

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: P623875

Luminaire Tested: **IFLD-S-SA3B-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623875
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

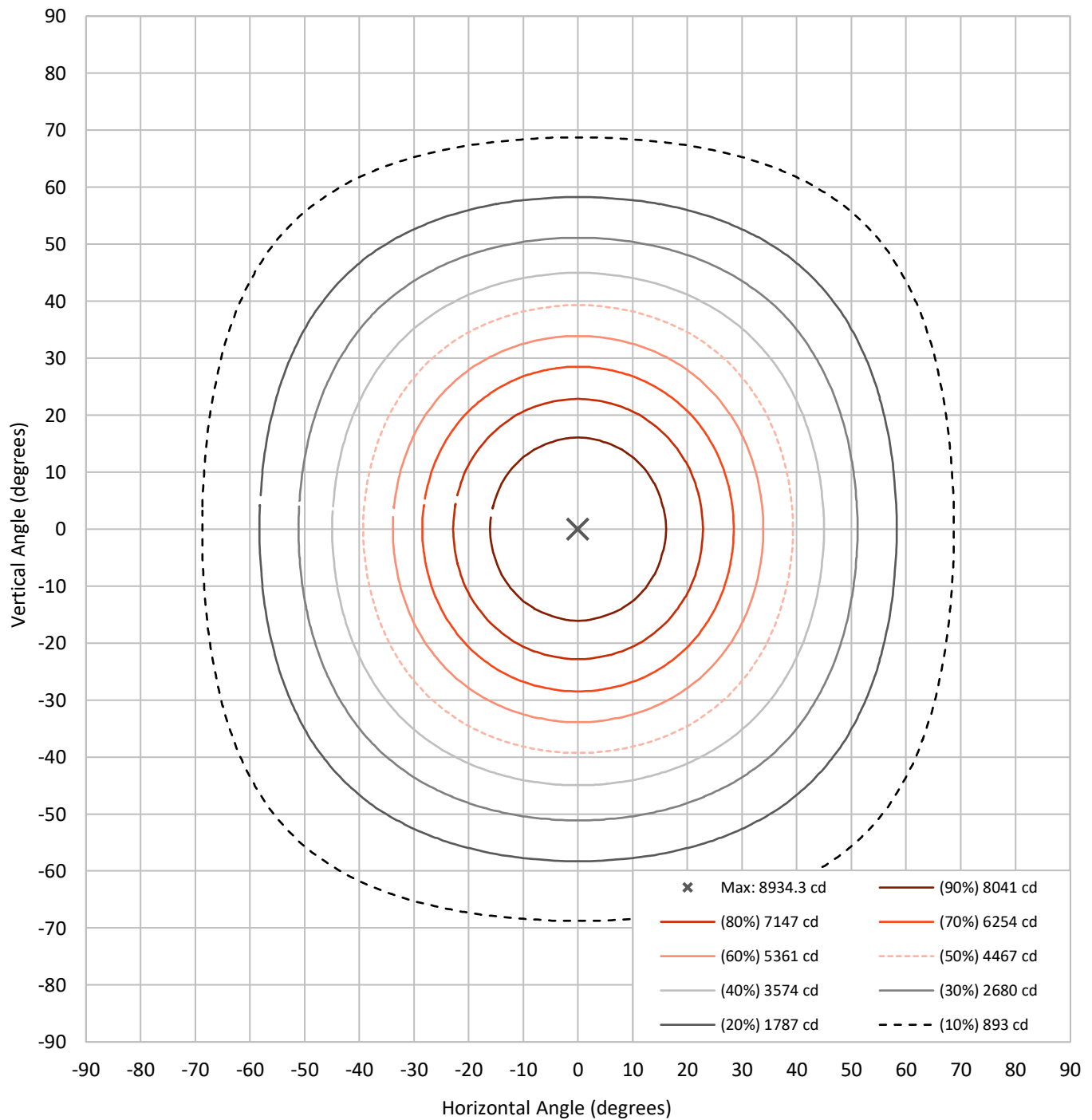
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	16086.4 lumens	Max Intensity:	8934.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	131.4 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:	6960.4 lumens	Field Lumens:	11397.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	122.4		
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		



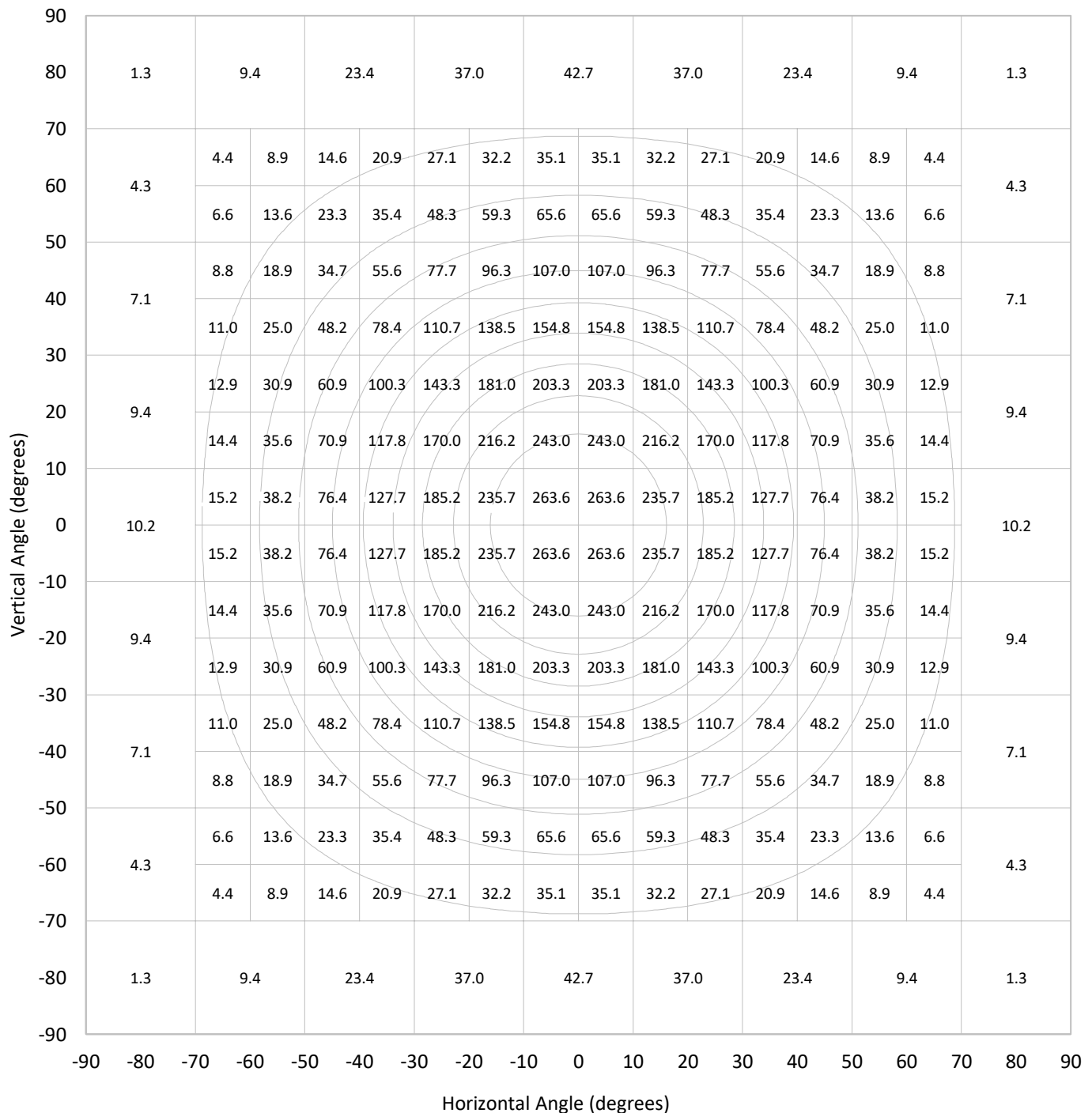
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Iso-Candela Plot



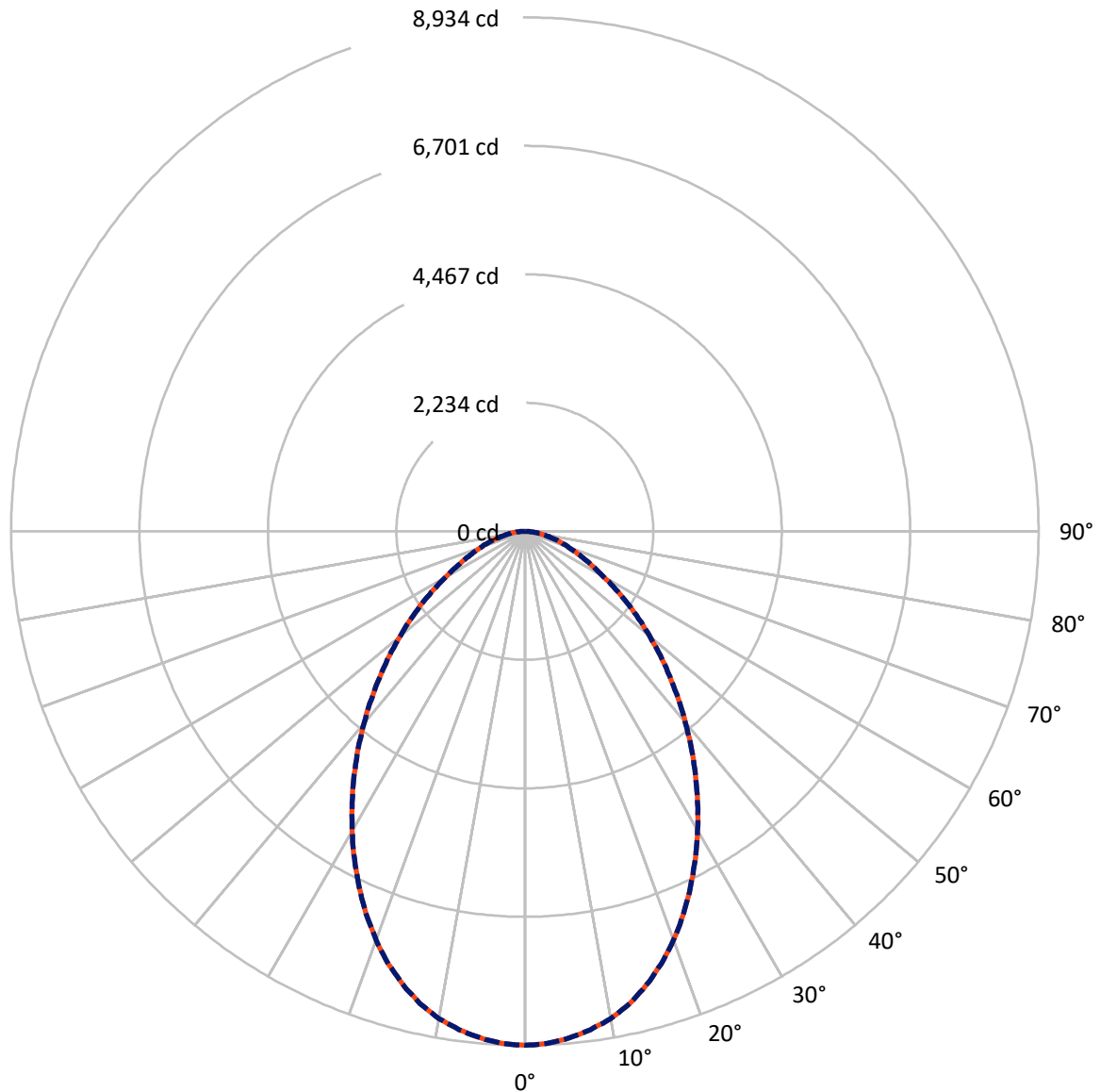
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Lumen Table



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Luminous Intensity Polar Plot

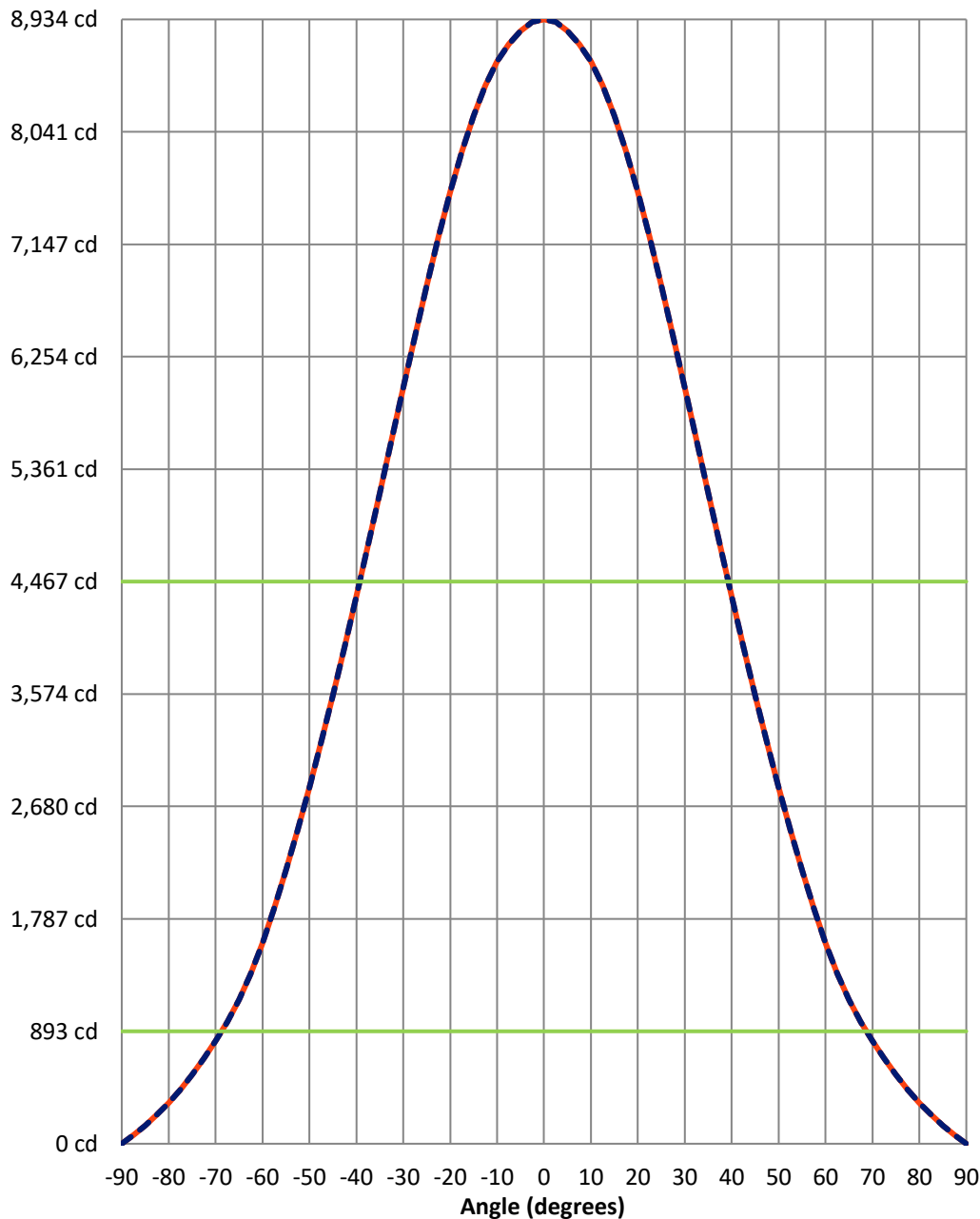


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6960.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 11397.4
Efficiency: 70.9%

Spill:

Lumens: 4688.9
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°	68.8	68.8	68.8	68.8	68.8	68.8	68.8	65.4	65.4	63.7	62.1
85°	144.2	144.2	144.2	144.2	144.2	140.9	139.2	137.5	135.9	132.5	130.8
82.5°	231.4	231.4	231.4	231.4	228.1	224.7	223.1	219.7	216.4	211.3	206.3
80°	323.7	323.7	323.7	323.7	318.7	315.3	310.3	306.9	301.9	295.2	288.5
77.5°	429.4	429.4	429.4	424.3	421.0	415.9	410.9	404.2	397.5	389.1	379.0
75°	548.4	548.4	548.4	541.7	536.7	531.7	523.3	514.9	504.8	493.1	479.7
72.5°	677.6	677.6	677.6	669.2	664.2	655.8	645.7	634.0	622.2	607.1	590.4
70°	816.8	816.8	816.8	806.7	798.3	789.9	776.5	763.1	746.3	729.6	709.4
67.5°	967.7	967.7	967.7	956.0	945.9	934.2	919.1	902.3	882.2	858.7	835.2
65°	1143.8	1143.8	1137.1	1127.1	1115.3	1098.5	1080.1	1056.6	1031.5	1001.3	969.4
62.5°	1351.8	1351.8	1341.7	1330.0	1314.9	1293.1	1267.9	1237.8	1202.5	1164.0	1125.4
60°	1593.3	1593.3	1581.6	1566.5	1544.7	1517.8	1484.3	1445.7	1402.1	1353.5	1306.5
57.5°	1871.7	1871.7	1856.6	1836.5	1809.7	1776.1	1734.2	1685.6	1630.2	1569.8	1511.1
55°	2173.6	2173.6	2155.2	2131.7	2099.8	2059.6	2009.3	1952.2	1885.1	1816.4	1740.9
52.5°	2494.0	2494.0	2472.1	2445.3	2408.4	2361.5	2304.4	2237.3	2160.2	2079.7	1990.8
50°	2831.1	2831.1	2805.9	2775.7	2733.8	2678.4	2613.0	2535.9	2450.3	2356.4	2254.1
47.5°	3191.7	3191.7	3163.1	3127.9	3077.6	3013.9	2936.7	2847.8	2750.6	2644.9	2529.2
45°	3562.3	3562.3	3530.4	3490.2	3434.8	3362.7	3277.2	3191.7	3067.5	2945.1	2810.9
42.5°	3948.1	3948.1	3911.2	3865.9	3802.1	3723.3	3626.0	3515.4	3392.9	3255.4	3109.5
40°	4348.9	4348.9	4307.0	4255.0	4184.5	4094.0	3985.0	3860.8	3723.3	3570.7	3409.7
37.5°	4758.1	4758.1	4711.2	4654.1	4575.3	4474.7	4352.3	4214.7	4060.4	3891.0	3713.3
35°	5170.7	5170.7	5118.7	5056.7	4969.5	4858.8	4726.3	4573.6	4402.6	4218.1	4018.5
32.5°	5591.7	5591.7	5534.7	5464.2	5365.3	5242.8	5096.9	4930.9	4758.1	4543.5	4325.4
30°	6007.6	6007.6	5945.6	5868.4	5762.8	5628.6	5469.3	5286.4	5083.5	4863.8	4629.0
27.5°	6416.9	6400.1	6348.1	6265.9	6150.2	6007.6	5834.9	5637.0	5417.3	5175.7	4924.2
25°	6819.4	6800.9	6743.9	6653.3	6529.2	6373.2	6187.1	5975.8	5739.3	5484.3	5209.3
22.5°	7205.1	7185.0	7124.6	7027.3	6894.8	6725.5	6525.9	6299.5	6047.9	5774.5	5484.3
20°	7562.4	7540.6	7478.5	7376.2	7238.7	7059.2	6847.9	6604.7	6336.4	6047.9	5739.3
17.5°	7884.4	7862.6	7797.2	7691.5	7562.4	7362.8	7144.7	6888.1	6604.7	6299.5	5975.8
15°	8167.8	8144.3	8077.3	7971.6	7824.0	7636.2	7406.4	7144.7	6847.9	6525.9	6187.1
12.5°	8409.3	8385.9	8317.1	8211.4	8058.8	7871.0	7636.2	7362.8	7059.2	6725.5	6373.2
10°	8600.5	8577.1	8511.6	8411.0	8253.4	8058.8	7824.0	7562.4	7238.7	6894.8	6529.2
7.5°	8738.1	8716.3	8655.9	8555.2	8411.0	8211.4	7971.6	7691.5	7376.2	7027.3	6653.3
5°	8842.0	8816.9	8756.5	8655.9	8511.6	8317.1	8077.3	7797.2	7478.5	7124.6	6743.9
2.5°	8914.2	8884.0	8816.9	8716.3	8577.1	8385.9	8144.3	7862.6	7540.6	7185.0	6800.9
0°	8934.3	8914.2	8842.0	8738.1	8600.5	8409.3	8167.8	7884.4	7562.4	7205.1	6819.4

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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°	60.4	60.4	58.7	57.0	55.3	52.0	50.3	48.6	47.0	43.6	41.9
85°	127.5	124.1	120.8	117.4	112.4	109.0	104.0	100.6	95.6	90.6	85.5
82.5°	201.3	196.2	189.5	184.5	177.8	169.4	162.7	154.3	145.9	139.2	130.8
80°	281.8	273.4	265.0	256.6	246.5	236.5	226.4	216.4	204.6	192.9	181.1
77.5°	369.0	357.2	345.5	332.1	320.3	306.9	293.5	280.1	265.0	249.9	234.8
75°	466.3	451.2	434.4	417.6	402.5	384.1	365.6	347.2	327.0	308.6	288.5
72.5°	571.9	553.5	533.3	513.2	491.4	467.9	444.5	419.3	395.8	372.3	347.2
70°	686.0	664.2	639.0	613.8	587.0	558.5	530.0	499.8	469.6	439.4	409.2
67.5°	808.4	781.6	751.4	721.2	687.6	654.1	620.6	585.3	548.4	511.5	476.3
65°	939.2	905.7	870.5	831.9	793.3	754.7	714.5	672.5	630.6	587.0	548.4
62.5°	1085.1	1043.2	997.9	951.0	907.3	860.4	816.8	764.8	714.5	665.8	617.2
60°	1254.5	1199.2	1143.8	1085.1	1029.8	969.4	915.7	858.7	801.7	746.3	689.3
57.5°	1444.0	1373.6	1306.5	1236.1	1162.3	1095.2	1026.4	957.7	893.9	828.5	766.5
55°	1658.7	1573.2	1489.3	1402.1	1316.6	1232.7	1145.5	1068.4	989.5	915.7	843.6
52.5°	1893.5	1796.3	1692.3	1593.3	1484.3	1380.3	1283.0	1185.8	1093.5	1004.6	922.4
50°	2145.1	2031.1	1912.0	1791.2	1667.1	1544.7	1427.3	1313.2	1205.9	1101.9	1004.6
47.5°	2406.7	2277.6	2141.7	2004.2	1871.7	1722.5	1581.6	1452.4	1323.3	1205.9	1093.5
45°	2675.1	2529.2	2379.9	2223.9	2068.0	1906.9	1751.0	1593.3	1452.4	1313.2	1185.8
42.5°	2951.8	2787.5	2621.4	2448.7	2275.9	2099.8	1923.7	1751.0	1581.6	1427.3	1283.0
40°	3236.9	3055.8	2866.3	2678.4	2494.0	2292.7	2099.8	1906.9	1722.5	1544.7	1380.3
37.5°	3522.1	3324.2	3119.5	2908.2	2696.9	2494.0	2275.9	2068.0	1871.7	1667.1	1484.3
35°	3808.9	3590.8	3369.4	3139.7	2908.2	2678.4	2448.7	2223.9	2004.2	1791.2	1593.3
32.5°	4097.3	3859.2	3614.3	3369.4	3119.5	2866.3	2621.4	2379.9	2141.7	1912.0	1692.3
30°	4380.8	4122.5	3859.2	3590.8	3324.2	3055.8	2787.5	2529.2	2277.6	2031.1	1796.3
27.5°	4657.5	4380.8	4097.3	3808.9	3522.1	3236.9	2951.8	2675.1	2406.7	2145.1	1893.5
25°	4924.2	4629.0	4325.4	4018.5	3713.3	3409.7	3109.5	2810.9	2529.2	2254.1	1990.8
22.5°	5175.7	4863.8	4543.5	4218.1	3891.0	3570.7	3255.4	2945.1	2644.9	2356.4	2079.7
20°	5417.3	5083.5	4758.1	4402.6	4060.4	3723.3	3392.9	3067.5	2750.6	2450.3	2160.2
17.5°	5637.0	5286.4	4930.9	4573.6	4214.7	3860.8	3515.4	3191.7	2847.8	2535.9	2237.3
15°	5834.9	5469.3	5096.9	4726.3	4352.3	3985.0	3626.0	3277.2	2936.7	2613.0	2304.4
12.5°	6007.6	5628.6	5242.8	4858.8	4474.7	4094.0	3723.3	3362.7	3013.9	2678.4	2361.5
10°	6150.2	5762.8	5365.3	4969.5	4575.3	4184.5	3802.1	3434.8	3077.6	2733.8	2408.4
7.5°	6265.9	5868.4	5464.2	5056.7	4654.1	4255.0	3865.9	3490.2	3127.9	2775.7	2445.3
5°	6348.1	5945.6	5534.7	5118.7	4711.2	4307.0	3911.2	3530.4	3163.1	2805.9	2472.1
2.5°	6400.1	6007.6	5591.7	5170.7	4758.1	4348.9	3948.1	3562.3	3191.7	2831.1	2494.0
0°	6416.9	6007.6	5591.7	5170.7	4758.1	4348.9	3948.1	3562.3	3191.7	2831.1	2494.0

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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°	40.3	36.9	33.5	31.9	28.5	26.8	23.5	20.1	18.4	15.1	11.7
85°	80.5	73.8	68.8	63.7	58.7	52.0	47.0	41.9	35.2	30.2	23.5
82.5°	122.4	114.0	105.7	97.3	88.9	80.5	70.4	62.1	53.7	45.3	35.2
80°	169.4	156.0	144.2	132.5	120.8	109.0	95.6	83.9	70.4	58.7	47.0
77.5°	218.0	202.9	186.2	169.4	152.6	137.5	120.8	105.7	90.6	73.8	58.7
75°	270.0	249.9	231.4	209.6	189.5	167.7	147.6	127.5	109.0	90.6	70.4
72.5°	323.7	298.5	273.4	249.9	224.7	199.6	176.1	150.9	127.5	105.7	83.9
70°	379.0	348.9	318.7	290.2	261.6	231.4	204.6	176.1	147.6	120.8	95.6
67.5°	437.7	402.5	367.3	330.4	298.5	265.0	231.4	199.6	167.7	137.5	109.0
65°	501.5	459.5	415.9	377.4	335.4	298.5	261.6	224.7	189.5	152.6	120.8
62.5°	566.9	518.2	469.6	421.0	377.4	330.4	290.2	249.9	209.6	169.4	132.5
60°	634.0	578.6	523.3	469.6	415.9	367.3	318.7	273.4	231.4	186.2	144.2
57.5°	702.7	640.7	578.6	518.2	459.5	402.5	348.9	298.5	249.9	202.9	156.0
55°	773.2	702.7	634.0	566.9	501.5	437.7	379.0	323.7	270.0	218.0	169.4
52.5°	843.6	766.5	689.3	617.2	548.4	476.3	409.2	347.2	288.5	234.8	181.1
50°	915.7	828.5	746.3	665.8	587.0	511.5	439.4	372.3	308.6	249.9	192.9
47.5°	989.5	893.9	801.7	714.5	630.6	548.4	469.6	395.8	327.0	265.0	204.6
45°	1068.4	957.7	858.7	764.8	672.5	585.3	499.8	419.3	347.2	280.1	216.4
42.5°	1145.5	1026.4	915.7	816.8	714.5	620.6	530.0	444.5	365.6	293.5	226.4
40°	1232.7	1095.2	969.4	860.4	754.7	654.1	558.5	467.9	384.1	306.9	236.5
37.5°	1316.6	1162.3	1029.8	907.3	793.3	687.6	587.0	491.4	402.5	320.3	246.5
35°	1402.1	1236.1	1085.1	951.0	831.9	721.2	613.8	513.2	417.6	332.1	256.6
32.5°	1489.3	1306.5	1143.8	997.9	870.5	751.4	639.0	533.3	434.4	345.5	265.0
30°	1573.2	1373.6	1199.2	1043.2	905.7	781.6	664.2	553.5	451.2	357.2	273.4
27.5°	1658.7	1444.0	1254.5	1085.1	939.2	808.4	686.0	571.9	466.3	369.0	281.8
25°	1740.9	1511.1	1306.5	1125.4	969.4	835.2	709.4	590.4	479.7	379.0	288.5
22.5°	1816.4	1569.8	1353.5	1164.0	1001.3	858.7	729.6	607.1	493.1	389.1	295.2
20°	1885.1	1630.2	1402.1	1202.5	1031.5	882.2	746.3	622.2	504.8	397.5	301.9
17.5°	1952.2	1685.6	1445.7	1237.8	1056.6	902.3	763.1	634.0	514.9	404.2	306.9
15°	2009.3	1734.2	1484.3	1267.9	1080.1	919.1	776.5	645.7	523.3	410.9	310.3
12.5°	2059.6	1776.1	1517.8	1293.1	1098.5	934.2	789.9	655.8	531.7	415.9	315.3
10°	2099.8	1809.7	1544.7	1314.9	1115.3	945.9	798.3	664.2	536.7	421.0	318.7
7.5°	2131.7	1836.5	1566.5	1330.0	1127.1	956.0	806.7	669.2	541.7	424.3	323.7
5°	2155.2	1856.6	1581.6	1341.7	1137.1	967.7	816.8	677.6	548.4	429.4	323.7
2.5°	2173.6	1871.7	1593.3	1351.8	1143.8	967.7	816.8	677.6	548.4	429.4	323.7
0°	2173.6	1871.7	1593.3	1351.8	1143.8	967.7	816.8	677.6	548.4	429.4	323.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.4	6.7	3.4	0.0
85°	18.4	11.7	6.7	0.0
82.5°	26.8	18.4	8.4	0.0
80°	35.2	23.5	11.7	0.0
77.5°	45.3	30.2	15.1	0.0
75°	53.7	35.2	18.4	0.0
72.5°	62.1	41.9	20.1	0.0
70°	70.4	47.0	23.5	0.0
67.5°	80.5	52.0	26.8	0.0
65°	88.9	58.7	28.5	0.0
62.5°	97.3	63.7	31.9	0.0
60°	105.7	68.8	33.5	0.0
57.5°	114.0	73.8	36.9	0.0
55°	122.4	80.5	40.3	0.0
52.5°	130.8	85.5	41.9	0.0
50°	139.2	90.6	43.6	0.0
47.5°	145.9	95.6	47.0	0.0
45°	154.3	100.6	48.6	0.0
42.5°	162.7	104.0	50.3	0.0
40°	169.4	109.0	52.0	0.0
37.5°	177.8	112.4	55.3	0.0
35°	184.5	117.4	57.0	0.0
32.5°	189.5	120.8	58.7	0.0
30°	196.2	124.1	60.4	0.0
27.5°	201.3	127.5	60.4	0.0
25°	206.3	130.8	62.1	0.0
22.5°	211.3	132.5	63.7	0.0
20°	216.4	135.9	65.4	0.0
17.5°	219.7	137.5	65.4	0.0
15°	223.1	139.2	68.8	0.0
12.5°	224.7	140.9	68.8	0.0
10°	228.1	144.2	68.8	0.0
7.5°	231.4	144.2	68.8	0.0
5°	231.4	144.2	68.8	0.0
2.5°	231.4	144.2	68.8	0.0
0°	231.4	144.2	68.8	0.0

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