

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: P623824

Luminaire Tested: **IFLD-S-SA6D-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623824
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

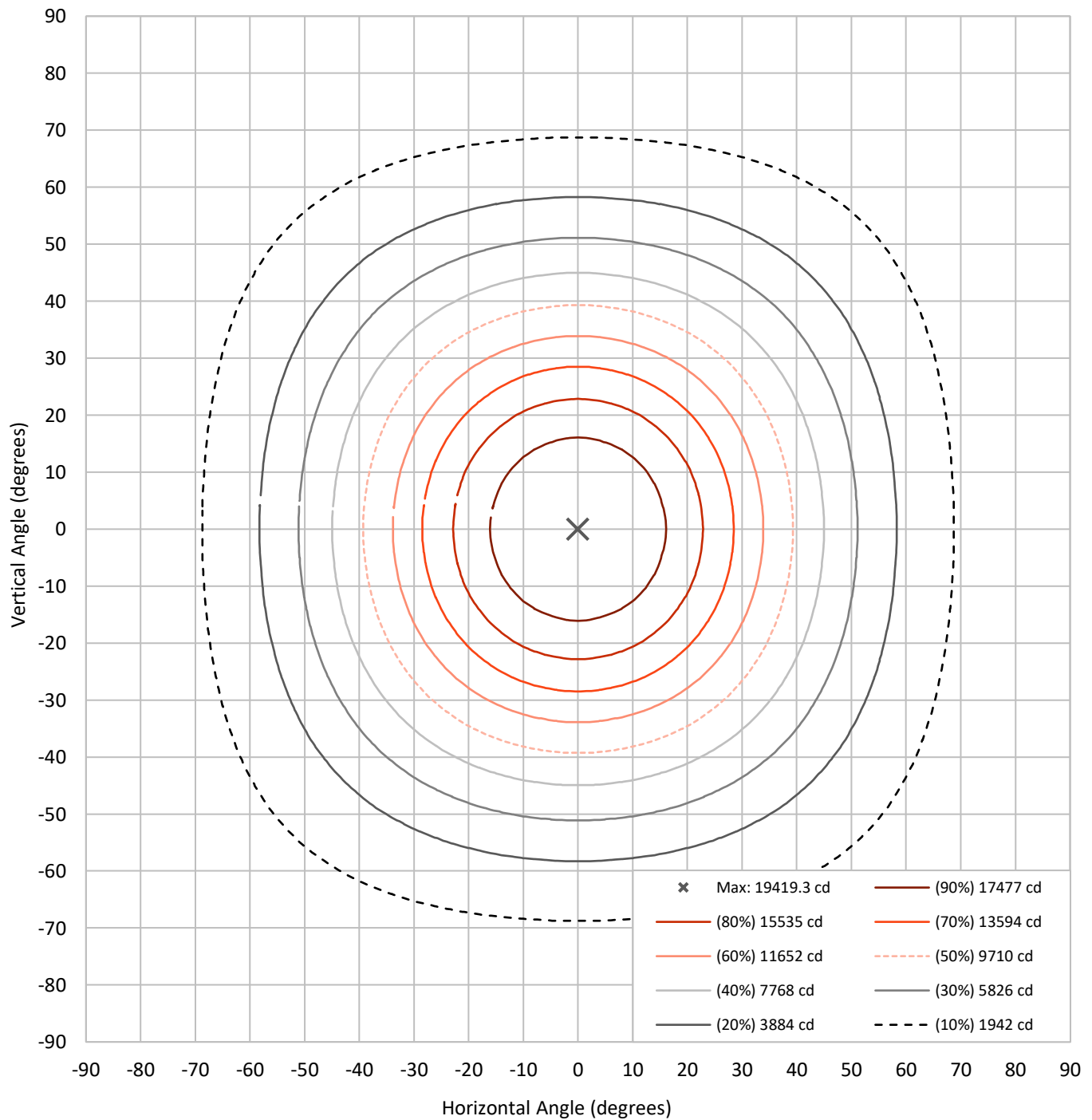
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34964.9 lumens	Max Intensity:	19419.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	15129 lumens	Field Lumens:	24773.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	368.2		
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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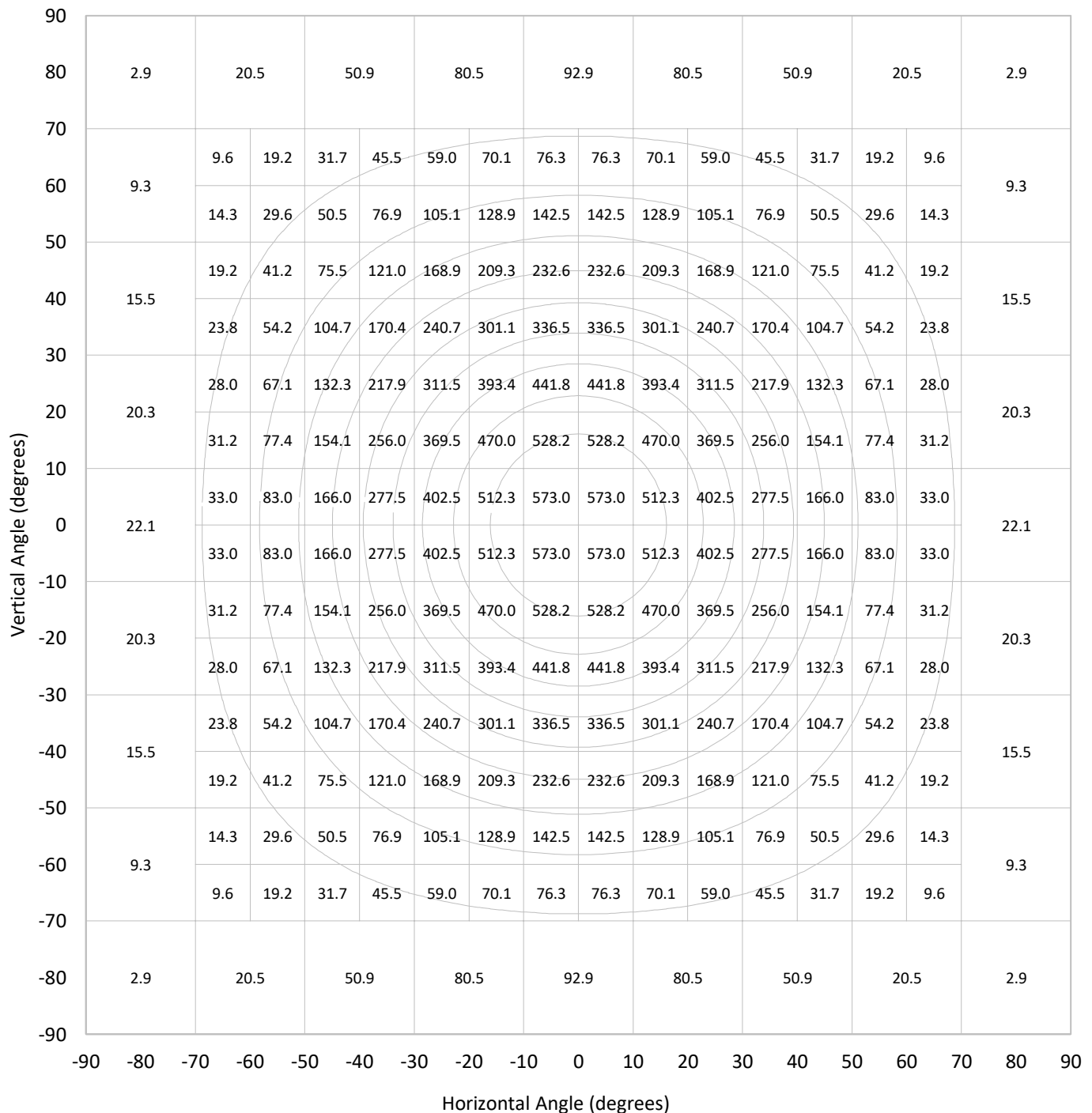
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Iso-Candela Plot



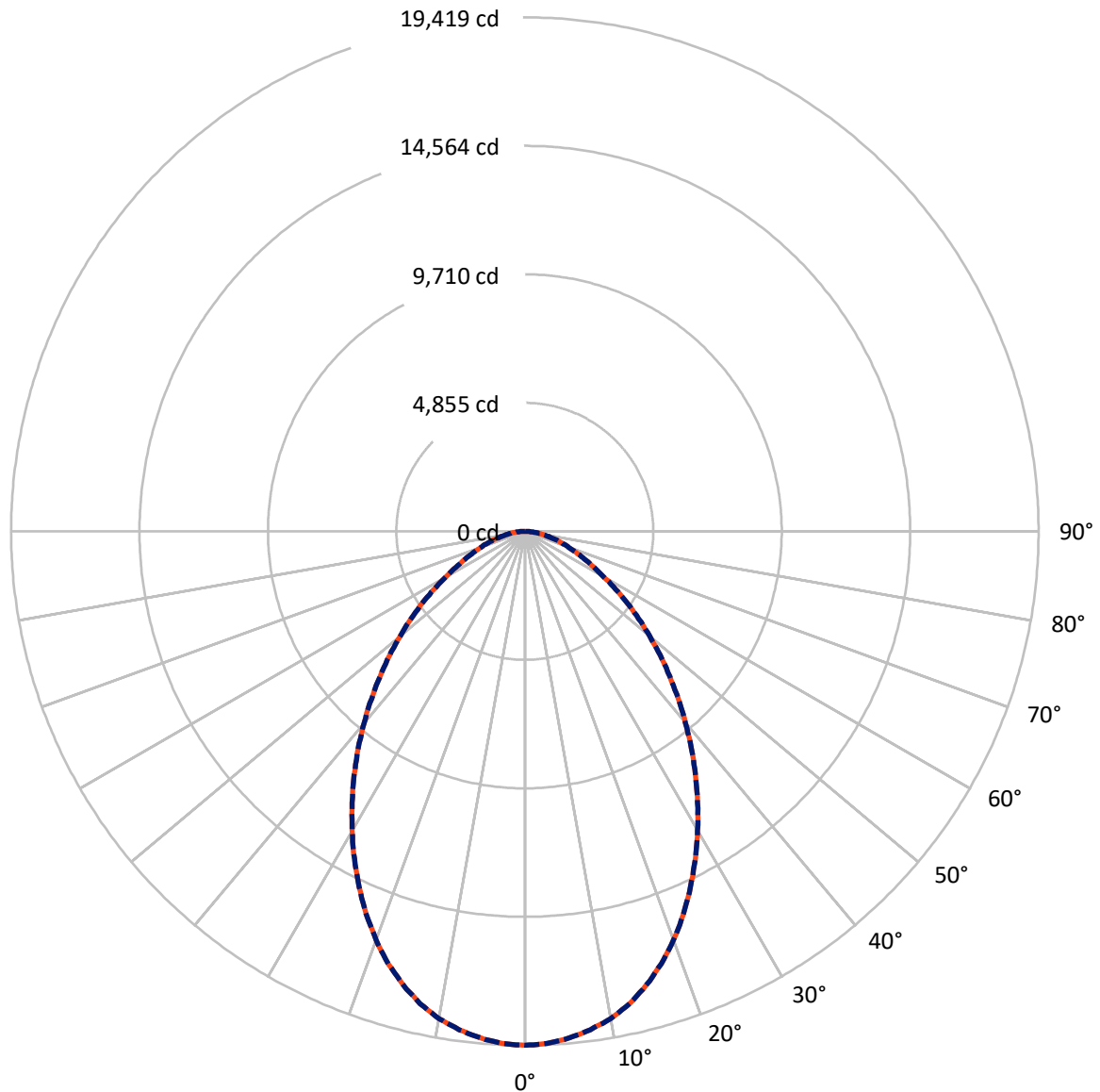
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Lumen Table



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Luminous Intensity Polar Plot

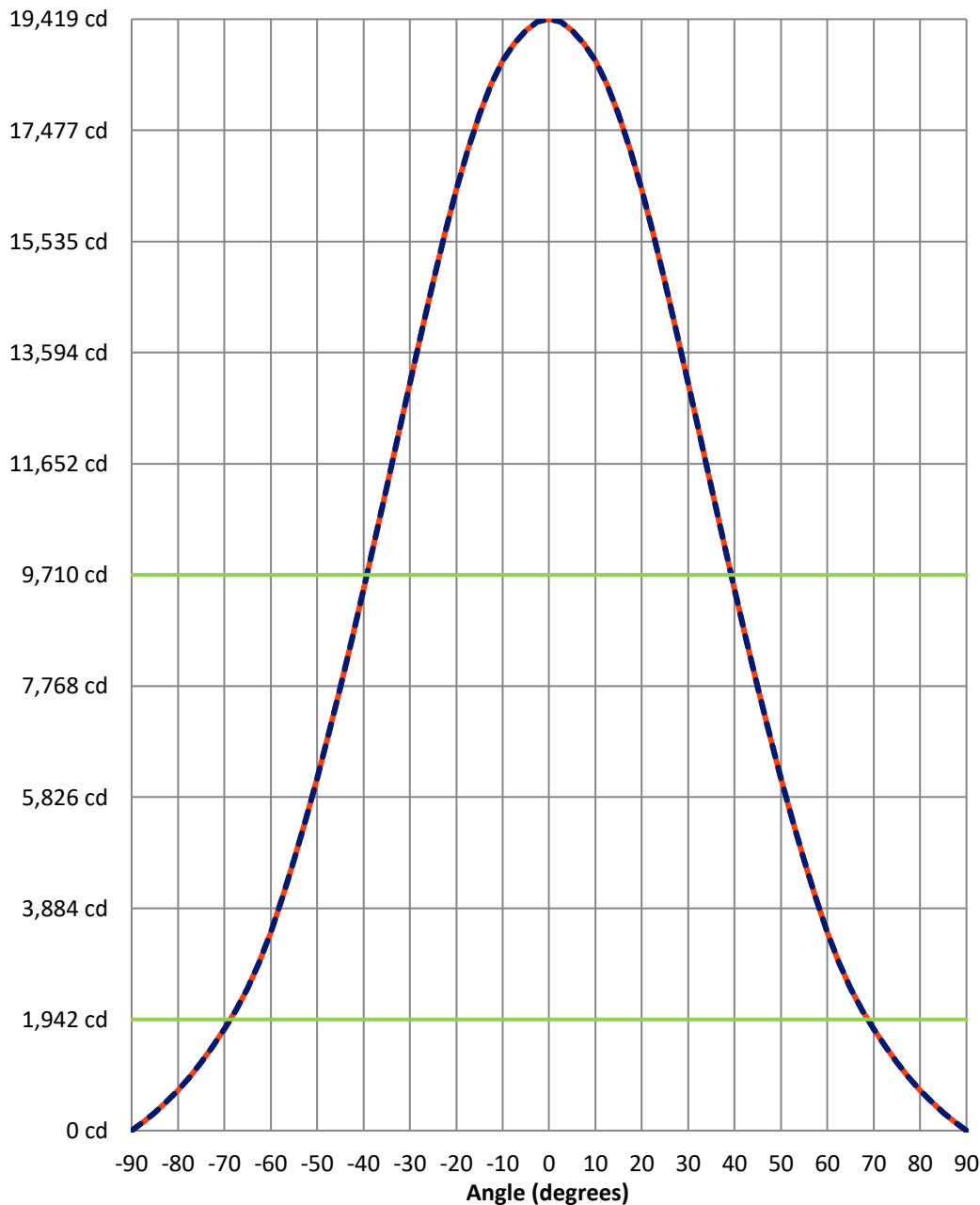


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 15129
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 24773.2
Efficiency: 70.9%

Spill:

Lumens: 10191.7
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°	149.5	149.5	149.5	149.5	149.5	149.5	149.5	142.2	142.2	138.5	134.9
85°	313.5	313.5	313.5	313.5	313.5	306.2	302.6	298.9	295.3	288.0	284.3
82.5°	503.1	503.1	503.1	503.1	495.8	488.5	484.8	477.6	470.3	459.3	448.4
80°	703.6	703.6	703.6	703.6	692.6	685.3	674.4	667.1	656.2	641.6	627.0
77.5°	933.2	933.2	933.2	922.3	915.0	904.1	893.1	878.6	864.0	845.7	823.9
75°	1192.1	1192.1	1192.1	1177.5	1166.5	1155.6	1137.4	1119.2	1097.3	1071.8	1042.6
72.5°	1472.8	1472.8	1472.8	1454.5	1443.6	1425.4	1403.5	1378.0	1352.5	1319.7	1283.2
70°	1775.3	1775.3	1775.3	1753.5	1735.2	1717.0	1687.8	1658.7	1622.2	1585.8	1542.0
67.5°	2103.4	2103.4	2103.4	2077.9	2056.0	2030.5	1997.7	1961.3	1917.5	1866.5	1815.4
65°	2486.2	2486.2	2471.6	2449.7	2424.2	2387.8	2347.7	2296.6	2242.0	2176.3	2107.1
62.5°	2938.2	2938.2	2916.4	2890.8	2858.0	2810.6	2756.0	2690.3	2613.8	2529.9	2446.1
60°	3463.2	3463.2	3437.7	3404.8	3357.5	3299.1	3226.2	3142.4	3047.6	2941.9	2839.8
57.5°	4068.3	4068.3	4035.5	3991.8	3933.4	3860.5	3769.4	3663.7	3543.4	3412.1	3284.5
55°	4724.5	4724.5	4684.4	4633.4	4564.1	4476.6	4367.2	4243.3	4097.5	3948.0	3784.0
52.5°	5420.8	5420.8	5373.4	5315.1	5234.9	5132.8	5008.8	4863.0	4695.3	4520.4	4327.1
50°	6153.5	6153.5	6098.8	6033.2	5942.1	5821.8	5679.6	5511.9	5326.0	5121.9	4899.5
47.5°	6937.3	6937.3	6875.3	6798.8	6689.4	6550.9	6383.2	6190.0	5978.5	5748.9	5497.3
45°	7742.9	7742.9	7673.7	7586.2	7465.9	7309.1	7123.2	6937.3	6667.5	6401.4	6109.8
42.5°	8581.4	8581.4	8501.2	8402.8	8264.2	8092.9	7881.5	7640.9	7374.7	7075.8	6758.7
40°	9452.7	9452.7	9361.5	9248.5	9095.4	8898.5	8661.6	8391.8	8092.9	7761.2	7411.2
37.5°	10342.1	10342.1	10240.1	10116.1	9944.8	9726.1	9459.9	9161.0	8825.6	8457.4	8071.0
35°	11238.9	11238.9	11125.9	10991.0	10801.5	10560.9	10272.9	9941.1	9569.3	9168.3	8734.5
32.5°	12153.9	12153.9	12030.0	11876.9	11661.8	11395.7	11078.5	10717.6	10342.1	9875.5	9401.6
30°	13058.0	13058.0	12923.1	12755.4	12525.8	12234.1	11887.8	11490.5	11049.4	10571.8	10061.4
27.5°	13947.5	13911.0	13798.0	13619.4	13367.9	13058.0	12682.5	12252.4	11774.8	11249.9	10703.0
25°	14822.4	14782.3	14658.4	14461.5	14191.7	13852.7	13448.1	12988.7	12474.7	11920.6	11322.8
22.5°	15660.9	15617.1	15485.9	15274.4	14986.4	14618.3	14184.4	13692.3	13145.5	12551.3	11920.6
20°	16437.3	16389.9	16255.1	16032.7	15733.8	15343.7	14884.4	14355.8	13772.5	13145.5	12474.7
17.5°	17137.3	17089.9	16947.7	16718.0	16437.3	16003.5	15529.6	14971.9	14355.8	13692.3	12988.7
15°	17753.3	17702.3	17556.5	17326.8	17006.0	16597.7	16098.3	15529.6	14884.4	14184.4	13448.1
12.5°	18278.3	18227.2	18077.8	17848.1	17516.4	17108.1	16597.7	16003.5	15343.7	14618.3	13852.7
10°	18693.9	18642.8	18500.7	18281.9	17939.3	17516.4	17006.0	16437.3	15733.8	14986.4	14191.7
7.5°	18992.8	18945.4	18814.2	18595.4	18281.9	17848.1	17326.8	16718.0	16032.7	15274.4	14461.5
5°	19218.8	19164.1	19032.9	18814.2	18500.7	18077.8	17556.5	16947.7	16255.1	15485.9	14658.4
2.5°	19375.6	19309.9	19164.1	18945.4	18642.8	18227.2	17702.3	17089.9	16389.9	15617.1	14782.3
0°	19419.3	19375.6	19218.8	18992.8	18693.9	18278.3	17753.3	17137.3	16437.3	15660.9	14822.4

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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°	131.2	131.2	127.6	123.9	120.3	113.0	109.4	105.7	102.1	94.8	91.1
85°	277.1	269.8	262.5	255.2	244.2	237.0	226.0	218.7	207.8	196.9	185.9
82.5°	437.5	426.5	411.9	401.0	386.4	368.2	353.6	335.4	317.2	302.6	284.3
80°	612.4	594.2	576.0	557.8	535.9	514.0	492.1	470.3	444.7	419.2	393.7
77.5°	802.0	776.5	751.0	721.8	696.3	667.1	638.0	608.8	576.0	543.2	510.4
75°	1013.4	980.6	944.2	907.7	874.9	834.8	794.7	754.6	710.9	670.8	627.0
72.5°	1243.1	1203.0	1159.3	1115.5	1068.1	1017.1	966.0	911.4	860.3	809.3	754.6
70°	1491.0	1443.6	1388.9	1334.2	1275.9	1213.9	1152.0	1086.3	1020.7	955.1	889.5
67.5°	1757.1	1698.8	1633.2	1567.5	1494.6	1421.7	1348.8	1272.3	1192.1	1111.9	1035.3
65°	2041.5	1968.5	1892.0	1808.1	1724.3	1640.5	1553.0	1461.8	1370.7	1275.9	1192.1
62.5°	2358.6	2267.5	2169.0	2067.0	1972.2	1870.1	1775.3	1662.3	1553.0	1447.2	1341.5
60°	2726.8	2606.5	2486.2	2358.6	2238.3	2107.1	1990.4	1866.5	1742.5	1622.2	1498.3
57.5°	3138.7	2985.6	2839.8	2686.7	2526.3	2380.5	2231.0	2081.6	1943.0	1800.9	1666.0
55°	3605.3	3419.4	3237.2	3047.6	2861.7	2679.4	2489.8	2322.2	2150.8	1990.4	1833.7
52.5°	4115.7	3904.3	3678.3	3463.2	3226.2	3000.2	2788.8	2577.3	2376.8	2183.6	2005.0
50°	4662.5	4414.6	4155.8	3893.3	3623.6	3357.5	3102.3	2854.4	2621.1	2395.1	2183.6
47.5°	5231.2	4950.5	4655.2	4356.3	4068.3	3743.9	3437.7	3157.0	2876.3	2621.1	2376.8
45°	5814.5	5497.3	5172.9	4833.9	4494.8	4144.9	3805.8	3463.2	3157.0	2854.4	2577.3
42.5°	6416.0	6058.7	5697.8	5322.4	4946.9	4564.1	4181.3	3805.8	3437.7	3102.3	2788.8
40°	7035.7	6642.0	6230.1	5821.8	5420.8	4983.3	4564.1	4144.9	3743.9	3357.5	3000.2
37.5°	7655.4	7225.3	6780.5	6321.2	5861.9	5420.8	4946.9	4494.8	4068.3	3623.6	3226.2
35°	8278.8	7804.9	7323.7	6824.3	6321.2	5821.8	5322.4	4833.9	4356.3	3893.3	3463.2
32.5°	8905.8	8388.2	7855.9	7323.7	6780.5	6230.1	5697.8	5172.9	4655.2	4155.8	3678.3
30°	9521.9	8960.5	8388.2	7804.9	7225.3	6642.0	6058.7	5497.3	4950.5	4414.6	3904.3
27.5°	10123.4	9521.9	8905.8	8278.8	7655.4	7035.7	6416.0	5814.5	5231.2	4662.5	4115.7
25°	10703.0	10061.4	9401.6	8734.5	8071.0	7411.2	6758.7	6109.8	5497.3	4899.5	4327.1
22.5°	11249.9	10571.8	9875.5	9168.3	8457.4	7761.2	7075.8	6401.4	5748.9	5121.9	4520.4
20°	11774.8	11049.4	10342.1	9569.3	8825.6	8092.9	7374.7	6667.5	5978.5	5326.0	4695.3
17.5°	12252.4	11490.5	10717.6	9941.1	9161.0	8391.8	7640.9	6937.3	6190.0	5511.9	4863.0
15°	12682.5	11887.8	11078.5	10272.9	9459.9	8661.6	7881.5	7123.2	6383.2	5679.6	5008.8
12.5°	13058.0	12234.1	11395.7	10560.9	9726.1	8898.5	8092.9	7309.1	6550.9	5821.8	5132.8
10°	13367.9	12525.8	11661.8	10801.5	9944.8	9095.4	8264.2	7465.9	6689.4	5942.1	5234.9
7.5°	13619.4	12755.4	11876.9	10991.0	10116.1	9248.5	8402.8	7586.2	6798.8	6033.2	5315.1
5°	13798.0	12923.1	12030.0	11125.9	10240.1	9361.5	8501.2	7673.7	6875.3	6098.8	5373.4
2.5°	13911.0	13058.0	12153.9	11238.9	10342.1	9452.7	8581.4	7742.9	6937.3	6153.5	5420.8
0°	13947.5	13058.0	12153.9	11238.9	10342.1	9452.7	8581.4	7742.9	6937.3	6153.5	5420.8

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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°	87.5	80.2	72.9	69.3	62.0	58.3	51.0	43.7	40.1	32.8	25.5
85°	175.0	160.4	149.5	138.5	127.6	113.0	102.1	91.1	76.6	65.6	51.0
82.5°	266.1	247.9	229.7	211.4	193.2	175.0	153.1	134.9	116.7	98.4	76.6
80°	368.2	339.0	313.5	288.0	262.5	237.0	207.8	182.3	153.1	127.6	102.1
77.5°	473.9	441.1	404.6	368.2	331.7	298.9	262.5	229.7	196.9	160.4	127.6
75°	586.9	543.2	503.1	455.7	411.9	364.5	320.8	277.1	237.0	196.9	153.1
72.5°	703.6	648.9	594.2	543.2	488.5	433.8	382.8	328.1	277.1	229.7	182.3
70°	823.9	758.3	692.6	630.7	568.7	503.1	444.7	382.8	320.8	262.5	207.8
67.5°	951.5	874.9	798.4	718.2	648.9	576.0	503.1	433.8	364.5	298.9	237.0
65°	1090.0	998.9	904.1	820.2	729.1	648.9	568.7	488.5	411.9	331.7	262.5
62.5°	1232.2	1126.4	1020.7	915.0	820.2	718.2	630.7	543.2	455.7	368.2	288.0
60°	1378.0	1257.7	1137.4	1020.7	904.1	798.4	692.6	594.2	503.1	404.6	313.5
57.5°	1527.4	1392.6	1257.7	1126.4	998.9	874.9	758.3	648.9	543.2	441.1	339.0
55°	1680.6	1527.4	1378.0	1232.2	1090.0	951.5	823.9	703.6	586.9	473.9	368.2
52.5°	1833.7	1666.0	1498.3	1341.5	1192.1	1035.3	889.5	754.6	627.0	510.4	393.7
50°	1990.4	1800.9	1622.2	1447.2	1275.9	1111.9	955.1	809.3	670.8	543.2	419.2
47.5°	2150.8	1943.0	1742.5	1553.0	1370.7	1192.1	1020.7	860.3	710.9	576.0	444.7
45°	2322.2	2081.6	1866.5	1662.3	1461.8	1272.3	1086.3	911.4	754.6	608.8	470.3
42.5°	2489.8	2231.0	1990.4	1775.3	1553.0	1348.8	1152.0	966.0	794.7	638.0	492.1
40°	2679.4	2380.5	2107.1	1870.1	1640.5	1421.7	1213.9	1017.1	834.8	667.1	514.0
37.5°	2861.7	2526.3	2238.3	1972.2	1724.3	1494.6	1275.9	1068.1	874.9	696.3	535.9
35°	3047.6	2686.7	2358.6	2067.0	1808.1	1567.5	1334.2	1115.5	907.7	721.8	557.8
32.5°	3237.2	2839.8	2486.2	2169.0	1892.0	1633.2	1388.9	1159.3	944.2	751.0	576.0
30°	3419.4	2985.6	2606.5	2267.5	1968.5	1698.8	1443.6	1203.0	980.6	776.5	594.2
27.5°	3605.3	3138.7	2726.8	2358.6	2041.5	1757.1	1491.0	1243.1	1013.4	802.0	612.4
25°	3784.0	3284.5	2839.8	2446.1	2107.1	1815.4	1542.0	1283.2	1042.6	823.9	627.0
22.5°	3948.0	3412.1	2941.9	2529.9	2176.3	1866.5	1585.8	1319.7	1071.8	845.7	641.6
20°	4097.5	3543.4	3047.6	2613.8	2242.0	1917.5	1622.2	1352.5	1097.3	864.0	656.2
17.5°	4243.3	3663.7	3142.4	2690.3	2296.6	1961.3	1658.7	1378.0	1119.2	878.6	667.1
15°	4367.2	3769.4	3226.2	2756.0	2347.7	1997.7	1687.8	1403.5	1137.4	893.1	674.4
12.5°	4476.6	3860.5	3299.1	2810.6	2387.8	2030.5	1717.0	1425.4	1155.6	904.1	685.3
10°	4564.1	3933.4	3357.5	2858.0	2424.2	2056.0	1735.2	1443.6	1166.5	915.0	692.6
7.5°	4633.4	3991.8	3404.8	2890.8	2449.7	2077.9	1753.5	1454.5	1177.5	922.3	703.6
5°	4684.4	4035.5	3437.7	2916.4	2471.6	2103.4	1775.3	1472.8	1192.1	933.2	703.6
2.5°	4724.5	4068.3	3463.2	2938.2	2486.2	2103.4	1775.3	1472.8	1192.1	933.2	703.6
0°	4724.5	4068.3	3463.2	2938.2	2486.2	2103.4	1775.3	1472.8	1192.1	933.2	703.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.2	14.6	7.3	0.0
85°	40.1	25.5	14.6	0.0
82.5°	58.3	40.1	18.2	0.0
80°	76.6	51.0	25.5	0.0
77.5°	98.4	65.6	32.8	0.0
75°	116.7	76.6	40.1	0.0
72.5°	134.9	91.1	43.7	0.0
70°	153.1	102.1	51.0	0.0
67.5°	175.0	113.0	58.3	0.0
65°	193.2	127.6	62.0	0.0
62.5°	211.4	138.5	69.3	0.0
60°	229.7	149.5	72.9	0.0
57.5°	247.9	160.4	80.2	0.0
55°	266.1	175.0	87.5	0.0
52.5°	284.3	185.9	91.1	0.0
50°	302.6	196.9	94.8	0.0
47.5°	317.2	207.8	102.1	0.0
45°	335.4	218.7	105.7	0.0
42.5°	353.6	226.0	109.4	0.0
40°	368.2	237.0	113.0	0.0
37.5°	386.4	244.2	120.3	0.0
35°	401.0	255.2	123.9	0.0
32.5°	411.9	262.5	127.6	0.0
30°	426.5	269.8	131.2	0.0
27.5°	437.5	277.1	131.2	0.0
25°	448.4	284.3	134.9	0.0
22.5°	459.3	288.0	138.5	0.0
20°	470.3	295.3	142.2	0.0
17.5°	477.6	298.9	142.2	0.0
15°	484.8	302.6	149.5	0.0
12.5°	488.5	306.2	149.5	0.0
10°	495.8	313.5	149.5	0.0
7.5°	503.1	313.5	149.5	0.0
5°	503.1	313.5	149.5	0.0
2.5°	503.1	313.5	149.5	0.0
0°	503.1	313.5	149.5	0.0

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