

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: P623948

Luminaire Tested: **IFLD-L-SA7B-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623948
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

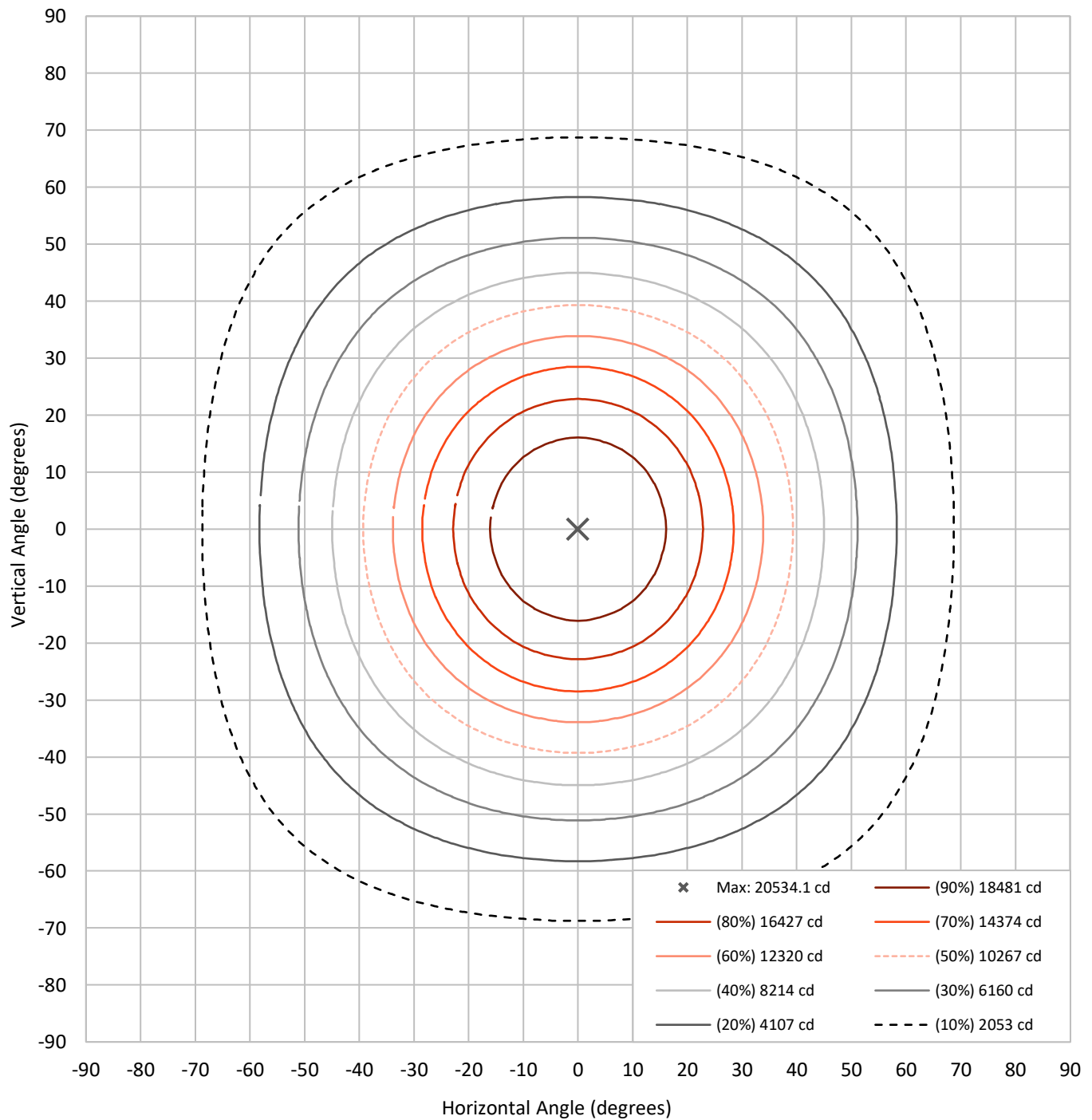
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36972.1 lumens	Max Intensity:	20534.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	131.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	15997.5 lumens	Field Lumens:	26195.3 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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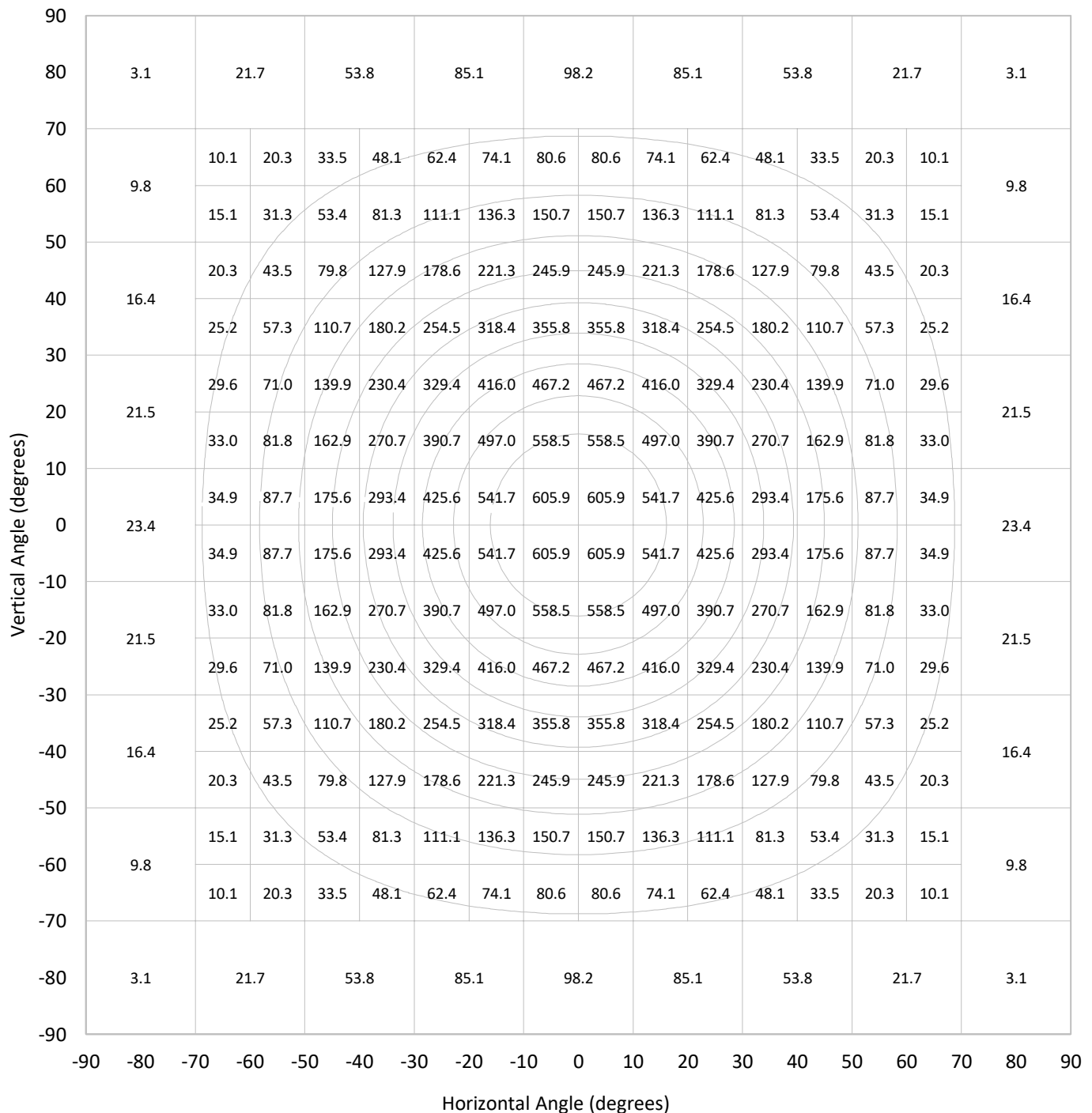
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Iso-Candela Plot



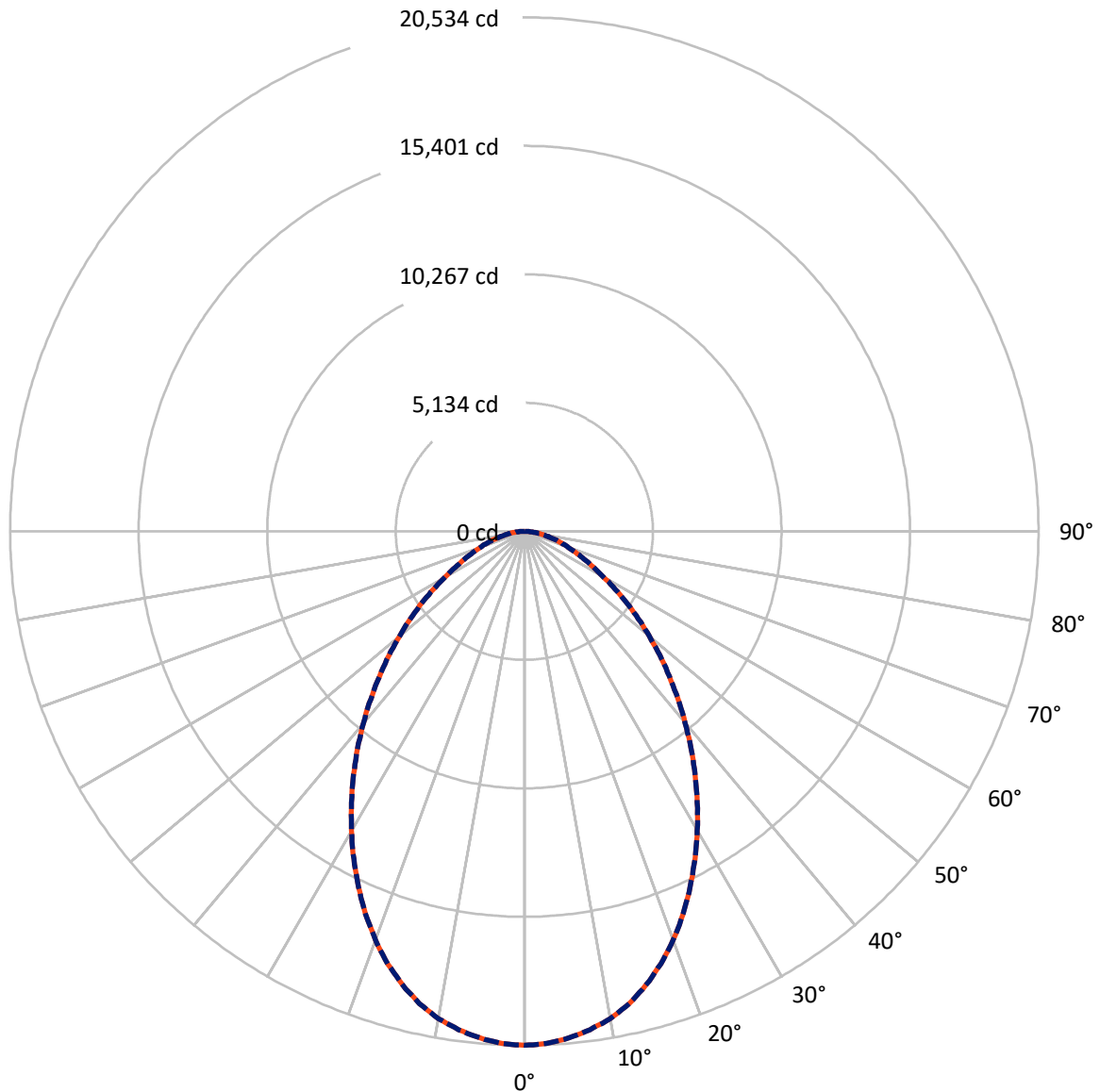
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Lumen Table



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Luminous Intensity Polar Plot

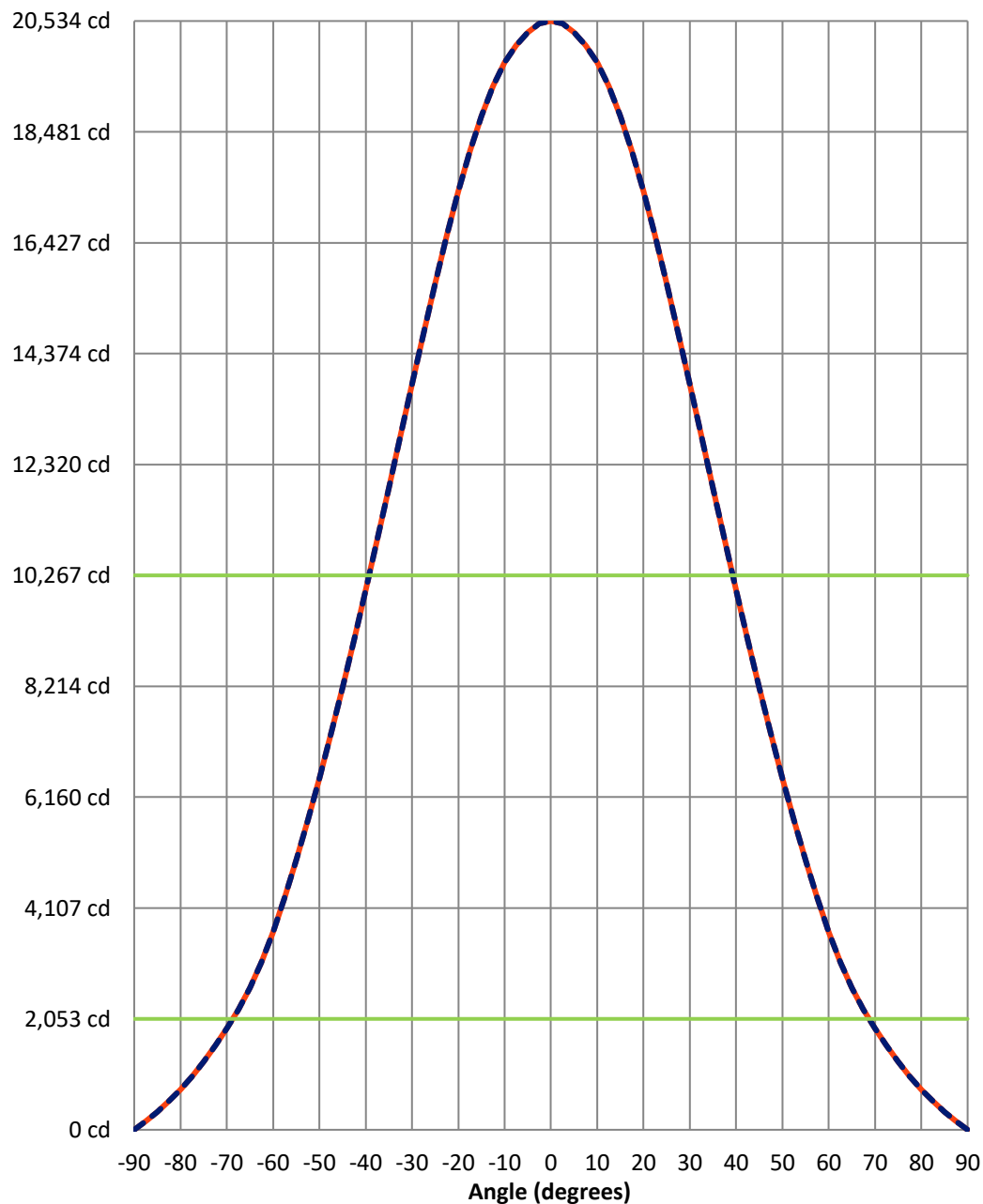


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 15997.5
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 26195.3
Efficiency: 70.9%

Spill:

Lumens: 10776.8
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°	158.0	158.0	158.0	158.0	158.0	158.0	158.0	150.3	150.3	146.5	142.6
85°	331.5	331.5	331.5	331.5	331.5	323.8	319.9	316.1	312.2	304.5	300.7
82.5°	532.0	532.0	532.0	532.0	524.2	516.5	512.7	505.0	497.3	485.7	474.1
80°	744.0	744.0	744.0	744.0	732.4	724.7	713.1	705.4	693.8	678.4	663.0
77.5°	986.8	986.8	986.8	975.2	967.5	956.0	944.4	929.0	913.6	894.3	871.2
75°	1260.5	1260.5	1260.5	1245.1	1233.5	1221.9	1202.7	1183.4	1160.3	1133.3	1102.5
72.5°	1557.3	1557.3	1557.3	1538.0	1526.5	1507.2	1484.1	1457.1	1430.1	1395.4	1356.9
70°	1877.2	1877.2	1877.2	1854.1	1834.8	1815.6	1784.7	1753.9	1715.4	1676.8	1630.5
67.5°	2224.2	2224.2	2224.2	2197.2	2174.1	2147.1	2112.4	2073.8	2027.6	1973.6	1919.7
65°	2628.9	2628.9	2613.5	2590.4	2563.4	2524.8	2482.4	2428.5	2370.7	2301.3	2228.0
62.5°	3106.9	3106.9	3083.8	3056.8	3022.1	2972.0	2914.2	2844.8	2763.8	2675.2	2586.5
60°	3662.0	3662.0	3635.0	3600.3	3550.2	3488.5	3411.4	3322.8	3222.5	3110.8	3002.8
57.5°	4301.9	4301.9	4267.2	4220.9	4159.2	4082.2	3985.8	3874.0	3746.8	3608.0	3473.1
55°	4995.7	4995.7	4953.3	4899.4	4826.1	4733.6	4618.0	4486.9	4332.7	4174.7	4001.2
52.5°	5732.0	5732.0	5681.9	5620.2	5535.4	5427.4	5296.4	5142.2	4964.9	4779.9	4575.6
50°	6506.8	6506.8	6448.9	6379.6	6283.2	6156.0	6005.7	5828.3	5631.7	5415.9	5180.7
47.5°	7335.5	7335.5	7270.0	7189.1	7073.4	6926.9	6749.6	6545.3	6321.7	6078.9	5812.9
45°	8187.4	8187.4	8114.2	8021.7	7894.5	7728.7	7532.1	7335.5	7050.3	6768.9	6460.5
42.5°	9074.0	9074.0	8989.2	8885.1	8738.7	8557.5	8333.9	8079.5	7798.1	7482.0	7146.7
40°	9995.3	9995.3	9898.9	9779.4	9617.5	9409.4	9158.8	8873.6	8557.5	8206.7	7836.6
37.5°	10935.8	10935.8	10827.9	10696.9	10515.7	10284.4	10003.0	9686.9	9332.3	8943.0	8534.4
35°	11884.1	11884.1	11764.6	11622.0	11421.5	11167.1	10862.6	10511.8	10118.6	9694.6	9235.9
32.5°	12851.6	12851.6	12720.6	12558.7	12331.3	12049.9	11714.5	11332.9	10935.8	10442.4	9941.3
30°	13807.6	13807.6	13665.0	13487.7	13244.8	12936.4	12570.2	12150.1	11683.7	11178.7	10639.0
27.5°	14748.2	14709.6	14590.1	14401.2	14135.3	13807.6	13410.6	12955.7	12450.8	11895.7	11317.5
25°	15673.3	15630.9	15499.8	15291.7	15006.4	14647.9	14220.1	13734.4	13190.9	12604.9	11972.8
22.5°	16559.9	16513.6	16374.9	16151.3	15846.8	15457.4	14998.7	14478.3	13900.1	13271.8	12604.9
20°	17380.9	17330.8	17188.2	16953.1	16637.0	16224.5	15738.8	15179.9	14563.1	13900.1	13190.9
17.5°	18121.0	18070.9	17920.6	17677.8	17380.9	16922.2	16421.1	15831.3	15179.9	14478.3	13734.4
15°	18772.5	18718.5	18564.3	18321.5	17982.3	17550.5	17022.5	16421.1	15738.8	14998.7	14220.1
12.5°	19327.6	19273.6	19115.6	18872.7	18521.9	18090.2	17550.5	16922.2	16224.5	15457.4	14647.9
10°	19767.0	19713.0	19562.7	19331.4	18969.1	18521.9	17982.3	17380.9	16637.0	15846.8	15006.4
7.5°	20083.1	20033.0	19894.2	19662.9	19331.4	18872.7	18321.5	17677.8	16953.1	16151.3	15291.7
5°	20322.1	20264.3	20125.5	19894.2	19562.7	19115.6	18564.3	17920.6	17188.2	16374.9	15499.8
2.5°	20487.8	20418.5	20264.3	20033.0	19713.0	19273.6	18718.5	18070.9	17330.8	16513.6	15630.9
0°	20534.1	20487.8	20322.1	20083.1	19767.0	19327.6	18772.5	18121.0	17380.9	16559.9	15673.3

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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°	138.8	138.8	134.9	131.1	127.2	119.5	115.6	111.8	107.9	100.2	96.4
85°	293.0	285.2	277.5	269.8	258.3	250.6	239.0	231.3	219.7	208.2	196.6
82.5°	462.6	451.0	435.6	424.0	408.6	389.3	373.9	354.6	335.4	319.9	300.7
80°	647.6	628.3	609.0	589.8	566.6	543.5	520.4	497.3	470.3	443.3	416.3
77.5°	848.0	821.1	794.1	763.2	736.3	705.4	674.6	643.7	609.0	574.4	539.7
75°	1071.6	1036.9	998.4	959.8	925.1	882.7	840.3	797.9	751.7	709.3	663.0
72.5°	1314.5	1272.1	1225.8	1179.5	1129.4	1075.5	1021.5	963.7	909.7	855.7	797.9
70°	1576.6	1526.5	1468.6	1410.8	1349.2	1283.6	1218.1	1148.7	1079.3	1009.9	940.6
67.5°	1858.0	1796.3	1726.9	1657.5	1580.4	1503.3	1426.2	1345.3	1260.5	1175.7	1094.7
65°	2158.6	2081.5	2000.6	1911.9	1823.3	1734.6	1642.1	1545.7	1449.4	1349.2	1260.5
62.5°	2494.0	2397.6	2293.6	2185.6	2085.4	1977.5	1877.2	1757.8	1642.1	1530.3	1418.5
60°	2883.3	2756.1	2628.9	2494.0	2366.8	2228.0	2104.7	1973.6	1842.6	1715.4	1584.3
57.5°	3318.9	3157.0	3002.8	2840.9	2671.3	2517.1	2359.1	2201.0	2054.6	1904.2	1761.6
55°	3812.3	3615.7	3423.0	3222.5	3026.0	2833.2	2632.8	2455.5	2274.3	2104.7	1938.9
52.5°	4352.0	4128.4	3889.4	3662.0	3411.4	3172.4	2948.9	2725.3	2513.3	2309.0	2120.1
50°	4930.2	4668.1	4394.4	4116.8	3831.6	3550.2	3280.4	3018.2	2771.5	2532.6	2309.0
47.5°	5531.5	5234.7	4922.5	4606.4	4301.9	3958.8	3635.0	3338.2	3041.4	2771.5	2513.3
45°	6148.3	5812.9	5469.8	5111.4	4752.9	4382.8	4024.3	3662.0	3338.2	3018.2	2725.3
42.5°	6784.3	6406.5	6024.9	5627.9	5230.9	4826.1	4421.4	4024.3	3635.0	3280.4	2948.9
40°	7439.6	7023.3	6587.7	6156.0	5732.0	5269.4	4826.1	4382.8	3958.8	3550.2	3172.4
37.5°	8094.9	7640.1	7169.8	6684.1	6198.4	5732.0	5230.9	4752.9	4301.9	3831.6	3411.4
35°	8754.1	8253.0	7744.1	7216.0	6684.1	6156.0	5627.9	5111.4	4606.4	4116.8	3662.0
32.5°	9417.1	8869.7	8306.9	7744.1	7169.8	6587.7	6024.9	5469.8	4922.5	4394.4	3889.4
30°	10068.5	9474.9	8869.7	8253.0	7640.1	7023.3	6406.5	5812.9	5234.7	4668.1	4128.4
27.5°	10704.6	10068.5	9417.1	8754.1	8094.9	7439.6	6784.3	6148.3	5531.5	4930.2	4352.0
25°	11317.5	10639.0	9941.3	9235.9	8534.4	7836.6	7146.7	6460.5	5812.9	5180.7	4575.6
22.5°	11895.7	11178.7	10442.4	9694.6	8943.0	8206.7	7482.0	6768.9	6078.9	5415.9	4779.9
20°	12450.8	11683.7	10935.8	10118.6	9332.3	8557.5	7798.1	7050.3	6321.7	5631.7	4964.9
17.5°	12955.7	12150.1	11332.9	10511.8	9686.9	8873.6	8079.5	7335.5	6545.3	5828.3	5142.2
15°	13410.6	12570.2	11714.5	10862.6	10003.0	9158.8	8333.9	7532.1	6749.6	6005.7	5296.4
12.5°	13807.6	12936.4	12049.9	11167.1	10284.4	9409.4	8557.5	7728.7	6926.9	6156.0	5427.4
10°	14135.3	13244.8	12331.3	11421.5	10515.7	9617.5	8738.7	7894.5	7073.4	6283.2	5535.4
7.5°	14401.2	13487.7	12558.7	11622.0	10696.9	9779.4	8885.1	8021.7	7189.1	6379.6	5620.2
5°	14590.1	13665.0	12720.6	11764.6	10827.9	9898.9	8989.2	8114.2	7270.0	6448.9	5681.9
2.5°	14709.6	13807.6	12851.6	11884.1	10935.8	9995.3	9074.0	8187.4	7335.5	6506.8	5732.0
0°	14748.2	13807.6	12851.6	11884.1	10935.8	9995.3	9074.0	8187.4	7335.5	6506.8	5732.0

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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°	92.5	84.8	77.1	73.2	65.5	61.7	54.0	46.3	42.4	34.7	27.0
85°	185.0	169.6	158.0	146.5	134.9	119.5	107.9	96.4	80.9	69.4	54.0
82.5°	281.4	262.1	242.8	223.6	204.3	185.0	161.9	142.6	123.4	104.1	80.9
80°	389.3	358.5	331.5	304.5	277.5	250.6	219.7	192.7	161.9	134.9	107.9
77.5°	501.1	466.4	427.9	389.3	350.8	316.1	277.5	242.8	208.2	169.6	134.9
75°	620.6	574.4	532.0	481.8	435.6	385.5	339.2	293.0	250.6	208.2	161.9
72.5°	744.0	686.1	628.3	574.4	516.5	458.7	404.7	346.9	293.0	242.8	192.7
70°	871.2	801.8	732.4	666.9	601.3	532.0	470.3	404.7	339.2	277.5	219.7
67.5°	1006.1	925.1	844.2	759.4	686.1	609.0	532.0	458.7	385.5	316.1	250.6
65°	1152.6	1056.2	956.0	867.3	770.9	686.1	601.3	516.5	435.6	350.8	277.5
62.5°	1302.9	1191.1	1079.3	967.5	867.3	759.4	666.9	574.4	481.8	389.3	304.5
60°	1457.1	1329.9	1202.7	1079.3	956.0	844.2	732.4	628.3	532.0	427.9	331.5
57.5°	1615.1	1472.5	1329.9	1191.1	1056.2	925.1	801.8	686.1	574.4	466.4	358.5
55°	1777.0	1615.1	1457.1	1302.9	1152.6	1006.1	871.2	744.0	620.6	501.1	389.3
52.5°	1938.9	1761.6	1584.3	1418.5	1260.5	1094.7	940.6	797.9	663.0	539.7	416.3
50°	2104.7	1904.2	1715.4	1530.3	1349.2	1175.7	1009.9	855.7	709.3	574.4	443.3
47.5°	2274.3	2054.6	1842.6	1642.1	1449.4	1260.5	1079.3	909.7	751.7	609.0	470.3
45°	2455.5	2201.0	1973.6	1757.8	1545.7	1345.3	1148.7	963.7	797.9	643.7	497.3
42.5°	2632.8	2359.1	2104.7	1877.2	1642.1	1426.2	1218.1	1021.5	840.3	674.6	520.4
40°	2833.2	2517.1	2228.0	1977.5	1734.6	1503.3	1283.6	1075.5	882.7	705.4	543.5
37.5°	3026.0	2671.3	2366.8	2085.4	1823.3	1580.4	1349.2	1129.4	925.1	736.3	566.6
35°	3222.5	2840.9	2494.0	2185.6	1911.9	1657.5	1410.8	1179.5	959.8	763.2	589.8
32.5°	3423.0	3002.8	2628.9	2293.6	2000.6	1726.9	1468.6	1225.8	998.4	794.1	609.0
30°	3615.7	3157.0	2756.1	2397.6	2081.5	1796.3	1526.5	1272.1	1036.9	821.1	628.3
27.5°	3812.3	3318.9	2883.3	2494.0	2158.6	1858.0	1576.6	1314.5	1071.6	848.0	647.6
25°	4001.2	3473.1	3002.8	2586.5	2228.0	1919.7	1630.5	1356.9	1102.5	871.2	663.0
22.5°	4174.7	3608.0	3110.8	2675.2	2301.3	1973.6	1676.8	1395.4	1133.3	894.3	678.4
20°	4332.7	3746.8	3222.5	2763.8	2370.7	2027.6	1715.4	1430.1	1160.3	913.6	693.8
17.5°	4486.9	3874.0	3322.8	2844.8	2428.5	2073.8	1753.9	1457.1	1183.4	929.0	705.4
15°	4618.0	3985.8	3411.4	2914.2	2482.4	2112.4	1784.7	1484.1	1202.7	944.4	713.1
12.5°	4733.6	4082.2	3488.5	2972.0	2524.8	2147.1	1815.6	1507.2	1221.9	956.0	724.7
10°	4826.1	4159.2	3550.2	3022.1	2563.4	2174.1	1834.8	1526.5	1233.5	967.5	732.4
7.5°	4899.4	4220.9	3600.3	3056.8	2590.4	2197.2	1854.1	1538.0	1245.1	975.2	744.0
5°	4953.3	4267.2	3635.0	3083.8	2613.5	2224.2	1877.2	1557.3	1260.5	986.8	744.0
2.5°	4995.7	4301.9	3662.0	3106.9	2628.9	2224.2	1877.2	1557.3	1260.5	986.8	744.0
0°	4995.7	4301.9	3662.0	3106.9	2628.9	2224.2	1877.2	1557.3	1260.5	986.8	744.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.3	15.4	7.7	0.0
85°	42.4	27.0	15.4	0.0
82.5°	61.7	42.4	19.3	0.0
80°	80.9	54.0	27.0	0.0
77.5°	104.1	69.4	34.7	0.0
75°	123.4	80.9	42.4	0.0
72.5°	142.6	96.4	46.3	0.0
70°	161.9	107.9	54.0	0.0
67.5°	185.0	119.5	61.7	0.0
65°	204.3	134.9	65.5	0.0
62.5°	223.6	146.5	73.2	0.0
60°	242.8	158.0	77.1	0.0
57.5°	262.1	169.6	84.8	0.0
55°	281.4	185.0	92.5	0.0
52.5°	300.7	196.6	96.4	0.0
50°	319.9	208.2	100.2	0.0
47.5°	335.4	219.7	107.9	0.0
45°	354.6	231.3	111.8	0.0
42.5°	373.9	239.0	115.6	0.0
40°	389.3	250.6	119.5	0.0
37.5°	408.6	258.3	127.2	0.0
35°	424.0	269.8	131.1	0.0
32.5°	435.6	277.5	134.9	0.0
30°	451.0	285.2	138.8	0.0
27.5°	462.6	293.0	138.8	0.0
25°	474.1	300.7	142.6	0.0
22.5°	485.7	304.5	146.5	0.0
20°	497.3	312.2	150.3	0.0
17.5°	505.0	316.1	150.3	0.0
15°	512.7	319.9	158.0	0.0
12.5°	516.5	323.8	158.0	0.0
10°	524.2	331.5	158.0	0.0
7.5°	532.0	331.5	158.0	0.0
5°	532.0	331.5	158.0	0.0
2.5°	532.0	331.5	158.0	0.0
0°	532.0	331.5	158.0	0.0

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