

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: P623894

Luminaire Tested: **IFLD-L-SA8A-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623894
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

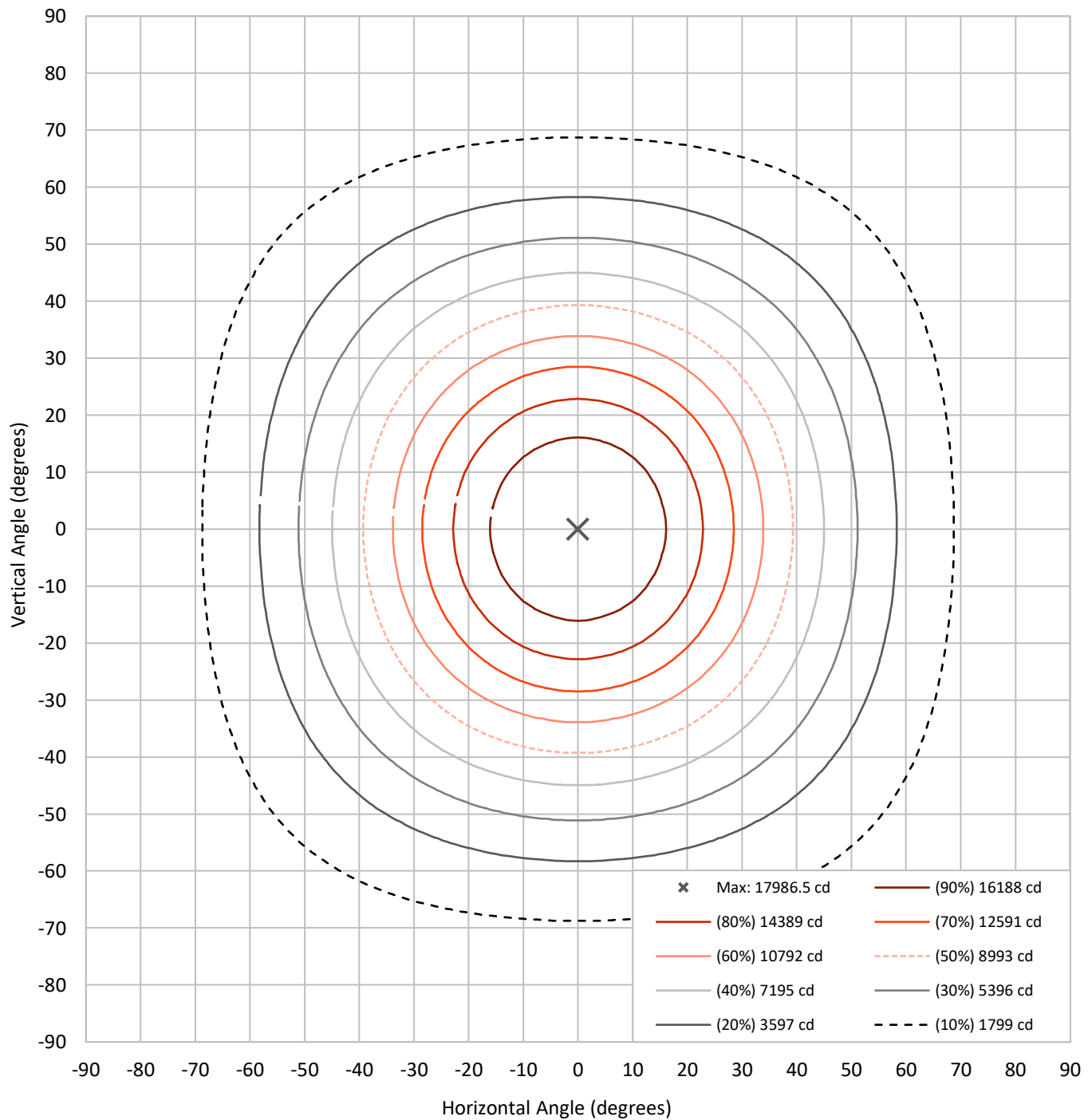
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	32385 lumens	Max Intensity:	17986.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	130.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	14012.7 lumens	Field Lumens:	22945.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	247.8		
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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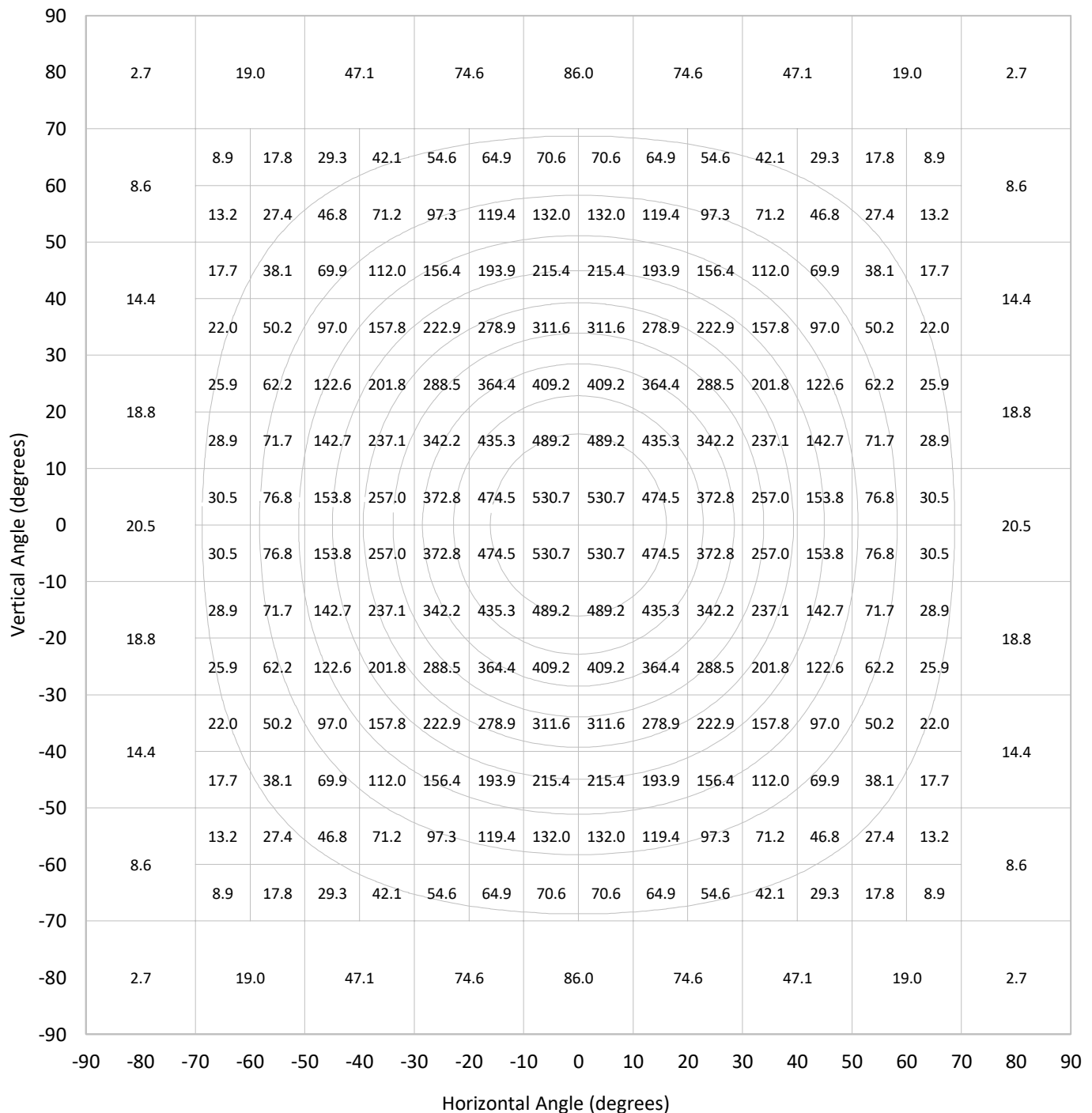
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Iso-Candela Plot



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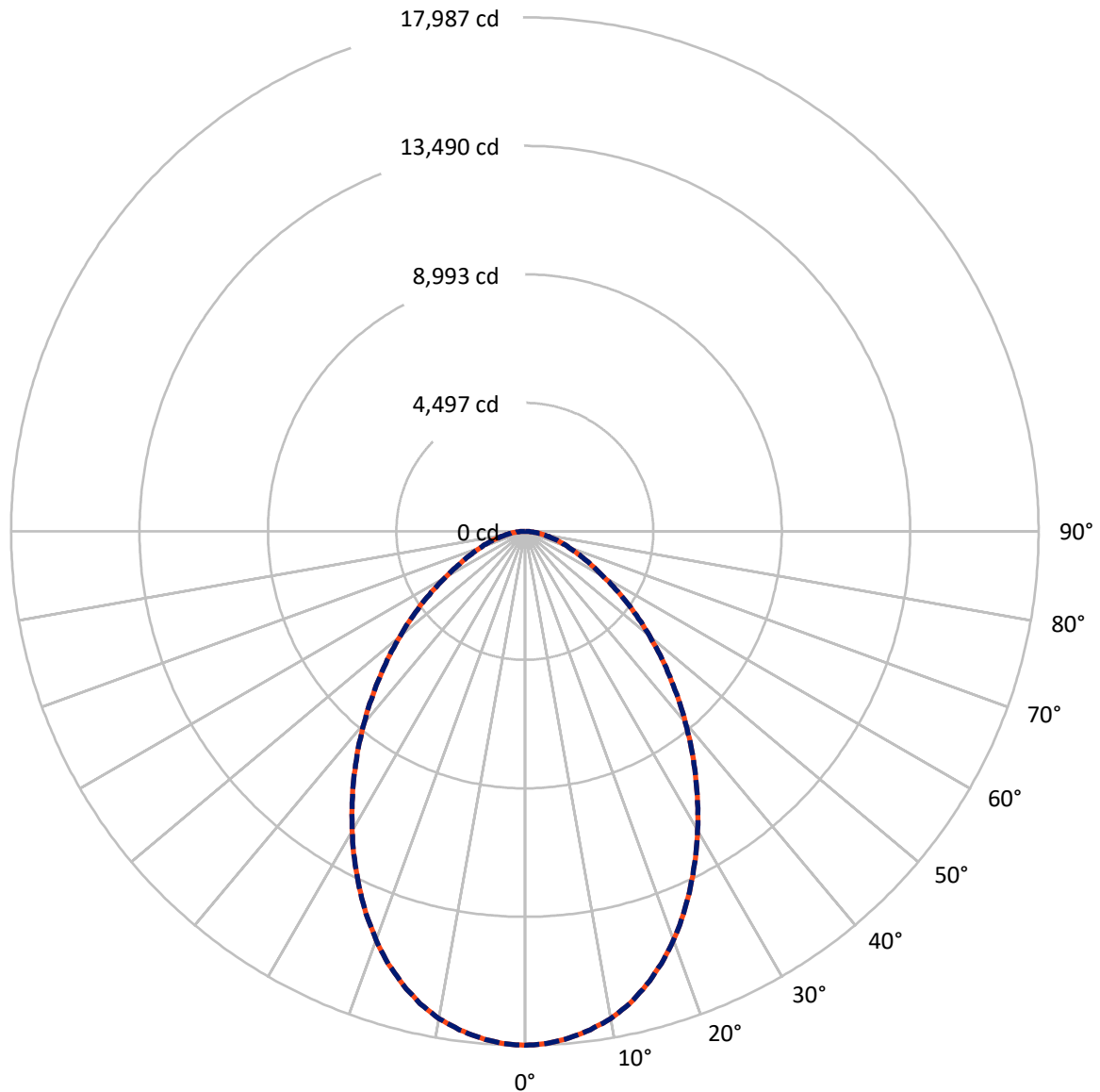
Lumen Table



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Luminous Intensity Polar Plot

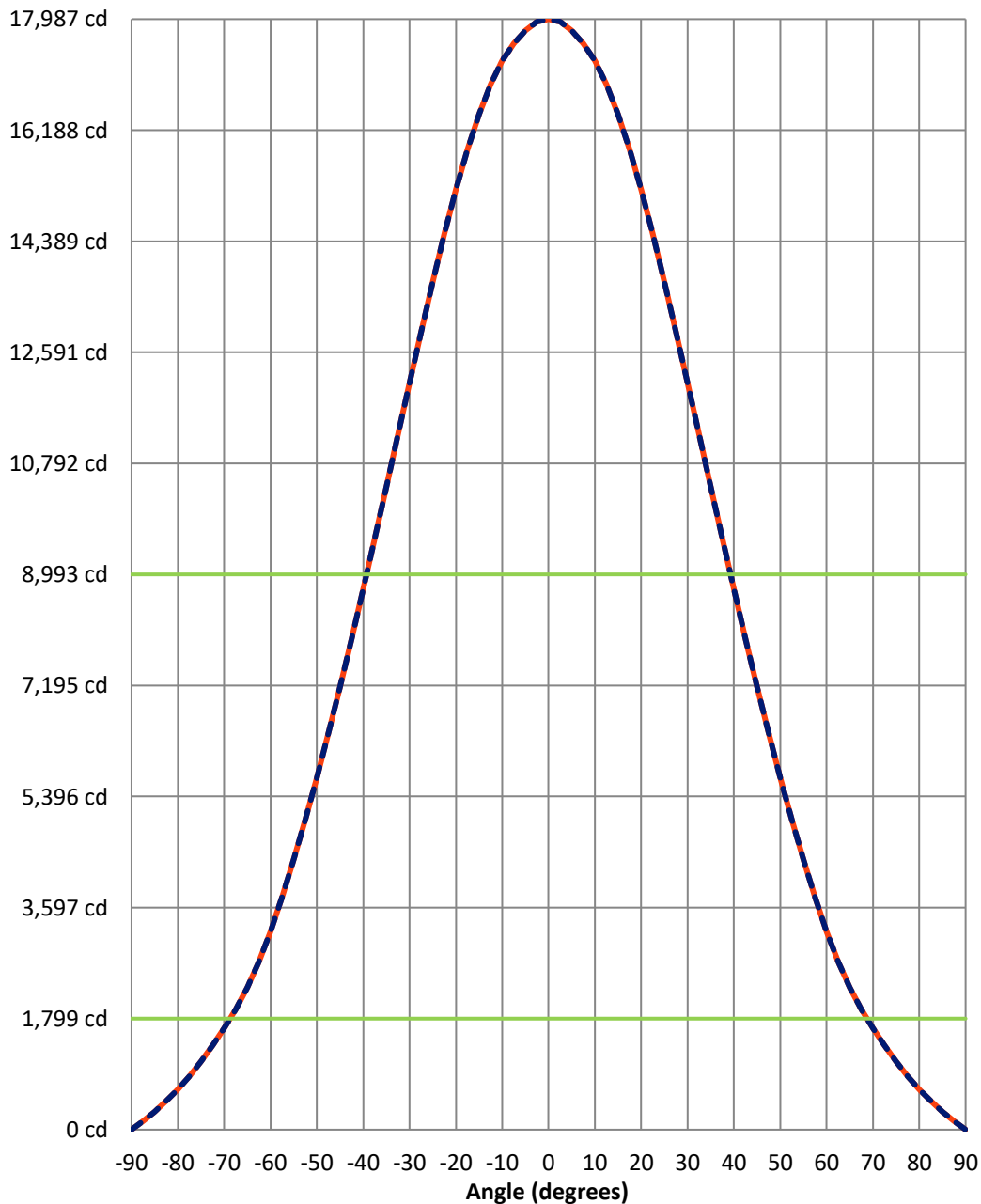


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 14012.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 22945.3
Efficiency: 70.9%

Spill:

Lumens: 9439.7
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°	138.4	138.4	138.4	138.4	138.4	138.4	138.4	131.7	131.7	128.3	124.9
85°	290.4	290.4	290.4	290.4	290.4	283.6	280.2	276.9	273.5	266.7	263.4
82.5°	466.0	466.0	466.0	466.0	459.2	452.4	449.1	442.3	435.6	425.4	415.3
80°	651.7	651.7	651.7	651.7	641.5	634.8	624.6	617.9	607.8	594.3	580.8
77.5°	864.4	864.4	864.4	854.2	847.5	837.4	827.2	813.7	800.2	783.3	763.1
75°	1104.1	1104.1	1104.1	1090.6	1080.5	1070.3	1053.5	1036.6	1016.3	992.7	965.7
72.5°	1364.1	1364.1	1364.1	1347.2	1337.1	1320.2	1299.9	1276.3	1252.7	1222.3	1188.5
70°	1644.3	1644.3	1644.3	1624.1	1607.2	1590.3	1563.3	1536.3	1502.5	1468.8	1428.2
67.5°	1948.2	1948.2	1948.2	1924.6	1904.3	1880.7	1850.3	1816.5	1776.0	1728.8	1681.5
65°	2302.8	2302.8	2289.2	2269.0	2245.4	2211.6	2174.4	2127.2	2076.5	2015.8	1951.6
62.5°	2721.4	2721.4	2701.2	2677.5	2647.2	2603.3	2552.6	2491.8	2420.9	2343.3	2265.6
60°	3207.6	3207.6	3184.0	3153.6	3109.7	3055.7	2988.2	2910.5	2822.7	2724.8	2630.3
57.5°	3768.1	3768.1	3737.8	3697.2	3643.2	3575.7	3491.3	3393.4	3281.9	3160.4	3042.2
55°	4375.9	4375.9	4338.8	4291.5	4227.3	4146.3	4045.0	3930.2	3795.2	3656.7	3504.8
52.5°	5020.8	5020.8	4976.9	4922.9	4848.6	4754.1	4639.3	4504.2	4348.9	4186.8	4007.9
50°	5699.5	5699.5	5648.8	5588.1	5503.6	5392.2	5260.5	5105.2	4933.0	4743.9	4538.0
47.5°	6425.4	6425.4	6368.0	6297.1	6195.8	6067.5	5912.2	5733.2	5537.4	5324.7	5091.7
45°	7171.6	7171.6	7107.5	7026.4	6915.0	6769.8	6597.6	6425.4	6175.6	5929.1	5659.0
42.5°	7948.2	7948.2	7873.9	7782.8	7654.5	7495.8	7299.9	7077.1	6830.6	6553.7	6260.0
40°	8755.2	8755.2	8670.8	8566.1	8424.3	8242.0	8022.5	7772.6	7495.8	7188.5	6864.4
37.5°	9579.0	9579.0	9484.5	9369.7	9211.0	9008.4	8761.9	8485.1	8174.4	7833.4	7475.5
35°	10409.7	10409.7	10305.0	10180.1	10004.5	9781.6	9514.9	9207.6	8863.2	8491.8	8090.0
32.5°	11257.2	11257.2	11142.4	11000.5	10801.3	10554.8	10261.1	9926.8	9579.0	9146.9	8707.9
30°	12094.5	12094.5	11969.6	11814.3	11601.6	11331.4	11010.7	10642.6	10234.1	9791.8	9319.1
27.5°	12918.4	12884.6	12779.9	12614.5	12381.5	12094.5	11746.7	11348.3	10906.0	10419.8	9913.3
25°	13728.7	13691.6	13576.8	13394.5	13144.6	12830.6	12455.8	12030.4	11554.3	11041.1	10487.3
22.5°	14505.3	14464.8	14343.2	14147.4	13880.7	13539.6	13137.8	12682.0	12175.6	11625.2	11041.1
20°	15224.5	15180.6	15055.7	14849.7	14572.8	14211.6	13786.1	13296.5	12756.3	12175.6	11554.3
17.5°	15872.8	15828.9	15697.2	15484.5	15224.5	14822.7	14383.8	13867.2	13296.5	12682.0	12030.4
15°	16443.4	16396.1	16261.1	16048.4	15751.2	15373.1	14910.5	14383.8	13786.1	13137.8	12455.8
12.5°	16929.6	16882.4	16743.9	16531.2	16223.9	15845.8	15373.1	14822.7	14211.6	13539.6	12830.6
10°	17314.5	17267.3	17135.6	16933.0	16615.6	16223.9	15751.2	15224.5	14572.8	13880.7	13144.6
7.5°	17591.4	17547.5	17426.0	17223.4	16933.0	16531.2	16048.4	15484.5	14849.7	14147.4	13394.5
5°	17800.8	17750.1	17628.6	17426.0	17135.6	16743.9	16261.1	15697.2	15055.7	14343.2	13576.8
2.5°	17945.9	17885.2	17750.1	17547.5	17267.3	16882.4	16396.1	15828.9	15180.6	14464.8	13691.6
0°	17986.5	17945.9	17800.8	17591.4	17314.5	16929.6	16443.4	15872.8	15224.5	14505.3	13728.7

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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°	121.6	121.6	118.2	114.8	111.4	104.7	101.3	97.9	94.5	87.8	84.4
85°	256.6	249.9	243.1	236.4	226.2	219.5	209.3	202.6	192.5	182.3	172.2
82.5°	405.2	395.0	381.5	371.4	357.9	341.0	327.5	310.6	293.8	280.2	263.4
80°	567.2	550.4	533.5	516.6	496.3	476.1	455.8	435.6	411.9	388.3	364.7
77.5°	742.8	719.2	695.6	668.5	644.9	617.9	590.9	563.9	533.5	503.1	472.7
75°	938.7	908.3	874.5	840.7	810.4	773.2	736.1	698.9	658.4	621.3	580.8
72.5°	1151.4	1114.2	1073.7	1033.2	989.3	942.0	894.8	844.1	796.8	749.6	698.9
70°	1381.0	1337.1	1286.4	1235.8	1181.8	1124.4	1067.0	1006.2	945.4	884.6	823.9
67.5°	1627.5	1573.4	1512.7	1451.9	1384.4	1316.8	1249.3	1178.4	1104.1	1029.8	958.9
65°	1890.8	1823.3	1752.4	1674.7	1597.1	1519.4	1438.4	1354.0	1269.6	1181.8	1104.1
62.5°	2184.6	2100.2	2009.0	1914.5	1826.7	1732.1	1644.3	1539.7	1438.4	1340.5	1242.5
60°	2525.6	2414.2	2302.8	2184.6	2073.2	1951.6	1843.6	1728.8	1614.0	1502.5	1387.7
57.5°	2907.1	2765.3	2630.3	2488.5	2339.9	2204.8	2066.4	1928.0	1799.7	1668.0	1543.0
55°	3339.3	3167.1	2998.3	2822.7	2650.5	2481.7	2306.1	2150.8	1992.1	1843.6	1698.4
52.5°	3812.0	3616.2	3406.9	3207.6	2988.2	2778.8	2583.0	2387.2	2201.5	2022.5	1857.1
50°	4318.5	4088.9	3849.2	3606.1	3356.2	3109.7	2873.4	2643.8	2427.7	2218.3	2022.5
47.5°	4845.2	4585.2	4311.8	4034.9	3768.1	3467.6	3184.0	2924.0	2664.0	2427.7	2201.5
45°	5385.5	5091.7	4791.2	4477.2	4163.2	3839.0	3525.0	3207.6	2924.0	2643.8	2387.2
42.5°	5942.6	5611.7	5277.4	4929.6	4581.9	4227.3	3872.8	3525.0	3184.0	2873.4	2583.0
40°	6516.6	6151.9	5770.4	5392.2	5020.8	4615.6	4227.3	3839.0	3467.6	3109.7	2778.8
37.5°	7090.6	6692.2	6280.2	5854.8	5429.4	5020.8	4581.9	4163.2	3768.1	3356.2	2988.2
35°	7668.0	7229.0	6783.3	6320.8	5854.8	5392.2	4929.6	4477.2	4034.9	3606.1	3207.6
32.5°	8248.7	7769.3	7276.3	6783.3	6280.2	5770.4	5277.4	4791.2	4311.8	3849.2	3406.9
30°	8819.3	8299.4	7769.3	7229.0	6692.2	6151.9	5611.7	5091.7	4585.2	4088.9	3616.2
27.5°	9376.5	8819.3	8248.7	7668.0	7090.6	6516.6	5942.6	5385.5	4845.2	4318.5	3812.0
25°	9913.3	9319.1	8707.9	8090.0	7475.5	6864.4	6260.0	5659.0	5091.7	4538.0	4007.9
22.5°	10419.8	9791.8	9146.9	8491.8	7833.4	7188.5	6553.7	5929.1	5324.7	4743.9	4186.8
20°	10906.0	10234.1	9579.0	8863.2	8174.4	7495.8	6830.6	6175.6	5537.4	4933.0	4348.9
17.5°	11348.3	10642.6	9926.8	9207.6	8485.1	7772.6	7077.1	6425.4	5733.2	5105.2	4504.2
15°	11746.7	11010.7	10261.1	9514.9	8761.9	8022.5	7299.9	6597.6	5912.2	5260.5	4639.3
12.5°	12094.5	11331.4	10554.8	9781.6	9008.4	8242.0	7495.8	6769.8	6067.5	5392.2	4754.1
10°	12381.5	11601.6	10801.3	10004.5	9211.0	8424.3	7654.5	6915.0	6195.8	5503.6	4848.6
7.5°	12614.5	11814.3	11000.5	10180.1	9369.7	8566.1	7782.8	7026.4	6297.1	5588.1	4922.9
5°	12779.9	11969.6	11142.4	10305.0	9484.5	8670.8	7873.9	7107.5	6368.0	5648.8	4976.9
2.5°	12884.6	12094.5	11257.2	10409.7	9579.0	8755.2	7948.2	7171.6	6425.4	5699.5	5020.8
0°	12918.4	12094.5	11257.2	10409.7	9579.0	8755.2	7948.2	7171.6	6425.4	5699.5	5020.8

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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°	81.0	74.3	67.5	64.2	57.4	54.0	47.3	40.5	37.1	30.4	23.6
85°	162.1	148.6	138.4	128.3	118.2	104.7	94.5	84.4	70.9	60.8	47.3
82.5°	246.5	229.6	212.7	195.8	179.0	162.1	141.8	124.9	108.0	91.2	70.9
80°	341.0	314.0	290.4	266.7	243.1	219.5	192.5	168.8	141.8	118.2	94.5
77.5°	438.9	408.6	374.8	341.0	307.3	276.9	243.1	212.7	182.3	148.6	118.2
75°	543.6	503.1	466.0	422.1	381.5	337.6	297.1	256.6	219.5	182.3	141.8
72.5°	651.7	601.0	550.4	503.1	452.4	401.8	354.5	303.9	256.6	212.7	168.8
70°	763.1	702.3	641.5	584.1	526.7	466.0	411.9	354.5	297.1	243.1	192.5
67.5°	881.3	810.4	739.4	665.2	601.0	533.5	466.0	401.8	337.6	276.9	219.5
65°	1009.6	925.2	837.4	759.7	675.3	601.0	526.7	452.4	381.5	307.3	243.1
62.5°	1141.2	1043.3	945.4	847.5	759.7	665.2	584.1	503.1	422.1	341.0	266.7
60°	1276.3	1164.9	1053.5	945.4	837.4	739.4	641.5	550.4	466.0	374.8	290.4
57.5°	1414.7	1289.8	1164.9	1043.3	925.2	810.4	702.3	601.0	503.1	408.6	314.0
55°	1556.6	1414.7	1276.3	1141.2	1009.6	881.3	763.1	651.7	543.6	438.9	341.0
52.5°	1698.4	1543.0	1387.7	1242.5	1104.1	958.9	823.9	698.9	580.8	472.7	364.7
50°	1843.6	1668.0	1502.5	1340.5	1181.8	1029.8	884.6	749.6	621.3	503.1	388.3
47.5°	1992.1	1799.7	1614.0	1438.4	1269.6	1104.1	945.4	796.8	658.4	533.5	411.9
45°	2150.8	1928.0	1728.8	1539.7	1354.0	1178.4	1006.2	844.1	698.9	563.9	435.6
42.5°	2306.1	2066.4	1843.6	1644.3	1438.4	1249.3	1067.0	894.8	736.1	590.9	455.8
40°	2481.7	2204.8	1951.6	1732.1	1519.4	1316.8	1124.4	942.0	773.2	617.9	476.1
37.5°	2650.5	2339.9	2073.2	1826.7	1597.1	1384.4	1181.8	989.3	810.4	644.9	496.3
35°	2822.7	2488.5	2184.6	1914.5	1674.7	1451.9	1235.8	1033.2	840.7	668.5	516.6
32.5°	2998.3	2630.3	2302.8	2009.0	1752.4	1512.7	1286.4	1073.7	874.5	695.6	533.5
30°	3167.1	2765.3	2414.2	2100.2	1823.3	1573.4	1337.1	1114.2	908.3	719.2	550.4
27.5°	3339.3	2907.1	2525.6	2184.6	1890.8	1627.5	1381.0	1151.4	938.7	742.8	567.2
25°	3504.8	3042.2	2630.3	2265.6	1951.6	1681.5	1428.2	1188.5	965.7	763.1	580.8
22.5°	3656.7	3160.4	2724.8	2343.3	2015.8	1728.8	1468.8	1222.3	992.7	783.3	594.3
20°	3795.2	3281.9	2822.7	2420.9	2076.5	1776.0	1502.5	1252.7	1016.3	800.2	607.8
17.5°	3930.2	3393.4	2910.5	2491.8	2127.2	1816.5	1536.3	1276.3	1036.6	813.7	617.9
15°	4045.0	3491.3	2988.2	2552.6	2174.4	1850.3	1563.3	1299.9	1053.5	827.2	624.6
12.5°	4146.3	3575.7	3055.7	2603.3	2211.6	1880.7	1590.3	1320.2	1070.3	837.4	634.8
10°	4227.3	3643.2	3109.7	2647.2	2245.4	1904.3	1607.2	1337.1	1080.5	847.5	641.5
7.5°	4291.5	3697.2	3153.6	2677.5	2269.0	1924.6	1624.1	1347.2	1090.6	854.2	651.7
5°	4338.8	3737.8	3184.0	2701.2	2289.2	1948.2	1644.3	1364.1	1104.1	864.4	651.7
2.5°	4375.9	3768.1	3207.6	2721.4	2302.8	1948.2	1644.3	1364.1	1104.1	864.4	651.7
0°	4375.9	3768.1	3207.6	2721.4	2302.8	1948.2	1644.3	1364.1	1104.1	864.4	651.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.9	13.5	6.8	0.0
85°	37.1	23.6	13.5	0.0
82.5°	54.0	37.1	16.9	0.0
80°	70.9	47.3	23.6	0.0
77.5°	91.2	60.8	30.4	0.0
75°	108.0	70.9	37.1	0.0
72.5°	124.9	84.4	40.5	0.0
70°	141.8	94.5	47.3	0.0
67.5°	162.1	104.7	54.0	0.0
65°	179.0	118.2	57.4	0.0
62.5°	195.8	128.3	64.2	0.0
60°	212.7	138.4	67.5	0.0
57.5°	229.6	148.6	74.3	0.0
55°	246.5	162.1	81.0	0.0
52.5°	263.4	172.2	84.4	0.0
50°	280.2	182.3	87.8	0.0
47.5°	293.8	192.5	94.5	0.0
45°	310.6	202.6	97.9	0.0
42.5°	327.5	209.3	101.3	0.0
40°	341.0	219.5	104.7	0.0
37.5°	357.9	226.2	111.4	0.0
35°	371.4	236.4	114.8	0.0
32.5°	381.5	243.1	118.2	0.0
30°	395.0	249.9	121.6	0.0
27.5°	405.2	256.6	121.6	0.0
25°	415.3	263.4	124.9	0.0
22.5°	425.4	266.7	128.3	0.0
20°	435.6	273.5	131.7	0.0
17.5°	442.3	276.9	131.7	0.0
15°	449.1	280.2	138.4	0.0
12.5°	452.4	283.6	138.4	0.0
10°	459.2	290.4	138.4	0.0
7.5°	466.0	290.4	138.4	0.0
5°	466.0	290.4	138.4	0.0
2.5°	466.0	290.4	138.4	0.0
0°	466.0	290.4	138.4	0.0

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