

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: P623860

Luminaire Tested: **IFLD-L-SA7A-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623860
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

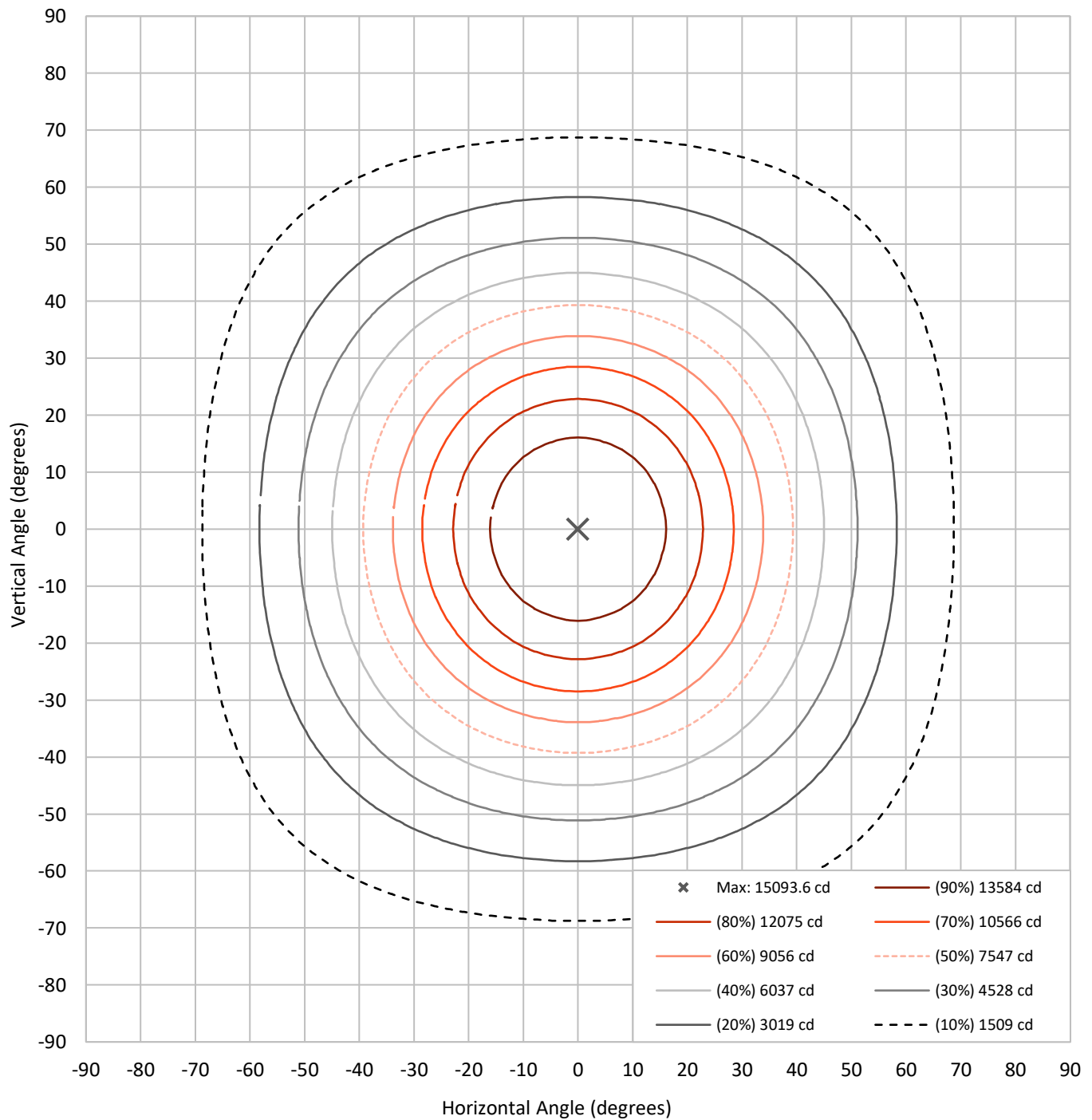
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27176.3 lumens	Max Intensity:	15093.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	124.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	11758.9 lumens	Field Lumens:	19254.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

Input Watts (W): 217.6
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



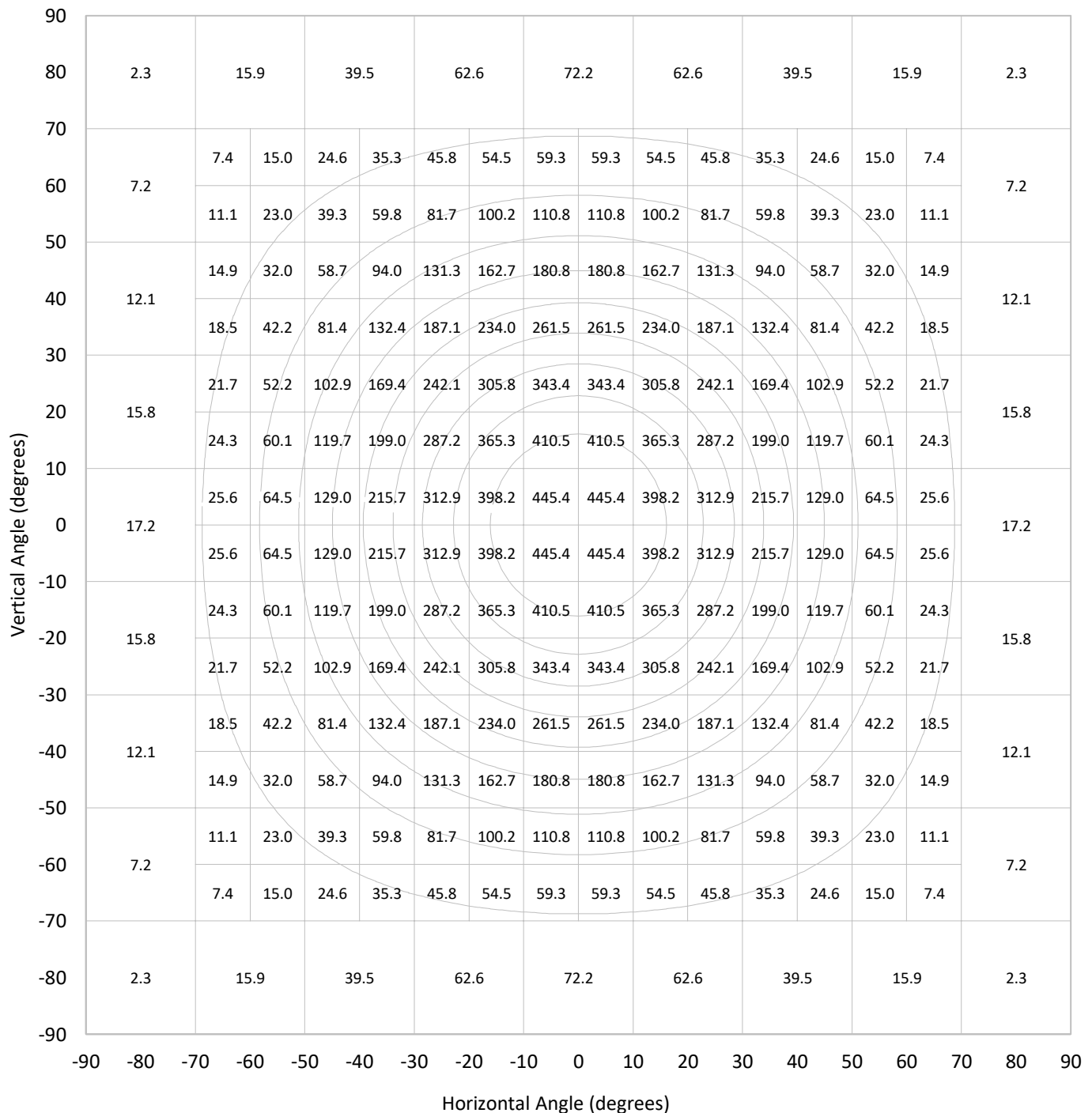
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Iso-Candela Plot



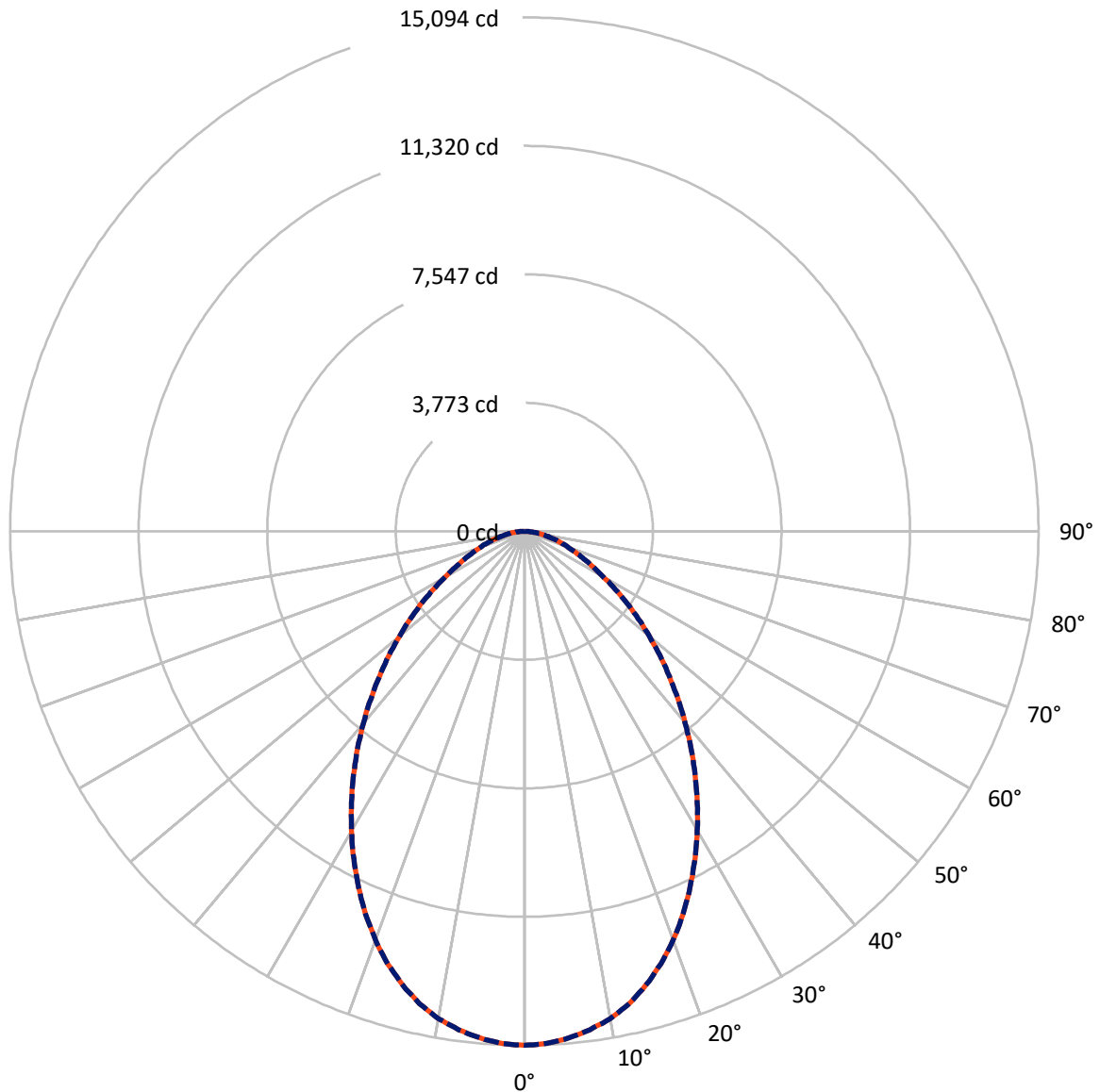
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Lumen Table



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Luminous Intensity Polar Plot

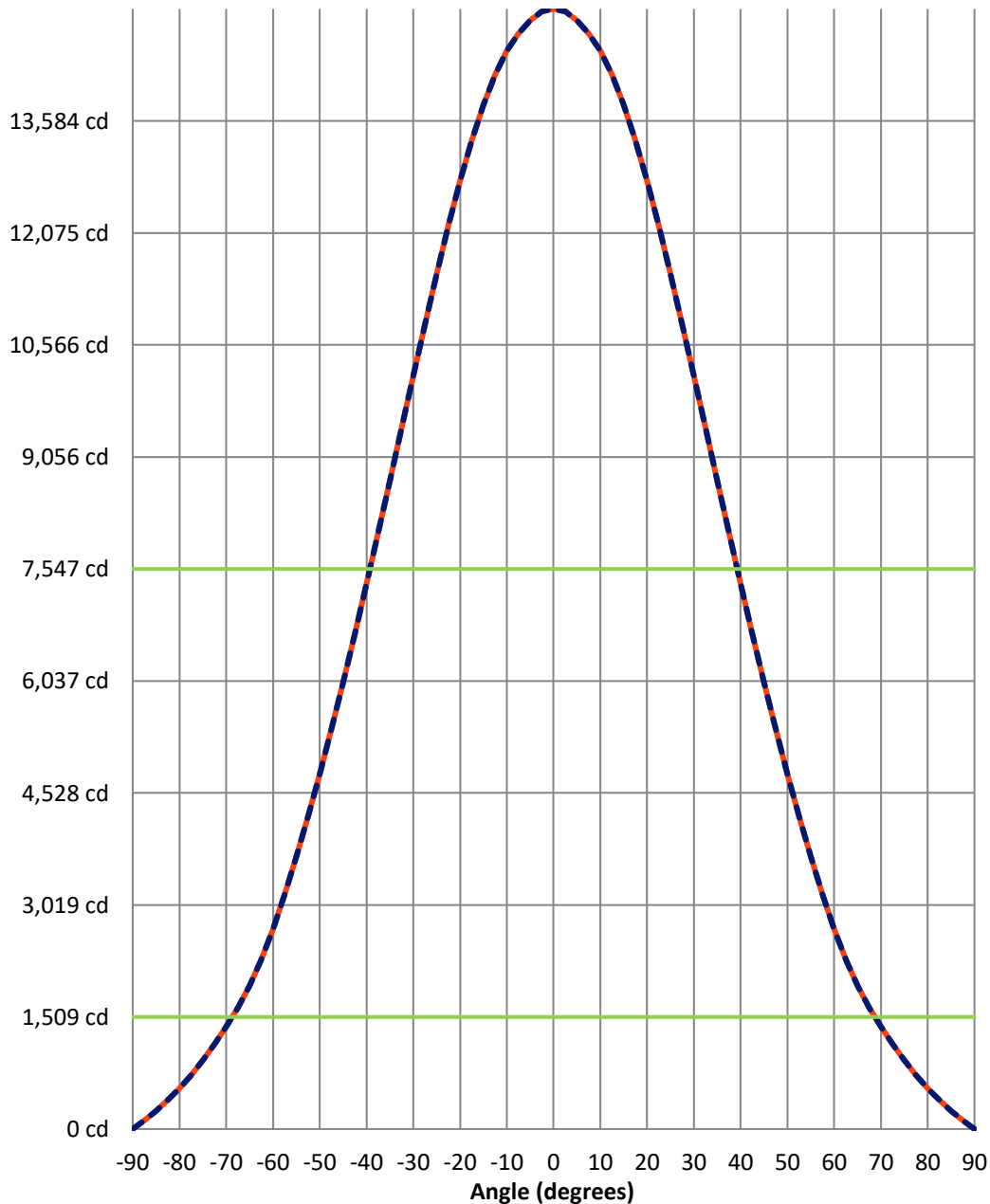


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11758.9
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 19254.8
Efficiency: 70.9%

Spill:

Lumens: 7921.5
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°	116.2	116.2	116.2	116.2	116.2	116.2	116.2	110.5	110.5	107.7	104.8
85°	243.7	243.7	243.7	243.7	243.7	238.0	235.2	232.3	229.5	223.8	221.0
82.5°	391.0	391.0	391.0	391.0	385.3	379.7	376.8	371.2	365.5	357.0	348.5
80°	546.8	546.8	546.8	546.8	538.3	532.7	524.2	518.5	510.0	498.7	487.3
77.5°	725.4	725.4	725.4	716.9	711.2	702.7	694.2	682.9	671.5	657.4	640.4
75°	926.5	926.5	926.5	915.2	906.7	898.2	884.0	869.9	852.9	833.0	810.4
72.5°	1144.7	1144.7	1144.7	1130.5	1122.0	1107.9	1090.9	1071.0	1051.2	1025.7	997.4
70°	1379.9	1379.9	1379.9	1362.9	1348.7	1334.5	1311.9	1289.2	1260.9	1232.5	1198.5
67.5°	1634.9	1634.9	1634.9	1615.0	1598.0	1578.2	1552.7	1524.4	1490.4	1450.7	1411.0
65°	1932.4	1932.4	1921.1	1904.1	1884.2	1855.9	1824.7	1785.0	1742.5	1691.5	1637.7
62.5°	2283.7	2283.7	2266.7	2246.9	2221.4	2184.6	2142.1	2091.1	2031.6	1966.4	1901.2
60°	2691.7	2691.7	2671.9	2646.4	2609.6	2564.2	2507.6	2442.4	2368.7	2286.6	2207.2
57.5°	3162.1	3162.1	3136.6	3102.6	3057.2	3000.6	2929.7	2847.6	2754.1	2652.1	2552.9
55°	3672.1	3672.1	3640.9	3601.3	3547.4	3479.4	3394.4	3298.1	3184.8	3068.6	2941.1
52.5°	4213.3	4213.3	4176.4	4131.1	4068.8	3989.4	3893.1	3779.8	3649.4	3513.4	3363.3
50°	4782.8	4782.8	4740.3	4689.3	4618.5	4525.0	4414.5	4284.1	4139.6	3980.9	3808.1
47.5°	5392.0	5392.0	5343.8	5284.3	5199.3	5091.6	4961.3	4811.1	4646.8	4468.3	4272.8
45°	6018.2	6018.2	5964.3	5896.3	5802.8	5681.0	5536.5	5392.0	5182.3	4975.5	4748.8
42.5°	6669.8	6669.8	6607.5	6531.0	6423.3	6290.2	6125.8	5938.8	5732.0	5499.6	5253.1
40°	7347.0	7347.0	7276.2	7188.4	7069.4	6916.4	6732.2	6522.5	6290.2	6032.3	5760.3
37.5°	8038.4	8038.4	7959.0	7862.7	7729.5	7559.5	7352.7	7120.4	6859.7	6573.5	6273.2
35°	8735.4	8735.4	8647.6	8542.7	8395.4	8208.4	7984.5	7726.7	7437.7	7126.0	6788.8
32.5°	9446.6	9446.6	9350.3	9231.2	9064.1	8857.2	8610.7	8330.2	8038.4	7675.7	7307.4
30°	10149.3	10149.3	10044.4	9914.1	9735.6	9508.9	9239.7	8930.9	8588.1	8216.9	7820.2
27.5°	10840.6	10812.3	10724.5	10585.6	10390.1	10149.3	9857.4	9523.1	9151.9	8743.9	8318.9
25°	11520.6	11489.5	11393.1	11240.1	11030.5	10767.0	10452.4	10095.4	9695.9	9265.2	8800.6
22.5°	12172.3	12138.3	12036.3	11872.0	11648.1	11362.0	11024.8	10642.3	10217.3	9755.4	9265.2
20°	12775.8	12739.0	12634.2	12461.3	12229.0	11925.8	11568.8	11158.0	10704.6	10217.3	9695.9
17.5°	13319.9	13283.0	13172.5	12994.0	12775.8	12438.7	12070.3	11636.8	11158.0	10642.3	10095.4
15°	13798.7	13759.0	13645.7	13467.2	13217.9	12900.5	12512.3	12070.3	11568.8	11024.8	10452.4
12.5°	14206.7	14167.0	14050.9	13872.4	13614.5	13297.2	12900.5	12438.7	11925.8	11362.0	10767.0
10°	14529.7	14490.1	14379.6	14209.5	13943.2	13614.5	13217.9	12775.8	12229.0	11648.1	11030.5
7.5°	14762.1	14725.2	14623.2	14453.2	14209.5	13872.4	13467.2	12994.0	12461.3	11872.0	11240.1
5°	14937.7	14895.2	14793.2	14623.2	14379.6	14050.9	13645.7	13172.5	12634.2	12036.3	11393.1
2.5°	15059.6	15008.6	14895.2	14725.2	14490.1	14167.0	13759.0	13283.0	12739.0	12138.3	11489.5
0°	15093.6	15059.6	14937.7	14762.1	14529.7	14206.7	13798.7	13319.9	12775.8	12172.3	11520.6



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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°	102.0	102.0	99.2	96.3	93.5	87.8	85.0	82.2	79.3	73.7	70.8
85°	215.3	209.7	204.0	198.3	189.8	184.2	175.7	170.0	161.5	153.0	144.5
82.5°	340.0	331.5	320.2	311.7	300.3	286.2	274.8	260.7	246.5	235.2	221.0
80°	476.0	461.8	447.7	433.5	416.5	399.5	382.5	365.5	345.7	325.8	306.0
77.5°	623.4	603.5	583.7	561.0	541.2	518.5	495.8	473.2	447.7	422.2	396.7
75°	787.7	762.2	733.9	705.5	680.0	648.9	617.7	586.5	552.5	521.3	487.3
72.5°	966.2	935.0	901.0	867.0	830.2	790.5	750.9	708.4	668.7	629.0	586.5
70°	1158.9	1122.0	1079.5	1037.0	991.7	943.5	895.4	844.4	793.4	742.4	691.4
67.5°	1365.7	1320.4	1269.4	1218.4	1161.7	1105.0	1048.4	988.9	926.5	864.2	804.7
65°	1586.7	1530.0	1470.5	1405.4	1340.2	1275.0	1207.0	1136.2	1065.4	991.7	926.5
62.5°	1833.2	1762.4	1685.9	1606.5	1532.9	1453.5	1379.9	1292.0	1207.0	1124.9	1042.7
60°	2119.4	2025.9	1932.4	1833.2	1739.7	1637.7	1547.0	1450.7	1354.4	1260.9	1164.5
57.5°	2439.6	2320.6	2207.2	2088.2	1963.6	1850.2	1734.0	1617.9	1510.2	1399.7	1294.9
55°	2802.2	2657.7	2516.1	2368.7	2224.2	2082.6	1935.2	1804.9	1671.7	1547.0	1425.2
52.5°	3198.9	3034.6	2858.9	2691.7	2507.6	2331.9	2167.6	2003.2	1847.4	1697.2	1558.4
50°	3623.9	3431.3	3230.1	3026.1	2816.4	2609.6	2411.2	2218.6	2037.2	1861.6	1697.2
47.5°	4065.9	3847.8	3618.3	3385.9	3162.1	2909.9	2671.9	2453.7	2235.6	2037.2	1847.4
45°	4519.3	4272.8	4020.6	3757.1	3493.6	3221.6	2958.1	2691.7	2453.7	2218.6	2003.2
42.5°	4986.8	4709.1	4428.6	4136.8	3844.9	3547.4	3249.9	2958.1	2671.9	2411.2	2167.6
40°	5468.5	5162.5	4842.3	4525.0	4213.3	3873.3	3547.4	3221.6	2909.9	2609.6	2331.9
37.5°	5950.2	5615.8	5270.1	4913.1	4556.1	4213.3	3844.9	3493.6	3162.1	2816.4	2507.6
35°	6434.7	6066.3	5692.3	5304.1	4913.1	4525.0	4136.8	3757.1	3385.9	3026.1	2691.7
32.5°	6922.0	6519.7	6106.0	5692.3	5270.1	4842.3	4428.6	4020.6	3618.3	3230.1	2858.9
30°	7400.9	6964.5	6519.7	6066.3	5615.8	5162.5	4709.1	4272.8	3847.8	3431.3	3034.6
27.5°	7868.4	7400.9	6922.0	6434.7	5950.2	5468.5	4986.8	4519.3	4065.9	3623.9	3198.9
25°	8318.9	7820.2	7307.4	6788.8	6273.2	5760.3	5253.1	4748.8	4272.8	3808.1	3363.3
22.5°	8743.9	8216.9	7675.7	7126.0	6573.5	6032.3	5499.6	4975.5	4468.3	3980.9	3513.4
20°	9151.9	8588.1	8038.4	7437.7	6859.7	6290.2	5732.0	5182.3	4646.8	4139.6	3649.4
17.5°	9523.1	8930.9	8330.2	7726.7	7120.4	6522.5	5938.8	5392.0	4811.1	4284.1	3779.8
15°	9857.4	9239.7	8610.7	7984.5	7352.7	6732.2	6125.8	5536.5	4961.3	4414.5	3893.1
12.5°	10149.3	9508.9	8857.2	8208.4	7559.5	6916.4	6290.2	5681.0	5091.6	4525.0	3989.4
10°	10390.1	9735.6	9064.1	8395.4	7729.5	7069.4	6423.3	5802.8	5199.3	4618.5	4068.8
7.5°	10585.6	9914.1	9231.2	8542.7	7862.7	7188.4	6531.0	5896.3	5284.3	4689.3	4131.1
5°	10724.5	10044.4	9350.3	8647.6	7959.0	7276.2	6607.5	5964.3	5343.8	4740.3	4176.4
2.5°	10812.3	10149.3	9446.6	8735.4	8038.4	7347.0	6669.8	6018.2	5392.0	4782.8	4213.3
0°	10840.6	10149.3	9446.6	8735.4	8038.4	7347.0	6669.8	6018.2	5392.0	4782.8	4213.3

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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°	68.0	62.3	56.7	53.8	48.2	45.3	39.7	34.0	31.2	25.5	19.8
85°	136.0	124.7	116.2	107.7	99.2	87.8	79.3	70.8	59.5	51.0	39.7
82.5°	206.8	192.7	178.5	164.3	150.2	136.0	119.0	104.8	90.7	76.5	59.5
80°	286.2	263.5	243.7	223.8	204.0	184.2	161.5	141.7	119.0	99.2	79.3
77.5°	368.3	342.8	314.5	286.2	257.8	232.3	204.0	178.5	153.0	124.7	99.2
75°	456.2	422.2	391.0	354.2	320.2	283.3	249.3	215.3	184.2	153.0	119.0
72.5°	546.8	504.3	461.8	422.2	379.7	337.2	297.5	255.0	215.3	178.5	141.7
70°	640.4	589.3	538.3	490.2	442.0	391.0	345.7	297.5	249.3	204.0	161.5
67.5°	739.5	680.0	620.5	558.2	504.3	447.7	391.0	337.2	283.3	232.3	184.2
65°	847.2	776.4	702.7	637.5	566.7	504.3	442.0	379.7	320.2	257.8	204.0
62.5°	957.7	875.5	793.4	711.2	637.5	558.2	490.2	422.2	354.2	286.2	223.8
60°	1071.0	977.5	884.0	793.4	702.7	620.5	538.3	461.8	391.0	314.5	243.7
57.5°	1187.2	1082.4	977.5	875.5	776.4	680.0	589.3	504.3	422.2	342.8	263.5
55°	1306.2	1187.2	1071.0	957.7	847.2	739.5	640.4	546.8	456.2	368.3	286.2
52.5°	1425.2	1294.9	1164.5	1042.7	926.5	804.7	691.4	586.5	487.3	396.7	306.0
50°	1547.0	1399.7	1260.9	1124.9	991.7	864.2	742.4	629.0	521.3	422.2	325.8
47.5°	1671.7	1510.2	1354.4	1207.0	1065.4	926.5	793.4	668.7	552.5	447.7	345.7
45°	1804.9	1617.9	1450.7	1292.0	1136.2	988.9	844.4	708.4	586.5	473.2	365.5
42.5°	1935.2	1734.0	1547.0	1379.9	1207.0	1048.4	895.4	750.9	617.7	495.8	382.5
40°	2082.6	1850.2	1637.7	1453.5	1275.0	1105.0	943.5	790.5	648.9	518.5	399.5
37.5°	2224.2	1963.6	1739.7	1532.9	1340.2	1161.7	991.7	830.2	680.0	541.2	416.5
35°	2368.7	2088.2	1833.2	1606.5	1405.4	1218.4	1037.0	867.0	705.5	561.0	433.5
32.5°	2516.1	2207.2	1932.4	1685.9	1470.5	1269.4	1079.5	901.0	733.9	583.7	447.7
30°	2657.7	2320.6	2025.9	1762.4	1530.0	1320.4	1122.0	935.0	762.2	603.5	461.8
27.5°	2802.2	2439.6	2119.4	1833.2	1586.7	1365.7	1158.9	966.2	787.7	623.4	476.0
25°	2941.1	2552.9	2207.2	1901.2	1637.7	1411.0	1198.5	997.4	810.4	640.4	487.3
22.5°	3068.6	2652.1	2286.6	1966.4	1691.5	1450.7	1232.5	1025.7	833.0	657.4	498.7
20°	3184.8	2754.1	2368.7	2031.6	1742.5	1490.4	1260.9	1051.2	852.9	671.5	510.0
17.5°	3298.1	2847.6	2442.4	2091.1	1785.0	1524.4	1289.2	1071.0	869.9	682.9	518.5
15°	3394.4	2929.7	2507.6	2142.1	1824.7	1552.7	1311.9	1090.9	884.0	694.2	524.2
12.5°	3479.4	3000.6	2564.2	2184.6	1855.9	1578.2	1334.5	1107.9	898.2	702.7	532.7
10°	3547.4	3057.2	2609.6	2221.4	1884.2	1598.0	1348.7	1122.0	906.7	711.2	538.3
7.5°	3601.3	3102.6	2646.4	2246.9	1904.1	1615.0	1362.9	1130.5	915.2	716.9	546.8
5°	3640.9	3136.6	2671.9	2266.7	1921.1	1634.9	1379.9	1144.7	926.5	725.4	546.8
2.5°	3672.1	3162.1	2691.7	2283.7	1932.4	1634.9	1379.9	1144.7	926.5	725.4	546.8
0°	3672.1	3162.1	2691.7	2283.7	1932.4	1634.9	1379.9	1144.7	926.5	725.4	546.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.2	11.3	5.7	0.0
85°	31.2	19.8	11.3	0.0
82.5°	45.3	31.2	14.2	0.0
80°	59.5	39.7	19.8	0.0
77.5°	76.5	51.0	25.5	0.0
75°	90.7	59.5	31.2	0.0
72.5°	104.8	70.8	34.0	0.0
70°	119.0	79.3	39.7	0.0
67.5°	136.0	87.8	45.3	0.0
65°	150.2	99.2	48.2	0.0
62.5°	164.3	107.7	53.8	0.0
60°	178.5	116.2	56.7	0.0
57.5°	192.7	124.7	62.3	0.0
55°	206.8	136.0	68.0	0.0
52.5°	221.0	144.5	70.8	0.0
50°	235.2	153.0	73.7	0.0
47.5°	246.5	161.5	79.3	0.0
45°	260.7	170.0	82.2	0.0
42.5°	274.8	175.7	85.0	0.0
40°	286.2	184.2	87.8	0.0
37.5°	300.3	189.8	93.5	0.0
35°	311.7	198.3	96.3	0.0
32.5°	320.2	204.0	99.2	0.0
30°	331.5	209.7	102.0	0.0
27.5°	340.0	215.3	102.0	0.0
25°	348.5	221.0	104.8	0.0
22.5°	357.0	223.8	107.7	0.0
20°	365.5	229.5	110.5	0.0
17.5°	371.2	232.3	110.5	0.0
15°	376.8	235.2	116.2	0.0
12.5°	379.7	238.0	116.2	0.0
10°	385.3	243.7	116.2	0.0
7.5°	391.0	243.7	116.2	0.0
5°	391.0	243.7	116.2	0.0
2.5°	391.0	243.7	116.2	0.0
0°	391.0	243.7	116.2	0.0

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