

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: P623977

Luminaire Tested: **IFLD-L-SA7B-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623977
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	37818.8 lumens	Max Intensity:	21004.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	134.6 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:	16363.8 lumens	Field Lumens:	26795.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

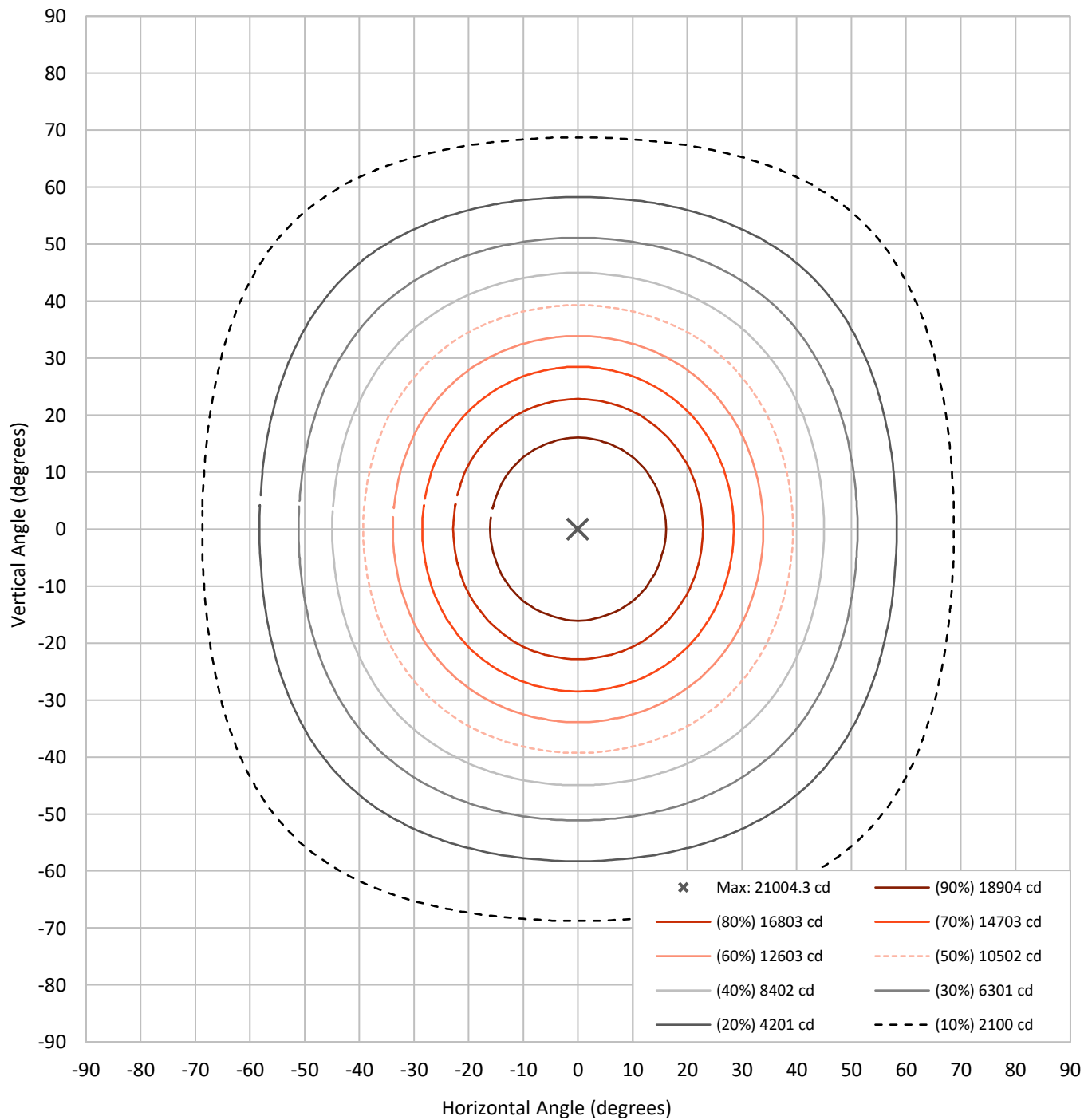
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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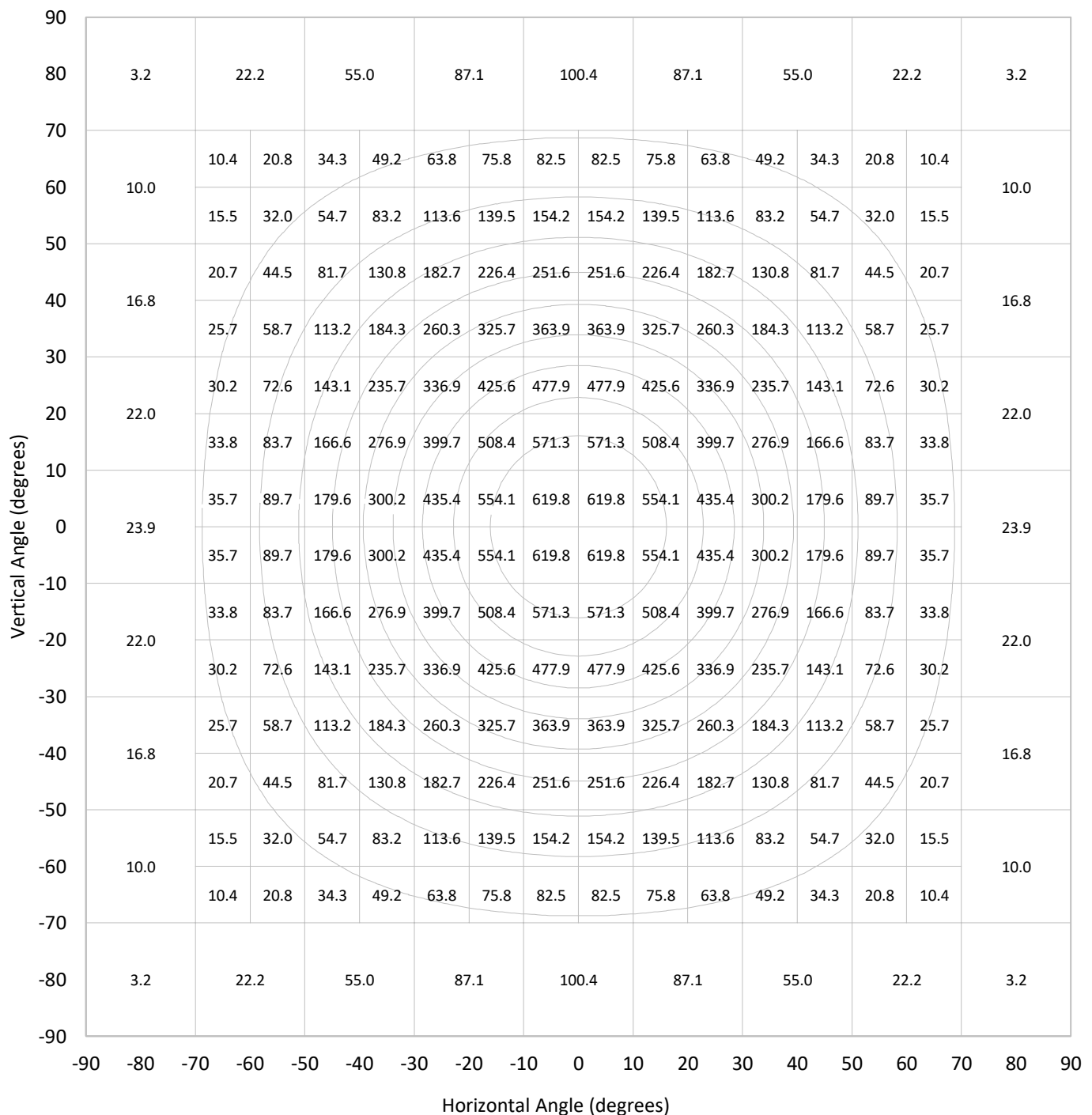
Iso-Candela Plot



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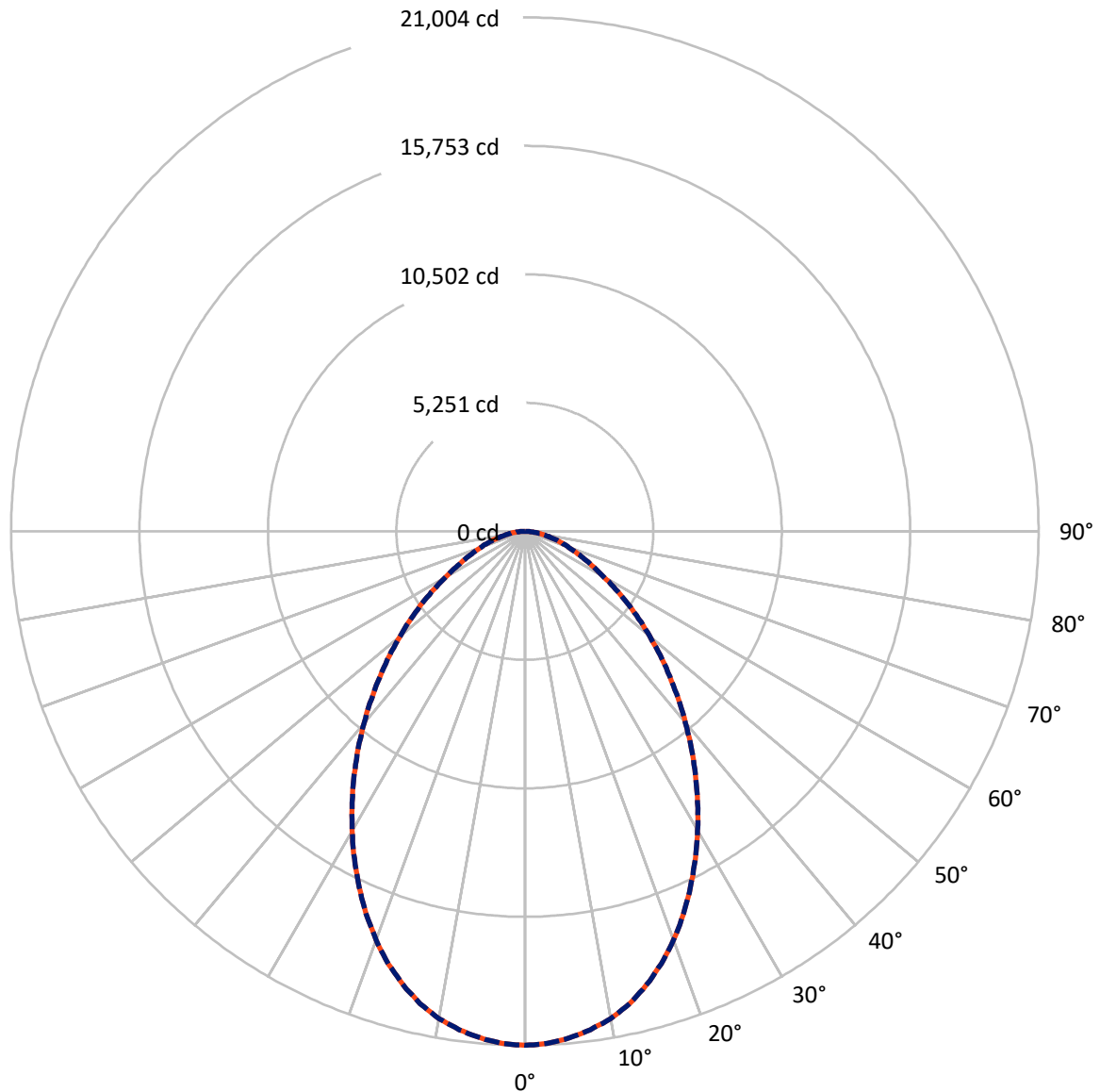
Lumen Table



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Luminous Intensity Polar Plot



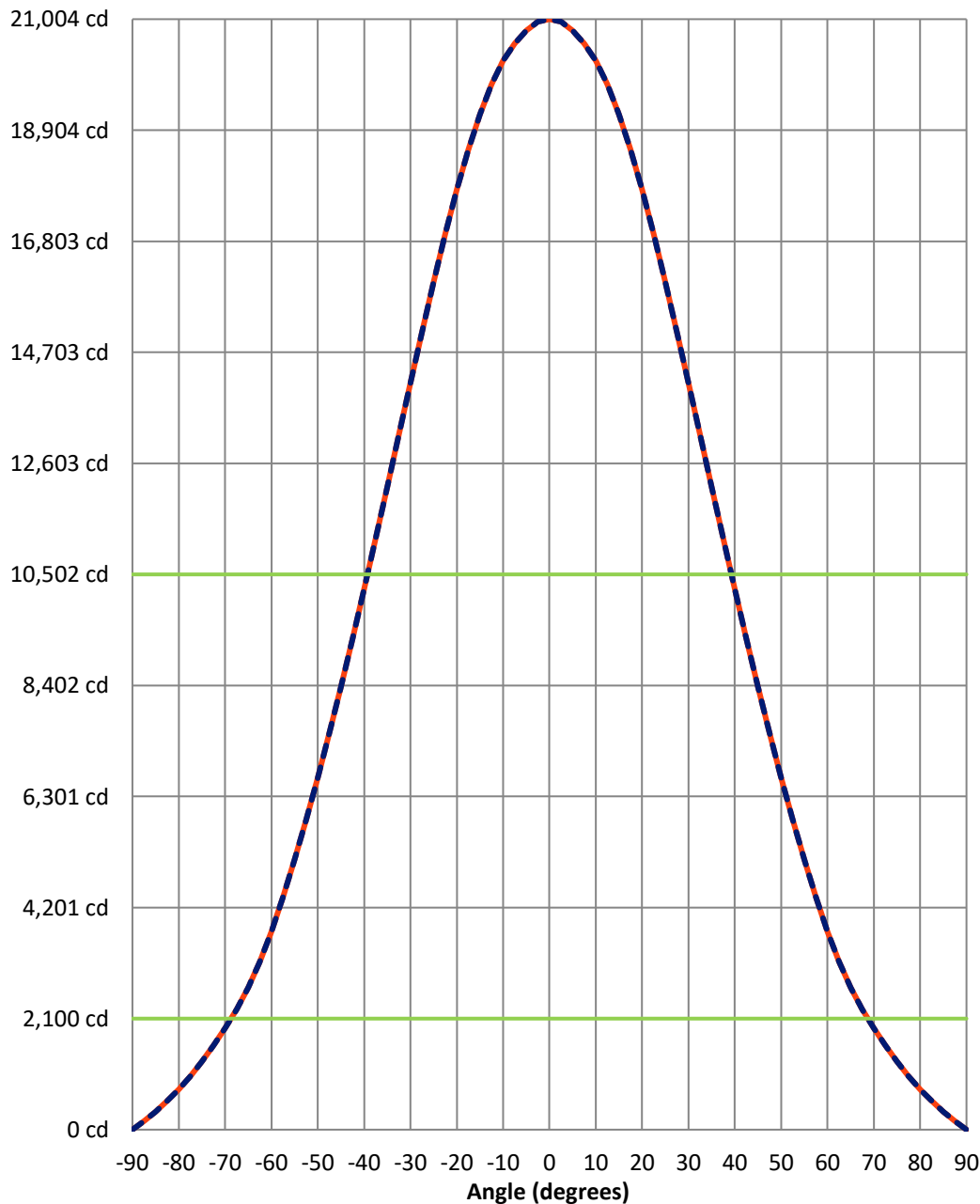
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 16363.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 26795.2
Efficiency: 70.9%

Spill:

Lumens: 11023.6
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°	161.7	161.7	161.7	161.7	161.7	161.7	161.7	153.8	153.8	149.8	145.9
85°	339.1	339.1	339.1	339.1	339.1	331.2	327.3	323.3	319.4	311.5	307.6
82.5°	544.1	544.1	544.1	544.1	536.2	528.4	524.4	516.5	508.6	496.8	485.0
80°	761.0	761.0	761.0	761.0	749.2	741.3	729.5	721.6	709.7	694.0	678.2
77.5°	1009.4	1009.4	1009.4	997.6	989.7	977.9	966.0	950.3	934.5	914.8	891.1
75°	1289.4	1289.4	1289.4	1273.6	1261.8	1249.9	1230.2	1210.5	1186.8	1159.2	1127.7
72.5°	1593.0	1593.0	1593.0	1573.3	1561.4	1541.7	1518.1	1490.5	1462.9	1427.4	1387.9
70°	1920.2	1920.2	1920.2	1896.6	1876.9	1857.2	1825.6	1794.1	1754.6	1715.2	1667.9
67.5°	2275.1	2275.1	2275.1	2247.5	2223.8	2196.2	2160.8	2121.3	2074.0	2018.8	1963.6
65°	2689.1	2689.1	2673.4	2649.7	2622.1	2582.7	2539.3	2484.1	2424.9	2354.0	2279.1
62.5°	3178.1	3178.1	3154.4	3126.8	3091.3	3040.0	2980.9	2909.9	2827.1	2736.4	2645.7
60°	3745.8	3745.8	3718.2	3682.8	3631.5	3568.4	3489.6	3398.9	3296.3	3182.0	3071.6
57.5°	4400.4	4400.4	4364.9	4317.6	4254.5	4175.6	4077.1	3962.7	3832.6	3690.6	3552.6
55°	5110.1	5110.1	5066.7	5011.5	4936.6	4842.0	4723.7	4589.6	4431.9	4270.3	4092.8
52.5°	5863.2	5863.2	5812.0	5748.9	5662.1	5551.7	5417.7	5260.0	5078.6	4889.3	4680.3
50°	6655.8	6655.8	6596.6	6525.7	6427.1	6297.0	6143.2	5961.8	5760.7	5539.9	5299.4
47.5°	7503.5	7503.5	7436.5	7353.7	7235.4	7085.6	6904.2	6695.2	6466.5	6218.1	5946.0
45°	8374.9	8374.9	8300.0	8205.4	8075.3	7905.7	7704.6	7503.5	7211.7	6923.9	6608.5
42.5°	9281.8	9281.8	9195.1	9088.6	8938.8	8753.4	8524.8	8264.5	7976.7	7653.4	7310.3
40°	10224.2	10224.2	10125.6	10003.4	9837.8	9624.8	9368.6	9076.8	8753.4	8394.6	8016.1
37.5°	11186.3	11186.3	11075.9	10941.8	10756.5	10519.9	10232.1	9908.7	9546.0	9147.7	8729.8
35°	12156.3	12156.3	12034.0	11888.1	11683.1	11422.9	11111.4	10752.5	10350.4	9916.6	9447.4
32.5°	13145.9	13145.9	13011.9	12846.3	12613.6	12325.8	11982.8	11592.4	11186.3	10681.6	10169.0
30°	14123.8	14123.8	13977.9	13796.5	13548.1	13232.7	12858.1	12428.3	11951.2	11434.7	10882.7
27.5°	15085.9	15046.5	14924.2	14731.0	14459.0	14123.8	13717.7	13252.4	12735.9	12168.1	11576.6
25°	16032.2	15988.8	15854.8	15641.9	15350.1	14983.4	14545.7	14048.9	13492.9	12893.6	12246.9
22.5°	16939.1	16891.8	16749.8	16521.1	16209.7	15811.4	15342.2	14809.9	14218.4	13575.7	12893.6
20°	17779.0	17727.7	17581.8	17341.3	17018.0	16596.1	16099.2	15527.5	14896.6	14218.4	13492.9
17.5°	18536.0	18484.8	18331.0	18082.6	17779.0	17309.7	16797.2	16193.9	15527.5	14809.9	14048.9
15°	19202.4	19147.2	18989.5	18741.1	18394.1	17952.5	17412.3	16797.2	16099.2	15342.2	14545.7
12.5°	19770.2	19715.0	19553.3	19304.9	18946.1	18504.5	17952.5	17309.7	16596.1	15811.4	14983.4
10°	20219.7	20164.5	20010.7	19774.1	19403.5	18946.1	18394.1	17779.0	17018.0	16209.7	15350.1
7.5°	20543.0	20491.7	20349.8	20113.2	19774.1	19304.9	18741.1	18082.6	17341.3	16521.1	15641.9
5°	20787.5	20728.3	20586.4	20349.8	20010.7	19553.3	18989.5	18331.0	17581.8	16749.8	15854.8
2.5°	20957.0	20886.0	20728.3	20491.7	20164.5	19715.0	19147.2	18484.8	17727.7	16891.8	15988.8
0°	21004.3	20957.0	20787.5	20543.0	20219.7	19770.2	19202.4	18536.0	17779.0	16939.1	16032.2

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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°	141.9	141.9	138.0	134.1	130.1	122.2	118.3	114.3	110.4	102.5	98.6
85°	299.7	291.8	283.9	276.0	264.2	256.3	244.5	236.6	224.8	212.9	201.1
82.5°	473.2	461.3	445.6	433.7	418.0	398.2	382.5	362.8	343.0	327.3	307.6
80°	662.4	642.7	623.0	603.3	579.6	556.0	532.3	508.6	481.0	453.4	425.8
77.5°	867.5	839.9	812.3	780.7	753.1	721.6	690.0	658.5	623.0	587.5	552.0
75°	1096.2	1060.7	1021.2	981.8	946.3	902.9	859.6	816.2	768.9	725.5	678.2
72.5°	1344.6	1301.2	1253.9	1206.6	1155.3	1100.1	1044.9	985.7	930.5	875.3	816.2
70°	1612.7	1561.4	1502.3	1443.1	1380.0	1313.0	1246.0	1175.0	1104.0	1033.1	962.1
67.5°	1900.5	1837.4	1766.5	1695.5	1616.6	1537.8	1458.9	1376.1	1289.4	1202.6	1119.8
65°	2208.1	2129.2	2046.4	1955.7	1865.0	1774.3	1679.7	1581.1	1482.6	1380.0	1289.4
62.5°	2551.1	2452.5	2346.1	2235.7	2133.2	2022.8	1920.2	1798.0	1679.7	1565.4	1451.0
60°	2949.4	2819.2	2689.1	2551.1	2421.0	2279.1	2152.9	2018.8	1884.8	1754.6	1620.6
57.5°	3394.9	3229.3	3071.6	2906.0	2732.5	2574.8	2413.1	2251.4	2101.6	1947.8	1801.9
55°	3899.6	3698.5	3501.4	3296.3	3095.3	2898.1	2693.1	2511.7	2326.4	2152.9	1983.3
52.5°	4451.6	4222.9	3978.5	3745.8	3489.6	3245.1	3016.4	2787.7	2570.8	2361.9	2168.6
50°	5043.1	4775.0	4495.0	4211.1	3919.3	3631.5	3355.5	3087.4	2835.0	2590.5	2361.9
47.5°	5658.2	5354.6	5035.2	4711.9	4400.4	4049.5	3718.2	3414.6	3111.0	2835.0	2570.8
45°	6289.1	5946.0	5595.1	5228.4	4861.7	4483.2	4116.5	3745.8	3414.6	3087.4	2787.7
42.5°	6939.7	6553.3	6162.9	5756.8	5350.6	4936.6	4522.6	4116.5	3718.2	3355.5	3016.4
40°	7610.0	7184.1	6738.6	6297.0	5863.2	5390.1	4936.6	4483.2	4049.5	3631.5	3245.1
37.5°	8280.3	7815.0	7334.0	6837.2	6340.3	5863.2	5350.6	4861.7	4400.4	3919.3	3489.6
35°	8954.5	8442.0	7921.5	7381.3	6837.2	6297.0	5756.8	5228.4	4711.9	4211.1	3745.8
32.5°	9632.7	9072.8	8497.2	7921.5	7334.0	6738.6	6162.9	5595.1	5035.2	4495.0	3978.5
30°	10299.1	9691.9	9072.8	8442.0	7815.0	7184.1	6553.3	5946.0	5354.6	4775.0	4222.9
27.5°	10949.7	10299.1	9632.7	8954.5	8280.3	7610.0	6939.7	6289.1	5658.2	5043.1	4451.6
25°	11576.6	10882.7	10169.0	9447.4	8729.8	8016.1	7310.3	6608.5	5946.0	5299.4	4680.3
22.5°	12168.1	11434.7	10681.6	9916.6	9147.7	8394.6	7653.4	6923.9	6218.1	5539.9	4889.3
20°	12735.9	11951.2	11186.3	10350.4	9546.0	8753.4	7976.7	7211.7	6466.5	5760.7	5078.6
17.5°	13252.4	12428.3	11592.4	10752.5	9908.7	9076.8	8264.5	7503.5	6695.2	5961.8	5260.0
15°	13717.7	12858.1	11982.8	11111.4	10232.1	9368.6	8524.8	7704.6	6904.2	6143.2	5417.7
12.5°	14123.8	13232.7	12325.8	11422.9	10519.9	9624.8	8753.4	7905.7	7085.6	6297.0	5551.7
10°	14459.0	13548.1	12613.6	11683.1	10756.5	9837.8	8938.8	8075.3	7235.4	6427.1	5662.1
7.5°	14731.0	13796.5	12846.3	11888.1	10941.8	10003.4	9088.6	8205.4	7353.7	6525.7	5748.9
5°	14924.2	13977.9	13011.9	12034.0	11075.9	10125.6	9195.1	8300.0	7436.5	6596.6	5812.0
2.5°	15046.5	14123.8	13145.9	12156.3	11186.3	10224.2	9281.8	8374.9	7503.5	6655.8	5863.2
0°	15085.9	14123.8	13145.9	12156.3	11186.3	10224.2	9281.8	8374.9	7503.5	6655.8	5863.2

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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°	94.6	86.7	78.9	74.9	67.0	63.1	55.2	47.3	43.4	35.5	27.6
85°	189.3	173.5	161.7	149.8	138.0	122.2	110.4	98.6	82.8	71.0	55.2
82.5°	287.8	268.1	248.4	228.7	209.0	189.3	165.6	145.9	126.2	106.5	82.8
80°	398.2	366.7	339.1	311.5	283.9	256.3	224.8	197.1	165.6	138.0	110.4
77.5°	512.6	477.1	437.7	398.2	358.8	323.3	283.9	248.4	212.9	173.5	138.0
75°	634.8	587.5	544.1	492.9	445.6	394.3	347.0	299.7	256.3	212.9	165.6
72.5°	761.0	701.9	642.7	587.5	528.4	469.2	414.0	354.9	299.7	248.4	197.1
70°	891.1	820.1	749.2	682.1	615.1	544.1	481.0	414.0	347.0	283.9	224.8
67.5°	1029.1	946.3	863.5	776.8	701.9	623.0	544.1	469.2	394.3	323.3	256.3
65°	1179.0	1080.4	977.9	887.2	788.6	701.9	615.1	528.4	445.6	358.8	283.9
62.5°	1332.7	1218.4	1104.0	989.7	887.2	776.8	682.1	587.5	492.9	398.2	311.5
60°	1490.5	1360.3	1230.2	1104.0	977.9	863.5	749.2	642.7	544.1	437.7	339.1
57.5°	1652.1	1506.2	1360.3	1218.4	1080.4	946.3	820.1	701.9	587.5	477.1	366.7
55°	1817.7	1652.1	1490.5	1332.7	1179.0	1029.1	891.1	761.0	634.8	512.6	398.2
52.5°	1983.3	1801.9	1620.6	1451.0	1289.4	1119.8	962.1	816.2	678.2	552.0	425.8
50°	2152.9	1947.8	1754.6	1565.4	1380.0	1202.6	1033.1	875.3	725.5	587.5	453.4
47.5°	2326.4	2101.6	1884.8	1679.7	1482.6	1289.4	1104.0	930.5	768.9	623.0	481.0
45°	2511.7	2251.4	2018.8	1798.0	1581.1	1376.1	1175.0	985.7	816.2	658.5	508.6
42.5°	2693.1	2413.1	2152.9	1920.2	1679.7	1458.9	1246.0	1044.9	859.6	690.0	532.3
40°	2898.1	2574.8	2279.1	2022.8	1774.3	1537.8	1313.0	1100.1	902.9	721.6	556.0
37.5°	3095.3	2732.5	2421.0	2133.2	1865.0	1616.6	1380.0	1155.3	946.3	753.1	579.6
35°	3296.3	2906.0	2551.1	2235.7	1955.7	1695.5	1443.1	1206.6	981.8	780.7	603.3
32.5°	3501.4	3071.6	2689.1	2346.1	2046.4	1766.5	1502.3	1253.9	1021.2	812.3	623.0
30°	3698.5	3229.3	2819.2	2452.5	2129.2	1837.4	1561.4	1301.2	1060.7	839.9	642.7
27.5°	3899.6	3394.9	2949.4	2551.1	2208.1	1900.5	1612.7	1344.6	1096.2	867.5	662.4
25°	4092.8	3552.6	3071.6	2645.7	2279.1	1963.6	1667.9	1387.9	1127.7	891.1	678.2
22.5°	4270.3	3690.6	3182.0	2736.4	2354.0	2018.8	1715.2	1427.4	1159.2	914.8	694.0
20°	4431.9	3832.6	3296.3	2827.1	2424.9	2074.0	1754.6	1462.9	1186.8	934.5	709.7
17.5°	4589.6	3962.7	3398.9	2909.9	2484.1	2121.3	1794.1	1490.5	1210.5	950.3	721.6
15°	4723.7	4077.1	3489.6	2980.9	2539.3	2160.8	1825.6	1518.1	1230.2	966.0	729.5
12.5°	4842.0	4175.6	3568.4	3040.0	2582.7	2196.2	1857.2	1541.7	1249.9	977.9	741.3
10°	4936.6	4254.5	3631.5	3091.3	2622.1	2223.8	1876.9	1561.4	1261.8	989.7	749.2
7.5°	5011.5	4317.6	3682.8	3126.8	2649.7	2247.5	1896.6	1573.3	1273.6	997.6	761.0
5°	5066.7	4364.9	3718.2	3154.4	2673.4	2275.1	1920.2	1593.0	1289.4	1009.4	761.0
2.5°	5110.1	4400.4	3745.8	3178.1	2689.1	2275.1	1920.2	1593.0	1289.4	1009.4	761.0
0°	5110.1	4400.4	3745.8	3178.1	2689.1	2275.1	1920.2	1593.0	1289.4	1009.4	761.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.7	15.8	7.9	0.0
85°	43.4	27.6	15.8	0.0
82.5°	63.1	43.4	19.7	0.0
80°	82.8	55.2	27.6	0.0
77.5°	106.5	71.0	35.5	0.0
75°	126.2	82.8	43.4	0.0
72.5°	145.9	98.6	47.3	0.0
70°	165.6	110.4	55.2	0.0
67.5°	189.3	122.2	63.1	0.0
65°	209.0	138.0	67.0	0.0
62.5°	228.7	149.8	74.9	0.0
60°	248.4	161.7	78.9	0.0
57.5°	268.1	173.5	86.7	0.0
55°	287.8	189.3	94.6	0.0
52.5°	307.6	201.1	98.6	0.0
50°	327.3	212.9	102.5	0.0
47.5°	343.0	224.8	110.4	0.0
45°	362.8	236.6	114.3	0.0
42.5°	382.5	244.5	118.3	0.0
40°	398.2	256.3	122.2	0.0
37.5°	418.0	264.2	130.1	0.0
35°	433.7	276.0	134.1	0.0
32.5°	445.6	283.9	138.0	0.0
30°	461.3	291.8	141.9	0.0
27.5°	473.2	299.7	141.9	0.0
25°	485.0	307.6	145.9	0.0
22.5°	496.8	311.5	149.8	0.0
20°	508.6	319.4	153.8	0.0
17.5°	516.5	323.3	153.8	0.0
15°	524.4	327.3	161.7	0.0
12.5°	528.4	331.2	161.7	0.0
10°	536.2	339.1	161.7	0.0
7.5°	544.1	339.1	161.7	0.0
5°	544.1	339.1	161.7	0.0
2.5°	544.1	339.1	161.7	0.0
0°	544.1	339.1	161.7	0.0

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