

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: P623909

Luminaire Tested: **IFLD-S-SA6B-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623909
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34179.7 lumens	Max Intensity:	18983.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	14789.2 lumens	Field Lumens:	24216.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

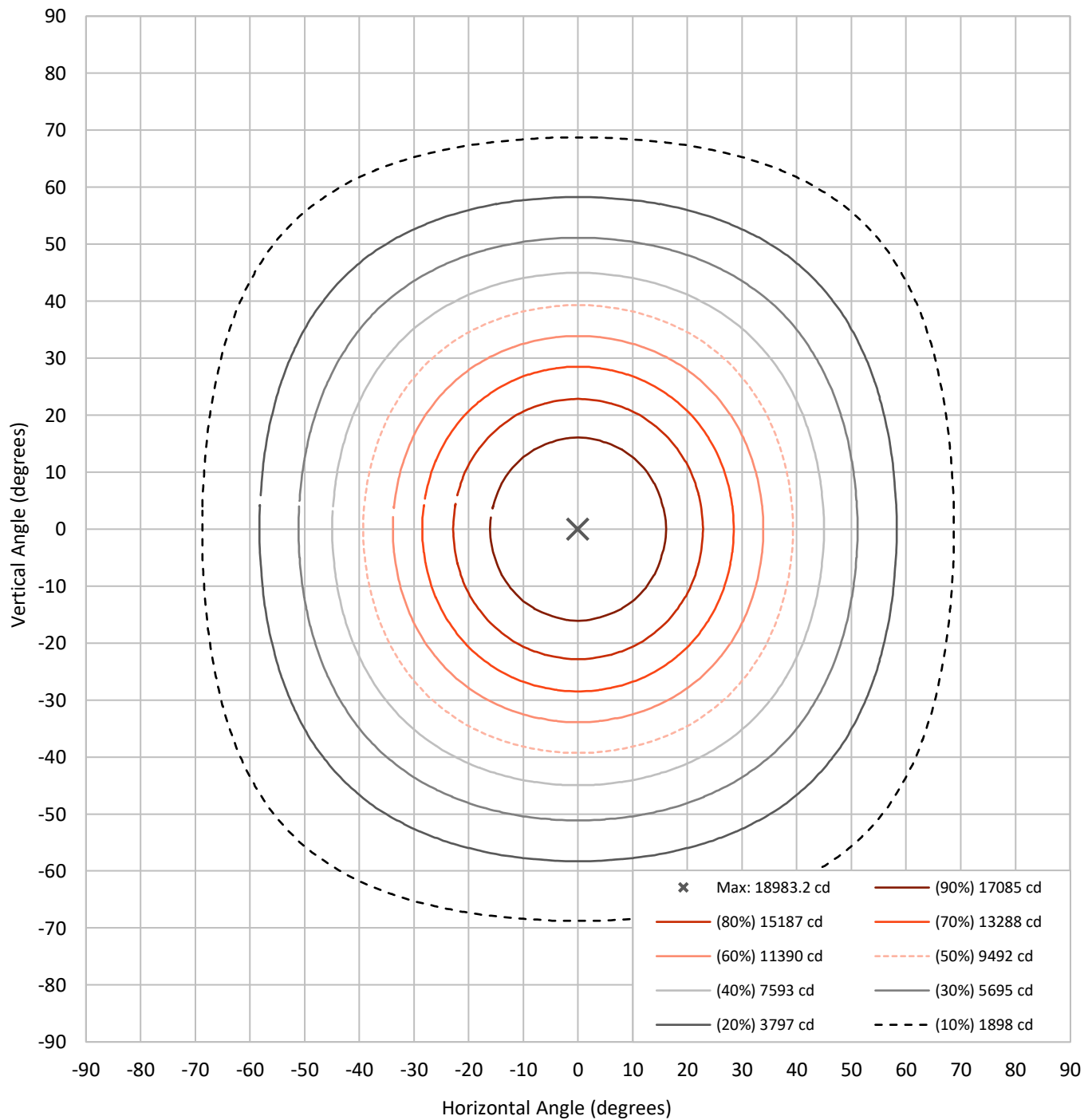
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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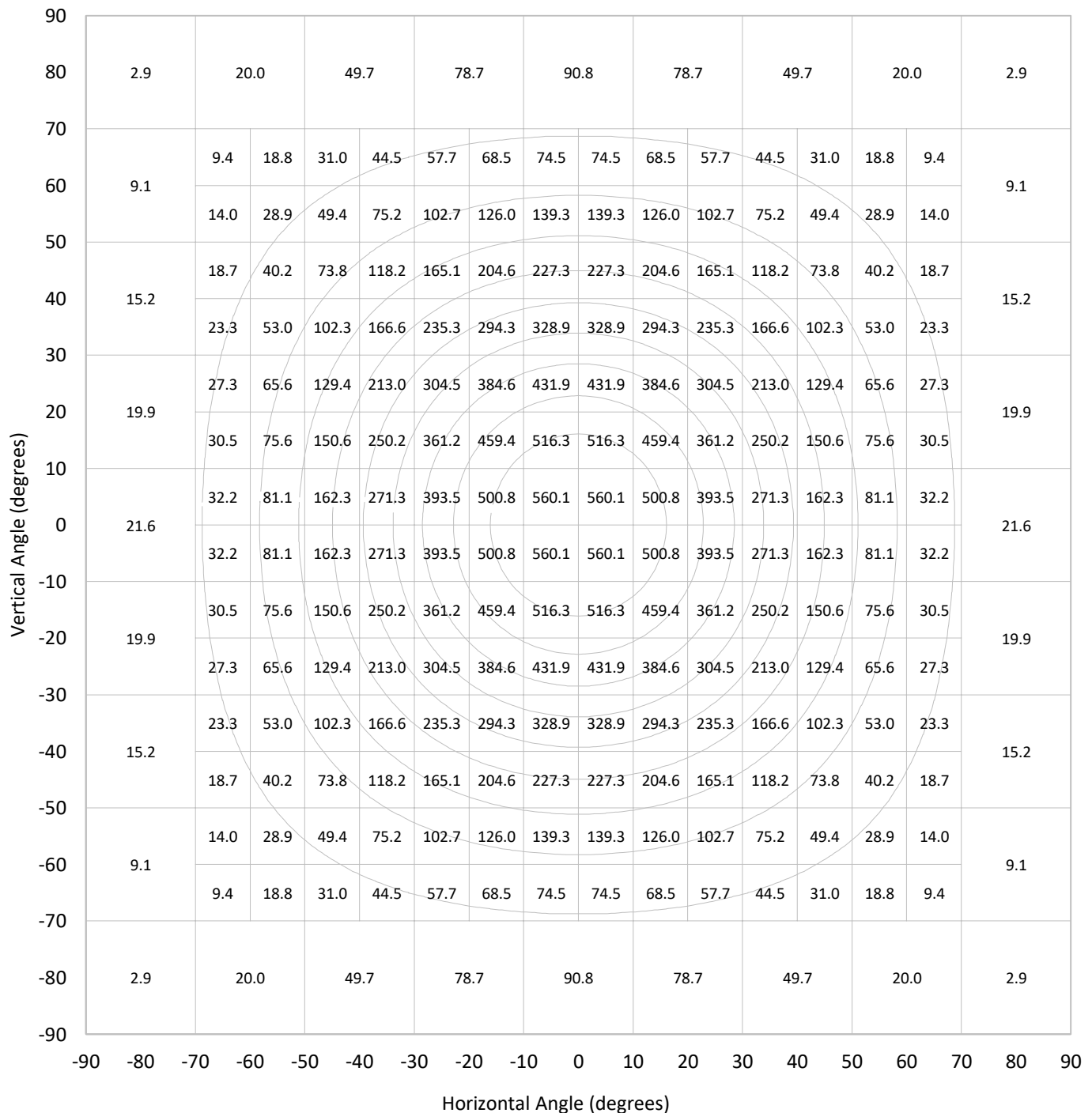
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Iso-Candela Plot



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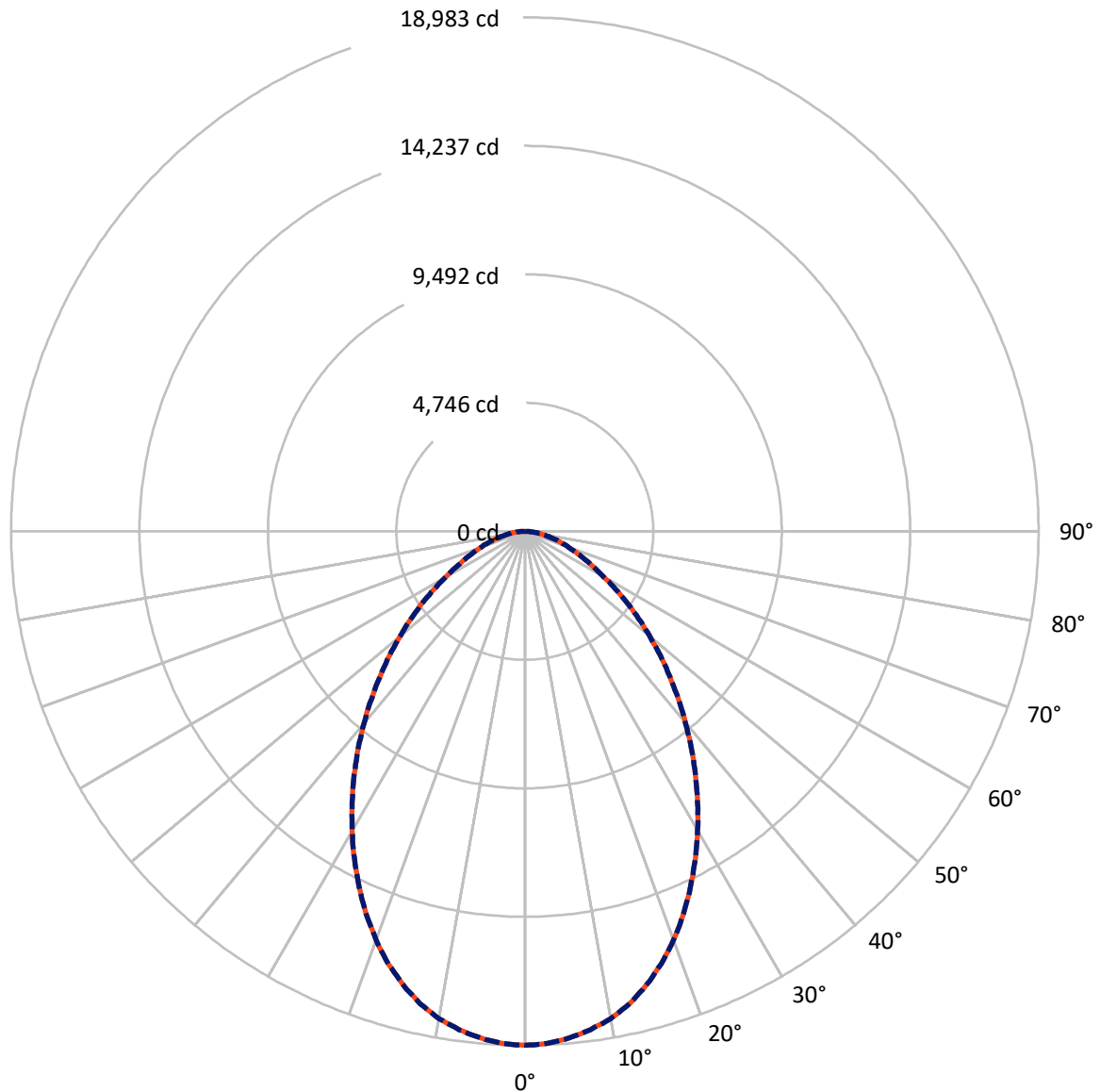
Lumen Table



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Luminous Intensity Polar Plot

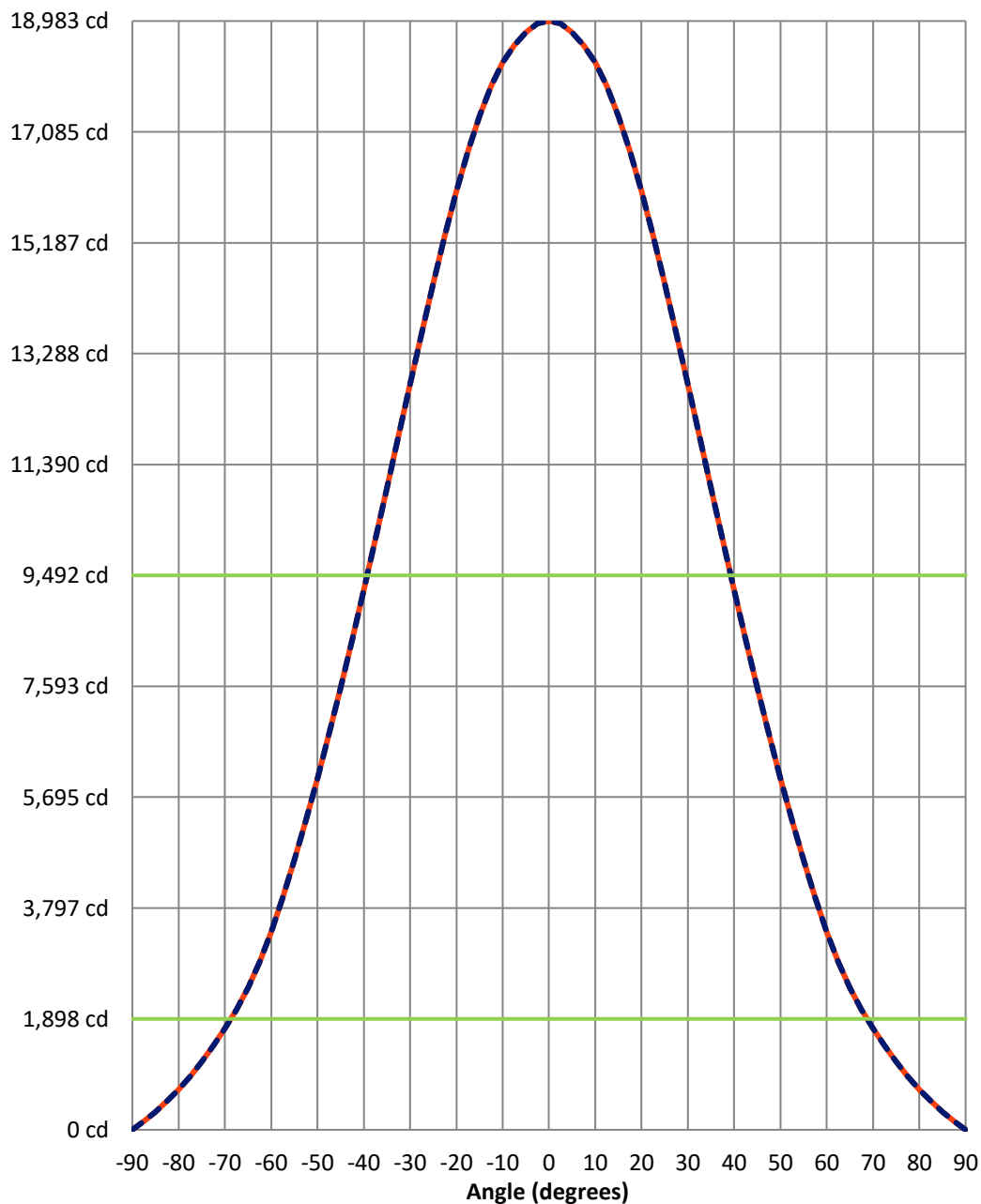


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 14789.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 24216.8
Efficiency: 70.9%

Spill:

Lumens: 9962.9
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°	146.1	146.1	146.1	146.1	146.1	146.1	146.1	139.0	139.0	135.4	131.9
85°	306.5	306.5	306.5	306.5	306.5	299.3	295.8	292.2	288.7	281.5	278.0
82.5°	491.8	491.8	491.8	491.8	484.6	477.5	474.0	466.8	459.7	449.0	438.3
80°	687.8	687.8	687.8	687.8	677.1	670.0	659.3	652.1	641.4	627.2	612.9
77.5°	912.3	912.3	912.3	901.6	894.5	883.8	873.1	858.8	844.6	826.8	805.4
75°	1165.3	1165.3	1165.3	1151.0	1140.3	1129.7	1111.8	1094.0	1072.6	1047.7	1019.2
72.5°	1439.7	1439.7	1439.7	1421.9	1411.2	1393.4	1372.0	1347.0	1322.1	1290.0	1254.4
70°	1735.5	1735.5	1735.5	1714.1	1696.3	1678.4	1649.9	1621.4	1585.8	1550.2	1507.4
67.5°	2056.2	2056.2	2056.2	2031.2	2009.9	1984.9	1952.8	1917.2	1874.4	1824.6	1774.7
65°	2430.4	2430.4	2416.1	2394.7	2369.8	2334.1	2294.9	2245.1	2191.6	2127.5	2059.8
62.5°	2872.2	2872.2	2850.9	2825.9	2793.8	2747.5	2694.1	2629.9	2555.1	2473.1	2391.2
60°	3385.4	3385.4	3360.5	3328.4	3282.1	3225.0	3153.8	3071.8	2979.2	2875.8	2776.0
57.5°	3977.0	3977.0	3944.9	3902.1	3845.1	3773.8	3684.7	3581.4	3463.8	3335.5	3210.8
55°	4618.4	4618.4	4579.2	4529.3	4461.6	4376.1	4269.2	4148.0	4005.5	3859.4	3699.0
52.5°	5299.0	5299.0	5252.7	5195.7	5117.3	5017.5	4896.4	4753.8	4589.9	4418.8	4230.0
50°	6015.3	6015.3	5961.9	5897.7	5808.6	5691.0	5552.1	5388.1	5206.4	5006.8	4789.5
47.5°	6781.5	6781.5	6720.9	6646.1	6539.2	6403.8	6239.8	6051.0	5844.3	5619.8	5373.9
45°	7569.0	7569.0	7501.3	7415.8	7298.2	7145.0	6963.2	6781.5	6517.8	6257.7	5972.6
42.5°	8388.7	8388.7	8310.3	8214.1	8078.6	7911.2	7704.5	7469.3	7209.1	6916.9	6606.9
40°	9240.4	9240.4	9151.3	9040.8	8891.1	8698.7	8467.1	8203.4	7911.2	7586.9	7244.8
37.5°	10109.9	10109.9	10010.1	9888.9	9721.5	9507.6	9247.5	8955.3	8627.4	8267.5	7889.8
35°	10986.5	10986.5	10876.1	10744.2	10558.9	10323.7	10042.2	9717.9	9354.4	8962.4	8538.3
32.5°	11881.0	11881.0	11759.8	11610.2	11399.9	11139.8	10829.7	10476.9	10109.9	9653.7	9190.5
30°	12764.8	12764.8	12632.9	12469.0	12244.5	11959.4	11620.8	11232.4	10801.2	10334.4	9835.5
27.5°	13634.3	13598.6	13488.2	13313.5	13067.7	12764.8	12397.7	11977.2	11510.4	10997.2	10462.7
25°	14489.5	14450.3	14329.2	14136.7	13873.0	13541.6	13146.1	12697.0	12194.6	11652.9	11068.5
22.5°	15309.1	15266.4	15138.1	14931.4	14649.9	14290.0	13865.9	13384.8	12850.3	12269.4	11652.9
20°	16068.2	16021.9	15890.0	15672.6	15380.4	14999.1	14550.1	14033.4	13463.2	12850.3	12194.6
17.5°	16752.4	16706.1	16567.1	16342.6	16068.2	15644.1	15180.9	14635.6	14033.4	13384.8	12697.0
15°	17354.6	17304.8	17162.2	16937.7	16624.1	16225.0	15736.8	15180.9	14550.1	13865.9	13146.1
12.5°	17867.8	17817.9	17671.8	17447.3	17123.0	16723.9	16225.0	15644.1	14999.1	14290.0	13541.6
10°	18274.1	18224.2	18085.2	17871.4	17536.4	17123.0	16624.1	16068.2	15380.4	14649.9	13873.0
7.5°	18566.3	18519.9	18391.6	18177.8	17871.4	17447.3	16937.7	16342.6	15672.6	14931.4	14136.7
5°	18787.2	18733.8	18605.5	18391.6	18085.2	17671.8	17162.2	16567.1	15890.0	15138.1	14329.2
2.5°	18940.4	18876.3	18733.8	18519.9	18224.2	17817.9	17304.8	16706.1	16021.9	15266.4	14450.3
0°	18983.2	18940.4	18787.2	18566.3	18274.1	17867.8	17354.6	16752.4	16068.2	15309.1	14489.5

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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°	128.3	128.3	124.7	121.2	117.6	110.5	106.9	103.3	99.8	92.7	89.1
85°	270.8	263.7	256.6	249.5	238.8	231.6	220.9	213.8	203.1	192.4	181.7
82.5°	427.6	416.9	402.7	392.0	377.7	359.9	345.7	327.8	310.0	295.8	278.0
80°	598.7	580.9	563.0	545.2	523.8	502.5	481.1	459.7	434.8	409.8	384.9
77.5°	784.0	759.0	734.1	705.6	680.6	652.1	623.6	595.1	563.0	531.0	498.9
75°	990.7	958.6	923.0	887.3	855.3	816.1	776.9	737.7	694.9	655.7	612.9
72.5°	1215.2	1176.0	1133.2	1090.5	1044.1	994.2	944.3	890.9	841.0	791.1	737.7
70°	1457.5	1411.2	1357.7	1304.3	1247.3	1186.7	1126.1	1061.9	997.8	933.7	869.5
67.5°	1717.6	1660.6	1596.5	1532.3	1461.1	1389.8	1318.5	1243.7	1165.3	1086.9	1012.1
65°	1995.6	1924.3	1849.5	1767.5	1685.6	1603.6	1518.1	1429.0	1339.9	1247.3	1165.3
62.5°	2305.6	2216.5	2120.3	2020.6	1927.9	1828.1	1735.5	1625.0	1518.1	1414.7	1311.4
60°	2665.6	2548.0	2430.4	2305.6	2188.0	2059.8	1945.7	1824.6	1703.4	1585.8	1464.6
57.5°	3068.2	2918.6	2776.0	2626.4	2469.6	2327.0	2180.9	2034.8	1899.4	1760.4	1628.6
55°	3524.4	3342.6	3164.5	2979.2	2797.4	2619.2	2433.9	2270.0	2102.5	1945.7	1792.5
52.5°	4023.3	3816.6	3595.7	3385.4	3153.8	2932.8	2726.1	2519.5	2323.5	2134.6	1960.0
50°	4557.8	4315.5	4062.5	3805.9	3542.2	3282.1	3032.6	2790.3	2562.2	2341.3	2134.6
47.5°	5113.7	4839.3	4550.7	4258.5	3977.0	3659.8	3360.5	3086.1	2811.7	2562.2	2323.5
45°	5683.9	5373.9	5056.7	4725.3	4393.9	4051.8	3720.4	3385.4	3086.1	2790.3	2519.5
42.5°	6271.9	5922.7	5569.9	5202.8	4835.8	4461.6	4087.4	3720.4	3360.5	3032.6	2726.1
40°	6877.7	6492.8	6090.2	5691.0	5299.0	4871.4	4461.6	4051.8	3659.8	3282.1	2932.8
37.5°	7483.5	7063.0	6628.3	6179.3	5730.2	5299.0	4835.8	4393.9	3977.0	3542.2	3153.8
35°	8092.9	7629.6	7159.2	6671.0	6179.3	5691.0	5202.8	4725.3	4258.5	3805.9	3385.4
32.5°	8705.8	8199.8	7679.5	7159.2	6628.3	6090.2	5569.9	5056.7	4550.7	4062.5	3595.7
30°	9308.1	8759.3	8199.8	7629.6	7063.0	6492.8	5922.7	5373.9	4839.3	4315.5	3816.6
27.5°	9896.1	9308.1	8705.8	8092.9	7483.5	6877.7	6271.9	5683.9	5113.7	4557.8	4023.3
25°	10462.7	9835.5	9190.5	8538.3	7889.8	7244.8	6606.9	5972.6	5373.9	4789.5	4230.0
22.5°	10997.2	10334.4	9653.7	8962.4	8267.5	7586.9	6916.9	6257.7	5619.8	5006.8	4418.8
20°	11510.4	10801.2	10109.9	9354.4	8627.4	7911.2	7209.1	6517.8	5844.3	5206.4	4589.9
17.5°	11977.2	11232.4	10476.9	9717.9	8955.3	8203.4	7469.3	6781.5	6051.0	5388.1	4753.8
15°	12397.7	11620.8	10829.7	10042.2	9247.5	8467.1	7704.5	6963.2	6239.8	5552.1	4896.4
12.5°	12764.8	11959.4	11139.8	10323.7	9507.6	8698.7	7911.2	7145.0	6403.8	5691.0	5017.5
10°	13067.7	12244.5	11399.9	10558.9	9721.5	8891.1	8078.6	7298.2	6539.2	5808.6	5117.3
7.5°	13313.5	12469.0	11610.2	10744.2	9888.9	9040.8	8214.1	7415.8	6646.1	5897.7	5195.7
5°	13488.2	12632.9	11759.8	10876.1	10010.1	9151.3	8310.3	7501.3	6720.9	5961.9	5252.7
2.5°	13598.6	12764.8	11881.0	10986.5	10109.9	9240.4	8388.7	7569.0	6781.5	6015.3	5299.0
0°	13634.3	12764.8	11881.0	10986.5	10109.9	9240.4	8388.7	7569.0	6781.5	6015.3	5299.0

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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°	85.5	78.4	71.3	67.7	60.6	57.0	49.9	42.8	39.2	32.1	24.9
85°	171.1	156.8	146.1	135.4	124.7	110.5	99.8	89.1	74.8	64.1	49.9
82.5°	260.1	242.3	224.5	206.7	188.9	171.1	149.7	131.9	114.0	96.2	74.8
80°	359.9	331.4	306.5	281.5	256.6	231.6	203.1	178.2	149.7	124.7	99.8
77.5°	463.3	431.2	395.6	359.9	324.3	292.2	256.6	224.5	192.4	156.8	124.7
75°	573.7	531.0	491.8	445.4	402.7	356.4	313.6	270.8	231.6	192.4	149.7
72.5°	687.8	634.3	580.9	531.0	477.5	424.1	374.2	320.7	270.8	224.5	178.2
70°	805.4	741.2	677.1	616.5	555.9	491.8	434.8	374.2	313.6	256.6	203.1
67.5°	930.1	855.3	780.4	702.0	634.3	563.0	491.8	424.1	356.4	292.2	231.6
65°	1065.5	976.4	883.8	801.8	712.7	634.3	555.9	477.5	402.7	324.3	256.6
62.5°	1204.5	1101.1	997.8	894.5	801.8	702.0	616.5	531.0	445.4	359.9	281.5
60°	1347.0	1229.4	1111.8	997.8	883.8	780.4	677.1	580.9	491.8	395.6	306.5
57.5°	1493.1	1361.3	1229.4	1101.1	976.4	855.3	741.2	634.3	531.0	431.2	331.4
55°	1642.8	1493.1	1347.0	1204.5	1065.5	930.1	805.4	687.8	573.7	463.3	359.9
52.5°	1792.5	1628.6	1464.6	1311.4	1165.3	1012.1	869.5	737.7	612.9	498.9	384.9
50°	1945.7	1760.4	1585.8	1414.7	1247.3	1086.9	933.7	791.1	655.7	531.0	409.8
47.5°	2102.5	1899.4	1703.4	1518.1	1339.9	1165.3	997.8	841.0	694.9	563.0	434.8
45°	2270.0	2034.8	1824.6	1625.0	1429.0	1243.7	1061.9	890.9	737.7	595.1	459.7
42.5°	2433.9	2180.9	1945.7	1735.5	1518.1	1318.5	1126.1	944.3	776.9	623.6	481.1
40°	2619.2	2327.0	2059.8	1828.1	1603.6	1389.8	1186.7	994.2	816.1	652.1	502.5
37.5°	2797.4	2469.6	2188.0	1927.9	1685.6	1461.1	1247.3	1044.1	855.3	680.6	523.8
35°	2979.2	2626.4	2305.6	2020.6	1767.5	1532.3	1304.3	1090.5	887.3	705.6	545.2
32.5°	3164.5	2776.0	2430.4	2120.3	1849.5	1596.5	1357.7	1133.2	923.0	734.1	563.0
30°	3342.6	2918.6	2548.0	2216.5	1924.3	1660.6	1411.2	1176.0	958.6	759.0	580.9
27.5°	3524.4	3068.2	2665.6	2305.6	1995.6	1717.6	1457.5	1215.2	990.7	784.0	598.7
25°	3699.0	3210.8	2776.0	2391.2	2059.8	1774.7	1507.4	1254.4	1019.2	805.4	612.9
22.5°	3859.4	3335.5	2875.8	2473.1	2127.5	1824.6	1550.2	1290.0	1047.7	826.8	627.2
20°	4005.5	3463.8	2979.2	2555.1	2191.6	1874.4	1585.8	1322.1	1072.6	844.6	641.4
17.5°	4148.0	3581.4	3071.8	2629.9	2245.1	1917.2	1621.4	1347.0	1094.0	858.8	652.1
15°	4269.2	3684.7	3153.8	2694.1	2294.9	1952.8	1649.9	1372.0	1111.8	873.1	659.3
12.5°	4376.1	3773.8	3225.0	2747.5	2334.1	1984.9	1678.4	1393.4	1129.7	883.8	670.0
10°	4461.6	3845.1	3282.1	2793.8	2369.8	2009.9	1696.3	1411.2	1140.3	894.5	677.1
7.5°	4529.3	3902.1	3328.4	2825.9	2394.7	2031.2	1714.1	1421.9	1151.0	901.6	687.8
5°	4579.2	3944.9	3360.5	2850.9	2416.1	2056.2	1735.5	1439.7	1165.3	912.3	687.8
2.5°	4618.4	3977.0	3385.4	2872.2	2430.4	2056.2	1735.5	1439.7	1165.3	912.3	687.8
0°	4618.4	3977.0	3385.4	2872.2	2430.4	2056.2	1735.5	1439.7	1165.3	912.3	687.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.8	14.3	7.1	0.0
85°	39.2	24.9	14.3	0.0
82.5°	57.0	39.2	17.8	0.0
80°	74.8	49.9	24.9	0.0
77.5°	96.2	64.1	32.1	0.0
75°	114.0	74.8	39.2	0.0
72.5°	131.9	89.1	42.8	0.0
70°	149.7	99.8	49.9	0.0
67.5°	171.1	110.5	57.0	0.0
65°	188.9	124.7	60.6	0.0
62.5°	206.7	135.4	67.7	0.0
60°	224.5	146.1	71.3	0.0
57.5°	242.3	156.8	78.4	0.0
55°	260.1	171.1	85.5	0.0
52.5°	278.0	181.7	89.1	0.0
50°	295.8	192.4	92.7	0.0
47.5°	310.0	203.1	99.8	0.0
45°	327.8	213.8	103.3	0.0
42.5°	345.7	220.9	106.9	0.0
40°	359.9	231.6	110.5	0.0
37.5°	377.7	238.8	117.6	0.0
35°	392.0	249.5	121.2	0.0
32.5°	402.7	256.6	124.7	0.0
30°	416.9	263.7	128.3	0.0
27.5°	427.6	270.8	128.3	0.0
25°	438.3	278.0	131.9	0.0
22.5°	449.0	281.5	135.4	0.0
20°	459.7	288.7	139.0	0.0
17.5°	466.8	292.2	139.0	0.0
15°	474.0	295.8	146.1	0.0
12.5°	477.5	299.3	146.1	0.0
10°	484.6	306.5	146.1	0.0
7.5°	491.8	306.5	146.1	0.0
5°	491.8	306.5	146.1	0.0
2.5°	491.8	306.5	146.1	0.0
0°	491.8	306.5	146.1	0.0

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