4	6301.5	6118.0	5907.1	5686.9	5443.9
50°	7741.6	7741.6	7672.8	7590.2	7475.6	7324.2	7145.4	6934.4	6700.5	6443.7	6163.9
47.5°	8727.6	8727.6	8649.7	8553.3	8415.8	8241.5	8030.5	7787.4	7521.4	7232.5	6916.1
45°	9741.2	9741.2	9654.0	9544.0	9392.6	9195.4	8961.5	8727.6	8388.2	8053.4	7686.5
42.5°	10796.0	10796.0	10695.1	10571.3	10397.0	10181.5	9915.5	9612.8	9278.0	8901.9	8502.9
40°	11892.1	11892.1	11777.5	11635.3	11442.7	11195.0	10896.9	10557.5	10181.5	9764.1	9323.8
37.5°	13011.2	13011.2	12882.8	12726.8	12511.3	12236.1	11901.3	11525.2	11103.3	10640.1	10153.9
35°	14139.4	14139.4	13997.2	13827.5	13589.0	13286.3	12924.0	12506.7	12038.9	11534.4	10988.6
32.5°	15290.5	15290.5	15134.6	14942.0	14671.4	14336.6	13937.6	13483.6	13011.2	12424.1	11827.9
30°	16427.9	16427.9	16258.2	16047.3	15758.3	15391.4	14955.7	14455.8	13900.9	13300.1	12658.0
27.5°	17547.0	17501.1	17358.9	17134.2	16817.8	16427.9	15955.5	15414.4	14813.6	14153.1	13465.2
25°	18647.7	18597.2	18441.3	18193.6	17854.2	17427.7	16918.6	16340.8	15694.1	14997.0	14244.9
22.5°	19702.5	19647.5	19482.4	19216.4	18854.0	18390.8	17845.1	17225.9	16538.0	15790.4	14997.0
20°	20679.4	20619.7	20450.1	20170.3	19794.2	19303.5	18725.6	18060.6	17326.8	16538.0	15694.1
17.5°	21559.9	21500.3	21321.4	21032.5	20679.4	20133.6	19537.4	18835.7	18060.6	17225.9	16340.8
15°	22335.0	22270.8	22087.3	21798.4	21394.8	20881.2	20252.8	19537.4	18725.6	17845.1	16918.6
12.5°	22995.4	22931.2	22743.2	22454.2	22036.9	21523.2	20881.2	20133.6	19303.5	18390.8	17427.7
10°	23518.3	23454.0	23275.2	23000.0	22568.9	22036.9	21394.8	20679.4	19794.2	18854.0	17854.2
7.5°	23894.3	23834.7	23669.6	23394.4	23000.0	22454.2	21798.4	21032.5	20170.3	19216.4	18193.6
5°	24178.7	24109.9	23944.8	23669.6	23275.2	22743.2	22087.3	21321.4	20450.1	19482.4	18441.3
2.5°	24375.9	24293.3	24109.9	23834.7	23454.0	22931.2	22270.8	21500.3	20619.7	19647.5	18597.2
0°	24430.9	24375.9	24178.7	23894.3	23518.3	22995.4	22335.0	21559.9	20679.4	19702.5	18647.7

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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°	165.1	165.1	160.5	155.9	151.3	142.2	137.6	133.0	128.4	119.2	114.7
85°	348.6	339.4	330.2	321.0	307.3	298.1	284.3	275.2	261.4	247.7	233.9
82.5°	550.3	536.6	518.2	504.5	486.1	463.2	444.9	421.9	399.0	380.7	357.7
80°	770.5	747.6	724.6	701.7	674.2	646.7	619.1	591.6	559.5	527.4	495.3
77.5°	1009.0	976.9	944.8	908.1	876.0	839.3	802.6	765.9	724.6	683.4	642.1
75°	1275.0	1233.7	1187.8	1142.0	1100.7	1050.2	999.8	949.4	894.3	843.9	788.8
72.5°	1563.9	1513.5	1458.4	1403.4	1343.8	1279.6	1215.4	1146.6	1082.4	1018.1	949.4
70°	1875.8	1816.2	1747.4	1678.6	1605.2	1527.2	1449.3	1366.7	1284.1	1201.6	1119.0
67.5°	2210.6	2137.2	2054.6	1972.1	1880.4	1788.6	1696.9	1600.6	1499.7	1398.8	1302.5
65°	2568.3	2476.6	2380.3	2274.8	2169.3	2063.8	1953.7	1839.1	1724.4	1605.2	1499.7
62.5°	2967.3	2852.6	2728.8	2600.4	2481.2	2352.7	2233.5	2091.3	1953.7	1820.7	1687.7
60°	3430.5	3279.2	3127.8	2967.3	2816.0	2650.8	2504.1	2348.2	2192.2	2040.9	1884.9
57.5°	3948.8	3756.1	3572.7	3380.1	3178.3	2994.8	2806.8	2618.7	2444.5	2265.6	2095.9
55°	4535.8	4301.9	4072.6	3834.1	3600.2	3370.9	3132.4	2921.4	2705.9	2504.1	2306.9
52.5°	5177.9	4911.9	4627.5	4356.9	4058.8	3774.5	3508.5	3242.5	2990.2	2747.2	2522.4
50°	5865.8	5553.9	5228.3	4898.1	4558.7	4223.9	3902.9	3591.0	3297.5	3013.2	2747.2
47.5°	6581.3	6228.1	5856.6	5480.6	5118.2	4710.1	4324.8	3971.7	3618.5	3297.5	2990.2
45°	7315.1	6916.1	6507.9	6081.4	5654.8	5214.6	4788.0	4356.9	3971.7	3591.0	3242.5
42.5°	8071.8	7622.3	7168.3	6695.9	6223.5	5742.0	5260.4	4788.0	4324.8	3902.9	3508.5
40°	8851.4	8356.1	7837.9	7324.2	6819.7	6269.4	5742.0	5214.6	4710.1	4223.9	3774.5
37.5°	9631.1	9089.9	8530.4	7952.5	7374.7	6819.7	6223.5	5654.8	5118.2	4558.7	4058.8
35°	10415.4	9819.1	9213.8	8585.4	7952.5	7324.2	6695.9	6081.4	5480.6	4898.1	4356.9
32.5°	11204.2	10552.9	9883.4	9213.8	8530.4	7837.9	7168.3	6507.9	5856.6	5228.3	4627.5
30°	11979.3	11273.0	10552.9	9819.1	9089.9	8356.1	7622.3	6916.1	6228.1	5553.9	4911.9
27.5°	12736.0	11979.3	11204.2	10415.4	9631.1	8851.4	8071.8	7315.1	6581.3	5865.8	5177.9
25°	13465.2	12658.0	11827.9	10988.6	10153.9	9323.8	8502.9	7686.5	6916.1	6163.9	5443.9
22.5°	14153.1	13300.1	12424.1	11534.4	10640.1	9764.1	8901.9	8053.4	7232.5	6443.7	5686.9
20°	14813.6	13900.9	13011.2	12038.9	11103.3	10181.5	9278.0	8388.2	7521.4	6700.5	5907.1
17.5°	15414.4	14455.8	13483.6	12506.7	11525.2	10557.5	9612.8	8727.6	7787.4	6934.4	6118.0
15°	15955.5	14955.7	13937.6	12924.0	11901.3	10896.9	9915.5	8961.5	8030.5	7145.4	6301.5
12.5°	16427.9	15391.4	14336.6	13286.3	12236.1	11195.0	10181.5	9195.4	8241.5	7324.2	6457.4
10°	16817.8	15758.3	14671.4	13589.0	12511.3	11442.7	10397.0	9392.6	8415.8	7475.6	6585.8
7.5°	17134.2	16047.3	14942.0	13827.5	12726.8	11635.3	10571.3	9544.0	8553.3	7590.2	6686.7
5°	17358.9	16258.2	15134.6	13997.2	12882.8	11777.5	10695.1	9654.0	8649.7	7672.8	6760.1
2.5°	17501.1	16427.9	15290.5	14139.4	13011.2	11892.1	10796.0	9741.2	8727.6	7741.6	6819.7
0°	17547.0	16427.9	15290.5	14139.4	13011.2	11892.1	10796.0	9741.2	8727.6	7741.6	6819.7

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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°	110.1	100.9	91.7	87.1	78.0	73.4	64.2	55.0	50.4	41.3	32.1
85°	220.1	201.8	188.0	174.3	160.5	142.2	128.4	114.7	96.3	82.6	64.2
82.5°	334.8	311.9	288.9	266.0	243.1	220.1	192.6	169.7	146.8	123.8	96.3
80°	463.2	426.5	394.4	362.3	330.2	298.1	261.4	229.3	192.6	160.5	128.4
77.5°	596.2	554.9	509.1	463.2	417.3	376.1	330.2	288.9	247.7	201.8	160.5
75°	738.4	683.4	632.9	573.3	518.2	458.6	403.6	348.6	298.1	247.7	192.6
72.5°	885.1	816.4	747.6	683.4	614.6	545.8	481.6	412.8	348.6	288.9	229.3
70°	1036.5	953.9	871.4	793.4	715.5	632.9	559.5	481.6	403.6	330.2	261.4
67.5°	1197.0	1100.7	1004.4	903.5	816.4	724.6	632.9	545.8	458.6	376.1	298.1
65°	1371.3	1256.6	1137.4	1031.9	917.2	816.4	715.5	614.6	518.2	417.3	330.2
62.5°	1550.1	1417.1	1284.1	1151.1	1031.9	903.5	793.4	683.4	573.3	463.2	362.3
60°	1733.6	1582.3	1430.9	1284.1	1137.4	1004.4	871.4	747.6	632.9	509.1	394.4
57.5°	1921.6	1751.9	1582.3	1417.1	1256.6	1100.7	953.9	816.4	683.4	554.9	426.5
55°	2114.3	1921.6	1733.6	1550.1	1371.3	1197.0	1036.5	885.1	738.4	596.2	463.2
52.5°	2306.9	2095.9	1884.9	1687.7	1499.7	1302.5	1119.0	949.4	788.8	642.1	495.3
50°	2504.1	2265.6	2040.9	1820.7	1605.2	1398.8	1201.6	1018.1	843.9	683.4	527.4
47.5°	2705.9	2444.5	2192.2	1953.7	1724.4	1499.7	1284.1	1082.4	894.3	724.6	559.5
45°	2921.4	2618.7	2348.2	2091.3	1839.1	1600.6	1366.7	1146.6	949.4	765.9	591.6
42.5°	3132.4	2806.8	2504.1	2233.5	1953.7	1696.9	1449.3	1215.4	999.8	802.6	619.1
40°	3370.9	2994.8	2650.8	2352.7	2063.8	1788.6	1527.2	1279.6	1050.2	839.3	646.7
37.5°	3600.2	3178.3	2816.0	2481.2	2169.3	1880.4	1605.2	1343.8	1100.7	876.0	674.2
35°	3834.1	3380.1	2967.3	2600.4	2274.8	1972.1	1678.6	1403.4	1142.0	908.1	701.7
32.5°	4072.6	3572.7	3127.8	2728.8	2380.3	2054.6	1747.4	1458.4	1187.8	944.8	724.6
30°	4301.9	3756.1	3279.2	2852.6	2476.6	2137.2	1816.2	1513.5	1233.7	976.9	747.6
27.5°	4535.8	3948.8	3430.5	2967.3	2568.3	2210.6	1875.8	1563.9	1275.0	1009.0	770.5
25°	4760.5	4132.2	3572.7	3077.4	2650.8	2283.9	1940.0	1614.4	1311.7	1036.5	788.8
22.5°	4966.9	4292.7	3701.1	3182.9	2738.0	2348.2	1995.0	1660.2	1348.4	1064.0	807.2
20°	5154.9	4457.8	3834.1	3288.3	2820.5	2412.4	2040.9	1701.5	1380.5	1086.9	825.5
17.5°	5338.4	4609.2	3953.3	3384.6	2889.3	2467.4	2086.7	1733.6	1408.0	1105.3	839.3
15°	5494.3	4742.2	4058.8	3467.2	2953.5	2513.3	2123.4	1765.7	1430.9	1123.6	848.5
12.5°	5631.9	4856.8	4150.5	3536.0	3004.0	2554.5	2160.1	1793.2	1453.8	1137.4	862.2
10°	5742.0	4948.6	4223.9	3595.6	3049.9	2586.6	2183.1	1816.2	1467.6	1151.1	871.4
7.5°	5829.1	5021.9	4283.6	3636.9	3082.0	2614.2	2206.0	1829.9	1481.4	1160.3	885.1
5°	5893.3	5077.0	4324.8	3669.0	3109.5	2646.3	2233.5	1852.8	1499.7	1174.1	885.1
2.5°	5943.8	5118.2	4356.9	3696.5	3127.8	2646.3	2233.5	1852.8	1499.7	1174.1	885.1
0°	5943.8	5118.2	4356.9	3696.5	3127.8	2646.3	2233.5	1852.8	1499.7	1174.1	885.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.9	18.3	9.2	0.0
85°	50.4	32.1	18.3	0.0
82.5°	73.4	50.4	22.9	0.0
80°	96.3	64.2	32.1	0.0
77.5°	123.8	82.6	41.3	0.0
75°	146.8	96.3	50.4	0.0
72.5°	169.7	114.7	55.0	0.0
70°	192.6	128.4	64.2	0.0
67.5°	220.1	142.2	73.4	0.0
65°	243.1	160.5	78.0	0.0
62.5°	266.0	174.3	87.1	0.0
60°	288.9	188.0	91.7	0.0
57.5°	311.9	201.8	100.9	0.0
55°	334.8	220.1	110.1	0.0
52.5°	357.7	233.9	114.7	0.0
50°	380.7	247.7	119.2	0.0
47.5°	399.0	261.4	128.4	0.0
45°	421.9	275.2	133.0	0.0
42.5°	444.9	284.3	137.6	0.0
40°	463.2	298.1	142.2	0.0
37.5°	486.1	307.3	151.3	0.0
35°	504.5	321.0	155.9	0.0
32.5°	518.2	330.2	160.5	0.0
30°	536.6	339.4	165.1	0.0
27.5°	550.3	348.6	165.1	0.0
25°	564.1	357.7	169.7	0.0
22.5°	577.9	362.3	174.3	0.0
20°	591.6	371.5	178.9	0.0
17.5°	600.8	376.1	178.9	0.0
15°	610.0	380.7	188.0	0.0
12.5°	614.6	385.2	188.0	0.0
10°	623.7	394.4	188.0	0.0
7.5°	632.9	394.4	188.0	0.0
5°	632.9	394.4	188.0	0.0
2.5°	632.9	394.4	188.0	0.0
0°	632.9	394.4	188.0	0.0

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