

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: P623952

Luminaire Tested: **IFLD-L-SA8A-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623952
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	35564.5 lumens	Max Intensity:	19752.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	143.5 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:	15388.4 lumens	Field Lumens:	25198 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

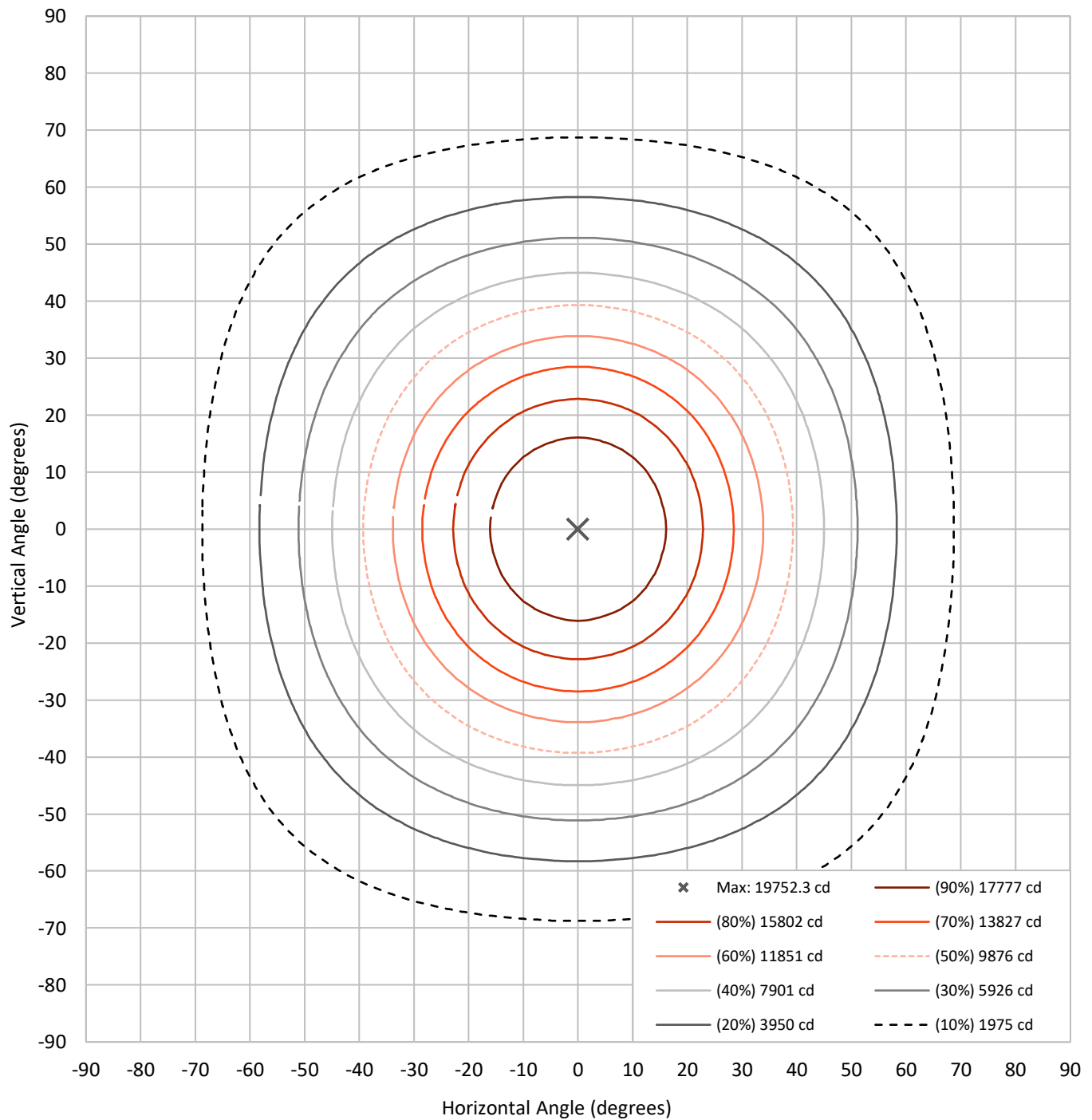
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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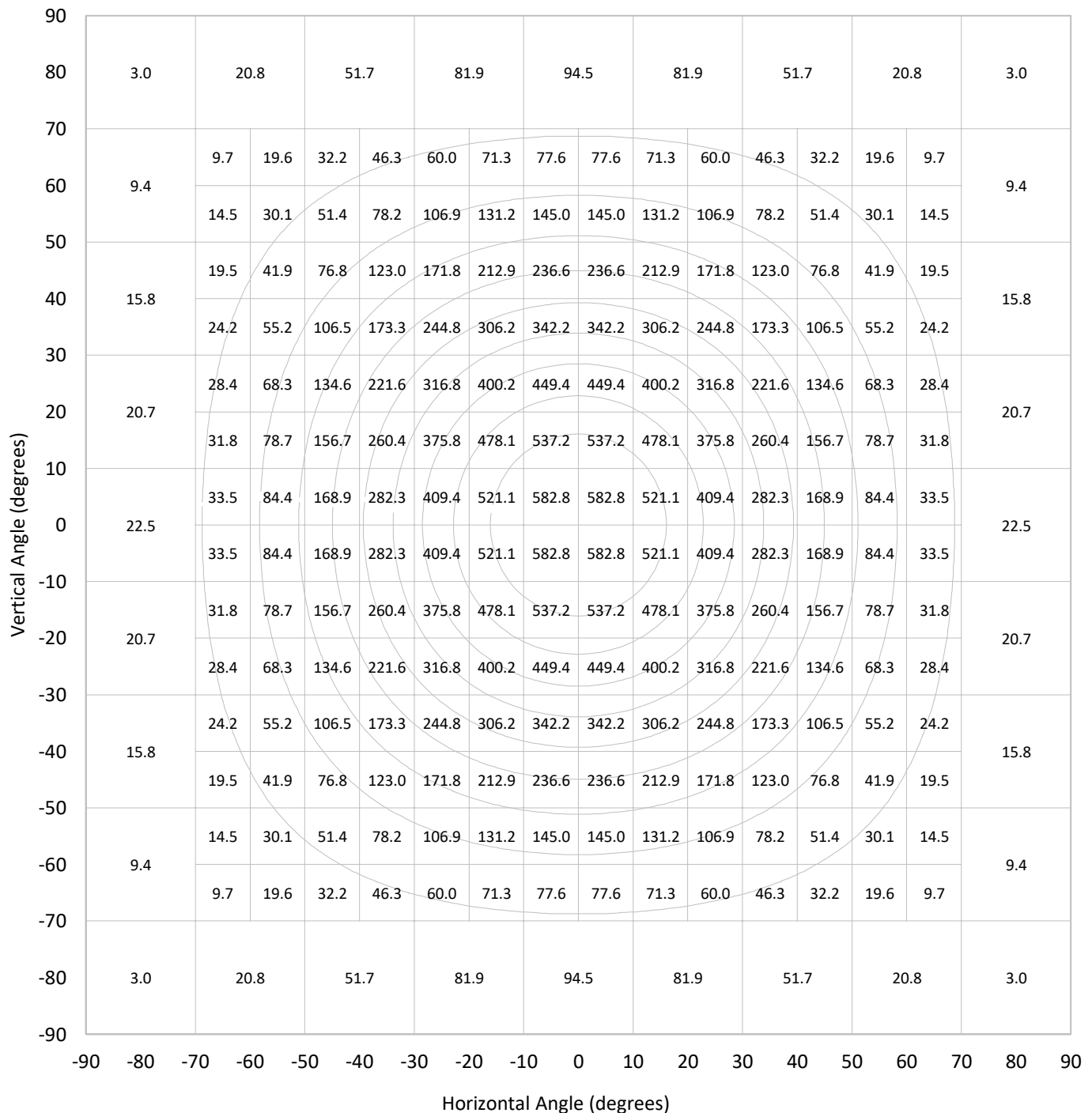
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Iso-Candela Plot



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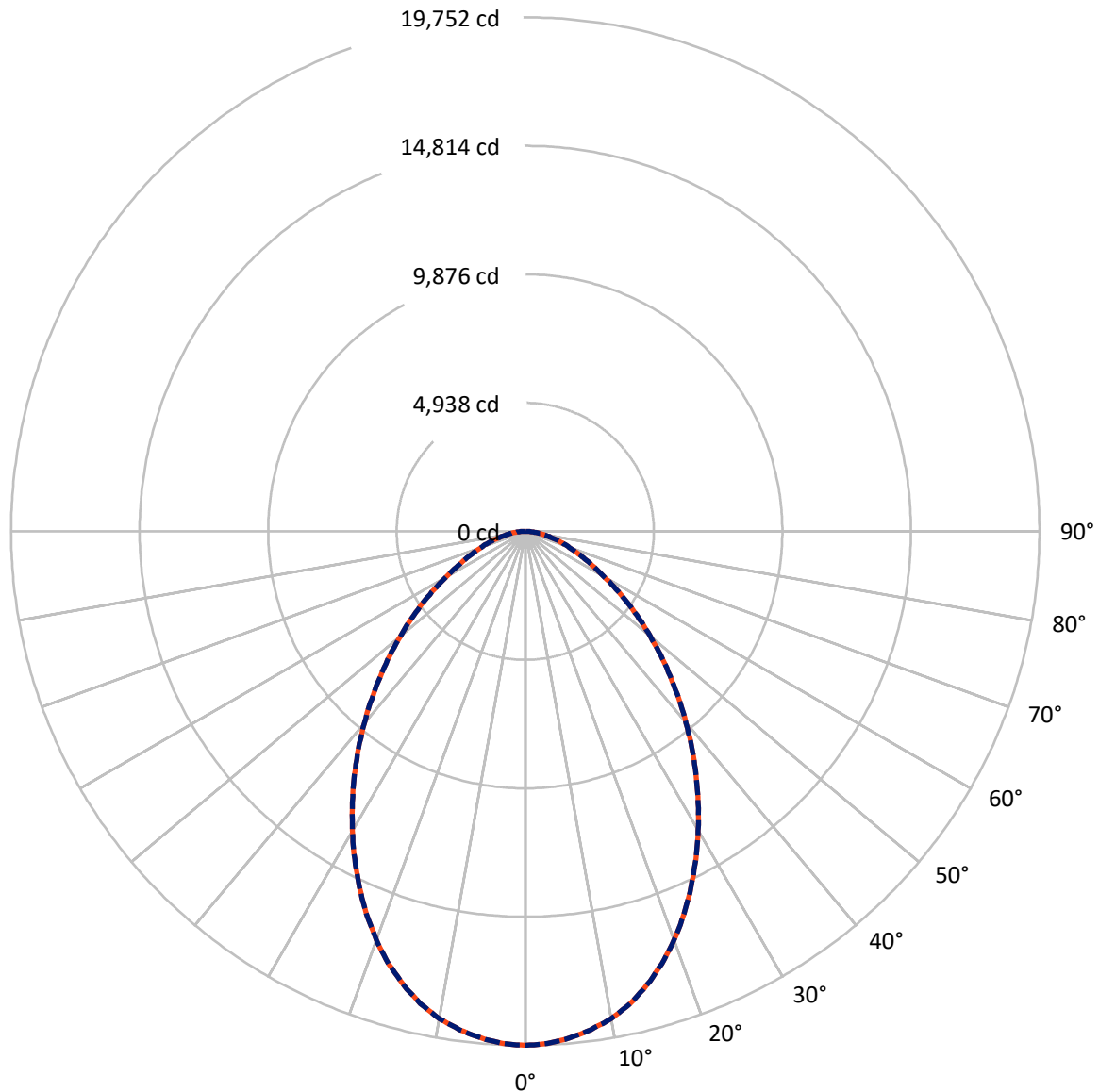
Lumen Table



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Luminous Intensity Polar Plot

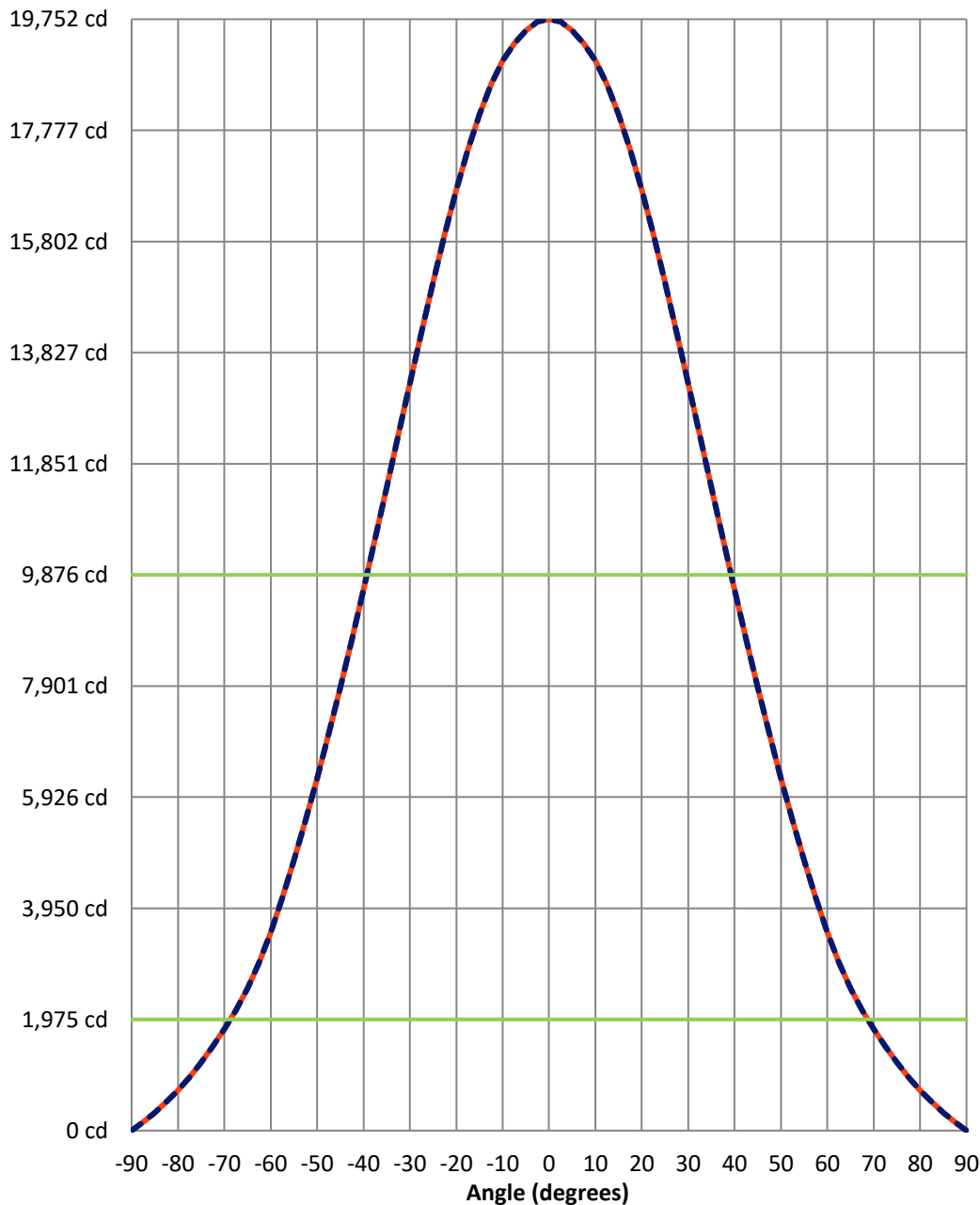


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°

V Angle: 78.6°

Lumens: 15388.4

Efficiency: 43.3%

Field:

H Angle: 137.5°

V Angle: 137.5°

Lumens: 25198

Efficiency: 70.9%

Spill:

Lumens: 10366.5

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°	152.0	152.0	152.0	152.0	152.0	152.0	152.0	144.6	144.6	140.9	137.2
85°	318.9	318.9	318.9	318.9	318.9	311.5	307.8	304.1	300.3	292.9	289.2
82.5°	511.7	511.7	511.7	511.7	504.3	496.9	493.2	485.7	478.3	467.2	456.1
80°	715.6	715.6	715.6	715.6	704.5	697.1	686.0	678.6	667.4	652.6	637.8
77.5°	949.2	949.2	949.2	938.1	930.7	919.6	908.5	893.6	878.8	860.2	838.0
75°	1212.5	1212.5	1212.5	1197.7	1186.5	1175.4	1156.9	1138.3	1116.1	1090.1	1060.5
72.5°	1498.0	1498.0	1498.0	1479.5	1468.4	1449.8	1427.6	1401.6	1375.7	1342.3	1305.2
70°	1805.8	1805.8	1805.8	1783.5	1765.0	1746.5	1716.8	1687.1	1650.0	1613.0	1568.5
67.5°	2139.5	2139.5	2139.5	2113.5	2091.3	2065.3	2032.0	1994.9	1950.4	1898.5	1846.6
65°	2528.8	2528.8	2514.0	2491.8	2465.8	2428.7	2387.9	2336.0	2280.4	2213.7	2143.2
62.5°	2988.6	2988.6	2966.4	2940.4	2907.0	2858.8	2803.2	2736.5	2658.6	2573.3	2488.0
60°	3522.6	3522.6	3496.6	3463.2	3415.0	3355.7	3281.5	3196.3	3099.9	2992.3	2888.5
57.5°	4138.1	4138.1	4104.7	4060.2	4000.9	3926.7	3834.0	3726.5	3604.1	3470.7	3340.9
55°	4805.5	4805.5	4764.7	4712.8	4642.4	4553.4	4442.1	4316.1	4167.7	4015.7	3848.9
52.5°	5513.7	5513.7	5465.5	5406.2	5324.6	5220.8	5094.7	4946.4	4775.9	4597.9	4401.4
50°	6259.0	6259.0	6203.4	6136.7	6044.0	5921.6	5777.0	5606.4	5417.3	5209.7	4983.5
47.5°	7056.3	7056.3	6993.2	6915.4	6804.1	6663.2	6492.6	6296.1	6081.1	5847.5	5591.6
45°	7875.7	7875.7	7805.3	7716.3	7593.9	7434.5	7245.4	7056.3	6781.9	6511.2	6214.5
42.5°	8728.5	8728.5	8647.0	8546.9	8406.0	8231.7	8016.6	7771.9	7501.2	7197.2	6874.6
40°	9614.7	9614.7	9522.0	9407.1	9251.4	9051.1	8810.1	8535.7	8231.7	7894.3	7538.3
37.5°	10519.5	10519.5	10415.7	10289.6	10115.3	9892.8	9622.2	9318.1	8977.0	8602.5	8209.4
35°	11431.6	11431.6	11316.7	11179.5	10986.7	10742.0	10449.0	10111.6	9733.4	9325.5	8884.3
32.5°	12362.3	12362.3	12236.3	12080.5	11861.8	11591.1	11268.5	10901.4	10519.5	10044.9	9562.8
30°	13281.9	13281.9	13144.7	12974.2	12740.6	12443.9	12091.7	11687.5	11238.8	10753.1	10234.0
27.5°	14186.7	14149.6	14034.6	13852.9	13597.1	13281.9	12900.0	12462.5	11976.7	11442.8	10886.6
25°	15076.6	15035.8	14909.7	14709.5	14435.1	14090.3	13678.7	13211.5	12688.6	12125.0	11516.9
22.5°	15929.4	15884.9	15751.4	15536.4	15243.4	14868.9	14427.7	13927.1	13370.9	12766.5	12125.0
20°	16719.2	16671.0	16533.8	16307.6	16003.6	15606.8	15139.6	14602.0	14008.7	13370.9	12688.6
17.5°	17431.1	17382.9	17238.3	17004.7	16719.2	16278.0	15795.9	15228.6	14602.0	13927.1	13211.5
15°	18057.8	18005.9	17857.5	17623.9	17297.6	16882.4	16374.4	15795.9	15139.6	14427.7	13678.7
12.5°	18591.7	18539.8	18387.8	18154.2	17816.8	17401.5	16882.4	16278.0	15606.8	14868.9	14090.3
10°	19014.4	18962.5	18817.9	18595.4	18246.9	17816.8	17297.6	16719.2	16003.6	15243.4	14435.1
7.5°	19318.5	19270.3	19136.8	18914.3	18595.4	18154.2	17623.9	17004.7	16307.6	15536.4	14709.5
5°	19548.4	19492.8	19359.3	19136.8	18817.9	18387.8	17857.5	17238.3	16533.8	15751.4	14909.7
2.5°	19707.8	19641.1	19492.8	19270.3	18962.5	18539.8	18005.9	17382.9	16671.0	15884.9	15035.8
0°	19752.3	19707.8	19548.4	19318.5	19014.4	18591.7	18057.8	17431.1	16719.2	15929.4	15076.6

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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°	133.5	133.5	129.8	126.1	122.4	114.9	111.2	107.5	103.8	96.4	92.7
85°	281.8	274.4	267.0	259.6	248.4	241.0	229.9	222.5	211.4	200.2	189.1
82.5°	445.0	433.8	419.0	407.9	393.0	374.5	359.7	341.1	322.6	307.8	289.2
80°	622.9	604.4	585.9	567.3	545.1	522.8	500.6	478.3	452.4	426.4	400.5
77.5°	815.8	789.8	763.8	734.2	708.2	678.6	648.9	619.2	585.9	552.5	519.1
75°	1030.8	997.4	960.4	923.3	889.9	849.1	808.3	767.5	723.1	682.3	637.8
72.5°	1264.4	1223.6	1179.1	1134.6	1086.4	1034.5	982.6	927.0	875.1	823.2	767.5
70°	1516.6	1468.4	1412.7	1357.1	1297.8	1234.8	1171.7	1105.0	1038.2	971.5	904.7
67.5°	1787.2	1727.9	1661.2	1594.4	1520.3	1446.1	1371.9	1294.1	1212.5	1130.9	1053.1
65°	2076.5	2002.3	1924.4	1839.1	1753.9	1668.6	1579.6	1486.9	1394.2	1297.8	1212.5
62.5°	2399.1	2306.4	2206.2	2102.4	2006.0	1902.2	1805.8	1690.8	1579.6	1472.1	1364.5
60°	2773.6	2651.2	2528.8	2399.1	2276.7	2143.2	2024.5	1898.5	1772.4	1650.0	1524.0
57.5°	3192.6	3036.8	2888.5	2732.8	2569.6	2421.3	2269.3	2117.2	1976.3	1831.7	1694.5
55°	3667.2	3478.1	3292.7	3099.9	2910.8	2725.4	2532.5	2362.0	2187.7	2024.5	1865.1
52.5°	4186.3	3971.2	3741.3	3522.6	3281.5	3051.7	2836.6	2621.5	2417.6	2221.1	2039.4
50°	4742.5	4490.3	4227.1	3960.1	3685.7	3415.0	3155.5	2903.3	2666.0	2436.1	2221.1
47.5°	5320.9	5035.4	4735.1	4431.0	4138.1	3808.1	3496.6	3211.1	2925.6	2666.0	2417.6
45°	5914.2	5591.6	5261.6	4916.8	4571.9	4216.0	3871.1	3522.6	3211.1	2903.3	2621.5
42.5°	6526.0	6162.6	5795.5	5413.6	5031.7	4642.4	4253.0	3871.1	3496.6	3155.5	2836.6
40°	7156.4	6755.9	6336.9	5921.6	5513.7	5068.8	4642.4	4216.0	3808.1	3415.0	3051.7
37.5°	7786.7	7349.2	6896.8	6429.6	5962.4	5513.7	5031.7	4571.9	4138.1	3685.7	3281.5
35°	8420.8	7938.7	7449.3	6941.3	6429.6	5921.6	5413.6	4916.8	4431.0	3960.1	3522.6
32.5°	9058.6	8532.0	7990.7	7449.3	6896.8	6336.9	5795.5	5261.6	4735.1	4227.1	3741.3
30°	9685.2	9114.2	8532.0	7938.7	7349.2	6755.9	6162.6	5591.6	5035.4	4490.3	3971.2
27.5°	10297.0	9685.2	9058.6	8420.8	7786.7	7156.4	6526.0	5914.2	5320.9	4742.5	4186.3
25°	10886.6	10234.0	9562.8	8884.3	8209.4	7538.3	6874.6	6214.5	5591.6	4983.5	4401.4
22.5°	11442.8	10753.1	10044.9	9325.5	8602.5	7894.3	7197.2	6511.2	5847.5	5209.7	4597.9
20°	11976.7	11238.8	10519.5	9733.4	8977.0	8231.7	7501.2	6781.9	6081.1	5417.3	4775.9
17.5°	12462.5	11687.5	10901.4	10111.6	9318.1	8535.7	7771.9	7056.3	6296.1	5606.4	4946.4
15°	12900.0	12091.7	11268.5	10449.0	9622.2	8810.1	8016.6	7245.4	6492.6	5777.0	5094.7
12.5°	13281.9	12443.9	11591.1	10742.0	9892.8	9051.1	8231.7	7434.5	6663.2	5921.6	5220.8
10°	13597.1	12740.6	11861.8	10986.7	10115.3	9251.4	8406.0	7593.9	6804.1	6044.0	5324.6
7.5°	13852.9	12974.2	12080.5	11179.5	10289.6	9407.1	8546.9	7716.3	6915.4	6136.7	5406.2
5°	14034.6	13144.7	12236.3	11316.7	10415.7	9522.0	8647.0	7805.3	6993.2	6203.4	5465.5
2.5°	14149.6	13281.9	12362.3	11431.6	10519.5	9614.7	8728.5	7875.7	7056.3	6259.0	5513.7
0°	14186.7	13281.9	12362.3	11431.6	10519.5	9614.7	8728.5	7875.7	7056.3	6259.0	5513.7

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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°	89.0	81.6	74.2	70.5	63.0	59.3	51.9	44.5	40.8	33.4	26.0
85°	178.0	163.2	152.0	140.9	129.8	114.9	103.8	92.7	77.9	66.7	51.9
82.5°	270.7	252.1	233.6	215.1	196.5	178.0	155.7	137.2	118.7	100.1	77.9
80°	374.5	344.8	318.9	292.9	267.0	241.0	211.4	185.4	155.7	129.8	103.8
77.5°	482.0	448.7	411.6	374.5	337.4	304.1	267.0	233.6	200.2	163.2	129.8
75°	597.0	552.5	511.7	463.5	419.0	370.8	326.3	281.8	241.0	200.2	155.7
72.5°	715.6	660.0	604.4	552.5	496.9	441.2	389.3	333.7	281.8	233.6	185.4
70°	838.0	771.3	704.5	641.5	578.4	511.7	452.4	389.3	326.3	267.0	211.4
67.5°	967.8	889.9	812.0	730.5	660.0	585.9	511.7	441.2	370.8	304.1	241.0
65°	1108.7	1016.0	919.6	834.3	741.6	660.0	578.4	496.9	419.0	337.4	267.0
62.5°	1253.3	1145.8	1038.2	930.7	834.3	730.5	641.5	552.5	463.5	374.5	292.9
60°	1401.6	1279.2	1156.9	1038.2	919.6	812.0	704.5	604.4	511.7	411.6	318.9
57.5°	1553.6	1416.4	1279.2	1145.8	1016.0	889.9	771.3	660.0	552.5	448.7	344.8
55°	1709.4	1553.6	1401.6	1253.3	1108.7	967.8	838.0	715.6	597.0	482.0	374.5
52.5°	1865.1	1694.5	1524.0	1364.5	1212.5	1053.1	904.7	767.5	637.8	519.1	400.5
50°	2024.5	1831.7	1650.0	1472.1	1297.8	1130.9	971.5	823.2	682.3	552.5	426.4
47.5°	2187.7	1976.3	1772.4	1579.6	1394.2	1212.5	1038.2	875.1	723.1	585.9	452.4
45°	2362.0	2117.2	1898.5	1690.8	1486.9	1294.1	1105.0	927.0	767.5	619.2	478.3
42.5°	2532.5	2269.3	2024.5	1805.8	1579.6	1371.9	1171.7	982.6	808.3	648.9	500.6
40°	2725.4	2421.3	2143.2	1902.2	1668.6	1446.1	1234.8	1034.5	849.1	678.6	522.8
37.5°	2910.8	2569.6	2276.7	2006.0	1753.9	1520.3	1297.8	1086.4	889.9	708.2	545.1
35°	3099.9	2732.8	2399.1	2102.4	1839.1	1594.4	1357.1	1134.6	923.3	734.2	567.3
32.5°	3292.7	2888.5	2528.8	2206.2	1924.4	1661.2	1412.7	1179.1	960.4	763.8	585.9
30°	3478.1	3036.8	2651.2	2306.4	2002.3	1727.9	1468.4	1223.6	997.4	789.8	604.4
27.5°	3667.2	3192.6	2773.6	2399.1	2076.5	1787.2	1516.6	1264.4	1030.8	815.8	622.9
25°	3848.9	3340.9	2888.5	2488.0	2143.2	1846.6	1568.5	1305.2	1060.5	838.0	637.8
22.5°	4015.7	3470.7	2992.3	2573.3	2213.7	1898.5	1613.0	1342.3	1090.1	860.2	652.6
20°	4167.7	3604.1	3099.9	2658.6	2280.4	1950.4	1650.0	1375.7	1116.1	878.8	667.4
17.5°	4316.1	3726.5	3196.3	2736.5	2336.0	1994.9	1687.1	1401.6	1138.3	893.6	678.6
15°	4442.1	3834.0	3281.5	2803.2	2387.9	2032.0	1716.8	1427.6	1156.9	908.5	686.0
12.5°	4553.4	3926.7	3355.7	2858.8	2428.7	2065.3	1746.5	1449.8	1175.4	919.6	697.1
10°	4642.4	4000.9	3415.0	2907.0	2465.8	2091.3	1765.0	1468.4	1186.5	930.7	704.5
7.5°	4712.8	4060.2	3463.2	2940.4	2491.8	2113.5	1783.5	1479.5	1197.7	938.1	715.6
5°	4764.7	4104.7	3496.6	2966.4	2514.0	2139.5	1805.8	1498.0	1212.5	949.2	715.6
2.5°	4805.5	4138.1	3522.6	2988.6	2528.8	2139.5	1805.8	1498.0	1212.5	949.2	715.6
0°	4805.5	4138.1	3522.6	2988.6	2528.8	2139.5	1805.8	1498.0	1212.5	949.2	715.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.5	14.8	7.4	0.0
85°	40.8	26.0	14.8	0.0
82.5°	59.3	40.8	18.5	0.0
80°	77.9	51.9	26.0	0.0
77.5°	100.1	66.7	33.4	0.0
75°	118.7	77.9	40.8	0.0
72.5°	137.2	92.7	44.5	0.0
70°	155.7	103.8	51.9	0.0
67.5°	178.0	114.9	59.3	0.0
65°	196.5	129.8	63.0	0.0
62.5°	215.1	140.9	70.5	0.0
60°	233.6	152.0	74.2	0.0
57.5°	252.1	163.2	81.6	0.0
55°	270.7	178.0	89.0	0.0
52.5°	289.2	189.1	92.7	0.0
50°	307.8	200.2	96.4	0.0
47.5°	322.6	211.4	103.8	0.0
45°	341.1	222.5	107.5	0.0
42.5°	359.7	229.9	111.2	0.0
40°	374.5	241.0	114.9	0.0
37.5°	393.0	248.4	122.4	0.0
35°	407.9	259.6	126.1	0.0
32.5°	419.0	267.0	129.8	0.0
30°	433.8	274.4	133.5	0.0
27.5°	445.0	281.8	133.5	0.0
25°	456.1	289.2	137.2	0.0
22.5°	467.2	292.9	140.9	0.0
20°	478.3	300.3	144.6	0.0
17.5°	485.7	304.1	144.6	0.0
15°	493.2	307.8	152.0	0.0
12.5°	496.9	311.5	152.0	0.0
10°	504.3	318.9	152.0	0.0
7.5°	511.7	318.9	152.0	0.0
5°	511.7	318.9	152.0	0.0
2.5°	511.7	318.9	152.0	0.0
0°	511.7	318.9	152.0	0.0

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