

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: P624508

Luminaire Tested: **IFLD-S-SA6D-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624508
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

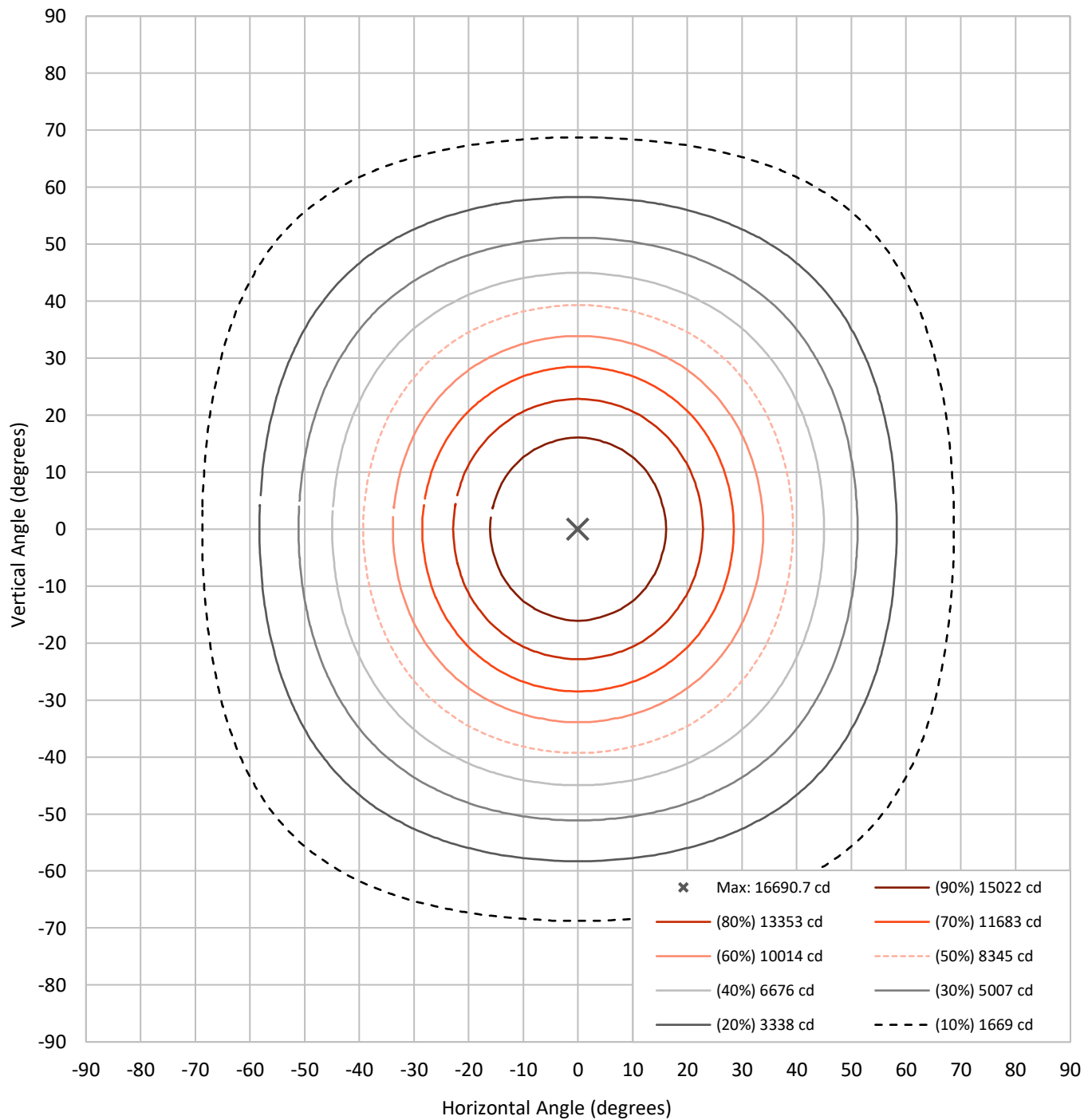
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30052 lumens	Max Intensity:	16690.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	81.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	13003.2 lumens	Field Lumens:	21292.3 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



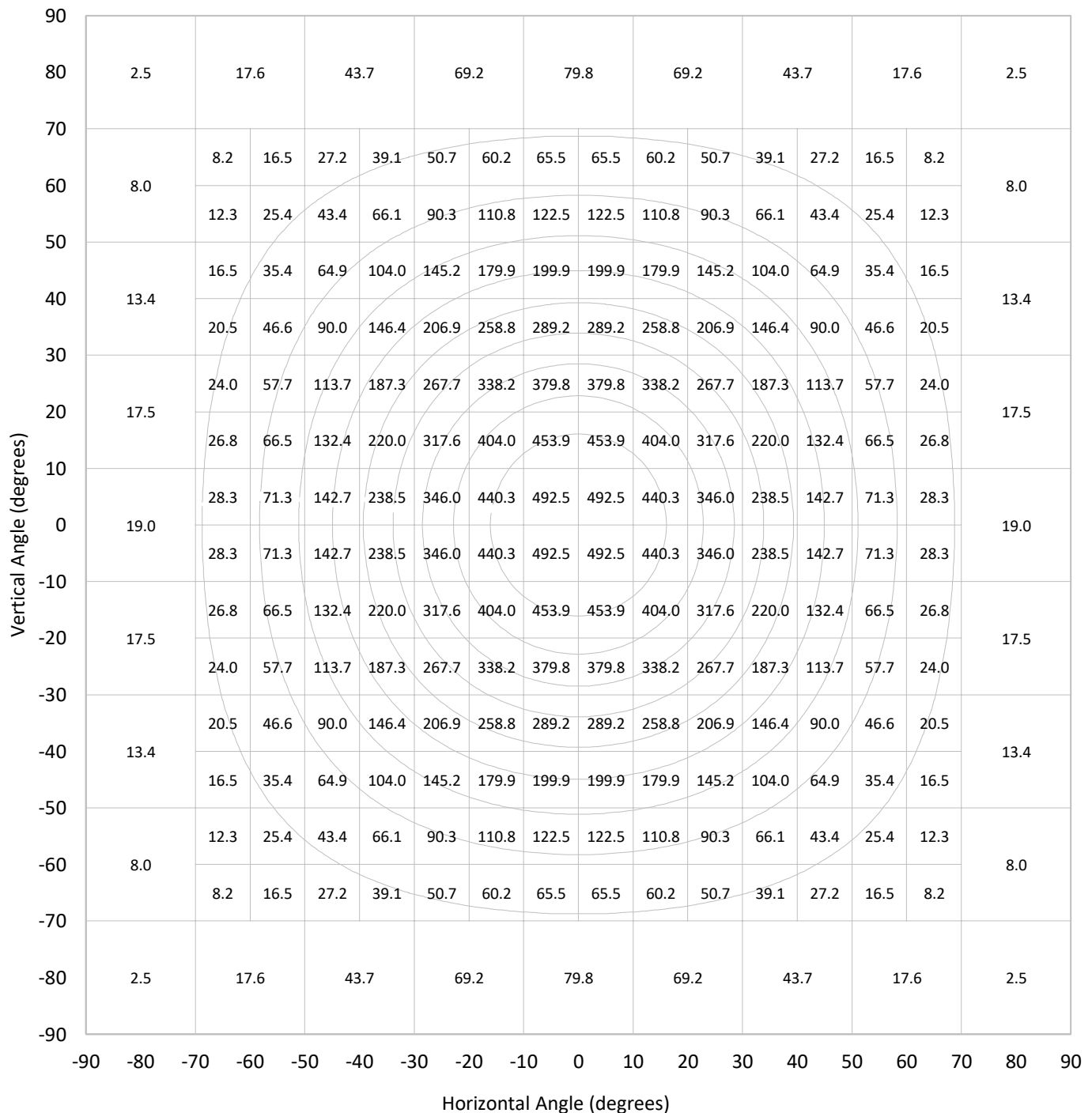
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Iso-Candela Plot



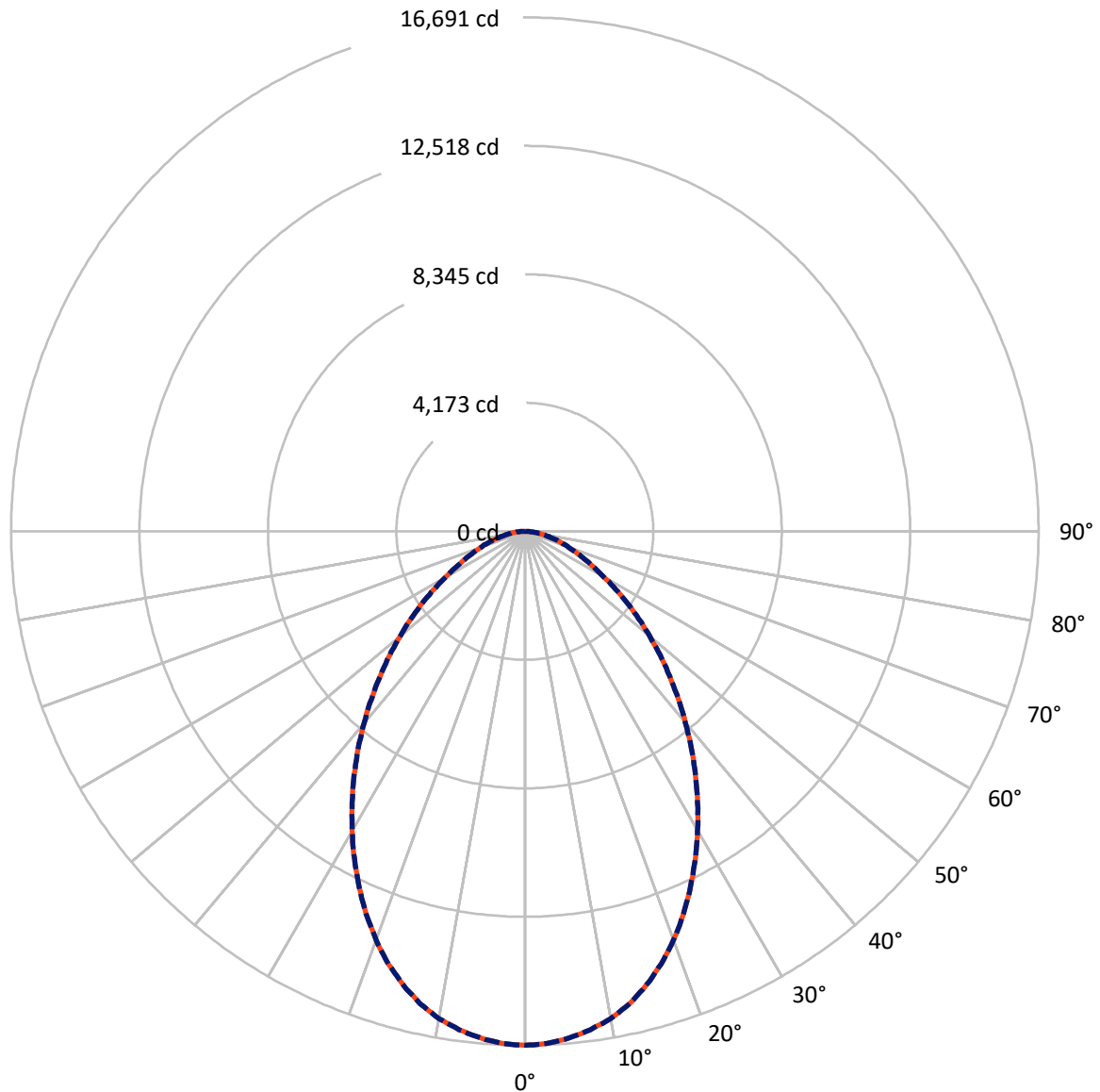
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Lumen Table



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Luminous Intensity Polar Plot

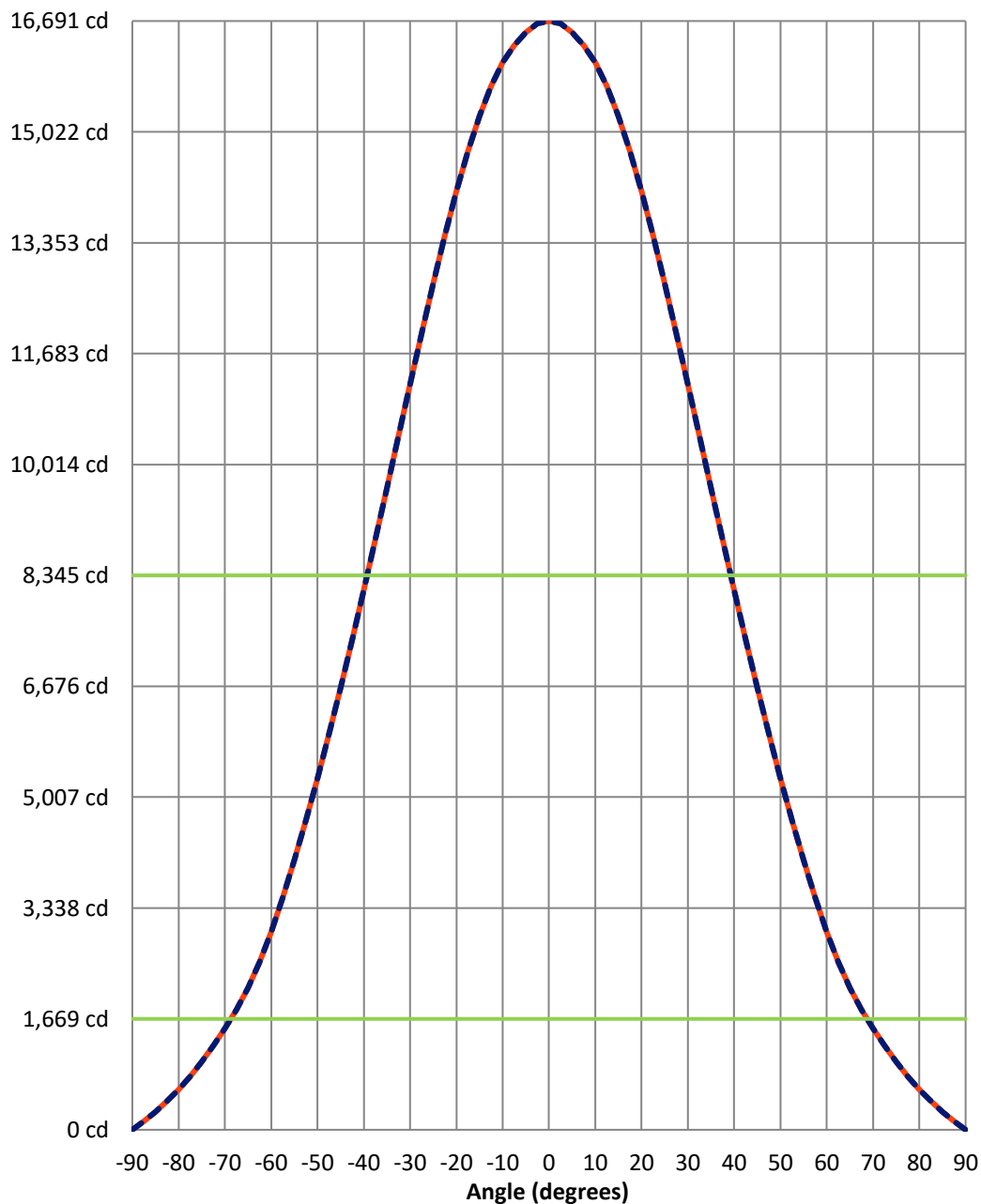


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 13003.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 21292.3
Efficiency: 70.9%

Spill:

Lumens: 8759.7
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°	128.5	128.5	128.5	128.5	128.5	128.5	128.5	122.2	122.2	119.1	115.9
85°	269.5	269.5	269.5	269.5	269.5	263.2	260.1	256.9	253.8	247.5	244.4
82.5°	432.4	432.4	432.4	432.4	426.1	419.9	416.7	410.5	404.2	394.8	385.4
80°	604.7	604.7	604.7	604.7	595.3	589.0	579.6	573.4	564.0	551.4	538.9
77.5°	802.1	802.1	802.1	792.7	786.4	777.0	767.6	755.1	742.6	726.9	708.1
75°	1024.6	1024.6	1024.6	1012.0	1002.6	993.2	977.6	961.9	943.1	921.2	896.1
72.5°	1265.8	1265.8	1265.8	1250.2	1240.8	1225.1	1206.3	1184.4	1162.4	1134.2	1102.9
70°	1525.9	1525.9	1525.9	1507.1	1491.4	1475.7	1450.7	1425.6	1394.3	1363.0	1325.4
67.5°	1807.9	1807.9	1807.9	1785.9	1767.1	1745.2	1717.0	1685.7	1648.1	1604.2	1560.3
65°	2136.9	2136.9	2124.3	2105.5	2083.6	2052.3	2017.8	1973.9	1926.9	1870.5	1811.0
62.5°	2525.4	2525.4	2506.6	2484.6	2456.4	2415.7	2368.7	2312.3	2246.5	2174.5	2102.4
60°	2976.6	2976.6	2954.6	2926.4	2885.7	2835.6	2772.9	2700.8	2619.4	2528.5	2440.8
57.5°	3496.7	3496.7	3468.5	3430.9	3380.8	3318.1	3239.8	3148.9	3045.5	2932.7	2823.0
55°	4060.7	4060.7	4026.2	3982.3	3922.8	3847.6	3753.6	3647.1	3521.7	3393.3	3252.3
52.5°	4659.1	4659.1	4618.4	4568.2	4499.3	4411.6	4305.1	4179.7	4035.6	3885.2	3719.1
50°	5288.9	5288.9	5241.9	5185.5	5107.2	5003.8	4881.6	4737.4	4577.6	4402.2	4211.1
47.5°	5962.5	5962.5	5909.3	5843.5	5749.5	5630.4	5486.3	5320.2	5138.5	4941.1	4724.9
45°	6655.0	6655.0	6595.4	6520.2	6416.8	6282.1	6122.3	5962.5	5730.7	5501.9	5251.3
42.5°	7375.6	7375.6	7306.7	7222.1	7103.0	6955.8	6774.0	6567.2	6338.5	6081.6	5809.0
40°	8124.5	8124.5	8046.1	7949.0	7817.4	7648.2	7444.5	7212.7	6955.8	6670.6	6369.8
37.5°	8889.0	8889.0	8801.2	8694.7	8547.4	8359.4	8130.7	7873.8	7585.5	7269.1	6937.0
35°	9659.7	9659.7	9562.6	9446.7	9283.7	9077.0	8829.4	8544.3	8224.7	7880.1	7507.2
32.5°	10446.2	10446.2	10339.6	10208.0	10023.2	9794.5	9521.9	9211.7	8889.0	8487.9	8080.6
30°	11223.2	11223.2	11107.3	10963.2	10765.8	10515.1	10217.4	9875.9	9496.8	9086.4	8647.7
27.5°	11987.7	11956.4	11859.3	11705.7	11489.5	11223.2	10900.5	10530.8	10120.3	9669.1	9199.2
25°	12739.7	12705.2	12598.7	12429.5	12197.6	11906.3	11558.5	11163.7	10721.9	10245.6	9731.8
22.5°	13460.3	13422.7	13309.9	13128.2	12880.7	12564.2	12191.4	11768.4	11298.4	10787.7	10245.6
20°	14127.7	14087.0	13971.1	13779.9	13523.0	13187.7	12793.0	12338.6	11837.3	11298.4	10721.9
17.5°	14729.3	14688.6	14566.4	14369.0	14127.7	13754.9	13347.5	12868.2	12338.6	11768.4	11163.7
15°	15258.8	15214.9	15089.6	14892.2	14616.5	14265.6	13836.3	13347.5	12793.0	12191.4	11558.5
12.5°	15710.0	15666.1	15537.7	15340.3	15055.1	14704.2	14265.6	13754.9	13187.7	12564.2	11906.3
10°	16067.2	16023.3	15901.1	15713.1	15418.6	15055.1	14616.5	14127.7	13523.0	12880.7	12197.6
7.5°	16324.1	16283.4	16170.6	15982.6	15713.1	15340.3	14892.2	14369.0	13779.9	13128.2	12429.5
5°	16518.4	16471.4	16358.6	16170.6	15901.1	15537.7	15089.6	14566.4	13971.1	13309.9	12598.7
2.5°	16653.1	16596.7	16471.4	16283.4	16023.3	15666.1	15214.9	14688.6	14087.0	13422.7	12705.2
0°	16690.7	16653.1	16518.4	16324.1	16067.2	15710.0	15258.8	14729.3	14127.7	13460.3	12739.7

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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°	112.8	112.8	109.7	106.5	103.4	97.1	94.0	90.9	87.7	81.5	78.3
85°	238.1	231.9	225.6	219.3	209.9	203.7	194.3	188.0	178.6	169.2	159.8
82.5°	376.0	366.6	354.1	344.7	332.1	316.5	303.9	288.3	272.6	260.1	244.4
80°	526.4	510.7	495.0	479.4	460.6	441.8	423.0	404.2	382.3	360.3	338.4
77.5°	689.3	667.4	645.4	620.4	598.4	573.4	548.3	523.2	495.0	466.9	438.7
75°	871.0	842.8	811.5	780.2	752.0	717.5	683.0	648.6	611.0	576.5	538.9
72.5°	1068.4	1034.0	996.4	958.8	918.0	874.2	830.3	783.3	739.4	695.6	648.6
70°	1281.5	1240.8	1193.8	1146.8	1096.6	1043.4	990.1	933.7	877.3	820.9	764.5
67.5°	1510.2	1460.1	1403.7	1347.3	1284.6	1222.0	1159.3	1093.5	1024.6	955.6	889.8
65°	1754.6	1691.9	1626.1	1554.1	1482.0	1410.0	1334.8	1256.4	1178.1	1096.6	1024.6
62.5°	2027.2	1948.9	1864.3	1776.5	1695.1	1607.3	1525.9	1428.8	1334.8	1243.9	1153.0
60°	2343.7	2240.3	2136.9	2027.2	1923.8	1811.0	1710.7	1604.2	1497.7	1394.3	1287.8
57.5°	2697.7	2566.1	2440.8	2309.2	2171.3	2046.0	1917.5	1789.1	1670.0	1547.8	1431.9
55°	3098.8	2939.0	2782.3	2619.4	2459.6	2302.9	2140.0	1995.9	1848.6	1710.7	1576.0
52.5°	3537.4	3355.7	3161.4	2976.6	2772.9	2578.6	2396.9	2215.2	2042.9	1876.8	1723.3
50°	4007.4	3794.3	3571.9	3346.3	3114.4	2885.7	2666.4	2453.3	2252.8	2058.5	1876.8
47.5°	4496.2	4254.9	4001.1	3744.2	3496.7	3217.8	2954.6	2713.4	2472.1	2252.8	2042.9
45°	4997.5	4724.9	4446.0	4154.7	3863.3	3562.5	3271.1	2976.6	2713.4	2453.3	2215.2
42.5°	5514.5	5207.4	4897.2	4574.5	4251.8	3922.8	3593.8	3271.1	2954.6	2666.4	2396.9
40°	6047.1	5708.7	5354.7	5003.8	4659.1	4283.1	3922.8	3562.5	3217.8	2885.7	2578.6
37.5°	6579.8	6210.1	5827.8	5433.0	5038.2	4659.1	4251.8	3863.3	3496.7	3114.4	2772.9
35°	7115.6	6708.2	6294.7	5865.4	5433.0	5003.8	4574.5	4154.7	3744.2	3346.3	2976.6
32.5°	7654.5	7209.6	6752.1	6294.7	5827.8	5354.7	4897.2	4446.0	4001.1	3571.9	3161.4
30°	8184.0	7701.5	7209.6	6708.2	6210.1	5708.7	5207.4	4724.9	4254.9	3794.3	3355.7
27.5°	8701.0	8184.0	7654.5	7115.6	6579.8	6047.1	5514.5	4997.5	4496.2	4007.4	3537.4
25°	9199.2	8647.7	8080.6	7507.2	6937.0	6369.8	5809.0	5251.3	4724.9	4211.1	3719.1
22.5°	9669.1	9086.4	8487.9	7880.1	7269.1	6670.6	6081.6	5501.9	4941.1	4402.2	3885.2
20°	10120.3	9496.8	8889.0	8224.7	7585.5	6955.8	6338.5	5730.7	5138.5	4577.6	4035.6
17.5°	10530.8	9875.9	9211.7	8544.3	7873.8	7212.7	6567.2	5962.5	5320.2	4737.4	4179.7
15°	10900.5	10217.4	9521.9	8829.4	8130.7	7444.5	6774.0	6122.3	5486.3	4881.6	4305.1
12.5°	11223.2	10515.1	9794.5	9077.0	8359.4	7648.2	6955.8	6282.1	5630.4	5003.8	4411.6
10°	11489.5	10765.8	10023.2	9283.7	8547.4	7817.4	7103.0	6416.8	5749.5	5107.2	4499.3
7.5°	11705.7	10963.2	10208.0	9446.7	8694.7	7949.0	7222.1	6520.2	5843.5	5185.5	4568.2
5°	11859.3	11107.3	10339.6	9562.6	8801.2	8046.1	7306.7	6595.4	5909.3	5241.9	4618.4
2.5°	11956.4	11223.2	10446.2	9659.7	8889.0	8124.5	7375.6	6655.0	5962.5	5288.9	4659.1
0°	11987.7	11223.2	10446.2	9659.7	8889.0	8124.5	7375.6	6655.0	5962.5	5288.9	4659.1

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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°	75.2	68.9	62.7	59.5	53.3	50.1	43.9	37.6	34.5	28.2	21.9
85°	150.4	137.9	128.5	119.1	109.7	97.1	87.7	78.3	65.8	56.4	43.9
82.5°	228.7	213.1	197.4	181.7	166.1	150.4	131.6	115.9	100.3	84.6	65.8
80°	316.5	291.4	269.5	247.5	225.6	203.7	178.6	156.7	131.6	109.7	87.7
77.5°	407.3	379.1	347.8	316.5	285.1	256.9	225.6	197.4	169.2	137.9	109.7
75°	504.4	466.9	432.4	391.7	354.1	313.3	275.7	238.1	203.7	169.2	131.6
72.5°	604.7	557.7	510.7	466.9	419.9	372.9	329.0	282.0	238.1	197.4	156.7
70°	708.1	651.7	595.3	542.0	488.8	432.4	382.3	329.0	275.7	225.6	178.6
67.5°	817.8	752.0	686.2	617.2	557.7	495.0	432.4	372.9	313.3	256.9	203.7
65°	936.8	858.5	777.0	705.0	626.6	557.7	488.8	419.9	354.1	285.1	225.6
62.5°	1059.0	968.2	877.3	786.4	705.0	617.2	542.0	466.9	391.7	316.5	247.5
60°	1184.4	1081.0	977.6	877.3	777.0	686.2	595.3	510.7	432.4	347.8	269.5
57.5°	1312.8	1196.9	1081.0	968.2	858.5	752.0	651.7	557.7	466.9	379.1	291.4
55°	1444.4	1312.8	1184.4	1059.0	936.8	817.8	708.1	604.7	504.4	407.3	316.5
52.5°	1576.0	1431.9	1287.8	1153.0	1024.6	889.8	764.5	648.6	538.9	438.7	338.4
50°	1710.7	1547.8	1394.3	1243.9	1096.6	955.6	820.9	695.6	576.5	466.9	360.3
47.5°	1848.6	1670.0	1497.7	1334.8	1178.1	1024.6	877.3	739.4	611.0	495.0	382.3
45°	1995.9	1789.1	1604.2	1428.8	1256.4	1093.5	933.7	783.3	648.6	523.2	404.2
42.5°	2140.0	1917.5	1710.7	1525.9	1334.8	1159.3	990.1	830.3	683.0	548.3	423.0
40°	2302.9	2046.0	1811.0	1607.3	1410.0	1222.0	1043.4	874.2	717.5	573.4	441.8
37.5°	2459.6	2171.3	1923.8	1695.1	1482.0	1284.6	1096.6	918.0	752.0	598.4	460.6
35°	2619.4	2309.2	2027.2	1776.5	1554.1	1347.3	1146.8	958.8	780.2	620.4	479.4
32.5°	2782.3	2440.8	2136.9	1864.3	1626.1	1403.7	1193.8	996.4	811.5	645.4	495.0
30°	2939.0	2566.1	2240.3	1948.9	1691.9	1460.1	1240.8	1034.0	842.8	667.4	510.7
27.5°	3098.8	2697.7	2343.7	2027.2	1754.6	1510.2	1281.5	1068.4	871.0	689.3	526.4
25°	3252.3	2823.0	2440.8	2102.4	1811.0	1560.3	1325.4	1102.9	896.1	708.1	538.9
22.5°	3393.3	2932.7	2528.5	2174.5	1870.5	1604.2	1363.0	1134.2	921.2	726.9	551.4
20°	3521.7	3045.5	2619.4	2246.5	1926.9	1648.1	1394.3	1162.4	943.1	742.6	564.0
17.5°	3647.1	3148.9	2700.8	2312.3	1973.9	1685.7	1425.6	1184.4	961.9	755.1	573.4
15°	3753.6	3239.8	2772.9	2368.7	2017.8	1717.0	1450.7	1206.3	977.6	767.6	579.6
12.5°	3847.6	3318.1	2835.6	2415.7	2052.3	1745.2	1475.7	1225.1	993.2	777.0	589.0
10°	3922.8	3380.8	2885.7	2456.4	2083.6	1767.1	1491.4	1240.8	1002.6	786.4	595.3
7.5°	3982.3	3430.9	2926.4	2484.6	2105.5	1785.9	1507.1	1250.2	1012.0	792.7	604.7
5°	4026.2	3468.5	2954.6	2506.6	2124.3	1807.9	1525.9	1265.8	1024.6	802.1	604.7
2.5°	4060.7	3496.7	2976.6	2525.4	2136.9	1807.9	1525.9	1265.8	1024.6	802.1	604.7
0°	4060.7	3496.7	2976.6	2525.4	2136.9	1807.9	1525.9	1265.8	1024.6	802.1	604.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.7	12.5	6.3	0.0
85°	34.5	21.9	12.5	0.0
82.5°	50.1	34.5	15.7	0.0
80°	65.8	43.9	21.9	0.0
77.5°	84.6	56.4	28.2	0.0
75°	100.3	65.8	34.5	0.0
72.5°	115.9	78.3	37.6	0.0
70°	131.6	87.7	43.9	0.0
67.5°	150.4	97.1	50.1	0.0
65°	166.1	109.7	53.3	0.0
62.5°	181.7	119.1	59.5	0.0
60°	197.4	128.5	62.7	0.0
57.5°	213.1	137.9	68.9	0.0
55°	228.7	150.4	75.2	0.0
52.5°	244.4	159.8	78.3	0.0
50°	260.1	169.2	81.5	0.0
47.5°	272.6	178.6	87.7	0.0
45°	288.3	188.0	90.9	0.0
42.5°	303.9	194.3	94.0	0.0
40°	316.5	203.7	97.1	0.0
37.5°	332.1	209.9	103.4	0.0
35°	344.7	219.3	106.5	0.0
32.5°	354.1	225.6	109.7	0.0
30°	366.6	231.9	112.8	0.0
27.5°	376.0	238.1	112.8	0.0
25°	385.4	244.4	115.9	0.0
22.5°	394.8	247.5	119.1	0.0
20°	404.2	253.8	122.2	0.0
17.5°	410.5	256.9	122.2	0.0
15°	416.7	260.1	128.5	0.0
12.5°	419.9	263.2	128.5	0.0
10°	426.1	269.5	128.5	0.0
7.5°	432.4	269.5	128.5	0.0
5°	432.4	269.5	128.5	0.0
2.5°	432.4	269.5	128.5	0.0
0°	432.4	269.5	128.5	0.0

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