

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: P624566

Luminaire Tested: **IFLD-S-SA6D-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624566
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

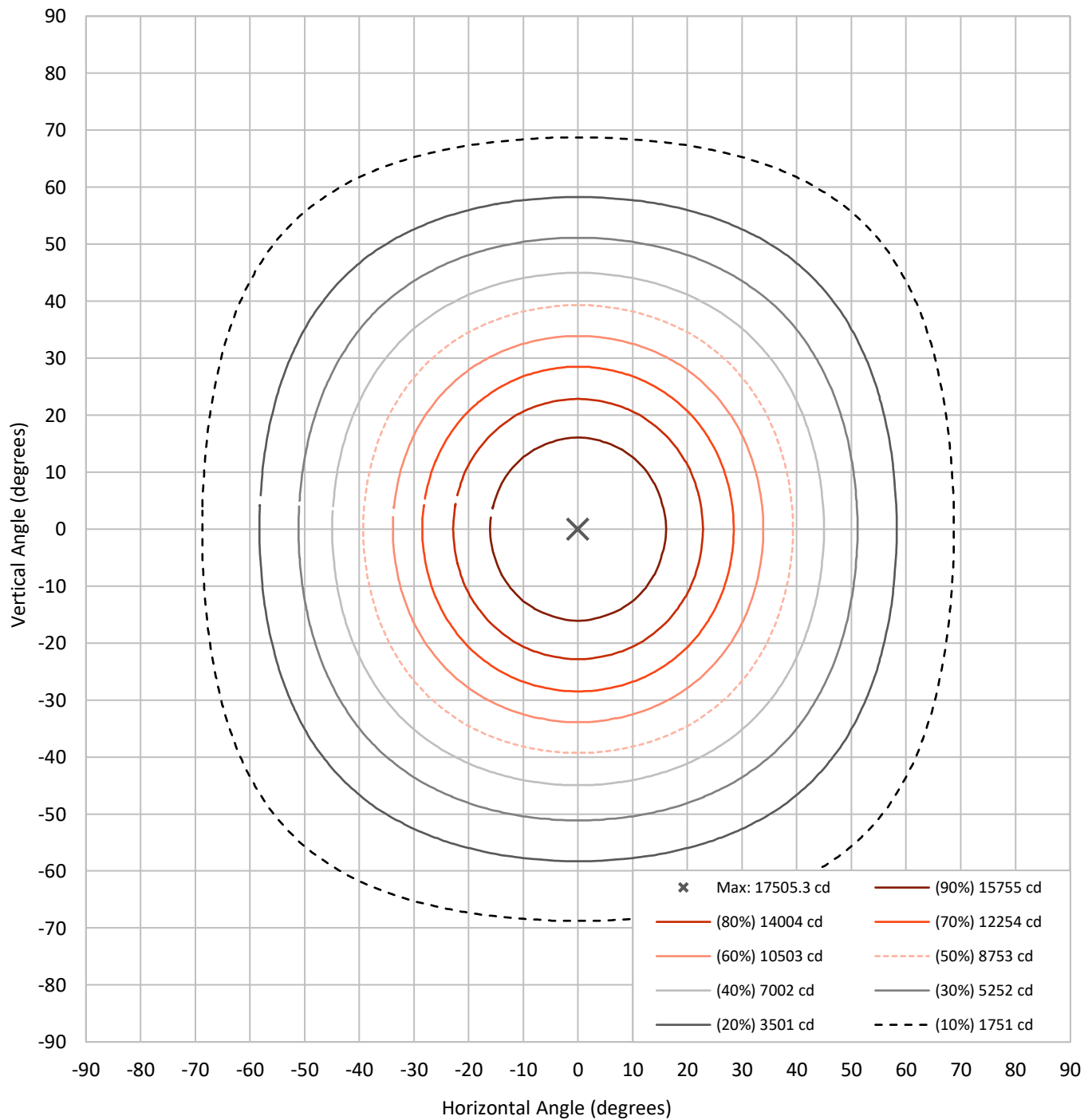
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31518.7 lumens	Max Intensity:	17505.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	85.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	13637.8 lumens	Field Lumens:	22331.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	368.2		
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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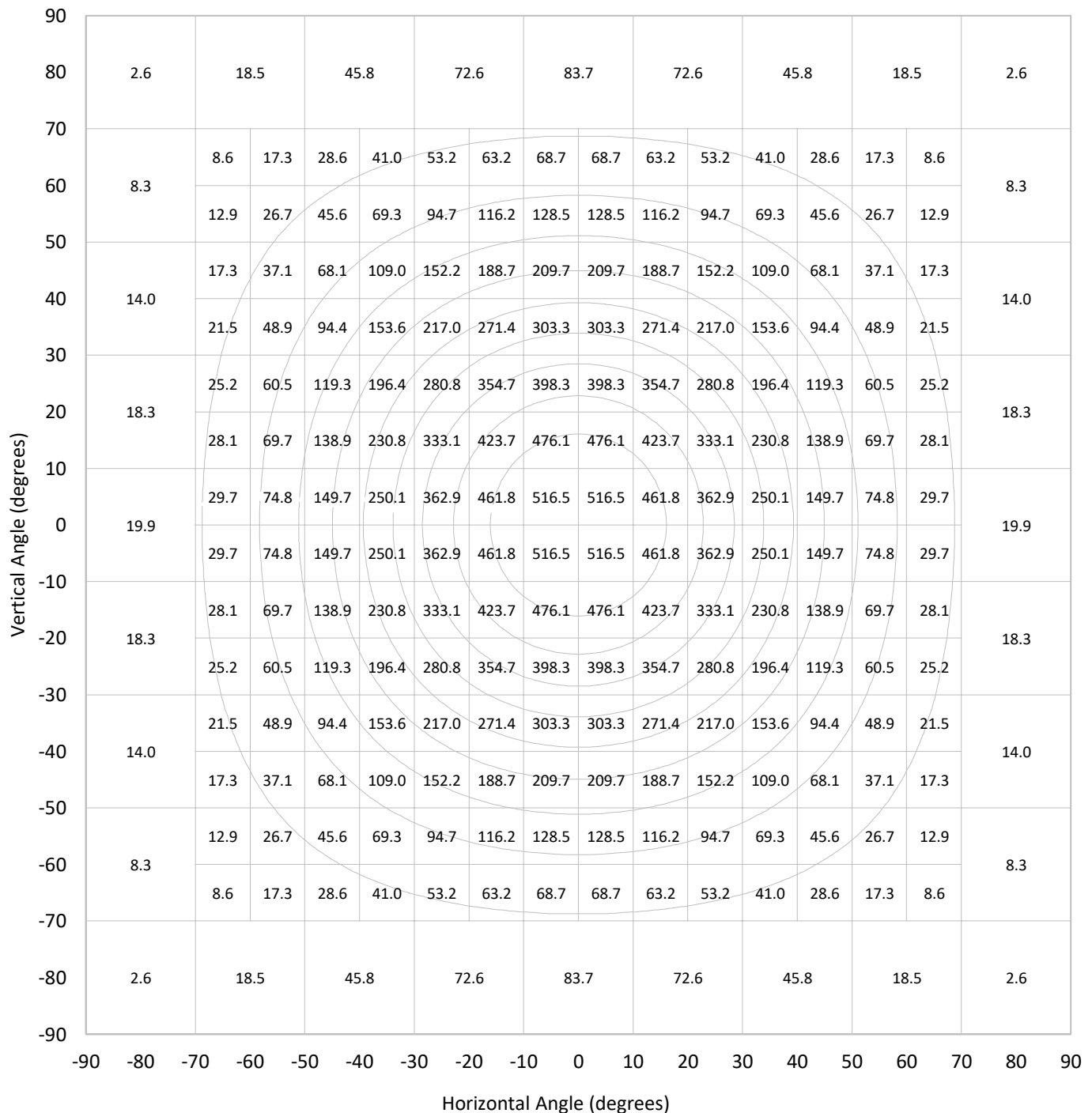
CATALOG NUMBER: IFLD-S-SA6D-935-U-77

Iso-Candela Plot



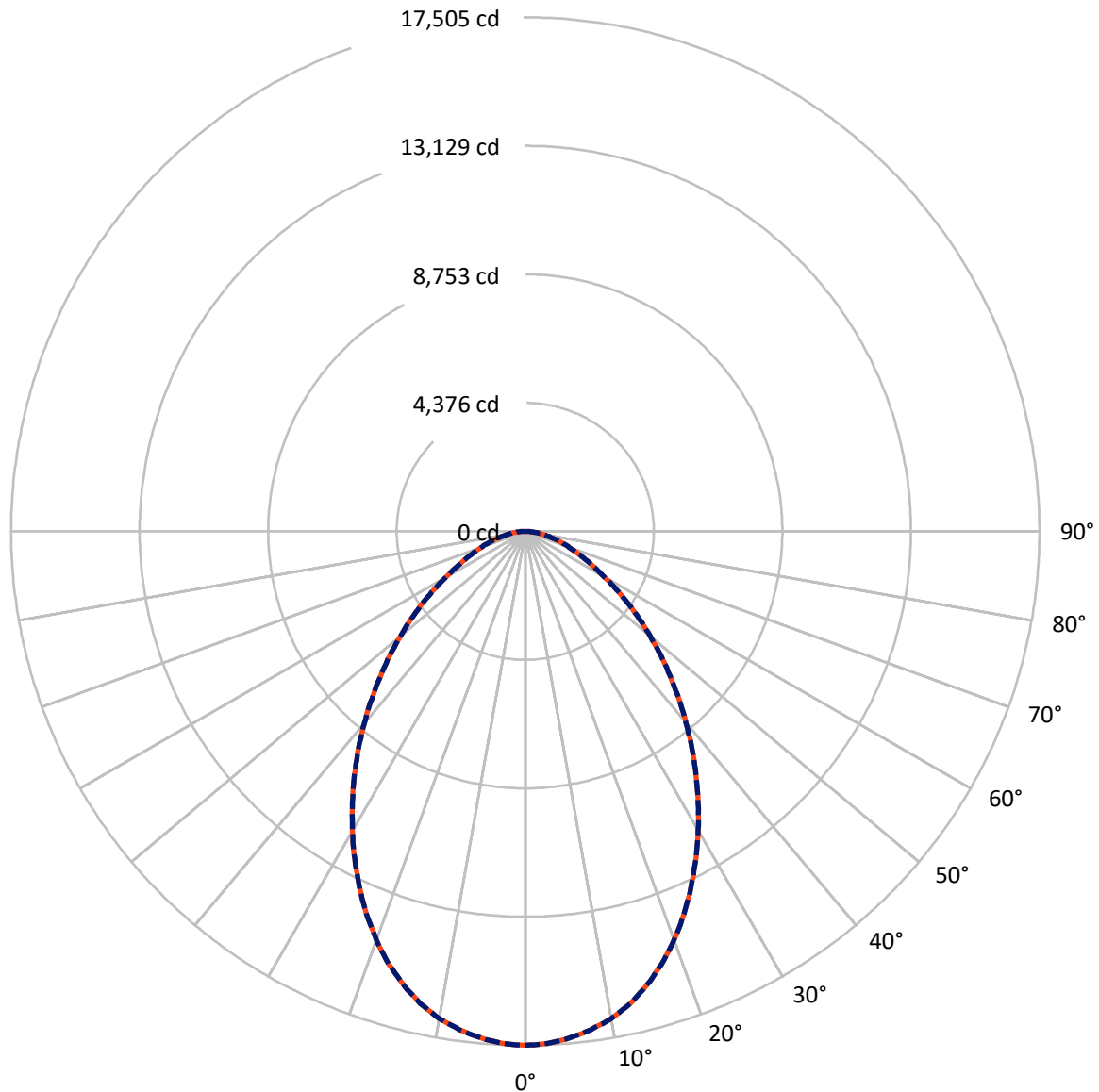
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Lumen Table



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Luminous Intensity Polar Plot

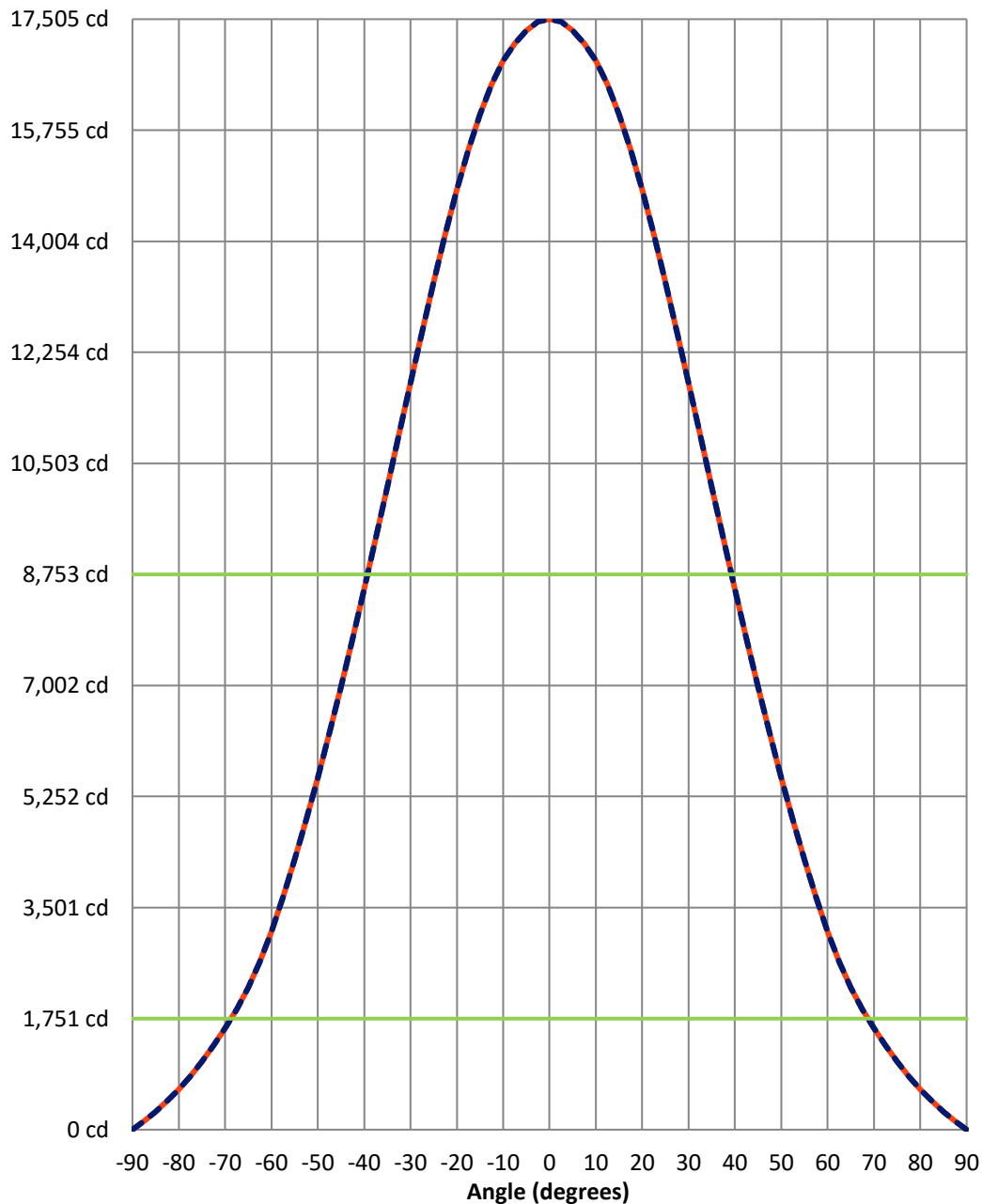


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 13637.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 22331.5
Efficiency: 70.9%

Spill:

Lumens: 9187.2
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°	134.7	134.7	134.7	134.7	134.7	134.7	134.7	128.2	128.2	124.9	121.6
85°	282.6	282.6	282.6	282.6	282.6	276.0	272.8	269.5	266.2	259.6	256.3
82.5°	453.5	453.5	453.5	453.5	446.9	440.3	437.1	430.5	423.9	414.1	404.2
80°	634.2	634.2	634.2	634.2	624.4	617.8	607.9	601.4	591.5	578.4	565.2
77.5°	841.3	841.3	841.3	831.4	824.8	815.0	805.1	792.0	778.8	762.4	742.7
75°	1074.6	1074.6	1074.6	1061.4	1051.6	1041.7	1025.3	1008.8	989.1	966.1	939.8
72.5°	1327.6	1327.6	1327.6	1311.2	1301.3	1284.9	1265.2	1242.2	1219.2	1189.6	1156.7
70°	1600.4	1600.4	1600.4	1580.6	1564.2	1547.8	1521.5	1495.2	1462.3	1429.5	1390.0
67.5°	1896.1	1896.1	1896.1	1873.1	1853.4	1830.4	1800.8	1767.9	1728.5	1682.5	1636.5
65°	2241.2	2241.2	2228.0	2208.3	2185.3	2152.4	2116.3	2070.3	2021.0	1961.8	1899.4
62.5°	2648.6	2648.6	2628.9	2605.9	2576.3	2533.6	2484.3	2425.2	2356.2	2280.6	2205.0
60°	3121.8	3121.8	3098.8	3069.3	3026.5	2974.0	2908.2	2832.7	2747.2	2651.9	2559.9
57.5°	3667.3	3667.3	3637.8	3598.3	3545.8	3480.0	3397.9	3302.6	3194.1	3075.8	2960.8
55°	4258.9	4258.9	4222.7	4176.7	4114.3	4035.4	3936.8	3825.1	3693.6	3558.9	3411.0
52.5°	4886.5	4886.5	4843.8	4791.2	4718.9	4626.9	4515.2	4383.7	4232.6	4074.8	3900.7
50°	5547.0	5547.0	5497.7	5438.6	5356.4	5248.0	5119.8	4968.7	4801.1	4617.0	4416.6
47.5°	6253.5	6253.5	6197.7	6128.7	6030.1	5905.2	5754.0	5579.9	5389.3	5182.3	4955.5
45°	6979.8	6979.8	6917.3	6838.5	6730.0	6588.7	6421.1	6253.5	6010.4	5770.5	5507.6
42.5°	7735.6	7735.6	7663.3	7574.6	7449.7	7295.3	7104.7	6887.8	6647.9	6378.4	6092.5
40°	8521.0	8521.0	8438.8	8337.0	8198.9	8021.5	7807.9	7564.7	7295.3	6996.2	6680.7
37.5°	9322.8	9322.8	9230.8	9119.1	8964.6	8767.4	8527.6	8258.1	7955.8	7623.9	7275.5
35°	10131.2	10131.2	10029.3	9907.7	9736.9	9520.0	9260.4	8961.3	8626.1	8264.7	7873.6
32.5°	10956.0	10956.0	10844.3	10706.3	10512.4	10272.5	9986.6	9661.3	9322.8	8902.2	8475.0
30°	11771.0	11771.0	11649.4	11498.2	11291.2	11028.3	10716.1	10357.9	9960.3	9529.8	9069.8
27.5°	12572.8	12539.9	12438.1	12277.1	12050.3	11771.0	11432.5	11044.8	10614.3	10141.1	9648.1
25°	13361.5	13325.3	13213.6	13036.2	12793.0	12487.4	12122.6	11708.6	11245.2	10745.7	10206.8
22.5°	14117.3	14077.9	13959.6	13769.0	13509.4	13177.5	12786.4	12342.8	11849.9	11314.2	10745.7
20°	14817.3	14774.5	14652.9	14452.5	14183.0	13831.4	13417.4	12940.9	12415.1	11849.9	11245.2
17.5°	15448.2	15405.5	15277.3	15070.3	14817.3	14426.2	13999.0	13496.2	12940.9	12342.8	11708.6
15°	16003.6	15957.5	15826.1	15619.1	15329.9	14961.8	14511.6	13999.0	13417.4	12786.4	12122.6
12.5°	16476.8	16430.8	16296.0	16089.0	15790.0	15421.9	14961.8	14426.2	13831.4	13177.5	12487.4
10°	16851.4	16805.4	16677.2	16480.0	16171.1	15790.0	15329.9	14817.3	14183.0	13509.4	12793.0
7.5°	17120.8	17078.1	16959.8	16762.7	16480.0	16089.0	15619.1	15070.3	14452.5	13769.0	13036.2
5°	17324.6	17275.3	17157.0	16959.8	16677.2	16296.0	15826.1	15277.3	14652.9	13959.6	13213.6
2.5°	17465.9	17406.7	17275.3	17078.1	16805.4	16430.8	15957.5	15405.5	14774.5	14077.9	13325.3
0°	17505.3	17465.9	17324.6	17120.8	16851.4	16476.8	16003.6	15448.2	14817.3	14117.3	13361.5

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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°	118.3	118.3	115.0	111.7	108.4	101.9	98.6	95.3	92.0	85.4	82.2
85°	249.7	243.2	236.6	230.0	220.2	213.6	203.7	197.2	187.3	177.5	167.6
82.5°	394.3	384.5	371.3	361.5	348.3	331.9	318.8	302.3	285.9	272.8	256.3
80°	552.1	535.6	519.2	502.8	483.1	463.3	443.6	423.9	400.9	377.9	354.9
77.5°	723.0	700.0	676.9	650.7	627.7	601.4	575.1	548.8	519.2	489.6	460.1
75°	913.5	884.0	851.1	818.3	788.7	752.5	716.4	680.2	640.8	604.7	565.2
72.5°	1120.6	1084.4	1045.0	1005.6	962.8	916.8	870.8	821.5	775.5	729.5	680.2
70°	1344.0	1301.3	1252.0	1202.7	1150.2	1094.3	1038.4	979.3	920.1	861.0	801.8
67.5°	1583.9	1531.3	1472.2	1413.0	1347.3	1281.6	1215.9	1146.9	1074.6	1002.3	933.3
65°	1840.2	1774.5	1705.5	1629.9	1554.3	1478.8	1399.9	1317.7	1235.6	1150.2	1074.6
62.5°	2126.1	2044.0	1955.3	1863.2	1777.8	1685.8	1600.4	1498.5	1399.9	1304.6	1209.3
60°	2458.0	2349.6	2241.2	2126.1	2017.7	1899.4	1794.2	1682.5	1570.8	1462.3	1350.6
57.5°	2829.4	2691.4	2559.9	2421.9	2277.3	2145.9	2011.1	1876.4	1751.5	1623.4	1501.8
55°	3250.0	3082.4	2918.1	2747.2	2579.6	2415.3	2244.4	2093.3	1938.8	1794.2	1652.9
52.5°	3710.1	3519.5	3315.7	3121.8	2908.2	2704.5	2513.9	2323.3	2142.6	1968.4	1807.4
50°	4203.0	3979.5	3746.2	3509.6	3266.4	3026.5	2796.5	2573.1	2362.7	2159.0	1968.4
47.5°	4715.6	4462.6	4196.4	3926.9	3667.3	3374.9	3098.8	2845.8	2592.8	2362.7	2142.6
45°	5241.4	4955.5	4663.0	4357.4	4051.8	3736.4	3430.7	3121.8	2845.8	2573.1	2323.3
42.5°	5783.6	5461.6	5136.3	4797.8	4459.3	4114.3	3769.2	3430.7	3098.8	2796.5	2513.9
40°	6342.3	5987.4	5616.0	5248.0	4886.5	4492.2	4114.3	3736.4	3374.9	3026.5	2704.5
37.5°	6900.9	6513.1	6112.2	5698.2	5284.1	4886.5	4459.3	4051.8	3667.3	3266.4	2908.2
35°	7462.8	7035.6	6601.9	6151.7	5698.2	5248.0	4797.8	4357.4	3926.9	3509.6	3121.8
32.5°	8028.1	7561.4	7081.7	6601.9	6112.2	5616.0	5136.3	4663.0	4196.4	3746.2	3315.7
30°	8583.4	8077.4	7561.4	7035.6	6513.1	5987.4	5461.6	4955.5	4462.6	3979.5	3519.5
27.5°	9125.6	8583.4	8028.1	7462.8	6900.9	6342.3	5783.6	5241.4	4715.6	4203.0	3710.1
25°	9648.1	9069.8	8475.0	7873.6	7275.5	6680.7	6092.5	5507.6	4955.5	4416.6	3900.7
22.5°	10141.1	9529.8	8902.2	8264.7	7623.9	6996.2	6378.4	5770.5	5182.3	4617.0	4074.8
20°	10614.3	9960.3	9322.8	8626.1	7955.8	7295.3	6647.9	6010.4	5389.3	4801.1	4232.6
17.5°	11044.8	10357.9	9661.3	8961.3	8258.1	7564.7	6887.8	6253.5	5579.9	4968.7	4383.7
15°	11432.5	10716.1	9986.6	9260.4	8527.6	7807.9	7104.7	6421.1	5754.0	5119.8	4515.2
12.5°	11771.0	11028.3	10272.5	9520.0	8767.4	8021.5	7295.3	6588.7	5905.2	5248.0	4626.9
10°	12050.3	11291.2	10512.4	9736.9	8964.6	8198.9	7449.7	6730.0	6030.1	5356.4	4718.9
7.5°	12277.1	11498.2	10706.3	9907.7	9119.1	8337.0	7574.6	6838.5	6128.7	5438.6	4791.2
5°	12438.1	11649.4	10844.3	10029.3	9230.8	8438.8	7663.3	6917.3	6197.7	5497.7	4843.8
2.5°	12539.9	11771.0	10956.0	10131.2	9322.8	8521.0	7735.6	6979.8	6253.5	5547.0	4886.5
0°	12572.8	11771.0	10956.0	10131.2	9322.8	8521.0	7735.6	6979.8	6253.5	5547.0	4886.5

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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°	78.9	72.3	65.7	62.4	55.9	52.6	46.0	39.4	36.1	29.6	23.0
85°	157.7	144.6	134.7	124.9	115.0	101.9	92.0	82.2	69.0	59.2	46.0
82.5°	239.9	223.5	207.0	190.6	174.2	157.7	138.0	121.6	105.2	88.7	69.0
80°	331.9	305.6	282.6	259.6	236.6	213.6	187.3	164.3	138.0	115.0	92.0
77.5°	427.2	397.6	364.8	331.9	299.0	269.5	236.6	207.0	177.5	144.6	115.0
75°	529.1	489.6	453.5	410.8	371.3	328.6	289.2	249.7	213.6	177.5	138.0
72.5°	634.2	584.9	535.6	489.6	440.3	391.1	345.0	295.8	249.7	207.0	164.3
70°	742.7	683.5	624.4	568.5	512.6	453.5	400.9	345.0	289.2	236.6	187.3
67.5°	857.7	788.7	719.7	647.4	584.9	519.2	453.5	391.1	328.6	269.5	213.6
65°	982.6	900.4	815.0	739.4	657.2	584.9	512.6	440.3	371.3	299.0	236.6
62.5°	1110.7	1015.4	920.1	824.8	739.4	647.4	568.5	489.6	410.8	331.9	259.6
60°	1242.2	1133.7	1025.3	920.1	815.0	719.7	624.4	535.6	453.5	364.8	282.6
57.5°	1376.9	1255.3	1133.7	1015.4	900.4	788.7	683.5	584.9	489.6	397.6	305.6
55°	1514.9	1376.9	1242.2	1110.7	982.6	857.7	742.7	634.2	529.1	427.2	331.9
52.5°	1652.9	1501.8	1350.6	1209.3	1074.6	933.3	801.8	680.2	565.2	460.1	354.9
50°	1794.2	1623.4	1462.3	1304.6	1150.2	1002.3	861.0	729.5	604.7	489.6	377.9
47.5°	1938.8	1751.5	1570.8	1399.9	1235.6	1074.6	920.1	775.5	640.8	519.2	400.9
45°	2093.3	1876.4	1682.5	1498.5	1317.7	1146.9	979.3	821.5	680.2	548.8	423.9
42.5°	2244.4	2011.1	1794.2	1600.4	1399.9	1215.9	1038.4	870.8	716.4	575.1	443.6
40°	2415.3	2145.9	1899.4	1685.8	1478.8	1281.6	1094.3	916.8	752.5	601.4	463.3
37.5°	2579.6	2277.3	2017.7	1777.8	1554.3	1347.3	1150.2	962.8	788.7	627.7	483.1
35°	2747.2	2421.9	2126.1	1863.2	1629.9	1413.0	1202.7	1005.6	818.3	650.7	502.8
32.5°	2918.1	2559.9	2241.2	1955.3	1705.5	1472.2	1252.0	1045.0	851.1	676.9	519.2
30°	3082.4	2691.4	2349.6	2044.0	1774.5	1531.3	1301.3	1084.4	884.0	700.0	535.6
27.5°	3250.0	2829.4	2458.0	2126.1	1840.2	1583.9	1344.0	1120.6	913.5	723.0	552.1
25°	3411.0	2960.8	2559.9	2205.0	1899.4	1636.5	1390.0	1156.7	939.8	742.7	565.2
22.5°	3558.9	3075.8	2651.9	2280.6	1961.8	1682.5	1429.5	1189.6	966.1	762.4	578.4
20°	3693.6	3194.1	2747.2	2356.2	2021.0	1728.5	1462.3	1219.2	989.1	778.8	591.5
17.5°	3825.1	3302.6	2832.7	2425.2	2070.3	1767.9	1495.2	1242.2	1008.8	792.0	601.4
15°	3936.8	3397.9	2908.2	2484.3	2116.3	1800.8	1521.5	1265.2	1025.3	805.1	607.9
12.5°	4035.4	3480.0	2974.0	2533.6	2152.4	1830.4	1547.8	1284.9	1041.7	815.0	617.8
10°	4114.3	3545.8	3026.5	2576.3	2185.3	1853.4	1564.2	1301.3	1051.6	824.8	624.4
7.5°	4176.7	3598.3	3069.3	2605.9	2208.3	1873.1	1580.6	1311.2	1061.4	831.4	634.2
5°	4222.7	3637.8	3098.8	2628.9	2228.0	1896.1	1600.4	1327.6	1074.6	841.3	634.2
2.5°	4258.9	3667.3	3121.8	2648.6	2241.2	1896.1	1600.4	1327.6	1074.6	841.3	634.2
0°	4258.9	3667.3	3121.8	2648.6	2241.2	1896.1	1600.4	1327.6	1074.6	841.3	634.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.4	13.1	6.6	0.0
85°	36.1	23.0	13.1	0.0
82.5°	52.6	36.1	16.4	0.0
80°	69.0	46.0	23.0	0.0
77.5°	88.7	59.2	29.6	0.0
75°	105.2	69.0	36.1	0.0
72.5°	121.6	82.2	39.4	0.0
70°	138.0	92.0	46.0	0.0
67.5°	157.7	101.9	52.6	0.0
65°	174.2	115.0	55.9	0.0
62.5°	190.6	124.9	62.4	0.0
60°	207.0	134.7	65.7	0.0
57.5°	223.5	144.6	72.3	0.0
55°	239.9	157.7	78.9	0.0
52.5°	256.3	167.6	82.2	0.0
50°	272.8	177.5	85.4	0.0
47.5°	285.9	187.3	92.0	0.0
45°	302.3	197.2	95.3	0.0
42.5°	318.8	203.7	98.6	0.0
40°	331.9	213.6	101.9	0.0
37.5°	348.3	220.2	108.4	0.0
35°	361.5	230.0	111.7	0.0
32.5°	371.3	236.6	115.0	0.0
30°	384.5	243.2	118.3	0.0
27.5°	394.3	249.7	118.3	0.0
25°	404.2	256.3	121.6	0.0
22.5°	414.1	259.6	124.9	0.0
20°	423.9	266.2	128.2	0.0
17.5°	430.5	269.5	128.2	0.0
15°	437.1	272.8	134.7	0.0
12.5°	440.3	276.0	134.7	0.0
10°	446.9	282.6	134.7	0.0
7.5°	453.5	282.6	134.7	0.0
5°	453.5	282.6	134.7	0.0
2.5°	453.5	282.6	134.7	0.0
0°	453.5	282.6	134.7	0.0

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