

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: P623906

Luminaire Tested: **IFLD-S-SA3D-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623906
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

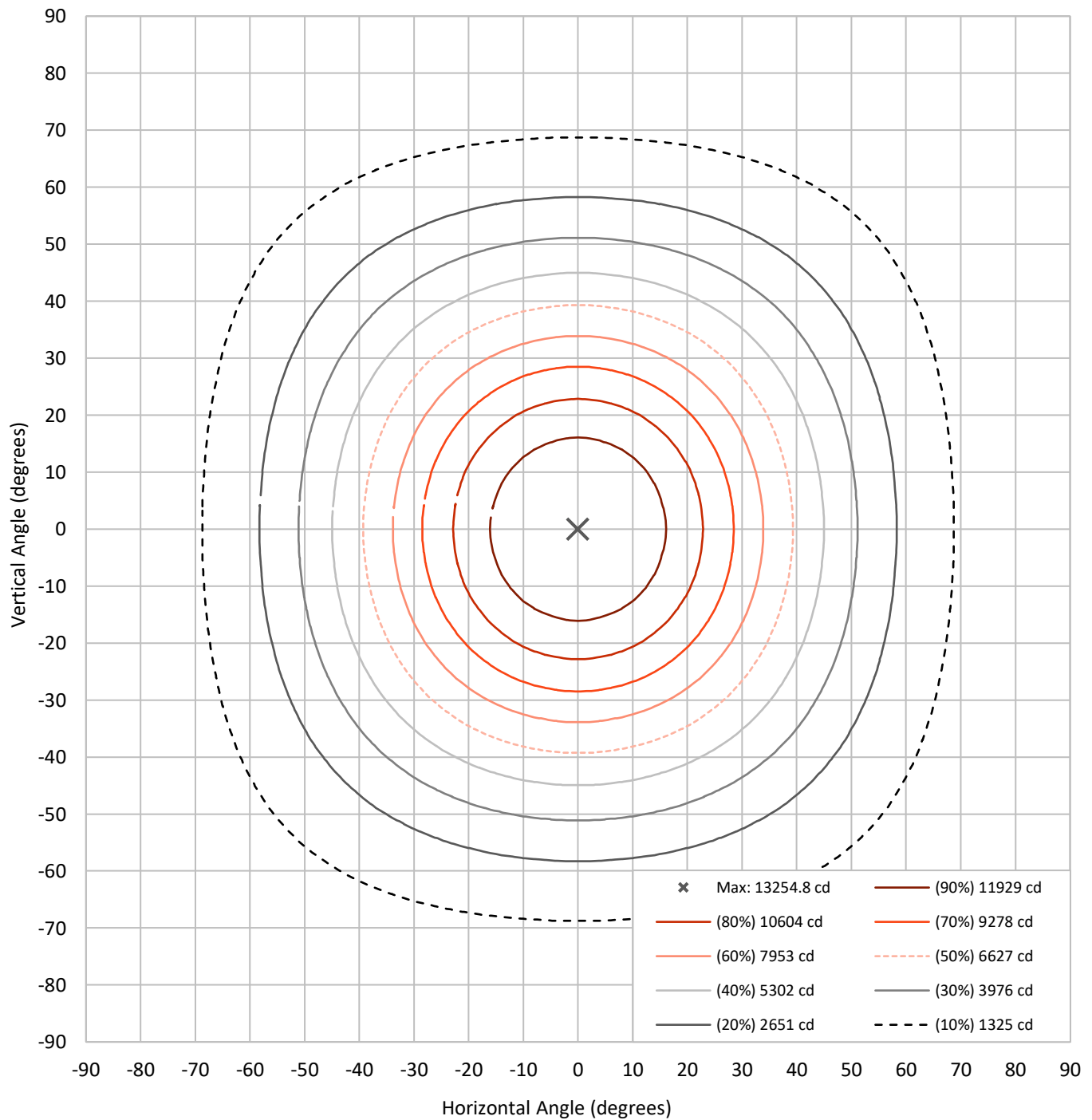
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23865.6 lumens	Max Intensity:	13254.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	129.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	10326.4 lumens	Field Lumens:	16909.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

Input Watts (W): 184.1
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



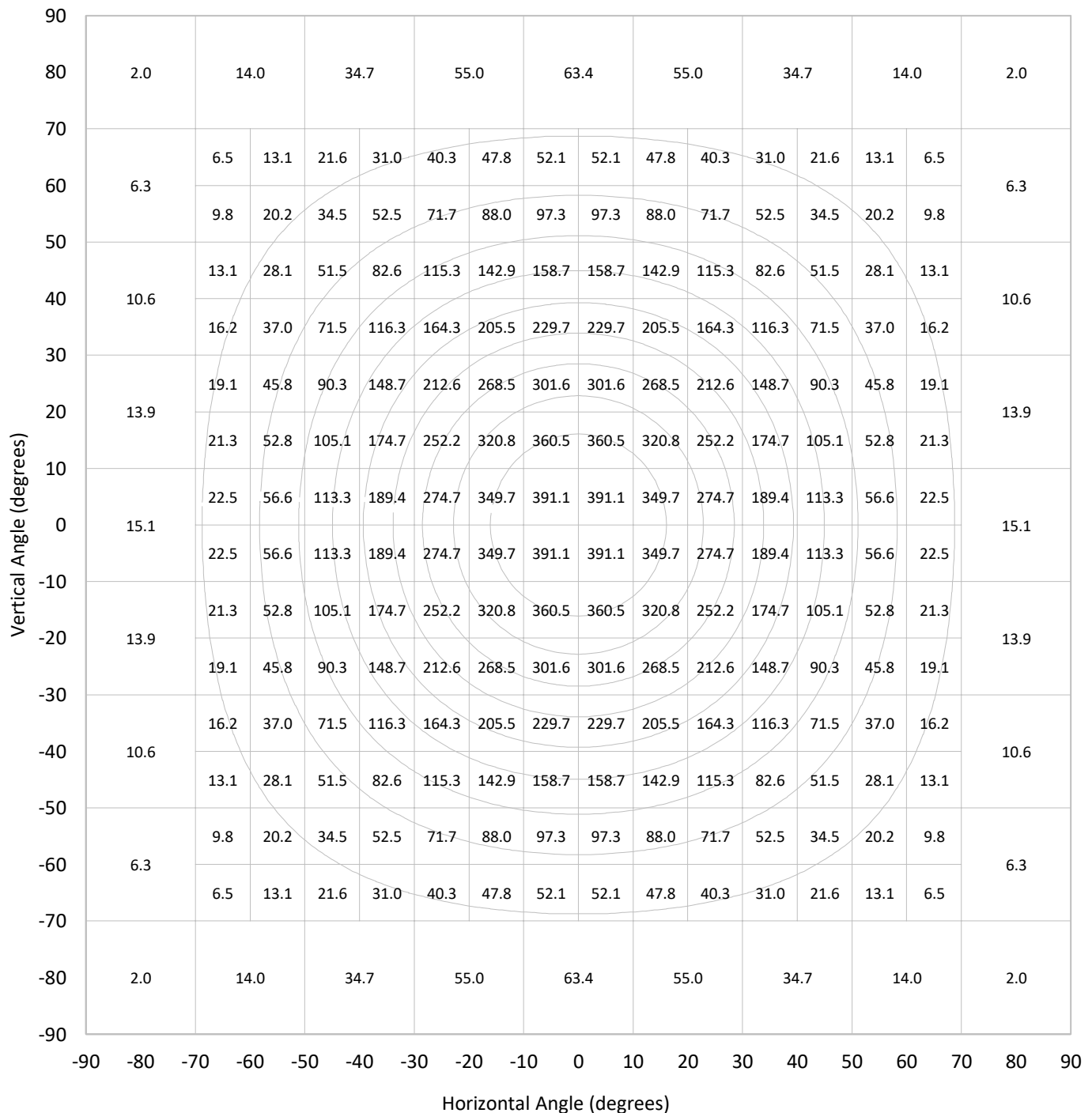
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Iso-Candela Plot



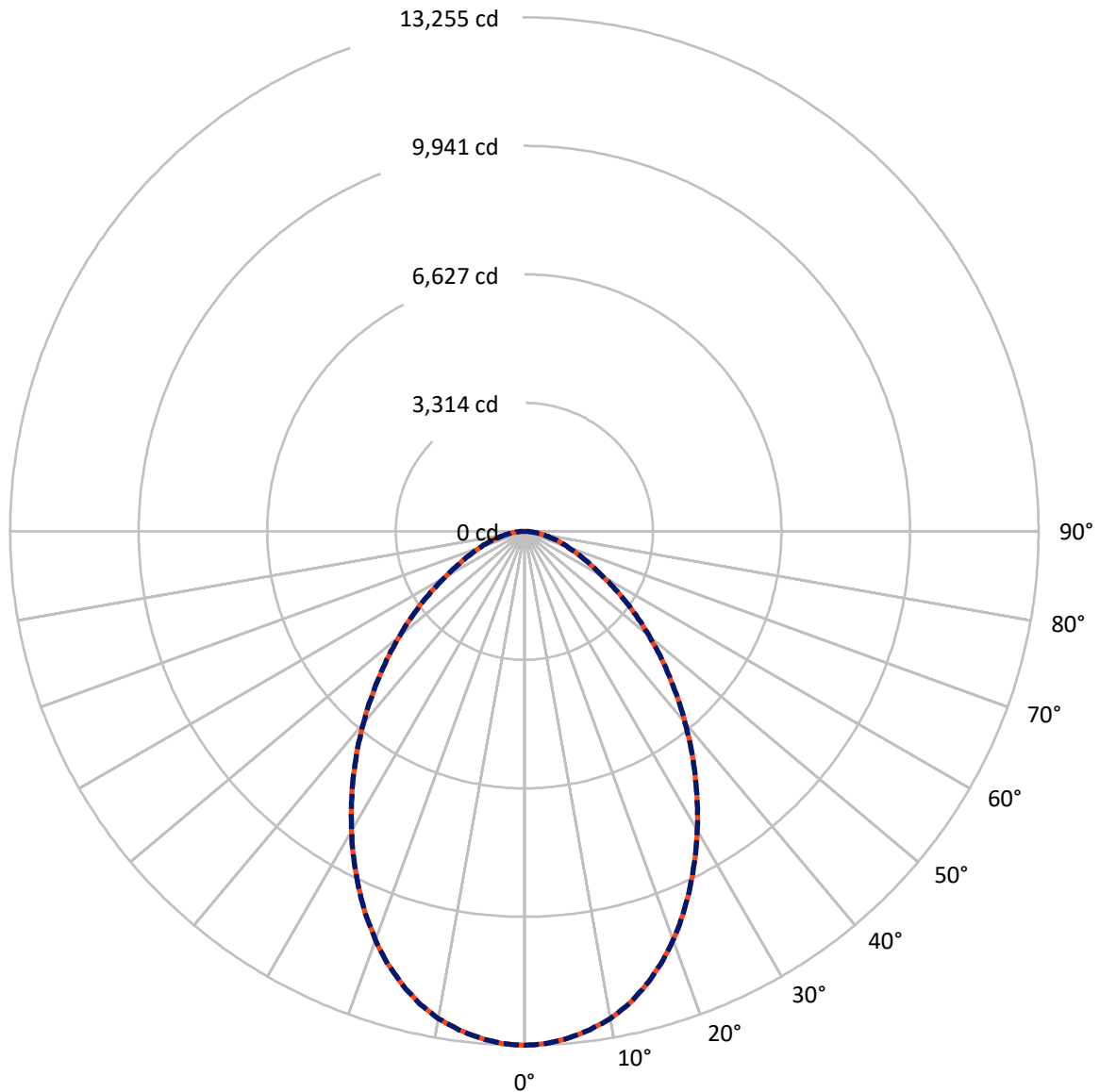
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Lumen Table



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Luminous Intensity Polar Plot

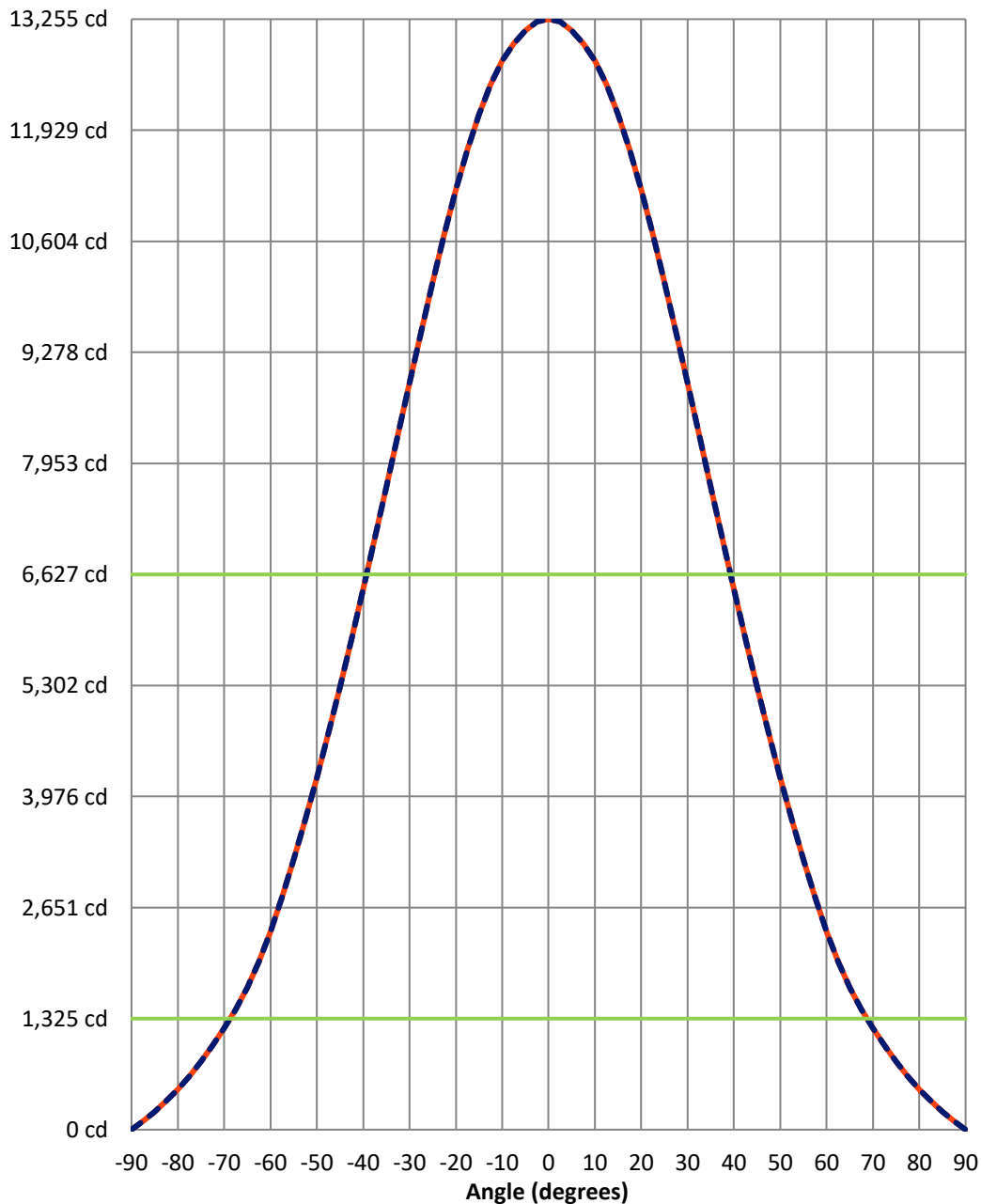


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 10326.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 16909.1
Efficiency: 70.9%

Spill:

Lumens: 6956.5
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°	102.0	102.0	102.0	102.0	102.0	102.0	102.0	97.0	97.0	94.6	92.1
85°	214.0	214.0	214.0	214.0	214.0	209.0	206.5	204.0	201.5	196.6	194.1
82.5°	343.4	343.4	343.4	343.4	338.4	333.4	330.9	326.0	321.0	313.5	306.1
80°	480.2	480.2	480.2	480.2	472.8	467.8	460.3	455.3	447.9	437.9	428.0
77.5°	637.0	637.0	637.0	629.5	624.5	617.1	609.6	599.7	589.7	577.3	562.3
75°	813.7	813.7	813.7	803.7	796.2	788.8	776.3	763.9	749.0	731.5	711.6
72.5°	1005.2	1005.2	1005.2	992.8	985.3	972.9	958.0	940.6	923.1	900.7	875.9
70°	1211.8	1211.8	1211.8	1196.8	1184.4	1172.0	1152.1	1132.1	1107.3	1082.4	1052.5
67.5°	1435.7	1435.7	1435.7	1418.3	1403.4	1385.9	1363.6	1338.7	1308.8	1274.0	1239.1
65°	1697.0	1697.0	1687.0	1672.1	1654.7	1629.8	1602.4	1567.6	1530.3	1485.5	1438.2
62.5°	2005.5	2005.5	1990.6	1973.2	1950.8	1918.4	1881.1	1836.3	1784.1	1726.8	1669.6
60°	2363.8	2363.8	2346.4	2324.0	2291.7	2251.9	2202.1	2144.9	2080.2	2008.0	1938.3
57.5°	2776.9	2776.9	2754.5	2724.6	2684.8	2635.0	2572.8	2500.7	2418.6	2329.0	2241.9
55°	3224.8	3224.8	3197.4	3162.5	3115.3	3055.6	2980.9	2896.3	2796.8	2694.8	2582.8
52.5°	3700.0	3700.0	3667.7	3627.8	3573.1	3503.4	3418.8	3319.3	3204.8	3085.4	2953.5
50°	4200.1	4200.1	4162.8	4118.0	4055.8	3973.7	3876.7	3762.2	3635.3	3496.0	3344.2
47.5°	4735.1	4735.1	4692.8	4640.6	4565.9	4471.4	4356.9	4225.0	4080.7	3923.9	3752.3
45°	5285.0	5285.0	5237.7	5178.0	5095.9	4988.9	4862.0	4735.1	4551.0	4369.3	4170.3
42.5°	5857.3	5857.3	5802.6	5735.4	5640.8	5523.9	5379.6	5215.3	5033.7	4829.7	4613.2
40°	6452.0	6452.0	6389.8	6312.7	6208.1	6073.8	5912.0	5727.9	5523.9	5297.5	5058.6
37.5°	7059.1	7059.1	6989.4	6904.8	6787.9	6638.6	6457.0	6252.9	6024.0	5772.7	5509.0
35°	7671.2	7671.2	7594.1	7502.0	7372.6	7208.4	7011.8	6785.4	6531.6	6257.9	5961.8
32.5°	8295.8	8295.8	8211.2	8106.7	7959.9	7778.2	7561.7	7315.4	7059.1	6740.6	6417.2
30°	8912.9	8912.9	8820.8	8706.3	8549.6	8350.5	8114.1	7842.9	7541.8	7215.9	6867.5
27.5°	9520.0	9495.1	9418.0	9296.0	9124.4	8912.9	8656.6	8363.0	8037.0	7678.7	7305.5
25°	10117.2	10089.8	10005.2	9870.8	9686.7	9455.3	9179.1	8865.6	8514.7	8136.5	7728.5
22.5°	10689.5	10659.6	10570.0	10425.7	10229.1	9977.8	9681.7	9345.8	8972.6	8567.0	8136.5
20°	11219.4	11187.1	11095.0	10943.3	10739.2	10473.0	10159.5	9798.7	9400.5	8972.6	8514.7
17.5°	11697.2	11664.8	11567.8	11411.0	11219.4	10923.3	10599.9	10219.2	9798.7	9345.8	8865.6
15°	12117.7	12082.9	11983.3	11826.6	11607.6	11328.9	10988.0	10599.9	10159.5	9681.7	9179.1
12.5°	12476.0	12441.2	12339.2	12182.4	11956.0	11677.3	11328.9	10923.3	10473.0	9977.8	9455.3
10°	12759.7	12724.8	12627.8	12478.5	12244.6	11956.0	11607.6	11219.4	10739.2	10229.1	9686.7
7.5°	12963.7	12931.4	12841.8	12692.5	12478.5	12182.4	11826.6	11411.0	10943.3	10425.7	9870.8
5°	13118.0	13080.6	12991.1	12841.8	12627.8	12339.2	11983.3	11567.8	11095.0	10570.0	10005.2
2.5°	13225.0	13180.2	13080.6	12931.4	12724.8	12441.2	12082.9	11664.8	11187.1	10659.6	10089.8
0°	13254.8	13225.0	13118.0	12963.7	12759.7	12476.0	12117.7	11697.2	11219.4	10689.5	10117.2

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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°	89.6	89.6	87.1	84.6	82.1	77.1	74.6	72.2	69.7	64.7	62.2
85°	189.1	184.1	179.2	174.2	166.7	161.7	154.3	149.3	141.8	134.4	126.9
82.5°	298.6	291.1	281.2	273.7	263.8	251.3	241.4	228.9	216.5	206.5	194.1
80°	418.0	405.6	393.1	380.7	365.8	350.8	335.9	321.0	303.6	286.1	268.7
77.5°	547.4	530.0	512.6	492.7	475.3	455.3	435.4	415.5	393.1	370.7	348.4
75°	691.7	669.3	644.5	619.6	597.2	569.8	542.4	515.1	485.2	457.8	428.0
72.5°	848.5	821.1	791.3	761.4	729.1	694.2	659.4	622.1	587.2	552.4	515.1
70°	1017.7	985.3	948.0	910.7	870.9	828.6	786.3	741.5	696.7	651.9	607.1
67.5°	1199.3	1159.5	1114.7	1069.9	1020.2	970.4	920.6	868.4	813.7	758.9	706.7
65°	1393.4	1343.6	1291.4	1234.2	1176.9	1119.7	1060.0	997.8	935.6	870.9	813.7
62.5°	1609.9	1547.7	1480.5	1410.8	1346.1	1276.5	1211.8	1134.6	1060.0	987.8	915.7
60°	1861.2	1779.1	1697.0	1609.9	1527.8	1438.2	1358.6	1274.0	1189.4	1107.3	1022.7
57.5°	2142.4	2037.9	1938.3	1833.8	1724.3	1624.8	1522.8	1420.8	1326.2	1229.2	1137.1
55°	2460.9	2334.0	2209.6	2080.2	1953.3	1828.9	1699.5	1585.0	1468.1	1358.6	1251.6
52.5°	2809.2	2664.9	2510.6	2363.8	2202.1	2047.8	1903.5	1759.2	1622.3	1490.5	1368.5
50°	3182.5	3013.3	2836.6	2657.4	2473.3	2291.7	2117.5	1948.3	1789.0	1634.8	1490.5
47.5°	3570.6	3379.0	3177.5	2973.4	2776.9	2555.4	2346.4	2154.8	1963.2	1789.0	1622.3
45°	3968.7	3752.3	3530.8	3299.4	3068.0	2829.1	2597.7	2363.8	2154.8	1948.3	1759.2
42.5°	4379.3	4135.4	3889.1	3632.8	3376.5	3115.3	2854.0	2597.7	2346.4	2117.5	1903.5
40°	4802.3	4533.6	4252.4	3973.7	3700.0	3401.4	3115.3	2829.1	2555.4	2291.7	2047.8
37.5°	5225.3	4931.7	4628.1	4314.6	4001.1	3700.0	3376.5	3068.0	2776.9	2473.3	2202.1
35°	5650.8	5327.3	4998.9	4658.0	4314.6	3973.7	3632.8	3299.4	2973.4	2657.4	2363.8
32.5°	6078.8	5725.4	5362.1	4998.9	4628.1	4252.4	3889.1	3530.8	3177.5	2836.6	2510.6
30°	6499.3	6116.1	5725.4	5327.3	4931.7	4533.6	4135.4	3752.3	3379.0	3013.3	2664.9
27.5°	6909.8	6499.3	6078.8	5650.8	5225.3	4802.3	4379.3	3968.7	3570.6	3182.5	2809.2
25°	7305.5	6867.5	6417.2	5961.8	5509.0	5058.6	4613.2	4170.3	3752.3	3344.2	2953.5
22.5°	7678.7	7215.9	6740.6	6257.9	5772.7	5297.5	4829.7	4369.3	3923.9	3496.0	3085.4
20°	8037.0	7541.8	7059.1	6531.6	6024.0	5523.9	5033.7	4551.0	4080.7	3635.3	3204.8
17.5°	8363.0	7842.9	7315.4	6785.4	6252.9	5727.9	5215.3	4735.1	4225.0	3762.2	3319.3
15°	8656.6	8114.1	7561.7	7011.8	6457.0	5912.0	5379.6	4862.0	4356.9	3876.7	3418.8
12.5°	8912.9	8350.5	7778.2	7208.4	6638.6	6073.8	5523.9	4988.9	4471.4	3973.7	3503.4
10°	9124.4	8549.6	7959.9	7372.6	6787.9	6208.1	5640.8	5095.9	4565.9	4055.8	3573.1
7.5°	9296.0	8706.3	8106.7	7502.0	6904.8	6312.7	5735.4	5178.0	4640.6	4118.0	3627.8
5°	9418.0	8820.8	8211.2	7594.1	6989.4	6389.8	5802.6	5237.7	4692.8	4162.8	3667.7
2.5°	9495.1	8912.9	8295.8	7671.2	7059.1	6452.0	5857.3	5285.0	4735.1	4200.1	3700.0
0°	9520.0	8912.9	8295.8	7671.2	7059.1	6452.0	5857.3	5285.0	4735.1	4200.1	3700.0

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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°	59.7	54.7	49.8	47.3	42.3	39.8	34.8	29.9	27.4	22.4	17.4
85°	119.4	109.5	102.0	94.6	87.1	77.1	69.7	62.2	52.3	44.8	34.8
82.5°	181.6	169.2	156.8	144.3	131.9	119.4	104.5	92.1	79.6	67.2	52.3
80°	251.3	231.4	214.0	196.6	179.2	161.7	141.8	124.4	104.5	87.1	69.7
77.5°	323.5	301.1	276.2	251.3	226.4	204.0	179.2	156.8	134.4	109.5	87.1
75°	400.6	370.7	343.4	311.0	281.2	248.8	219.0	189.1	161.7	134.4	104.5
72.5°	480.2	442.9	405.6	370.7	333.4	296.1	261.3	223.9	189.1	156.8	124.4
70°	562.3	517.6	472.8	430.5	388.2	343.4	303.6	261.3	219.0	179.2	141.8
67.5°	649.4	597.2	544.9	490.2	442.9	393.1	343.4	296.1	248.8	204.0	161.7
65°	744.0	681.8	617.1	559.9	497.6	442.9	388.2	333.4	281.2	226.4	179.2
62.5°	841.0	768.9	696.7	624.5	559.9	490.2	430.5	370.7	311.0	251.3	196.6
60°	940.6	858.4	776.3	696.7	617.1	544.9	472.8	405.6	343.4	276.2	214.0
57.5°	1042.6	950.5	858.4	768.9	681.8	597.2	517.6	442.9	370.7	301.1	231.4
55°	1147.1	1042.6	940.6	841.0	744.0	649.4	562.3	480.2	400.6	323.5	251.3
52.5°	1251.6	1137.1	1022.7	915.7	813.7	706.7	607.1	515.1	428.0	348.4	268.7
50°	1358.6	1229.2	1107.3	987.8	870.9	758.9	651.9	552.4	457.8	370.7	286.1
47.5°	1468.1	1326.2	1189.4	1060.0	935.6	813.7	696.7	587.2	485.2	393.1	303.6
45°	1585.0	1420.8	1274.0	1134.6	997.8	868.4	741.5	622.1	515.1	415.5	321.0
42.5°	1699.5	1522.8	1358.6	1211.8	1060.0	920.6	786.3	659.4	542.4	435.4	335.9
40°	1828.9	1624.8	1438.2	1276.5	1119.7	970.4	828.6	694.2	569.8	455.3	350.8
37.5°	1953.3	1724.3	1527.8	1346.1	1176.9	1020.2	870.9	729.1	597.2	475.3	365.8
35°	2080.2	1833.8	1609.9	1410.8	1234.2	1069.9	910.7	761.4	619.6	492.7	380.7
32.5°	2209.6	1938.3	1697.0	1480.5	1291.4	1114.7	948.0	791.3	644.5	512.6	393.1
30°	2334.0	2037.9	1779.1	1547.7	1343.6	1159.5	985.3	821.1	669.3	530.0	405.6
27.5°	2460.9	2142.4	1861.2	1609.9	1393.4	1199.3	1017.7	848.5	691.7	547.4	418.0
25°	2582.8	2241.9	1938.3	1669.6	1438.2	1239.1	1052.5	875.9	711.6	562.3	428.0
22.5°	2694.8	2329.0	2008.0	1726.8	1485.5	1274.0	1082.4	900.7	731.5	577.3	437.9
20°	2796.8	2418.6	2080.2	1784.1	1530.3	1308.8	1107.3	923.1	749.0	589.7	447.9
17.5°	2896.3	2500.7	2144.9	1836.3	1567.6	1338.7	1132.1	940.6	763.9	599.7	455.3
15°	2980.9	2572.8	2202.1	1881.1	1602.4	1363.6	1152.1	958.0	776.3	609.6	460.3
12.5°	3055.6	2635.0	2251.9	1918.4	1629.8	1385.9	1172.0	972.9	788.8	617.1	467.8
10°	3115.3	2684.8	2291.7	1950.8	1654.7	1403.4	1184.4	985.3	796.2	624.5	472.8
7.5°	3162.5	2724.6	2324.0	1973.2	1672.1	1418.3	1196.8	992.8	803.7	629.5	480.2
5°	3197.4	2754.5	2346.4	1990.6	1687.0	1435.7	1211.8	1005.2	813.7	637.0	480.2
2.5°	3224.8	2776.9	2363.8	2005.5	1697.0	1435.7	1211.8	1005.2	813.7	637.0	480.2
0°	3224.8	2776.9	2363.8	2005.5	1697.0	1435.7	1211.8	1005.2	813.7	637.0	480.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.4	10.0	5.0	0.0
85°	27.4	17.4	10.0	0.0
82.5°	39.8	27.4	12.4	0.0
80°	52.3	34.8	17.4	0.0
77.5°	67.2	44.8	22.4	0.0
75°	79.6	52.3	27.4	0.0
72.5°	92.1	62.2	29.9	0.0
70°	104.5	69.7	34.8	0.0
67.5°	119.4	77.1	39.8	0.0
65°	131.9	87.1	42.3	0.0
62.5°	144.3	94.6	47.3	0.0
60°	156.8	102.0	49.8	0.0
57.5°	169.2	109.5	54.7	0.0
55°	181.6	119.4	59.7	0.0
52.5°	194.1	126.9	62.2	0.0
50°	206.5	134.4	64.7	0.0
47.5°	216.5	141.8	69.7	0.0
45°	228.9	149.3	72.2	0.0
42.5°	241.4	154.3	74.6	0.0
40°	251.3	161.7	77.1	0.0
37.5°	263.8	166.7	82.1	0.0
35°	273.7	174.2	84.6	0.0
32.5°	281.2	179.2	87.1	0.0
30°	291.1	184.1	89.6	0.0
27.5°	298.6	189.1	89.6	0.0
25°	306.1	194.1	92.1	0.0
22.5°	313.5	196.6	94.6	0.0
20°	321.0	201.5	97.0	0.0
17.5°	326.0	204.0	97.0	0.0
15°	330.9	206.5	102.0	0.0
12.5°	333.4	209.0	102.0	0.0
10°	338.4	214.0	102.0	0.0
7.5°	343.4	214.0	102.0	0.0
5°	343.4	214.0	102.0	0.0
2.5°	343.4	214.0	102.0	0.0
0°	343.4	214.0	102.0	0.0

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