

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: P623829

Luminaire Tested: **IFLD-M-SA4D-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623829
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

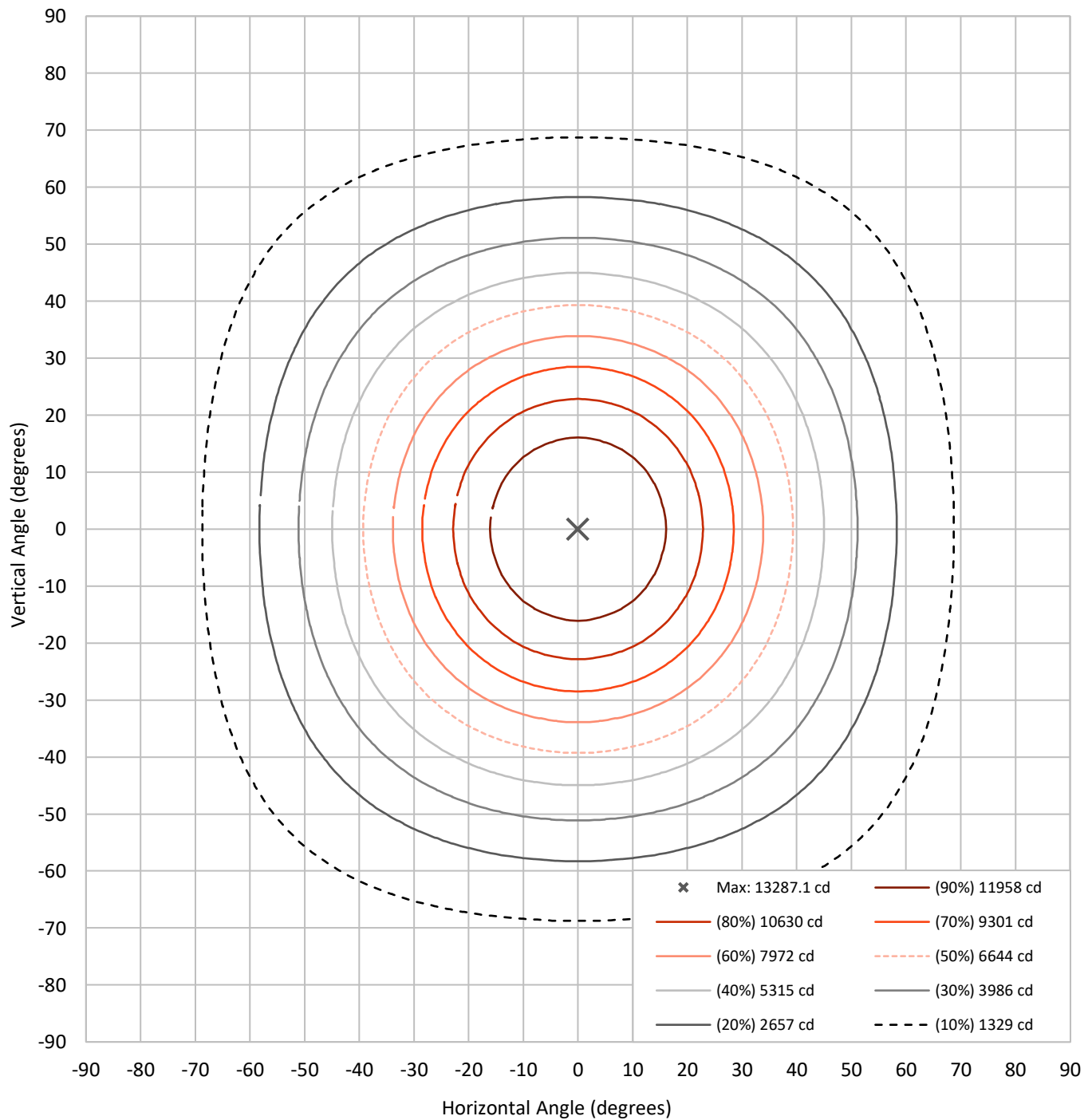
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23923.8 lumens	Max Intensity:	13287.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	10351.6 lumens	Field Lumens:	16950.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	249.7		
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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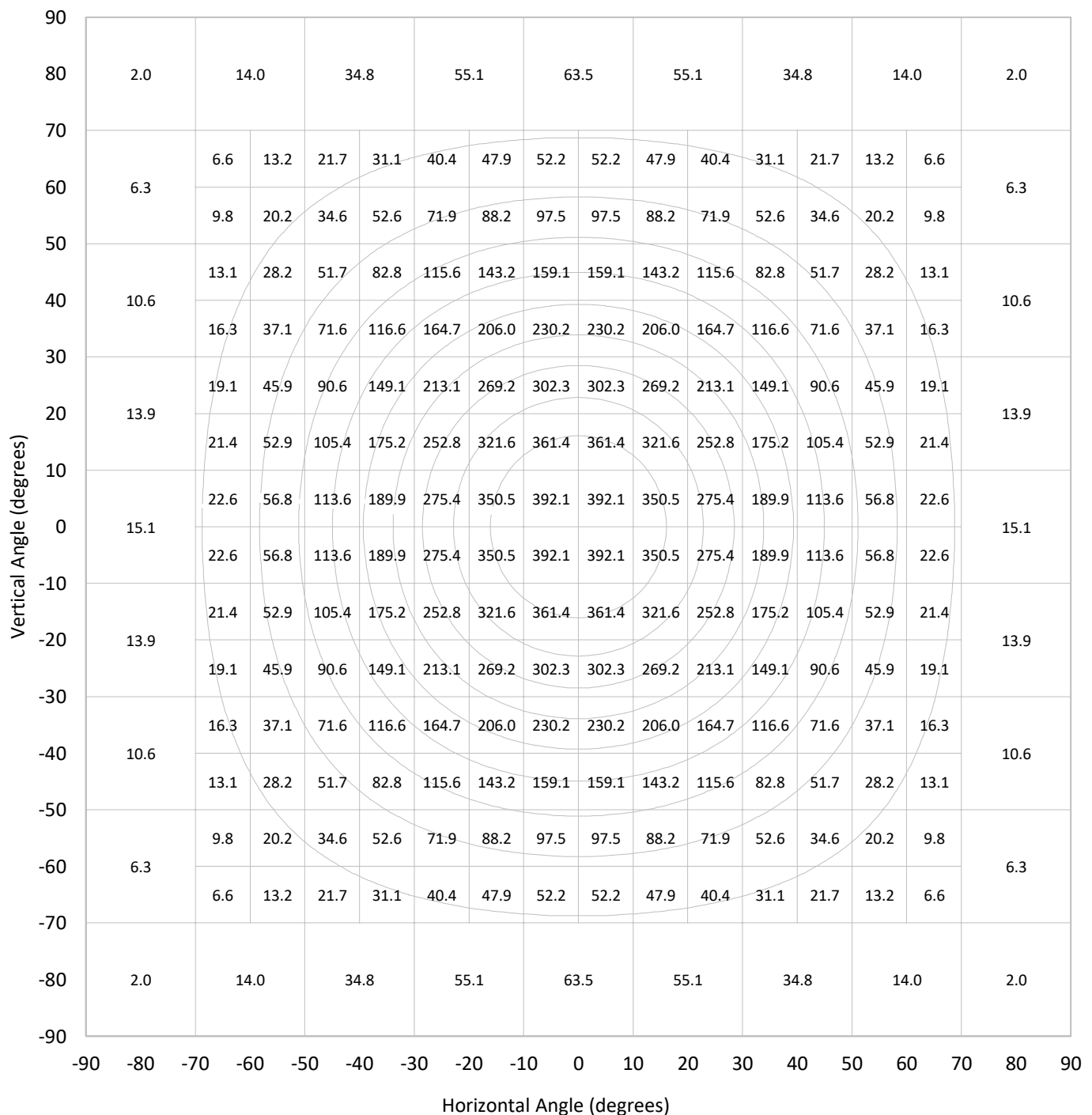
Iso-Candela Plot



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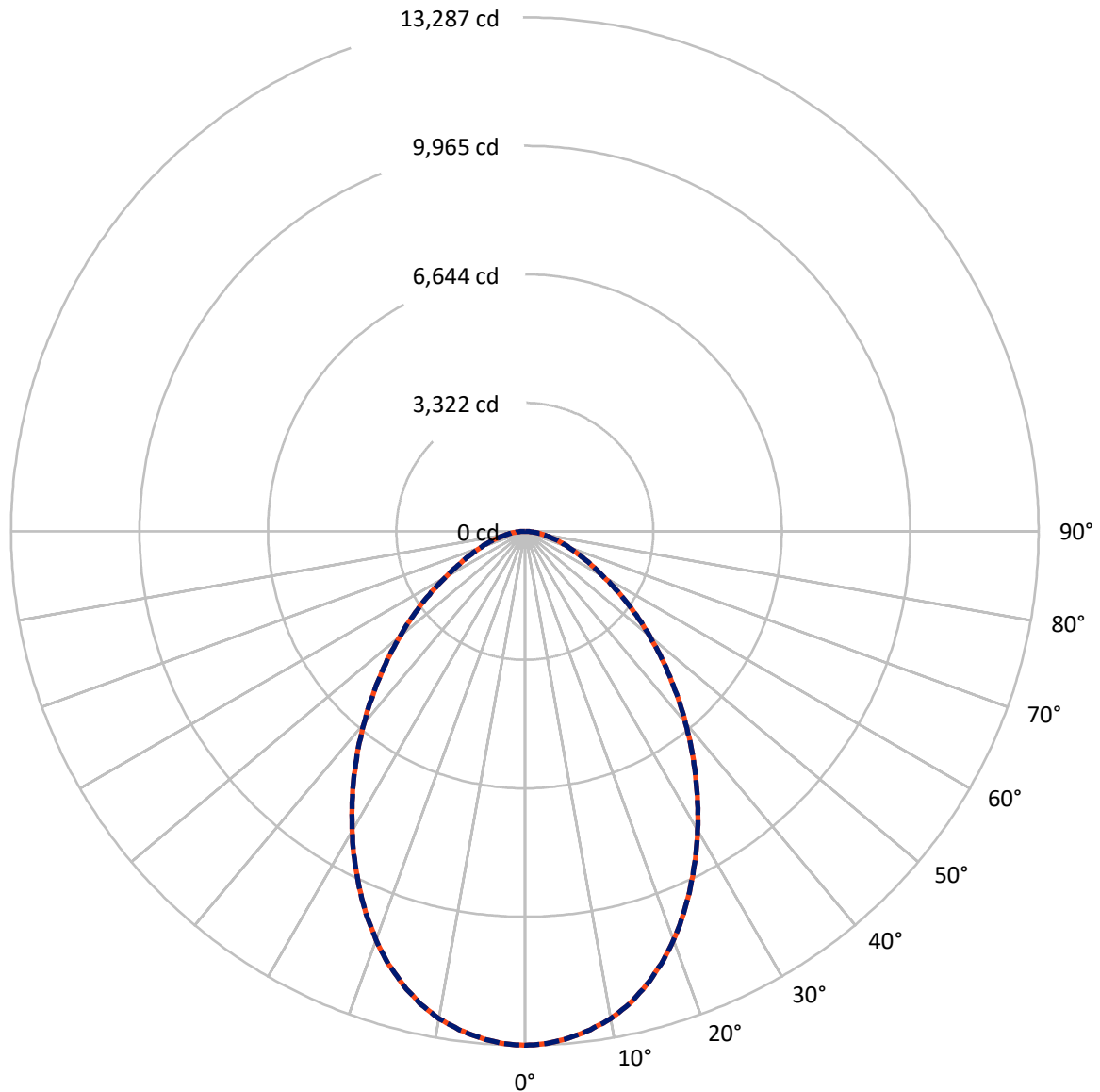
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Lumen Table



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Luminous Intensity Polar Plot

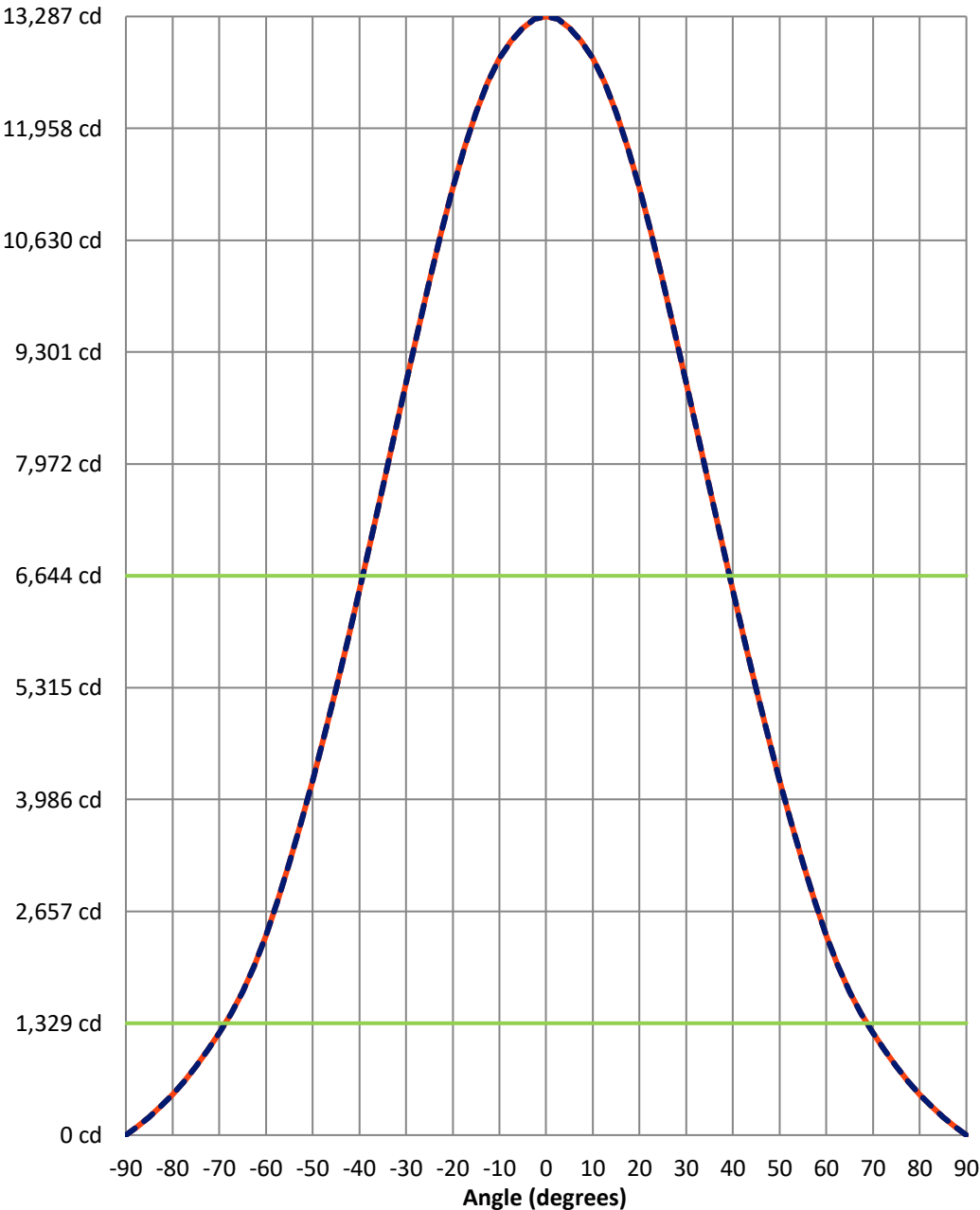


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 10351.6
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 16950.4
Efficiency: 70.9%

Spill:
Lumens: 6973.4
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°	102.3	102.3	102.3	102.3	102.3	102.3	102.3	97.3	97.3	94.8	92.3
85°	214.5	214.5	214.5	214.5	214.5	209.5	207.0	204.5	202.0	197.0	194.6
82.5°	344.2	344.2	344.2	344.2	339.2	334.2	331.7	326.8	321.8	314.3	306.8
80°	481.4	481.4	481.4	481.4	473.9	468.9	461.4	456.5	449.0	439.0	429.0
77.5°	638.5	638.5	638.5	631.1	626.1	618.6	611.1	601.1	591.1	578.7	563.7
75°	815.6	815.6	815.6	805.7	798.2	790.7	778.2	765.8	750.8	733.3	713.4
72.5°	1007.7	1007.7	1007.7	995.2	987.7	975.3	960.3	942.8	925.4	902.9	878.0
70°	1214.7	1214.7	1214.7	1199.8	1187.3	1174.8	1154.9	1134.9	1110.0	1085.0	1055.1
67.5°	1439.2	1439.2	1439.2	1421.8	1406.8	1389.3	1366.9	1341.9	1312.0	1277.1	1242.2
65°	1701.1	1701.1	1691.1	1676.2	1658.7	1633.8	1606.3	1571.4	1534.0	1489.1	1441.7
62.5°	2010.4	2010.4	1995.4	1978.0	1955.5	1923.1	1885.7	1840.8	1788.4	1731.0	1673.7
60°	2369.6	2369.6	2352.1	2329.7	2297.3	2257.3	2207.5	2150.1	2085.2	2012.9	1943.1
57.5°	2783.6	2783.6	2761.2	2731.3	2691.3	2641.5	2579.1	2506.8	2424.5	2334.7	2247.4
55°	3232.6	3232.6	3205.2	3170.3	3122.9	3063.0	2988.2	2903.4	2803.6	2701.3	2589.1
52.5°	3709.0	3709.0	3676.6	3636.7	3581.8	3512.0	3427.2	3327.4	3212.7	3092.9	2960.7
50°	4210.4	4210.4	4173.0	4128.1	4065.7	3983.4	3886.1	3771.4	3644.2	3504.5	3352.3
47.5°	4746.7	4746.7	4704.2	4651.9	4577.0	4482.3	4367.5	4235.3	4090.7	3933.5	3761.4
45°	5297.9	5297.9	5250.5	5190.6	5108.3	5001.1	4873.9	4746.7	4562.1	4380.0	4180.4
42.5°	5871.6	5871.6	5816.7	5749.4	5654.6	5537.3	5392.7	5228.1	5046.0	4841.4	4624.4
40°	6467.7	6467.7	6405.4	6328.0	6223.3	6088.6	5926.5	5741.9	5537.3	5310.4	5070.9
37.5°	7076.3	7076.3	7006.5	6921.7	6804.4	6654.8	6472.7	6268.2	6038.7	5786.8	5522.4
35°	7689.9	7689.9	7612.6	7520.3	7390.6	7226.0	7028.9	6802.0	6547.5	6273.2	5976.3
32.5°	8316.0	8316.0	8231.2	8126.4	7979.3	7797.2	7580.2	7333.2	7076.3	6757.1	6432.8
30°	8934.6	8934.6	8842.3	8727.6	8570.4	8370.9	8133.9	7862.0	7560.2	7233.5	6884.3
27.5°	9543.2	9518.2	9440.9	9318.7	9146.6	8934.6	8677.7	8383.3	8056.6	7697.4	7323.3
25°	10141.8	10114.4	10029.6	9894.9	9710.3	9478.3	9201.5	8887.2	8535.5	8156.4	7747.3
22.5°	10715.5	10685.6	10595.8	10451.1	10254.1	10002.1	9705.3	9368.6	8994.4	8587.9	8156.4
20°	11246.8	11214.4	11122.1	10969.9	10765.4	10498.5	10184.2	9822.6	9423.5	8994.4	8535.5
17.5°	11725.7	11693.3	11596.0	11438.9	11246.8	10950.0	10625.7	10244.1	9822.6	9368.6	8887.2
15°	12147.2	12112.3	12012.5	11855.4	11635.9	11356.5	11014.8	10625.7	10184.2	9705.3	9201.5
12.5°	12506.4	12471.5	12369.2	12212.1	11985.1	11705.7	11356.5	10950.0	10498.5	10002.1	9478.3
10°	12790.8	12755.8	12658.6	12508.9	12274.4	11985.1	11635.9	11246.8	10765.4	10254.1	9710.3
7.5°	12995.3	12962.9	12873.1	12723.4	12508.9	12212.1	11855.4	11438.9	10969.9	10451.1	9894.9
5°	13149.9	13112.5	13022.7	12873.1	12658.6	12369.2	12012.5	11596.0	11122.1	10595.8	10029.6
2.5°	13257.2	13212.3	13112.5	12962.9	12755.8	12471.5	12112.3	11693.3	11214.4	10685.6	10114.4
0°	13287.1	13257.2	13149.9	12995.3	12790.8	12506.4	12147.2	11725.7	11246.8	10715.5	10141.8

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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°	89.8	89.8	87.3	84.8	82.3	77.3	74.8	72.3	69.8	64.9	62.4
85°	189.6	184.6	179.6	174.6	167.1	162.1	154.6	149.7	142.2	134.7	127.2
82.5°	299.3	291.8	281.9	274.4	264.4	251.9	241.9	229.5	217.0	207.0	194.6
80°	419.0	406.6	394.1	381.6	366.7	351.7	336.7	321.8	304.3	286.8	269.4
77.5°	548.7	531.3	513.8	493.9	476.4	456.5	436.5	416.5	394.1	371.7	349.2
75°	693.4	671.0	646.0	621.1	598.6	571.2	543.8	516.3	486.4	459.0	429.0
72.5°	850.6	823.1	793.2	763.3	730.8	695.9	661.0	623.6	588.7	553.7	516.3
70°	1020.2	987.7	950.3	912.9	873.0	830.6	788.2	743.3	698.4	653.5	608.6
67.5°	1202.3	1162.3	1117.4	1072.5	1022.7	972.8	922.9	870.5	815.6	760.8	708.4
65°	1396.8	1346.9	1294.5	1237.2	1179.8	1122.4	1062.6	1000.2	937.9	873.0	815.6
62.5°	1613.8	1551.5	1484.1	1414.3	1349.4	1279.6	1214.7	1137.4	1062.6	990.2	917.9
60°	1865.7	1783.4	1701.1	1613.8	1531.5	1441.7	1361.9	1277.1	1192.3	1110.0	1025.2
57.5°	2147.6	2042.8	1943.1	1838.3	1728.5	1628.8	1526.5	1424.2	1329.5	1232.2	1139.9
55°	2466.9	2339.7	2214.9	2085.2	1958.0	1833.3	1703.6	1588.9	1471.6	1361.9	1254.6
52.5°	2816.1	2671.4	2516.7	2369.6	2207.5	2052.8	1908.1	1763.5	1626.3	1494.1	1371.9
50°	3190.2	3020.6	2843.5	2663.9	2479.3	2297.3	2122.6	1953.0	1793.4	1638.8	1494.1
47.5°	3579.3	3387.3	3185.2	2980.7	2783.6	2561.6	2352.1	2160.1	1968.0	1793.4	1626.3
45°	3978.4	3761.4	3539.4	3307.4	3075.5	2836.0	2604.0	2369.6	2160.1	1953.0	1763.5
42.5°	4390.0	4145.5	3898.6	3641.7	3384.8	3122.9	2861.0	2604.0	2352.1	2122.6	1908.1
40°	4814.0	4544.6	4262.8	3983.4	3709.0	3409.7	3122.9	2836.0	2561.6	2297.3	2052.8
37.5°	5238.0	4943.7	4639.4	4325.1	4010.8	3709.0	3384.8	3075.5	2783.6	2479.3	2207.5
35°	5664.6	5340.3	5011.0	4669.3	4325.1	3983.4	3641.7	3307.4	2980.7	2663.9	2369.6
32.5°	6093.6	5739.4	5375.2	5011.0	4639.4	4262.8	3898.6	3539.4	3185.2	2843.5	2516.7
30°	6515.1	6131.0	5739.4	5340.3	4943.7	4544.6	4145.5	3761.4	3387.3	3020.6	2671.4
27.5°	6926.7	6515.1	6093.6	5664.6	5238.0	4814.0	4390.0	3978.4	3579.3	3190.2	2816.1
25°	7323.3	6884.3	6432.8	5976.3	5522.4	5070.9	4624.4	4180.4	3761.4	3352.3	2960.7
22.5°	7697.4	7233.5	6757.1	6273.2	5786.8	5310.4	4841.4	4380.0	3933.5	3504.5	3092.9
20°	8056.6	7560.2	7076.3	6547.5	6038.7	5537.3	5046.0	4562.1	4090.7	3644.2	3212.7
17.5°	8383.3	7862.0	7333.2	6802.0	6268.2	5741.9	5228.1	4746.7	4235.3	3771.4	3327.4
15°	8677.7	8133.9	7580.2	7028.9	6472.7	5926.5	5392.7	4873.9	4367.5	3886.1	3427.2
12.5°	8934.6	8370.9	7797.2	7226.0	6654.8	6088.6	5537.3	5001.1	4482.3	3983.4	3512.0
10°	9146.6	8570.4	7979.3	7390.6	6804.4	6223.3	5654.6	5108.3	4577.0	4065.7	3581.8
7.5°	9318.7	8727.6	8126.4	7520.3	6921.7	6328.0	5749.4	5190.6	4651.9	4128.1	3636.7
5°	9440.9	8842.3	8231.2	7612.6	7006.5	6405.4	5816.7	5250.5	4704.2	4173.0	3676.6
2.5°	9518.2	8934.6	8316.0	7689.9	7076.3	6467.7	5871.6	5297.9	4746.7	4210.4	3709.0
0°	9543.2	8934.6	8316.0	7689.9	7076.3	6467.7	5871.6	5297.9	4746.7	4210.4	3709.0

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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°	59.9	54.9	49.9	47.4	42.4	39.9	34.9	29.9	27.4	22.4	17.5
85°	119.7	109.7	102.3	94.8	87.3	77.3	69.8	62.4	52.4	44.9	34.9
82.5°	182.1	169.6	157.1	144.7	132.2	119.7	104.8	92.3	79.8	67.3	52.4
80°	251.9	232.0	214.5	197.0	179.6	162.1	142.2	124.7	104.8	87.3	69.8
77.5°	324.3	301.8	276.9	251.9	227.0	204.5	179.6	157.1	134.7	109.7	87.3
75°	401.6	371.7	344.2	311.8	281.9	249.4	219.5	189.6	162.1	134.7	104.8
72.5°	481.4	444.0	406.6	371.7	334.2	296.8	261.9	224.5	189.6	157.1	124.7
70°	563.7	518.8	473.9	431.5	389.1	344.2	304.3	261.9	219.5	179.6	142.2
67.5°	651.0	598.6	546.3	491.4	444.0	394.1	344.2	296.8	249.4	204.5	162.1
65°	745.8	683.4	618.6	561.2	498.9	444.0	389.1	334.2	281.9	227.0	179.6
62.5°	843.1	770.7	698.4	626.1	561.2	491.4	431.5	371.7	311.8	251.9	197.0
60°	942.8	860.5	778.2	698.4	618.6	546.3	473.9	406.6	344.2	276.9	214.5
57.5°	1045.1	952.8	860.5	770.7	683.4	598.6	518.8	444.0	371.7	301.8	232.0
55°	1149.9	1045.1	942.8	843.1	745.8	651.0	563.7	481.4	401.6	324.3	251.9
52.5°	1254.6	1139.9	1025.2	917.9	815.6	708.4	608.6	516.3	429.0	349.2	269.4
50°	1361.9	1232.2	1110.0	990.2	873.0	760.8	653.5	553.7	459.0	371.7	286.8
47.5°	1471.6	1329.5	1192.3	1062.6	937.9	815.6	698.4	588.7	486.4	394.1	304.3
45°	1588.9	1424.2	1277.1	1137.4	1000.2	870.5	743.3	623.6	516.3	416.5	321.8
42.5°	1703.6	1526.5	1361.9	1214.7	1062.6	922.9	788.2	661.0	543.8	436.5	336.7
40°	1833.3	1628.8	1441.7	1279.6	1122.4	972.8	830.6	695.9	571.2	456.5	351.7
37.5°	1958.0	1728.5	1531.5	1349.4	1179.8	1022.7	873.0	730.8	598.6	476.4	366.7
35°	2085.2	1838.3	1613.8	1414.3	1237.2	1072.5	912.9	763.3	621.1	493.9	381.6
32.5°	2214.9	1943.1	1701.1	1484.1	1294.5	1117.4	950.3	793.2	646.0	513.8	394.1
30°	2339.7	2042.8	1783.4	1551.5	1346.9	1162.3	987.7	823.1	671.0	531.3	406.6
27.5°	2466.9	2147.6	1865.7	1613.8	1396.8	1202.3	1020.2	850.6	693.4	548.7	419.0
25°	2589.1	2247.4	1943.1	1673.7	1441.7	1242.2	1055.1	878.0	713.4	563.7	429.0
22.5°	2701.3	2334.7	2012.9	1731.0	1489.1	1277.1	1085.0	902.9	733.3	578.7	439.0
20°	2803.6	2424.5	2085.2	1788.4	1534.0	1312.0	1110.0	925.4	750.8	591.1	449.0
17.5°	2903.4	2506.8	2150.1	1840.8	1571.4	1341.9	1134.9	942.8	765.8	601.1	456.5
15°	2988.2	2579.1	2207.5	1885.7	1606.3	1366.9	1154.9	960.3	778.2	611.1	461.4
12.5°	3063.0	2641.5	2257.3	1923.1	1633.8	1389.3	1174.8	975.3	790.7	618.6	468.9
10°	3122.9	2691.3	2297.3	1955.5	1658.7	1406.8	1187.3	987.7	798.2	626.1	473.9
7.5°	3170.3	2731.3	2329.7	1978.0	1676.2	1421.8	1199.8	995.2	805.7	631.1	481.4
5°	3205.2	2761.2	2352.1	1995.4	1691.1	1439.2	1214.7	1007.7	815.6	638.5	481.4
2.5°	3232.6	2783.6	2369.6	2010.4	1701.1	1439.2	1214.7	1007.7	815.6	638.5	481.4
0°	3232.6	2783.6	2369.6	2010.4	1701.1	1439.2	1214.7	1007.7	815.6	638.5	481.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.5	10.0	5.0	0.0
85°	27.4	17.5	10.0	0.0
82.5°	39.9	27.4	12.5	0.0
80°	52.4	34.9	17.5	0.0
77.5°	67.3	44.9	22.4	0.0
75°	79.8	52.4	27.4	0.0
72.5°	92.3	62.4	29.9	0.0
70°	104.8	69.8	34.9	0.0
67.5°	119.7	77.3	39.9	0.0
65°	132.2	87.3	42.4	0.0
62.5°	144.7	94.8	47.4	0.0
60°	157.1	102.3	49.9	0.0
57.5°	169.6	109.7	54.9	0.0
55°	182.1	119.7	59.9	0.0
52.5°	194.6	127.2	62.4	0.0
50°	207.0	134.7	64.9	0.0
47.5°	217.0	142.2	69.8	0.0
45°	229.5	149.7	72.3	0.0
42.5°	241.9	154.6	74.8	0.0
40°	251.9	162.1	77.3	0.0
37.5°	264.4	167.1	82.3	0.0
35°	274.4	174.6	84.8	0.0
32.5°	281.9	179.6	87.3	0.0
30°	291.8	184.6	89.8	0.0
27.5°	299.3	189.6	89.8	0.0
25°	306.8	194.6	92.3	0.0
22.5°	314.3	197.0	94.8	0.0
20°	321.8	202.0	97.3	0.0
17.5°	326.8	204.5	97.3	0.0
15°	331.7	207.0	102.3	0.0
12.5°	334.2	209.5	102.3	0.0
10°	339.2	214.5	102.3	0.0
7.5°	344.2	214.5	102.3	0.0
5°	344.2	214.5	102.3	0.0
2.5°	344.2	214.5	102.3	0.0
0°	344.2	214.5	102.3	0.0

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