

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: P623880

Luminaire Tested: **IFLD-S-SA6B-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623880
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

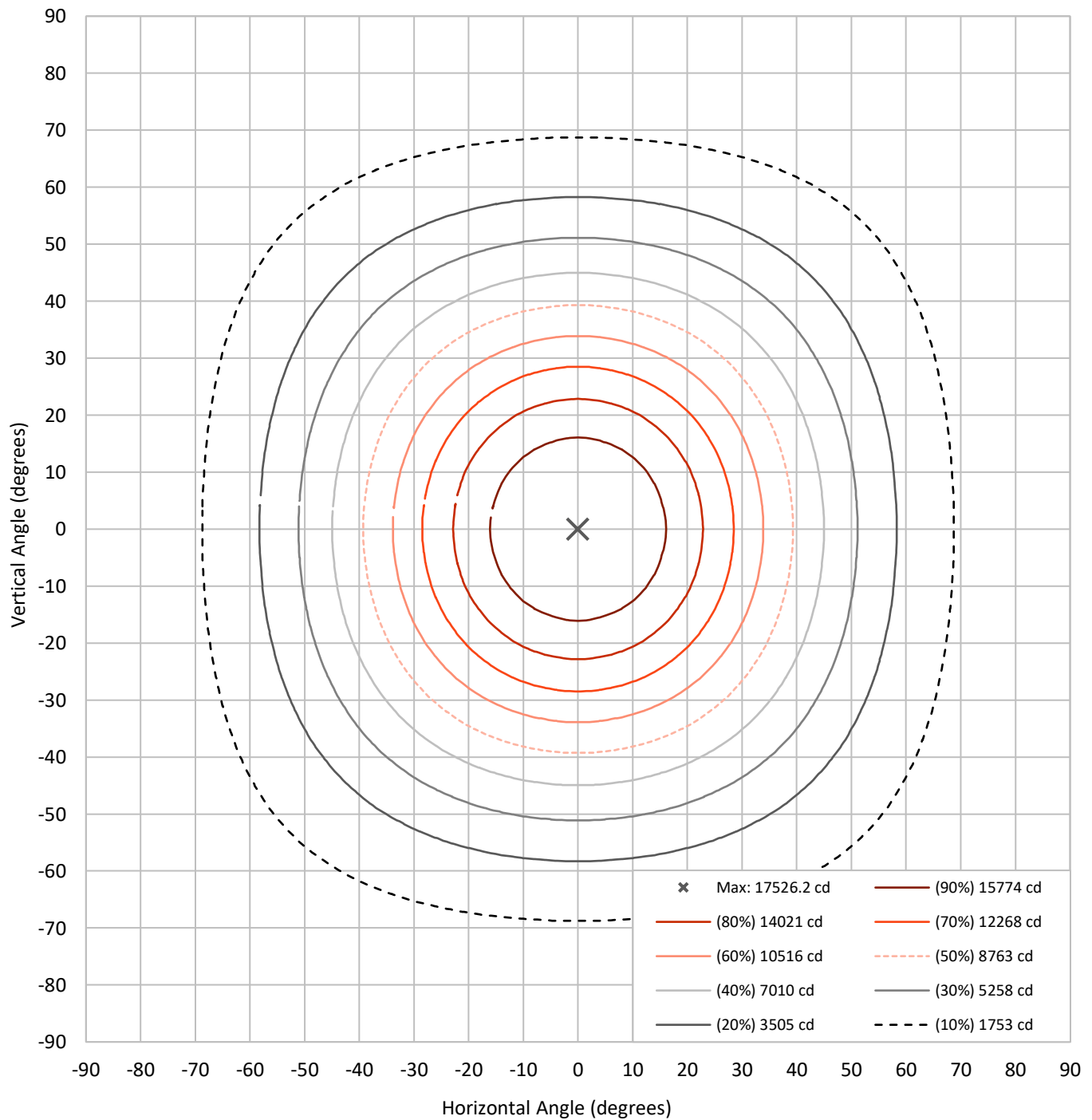
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31556.3 lumens	Max Intensity:	17526.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	13654.1 lumens	Field Lumens:	22358.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	244.9		
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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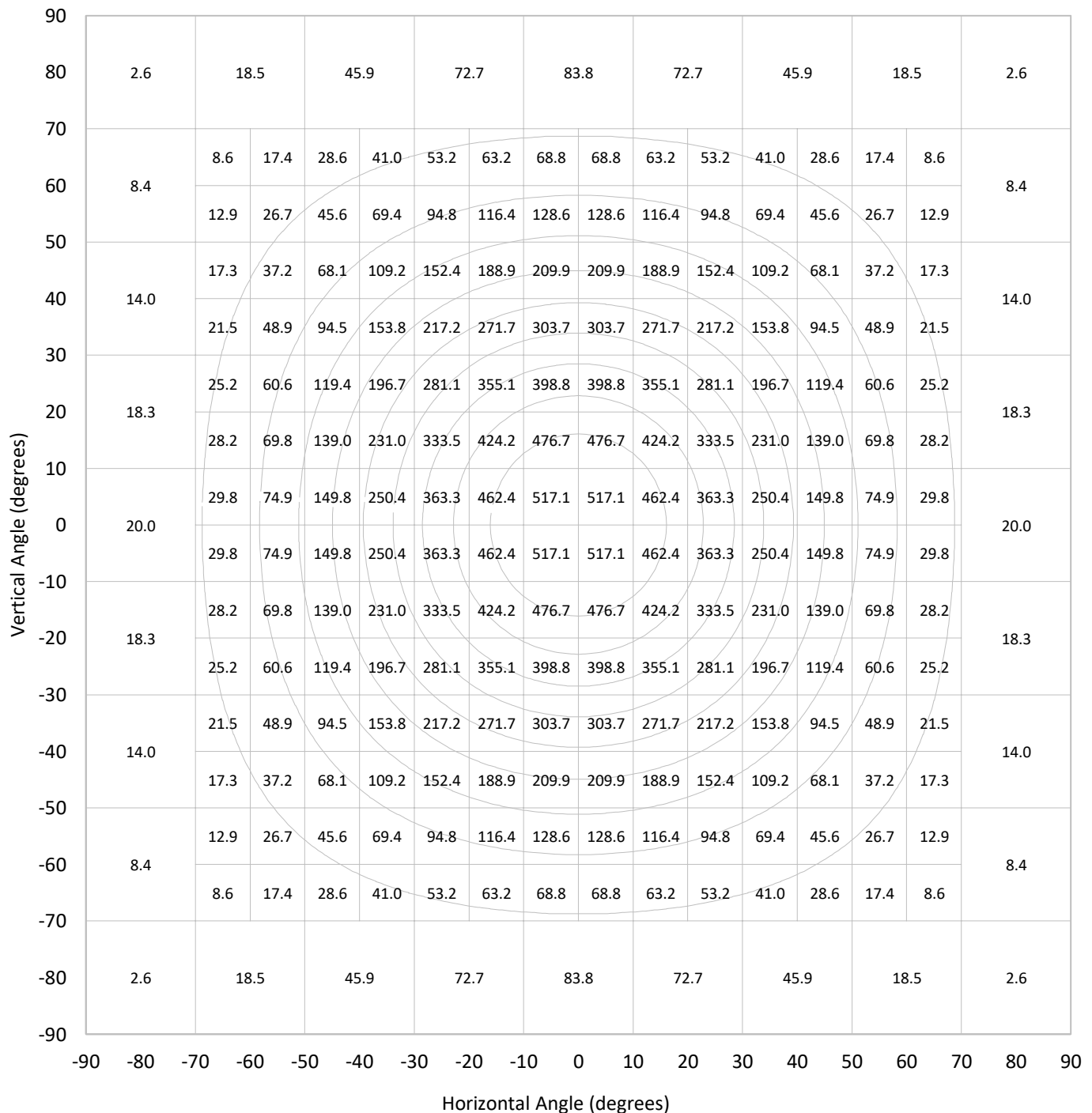
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Iso-Candela Plot



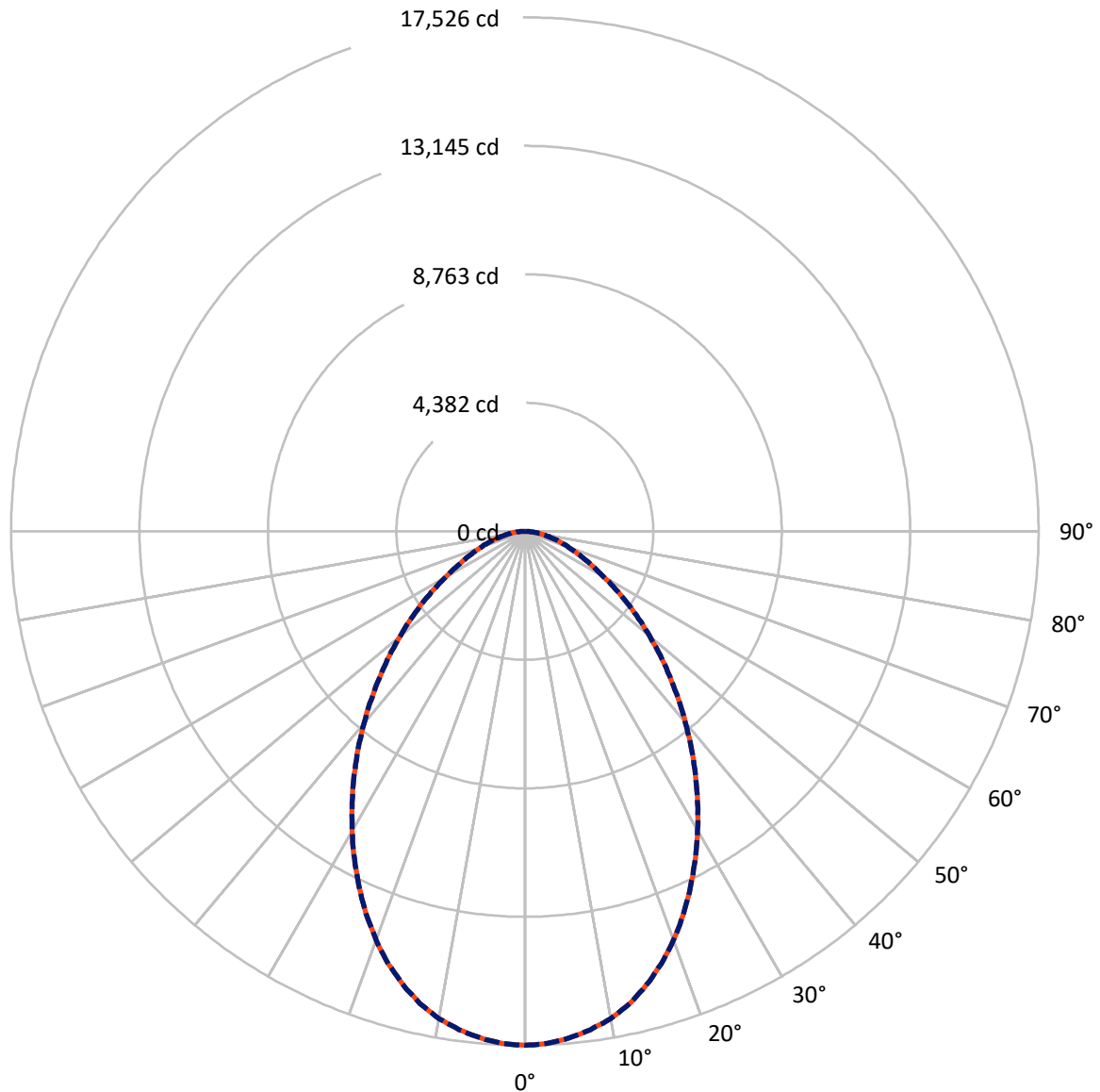
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Lumen Table



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Luminous Intensity Polar Plot

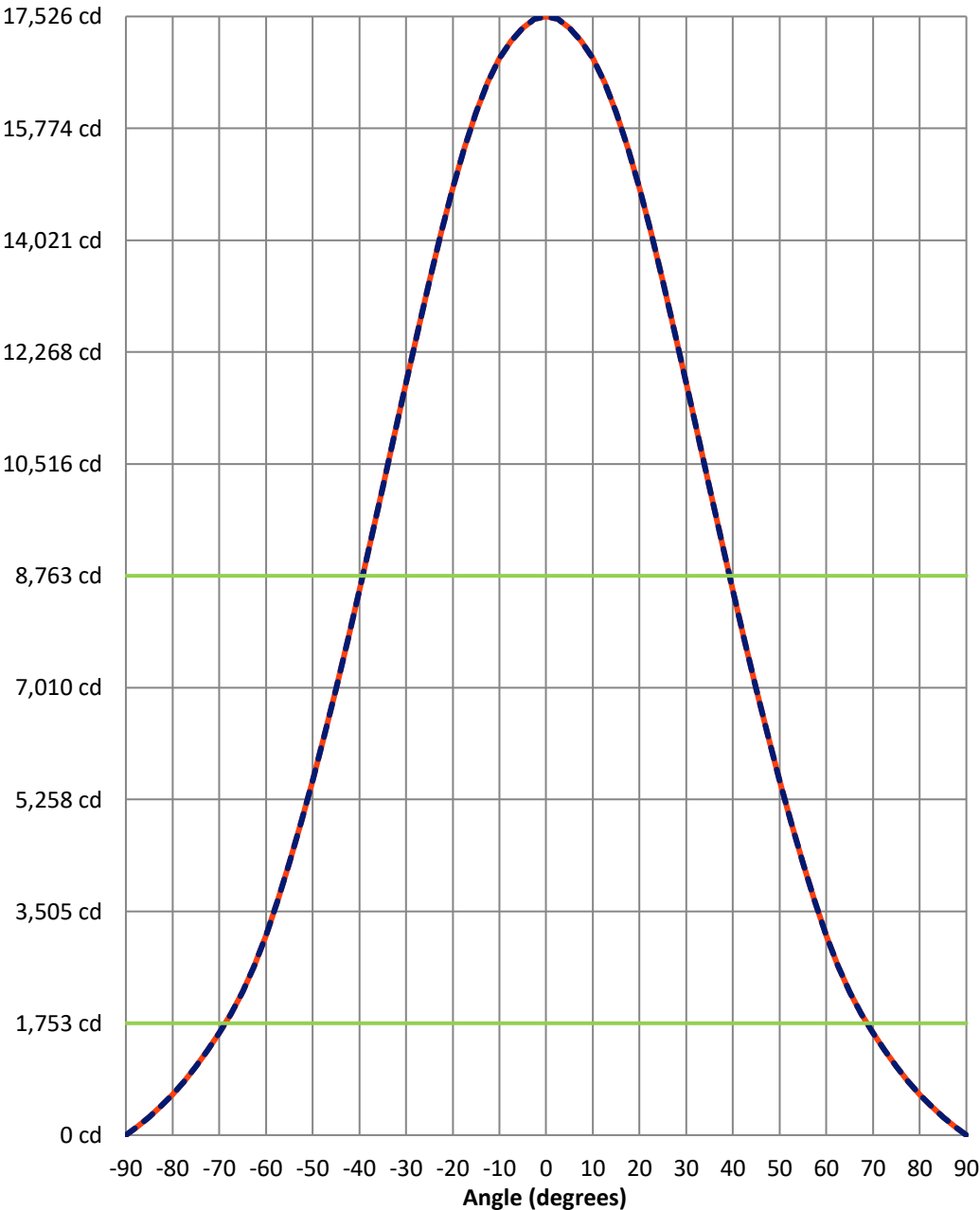


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 13654.1
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 22358.1
Efficiency: 70.9%

Spill:
Lumens: 9198.2
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°	134.9	134.9	134.9	134.9	134.9	134.9	134.9	128.3	128.3	125.0	121.7
85°	282.9	282.9	282.9	282.9	282.9	276.4	273.1	269.8	266.5	259.9	256.6
82.5°	454.0	454.0	454.0	454.0	447.4	440.9	437.6	431.0	424.4	414.5	404.7
80°	635.0	635.0	635.0	635.0	625.1	618.5	608.7	602.1	592.2	579.1	565.9
77.5°	842.3	842.3	842.3	832.4	825.8	815.9	806.1	792.9	779.7	763.3	743.6
75°	1075.9	1075.9	1075.9	1062.7	1052.8	1043.0	1026.5	1010.1	990.3	967.3	941.0
72.5°	1329.2	1329.2	1329.2	1312.7	1302.9	1286.4	1266.7	1243.6	1220.6	1191.0	1158.1
70°	1602.3	1602.3	1602.3	1582.5	1566.1	1549.6	1523.3	1497.0	1464.1	1431.2	1391.7
67.5°	1898.4	1898.4	1898.4	1875.3	1855.6	1832.6	1803.0	1770.1	1730.6	1684.5	1638.5
65°	2243.8	2243.8	2230.7	2210.9	2187.9	2155.0	2118.8	2072.7	2023.4	1964.2	1901.7
62.5°	2651.8	2651.8	2632.1	2609.0	2579.4	2536.6	2487.3	2428.1	2359.0	2283.3	2207.6
60°	3125.6	3125.6	3102.5	3072.9	3030.2	2977.5	2911.7	2836.0	2750.5	2655.1	2563.0
57.5°	3671.7	3671.7	3642.1	3602.6	3550.0	3484.2	3401.9	3306.5	3198.0	3079.5	2964.4
55°	4263.9	4263.9	4227.7	4181.7	4119.2	4040.2	3941.5	3829.6	3698.0	3563.1	3415.1
52.5°	4892.3	4892.3	4849.6	4796.9	4724.5	4632.4	4520.6	4389.0	4237.6	4079.7	3905.3
50°	5553.6	5553.6	5504.3	5445.1	5362.8	5254.2	5125.9	4974.6	4806.8	4622.6	4421.9
47.5°	6261.0	6261.0	6205.1	6136.0	6037.3	5912.3	5760.9	5586.5	5395.7	5188.4	4961.4
45°	6988.1	6988.1	6925.6	6846.6	6738.1	6596.6	6428.8	6261.0	6017.5	5777.4	5514.2
42.5°	7744.8	7744.8	7672.4	7583.6	7458.6	7304.0	7113.1	6896.0	6655.8	6386.0	6099.8
40°	8531.2	8531.2	8448.9	8346.9	8208.7	8031.1	7817.2	7573.7	7304.0	7004.6	6688.7
37.5°	9333.9	9333.9	9241.8	9130.0	8975.3	8777.9	8537.7	8268.0	7965.3	7633.0	7284.2
35°	10143.3	10143.3	10041.3	9919.6	9748.5	9531.3	9271.4	8972.0	8636.4	8274.5	7883.0
32.5°	10969.1	10969.1	10857.2	10719.1	10524.9	10284.8	9998.5	9672.8	9333.9	8912.8	8485.1
30°	11785.0	11785.0	11663.3	11512.0	11304.7	11041.5	10728.9	10370.3	9972.2	9541.2	9080.6
27.5°	12587.8	12554.9	12452.9	12291.7	12064.7	11785.0	11446.2	11057.9	10626.9	10153.2	9659.7
25°	13377.4	13341.2	13229.4	13051.7	12808.3	12502.3	12137.1	11722.5	11258.6	10758.5	10219.0
22.5°	14134.1	14094.7	13976.2	13785.4	13525.5	13193.2	12801.7	12357.5	11864.0	11327.7	10758.5
20°	14834.9	14792.2	14670.4	14469.7	14200.0	13847.9	13433.4	12956.3	12429.9	11864.0	11258.6
17.5°	15466.6	15423.9	15295.5	15088.3	14834.9	14443.4	14015.7	13512.3	12956.3	12357.5	11722.5
15°	16022.7	15976.6	15845.0	15637.7	15348.2	14979.7	14529.0	14015.7	13433.4	12801.7	12137.1
12.5°	16496.4	16450.4	16315.5	16108.2	15808.8	15440.3	14979.7	14443.4	13847.9	13193.2	12502.3
10°	16871.5	16825.4	16697.1	16499.7	16190.4	15808.8	15348.2	14834.9	14200.0	13525.5	12808.3
7.5°	17141.3	17098.5	16980.1	16782.7	16499.7	16108.2	15637.7	15088.3	14469.7	13785.4	13051.7
5°	17345.3	17295.9	17177.5	16980.1	16697.1	16315.5	15845.0	15295.5	14670.4	13976.2	13229.4
2.5°	17486.7	17427.5	17295.9	17098.5	16825.4	16450.4	15976.6	15423.9	14792.2	14094.7	13341.2
0°	17526.2	17486.7	17345.3	17141.3	16871.5	16496.4	16022.7	15466.6	14834.9	14134.1	13377.4

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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°	118.4	118.4	115.2	111.9	108.6	102.0	98.7	95.4	92.1	85.5	82.3
85°	250.0	243.5	236.9	230.3	220.4	213.9	204.0	197.4	187.5	177.7	167.8
82.5°	394.8	384.9	371.8	361.9	348.7	332.3	319.1	302.7	286.2	273.1	256.6
80°	552.7	536.3	519.8	503.4	483.6	463.9	444.2	424.4	401.4	378.4	355.3
77.5°	723.8	700.8	677.8	651.4	628.4	602.1	575.8	549.4	519.8	490.2	460.6
75°	914.6	885.0	852.1	819.2	789.6	753.4	717.2	681.0	641.6	605.4	565.9
72.5°	1121.9	1085.7	1046.2	1006.8	964.0	917.9	871.9	822.5	776.5	730.4	681.0
70°	1345.6	1302.9	1253.5	1204.2	1151.5	1095.6	1039.7	980.4	921.2	862.0	802.8
67.5°	1585.8	1533.2	1474.0	1414.7	1348.9	1283.1	1217.3	1148.2	1075.9	1003.5	934.4
65°	1842.4	1776.6	1707.5	1631.9	1556.2	1480.5	1401.6	1319.3	1237.1	1151.5	1075.9
62.5°	2128.7	2046.4	1957.6	1865.5	1779.9	1687.8	1602.3	1500.3	1401.6	1306.2	1210.7
60°	2461.0	2352.4	2243.8	2128.7	2020.1	1901.7	1796.4	1684.5	1572.7	1464.1	1352.2
57.5°	2832.8	2694.6	2563.0	2424.8	2280.0	2148.4	2013.5	1878.6	1753.6	1625.3	1503.6
55°	3253.9	3086.1	2921.6	2750.5	2582.7	2418.2	2247.1	2095.8	1941.1	1796.4	1654.9
52.5°	3714.5	3523.7	3319.7	3125.6	2911.7	2707.7	2516.9	2326.1	2145.1	1970.8	1809.5
50°	4208.0	3984.3	3750.7	3513.8	3270.3	3030.2	2799.9	2576.1	2365.6	2161.6	1970.8
47.5°	4721.3	4467.9	4201.4	3931.6	3671.7	3378.9	3102.5	2849.2	2595.9	2365.6	2145.1
45°	5247.7	4961.4	4668.6	4362.6	4056.7	3740.8	3434.8	3125.6	2849.2	2576.1	2326.1
42.5°	5790.5	5468.1	5142.4	4803.5	4464.6	4119.2	3773.7	3434.8	3102.5	2799.9	2516.9
40°	6349.8	5994.5	5622.7	5254.2	4892.3	4497.5	4119.2	3740.8	3378.9	3030.2	2707.7
37.5°	6909.2	6520.9	6119.5	5705.0	5290.4	4892.3	4464.6	4056.7	3671.7	3270.3	2911.7
35°	7471.8	7044.0	6609.8	6159.0	5705.0	5254.2	4803.5	4362.6	3931.6	3513.8	3125.6
32.5°	8037.6	7570.5	7090.1	6609.8	6119.5	5622.7	5142.4	4668.6	4201.4	3750.7	3319.7
30°	8593.7	8087.0	7570.5	7044.0	6520.9	5994.5	5468.1	4961.4	4467.9	3984.3	3523.7
27.5°	9136.5	8593.7	8037.6	7471.8	6909.2	6349.8	5790.5	5247.7	4721.3	4208.0	3714.5
25°	9659.7	9080.6	8485.1	7883.0	7284.2	6688.7	6099.8	5514.2	4961.4	4421.9	3905.3
22.5°	10153.2	9541.2	8912.8	8274.5	7633.0	7004.6	6386.0	5777.4	5188.4	4622.6	4079.7
20°	10626.9	9972.2	9333.9	8636.4	7965.3	7304.0	6655.8	6017.5	5395.7	4806.8	4237.6
17.5°	11057.9	10370.3	9672.8	8972.0	8268.0	7573.7	6896.0	6261.0	5586.5	4974.6	4389.0
15°	11446.2	10728.9	9998.5	9271.4	8537.7	7817.2	7113.1	6428.8	5760.9	5125.9	4520.6
12.5°	11785.0	11041.5	10284.8	9531.3	8777.9	8031.1	7304.0	6596.6	5912.3	5254.2	4632.4
10°	12064.7	11304.7	10524.9	9748.5	8975.3	8208.7	7458.6	6738.1	6037.3	5362.8	4724.5
7.5°	12291.7	11512.0	10719.1	9919.6	9130.0	8346.9	7583.6	6846.6	6136.0	5445.1	4796.9
5°	12452.9	11663.3	10857.2	10041.3	9241.8	8448.9	7672.4	6925.6	6205.1	5504.3	4849.6
2.5°	12554.9	11785.0	10969.1	10143.3	9333.9	8531.2	7744.8	6988.1	6261.0	5553.6	4892.3
0°	12587.8	11785.0	10969.1	10143.3	9333.9	8531.2	7744.8	6988.1	6261.0	5553.6	4892.3

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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°	79.0	72.4	65.8	62.5	55.9	52.6	46.1	39.5	36.2	29.6	23.0
85°	157.9	144.8	134.9	125.0	115.2	102.0	92.1	82.3	69.1	59.2	46.1
82.5°	240.2	223.7	207.3	190.8	174.4	157.9	138.2	121.7	105.3	88.8	69.1
80°	332.3	306.0	282.9	259.9	236.9	213.9	187.5	164.5	138.2	115.2	92.1
77.5°	427.7	398.1	365.2	332.3	299.4	269.8	236.9	207.3	177.7	144.8	115.2
75°	529.7	490.2	454.0	411.3	371.8	329.0	289.5	250.0	213.9	177.7	138.2
72.5°	635.0	585.6	536.3	490.2	440.9	391.5	345.5	296.1	250.0	207.3	164.5
70°	743.6	684.3	625.1	569.2	513.3	454.0	401.4	345.5	289.5	236.9	187.5
67.5°	858.7	789.6	720.5	648.1	585.6	519.8	454.0	391.5	329.0	269.8	213.9
65°	983.7	901.5	815.9	740.3	658.0	585.6	513.3	440.9	371.8	299.4	236.9
62.5°	1112.0	1016.6	921.2	825.8	740.3	648.1	569.2	490.2	411.3	332.3	259.9
60°	1243.6	1135.1	1026.5	921.2	815.9	720.5	625.1	536.3	454.0	365.2	282.9
57.5°	1378.5	1256.8	1135.1	1016.6	901.5	789.6	684.3	585.6	490.2	398.1	306.0
55°	1516.7	1378.5	1243.6	1112.0	983.7	858.7	743.6	635.0	529.7	427.7	332.3
52.5°	1654.9	1503.6	1352.2	1210.7	1075.9	934.4	802.8	681.0	565.9	460.6	355.3
50°	1796.4	1625.3	1464.1	1306.2	1151.5	1003.5	862.0	730.4	605.4	490.2	378.4
47.5°	1941.1	1753.6	1572.7	1401.6	1237.1	1075.9	921.2	776.5	641.6	519.8	401.4
45°	2095.8	1878.6	1684.5	1500.3	1319.3	1148.2	980.4	822.5	681.0	549.4	424.4
42.5°	2247.1	2013.5	1796.4	1602.3	1401.6	1217.3	1039.7	871.9	717.2	575.8	444.2
40°	2418.2	2148.4	1901.7	1687.8	1480.5	1283.1	1095.6	917.9	753.4	602.1	463.9
37.5°	2582.7	2280.0	2020.1	1779.9	1556.2	1348.9	1151.5	964.0	789.6	628.4	483.6
35°	2750.5	2424.8	2128.7	1865.5	1631.9	1414.7	1204.2	1006.8	819.2	651.4	503.4
32.5°	2921.6	2563.0	2243.8	1957.6	1707.5	1474.0	1253.5	1046.2	852.1	677.8	519.8
30°	3086.1	2694.6	2352.4	2046.4	1776.6	1533.2	1302.9	1085.7	885.0	700.8	536.3
27.5°	3253.9	2832.8	2461.0	2128.7	1842.4	1585.8	1345.6	1121.9	914.6	723.8	552.7
25°	3415.1	2964.4	2563.0	2207.6	1901.7	1638.5	1391.7	1158.1	941.0	743.6	565.9
22.5°	3563.1	3079.5	2655.1	2283.3	1964.2	1684.5	1431.2	1191.0	967.3	763.3	579.1
20°	3698.0	3198.0	2750.5	2359.0	2023.4	1730.6	1464.1	1220.6	990.3	779.7	592.2
17.5°	3829.6	3306.5	2836.0	2428.1	2072.7	1770.1	1497.0	1243.6	1010.1	792.9	602.1
15°	3941.5	3401.9	2911.7	2487.3	2118.8	1803.0	1523.3	1266.7	1026.5	806.1	608.7
12.5°	4040.2	3484.2	2977.5	2536.6	2155.0	1832.6	1549.6	1286.4	1043.0	815.9	618.5
10°	4119.2	3550.0	3030.2	2579.4	2187.9	1855.6	1566.1	1302.9	1052.8	825.8	625.1
7.5°	4181.7	3602.6	3072.9	2609.0	2210.9	1875.3	1582.5	1312.7	1062.7	832.4	635.0
5°	4227.7	3642.1	3102.5	2632.1	2230.7	1898.4	1602.3	1329.2	1075.9	842.3	635.0
2.5°	4263.9	3671.7	3125.6	2651.8	2243.8	1898.4	1602.3	1329.2	1075.9	842.3	635.0
0°	4263.9	3671.7	3125.6	2651.8	2243.8	1898.4	1602.3	1329.2	1075.9	842.3	635.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.5	13.2	6.6	0.0
85°	36.2	23.0	13.2	0.0
82.5°	52.6	36.2	16.5	0.0
80°	69.1	46.1	23.0	0.0
77.5°	88.8	59.2	29.6	0.0
75°	105.3	69.1	36.2	0.0
72.5°	121.7	82.3	39.5	0.0
70°	138.2	92.1	46.1	0.0
67.5°	157.9	102.0	52.6	0.0
65°	174.4	115.2	55.9	0.0
62.5°	190.8	125.0	62.5	0.0
60°	207.3	134.9	65.8	0.0
57.5°	223.7	144.8	72.4	0.0
55°	240.2	157.9	79.0	0.0
52.5°	256.6	167.8	82.3	0.0
50°	273.1	177.7	85.5	0.0
47.5°	286.2	187.5	92.1	0.0
45°	302.7	197.4	95.4	0.0
42.5°	319.1	204.0	98.7	0.0
40°	332.3	213.9	102.0	0.0
37.5°	348.7	220.4	108.6	0.0
35°	361.9	230.3	111.9	0.0
32.5°	371.8	236.9	115.2	0.0
30°	384.9	243.5	118.4	0.0
27.5°	394.8	250.0	118.4	0.0
25°	404.7	256.6	121.7	0.0
22.5°	414.5	259.9	125.0	0.0
20°	424.4	266.5	128.3	0.0
17.5°	431.0	269.8	128.3	0.0
15°	437.6	273.1	134.9	0.0
12.5°	440.9	276.4	134.9	0.0
10°	447.4	282.9	134.9	0.0
7.5°	454.0	282.9	134.9	0.0
5°	454.0	282.9	134.9	0.0
2.5°	454.0	282.9	134.9	0.0
0°	454.0	282.9	134.9	0.0

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