

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: P628220

Luminaire Tested: **IFLD-S-SA6C-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628220
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

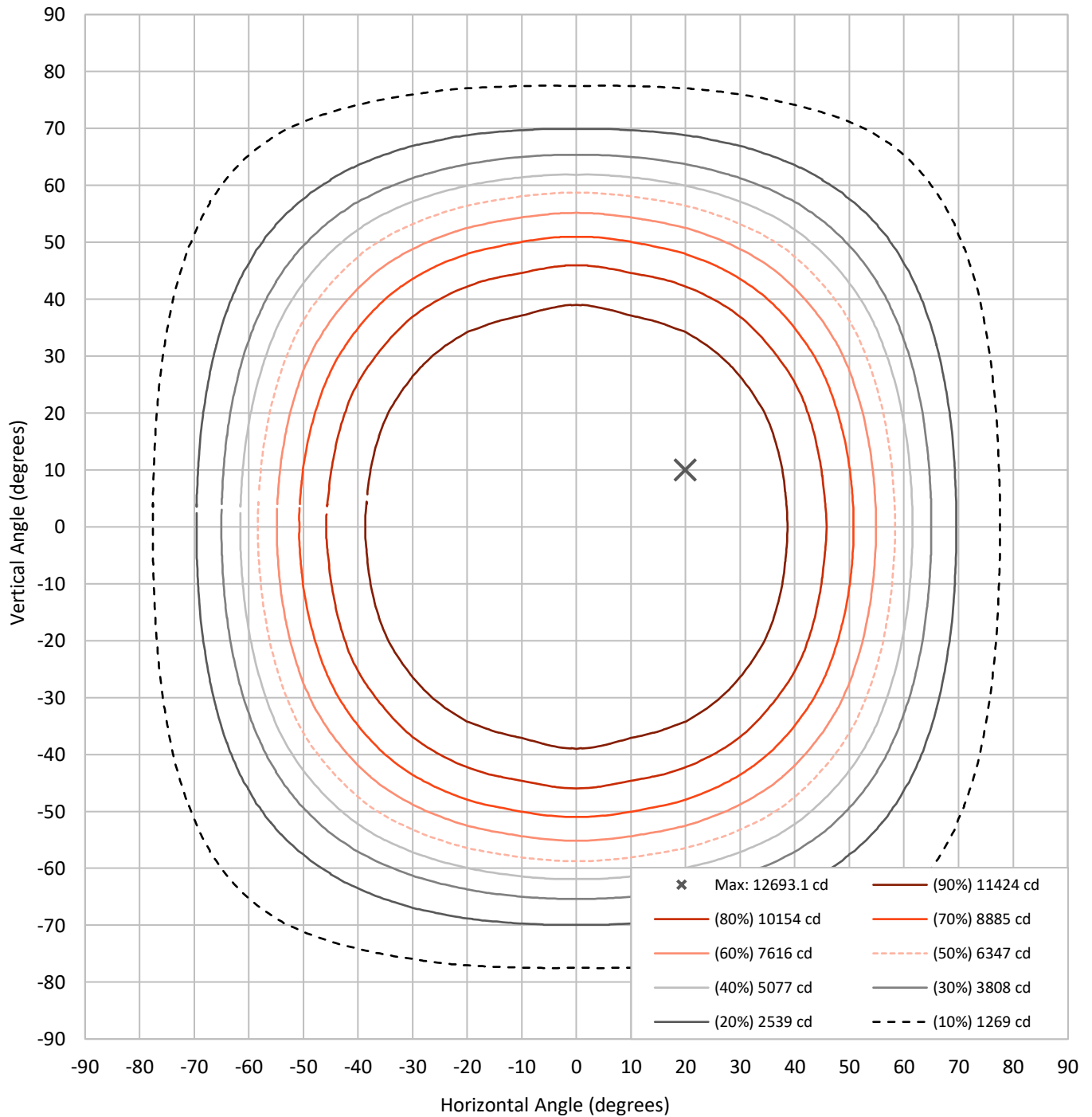
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	38940.8 lumens	Max Intensity:	12693.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	121.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	23894.9 lumens	Field Lumens:	28645.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 321.5
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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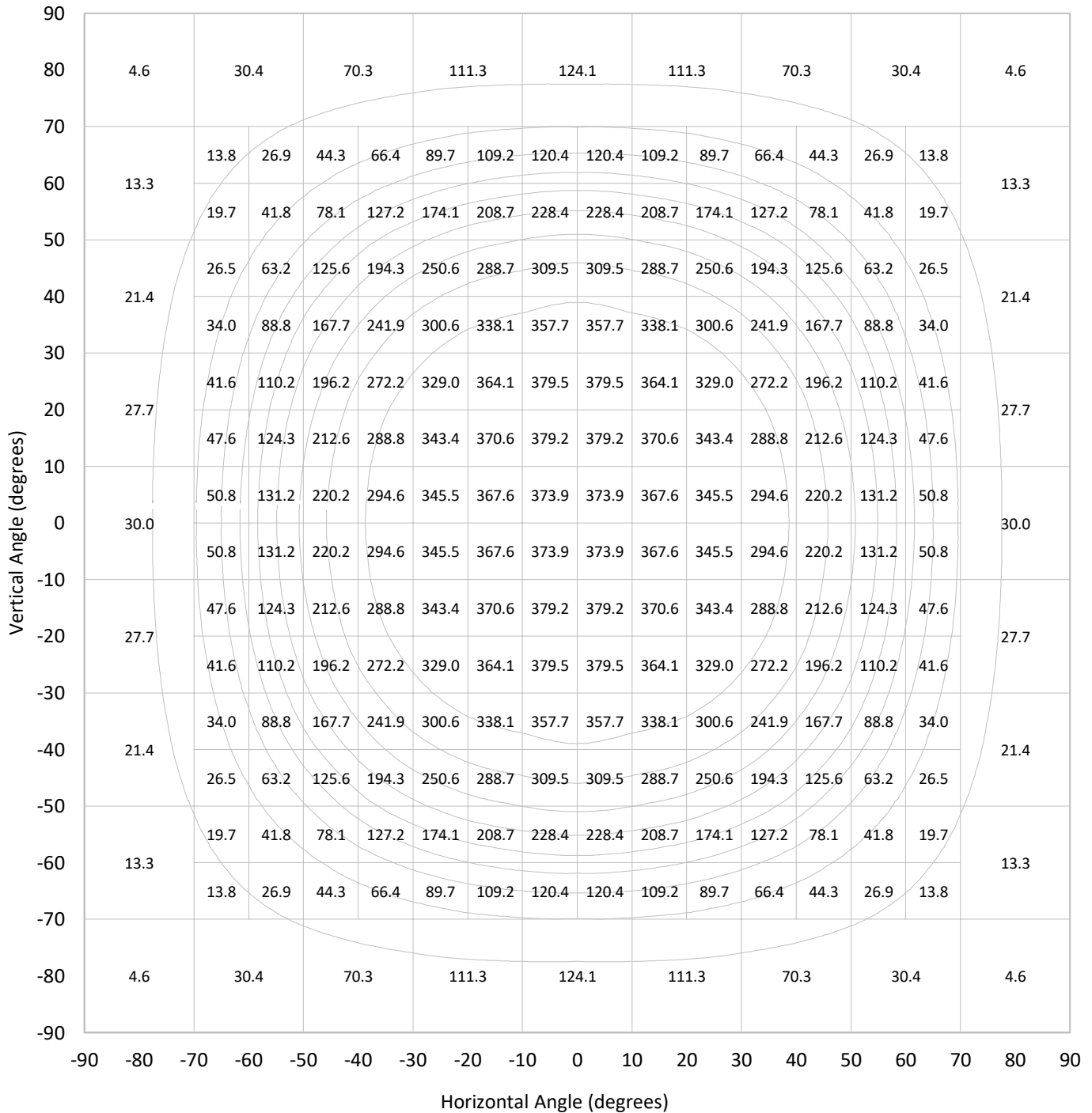
Iso-Candela Plot





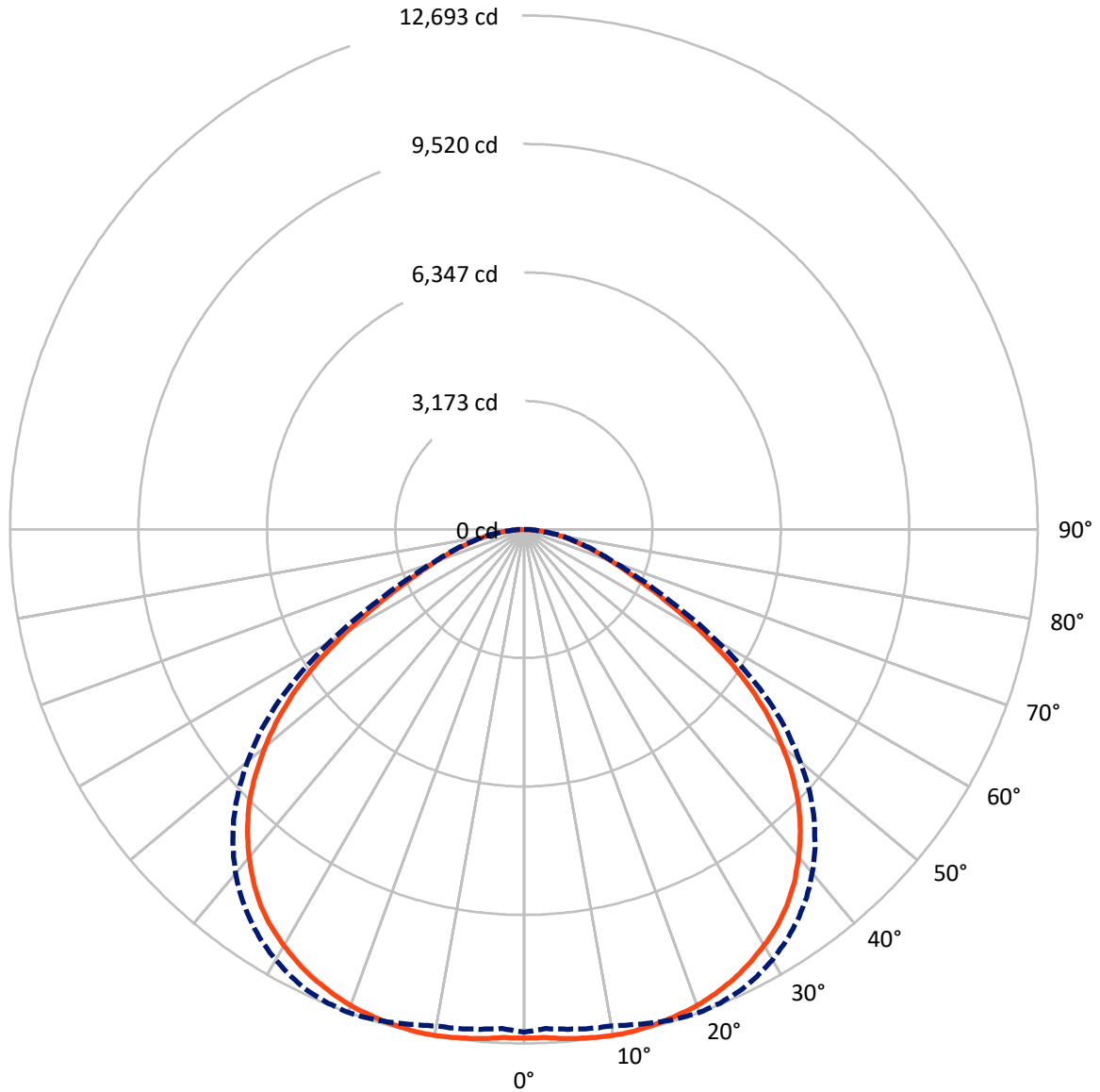
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Lumen Table



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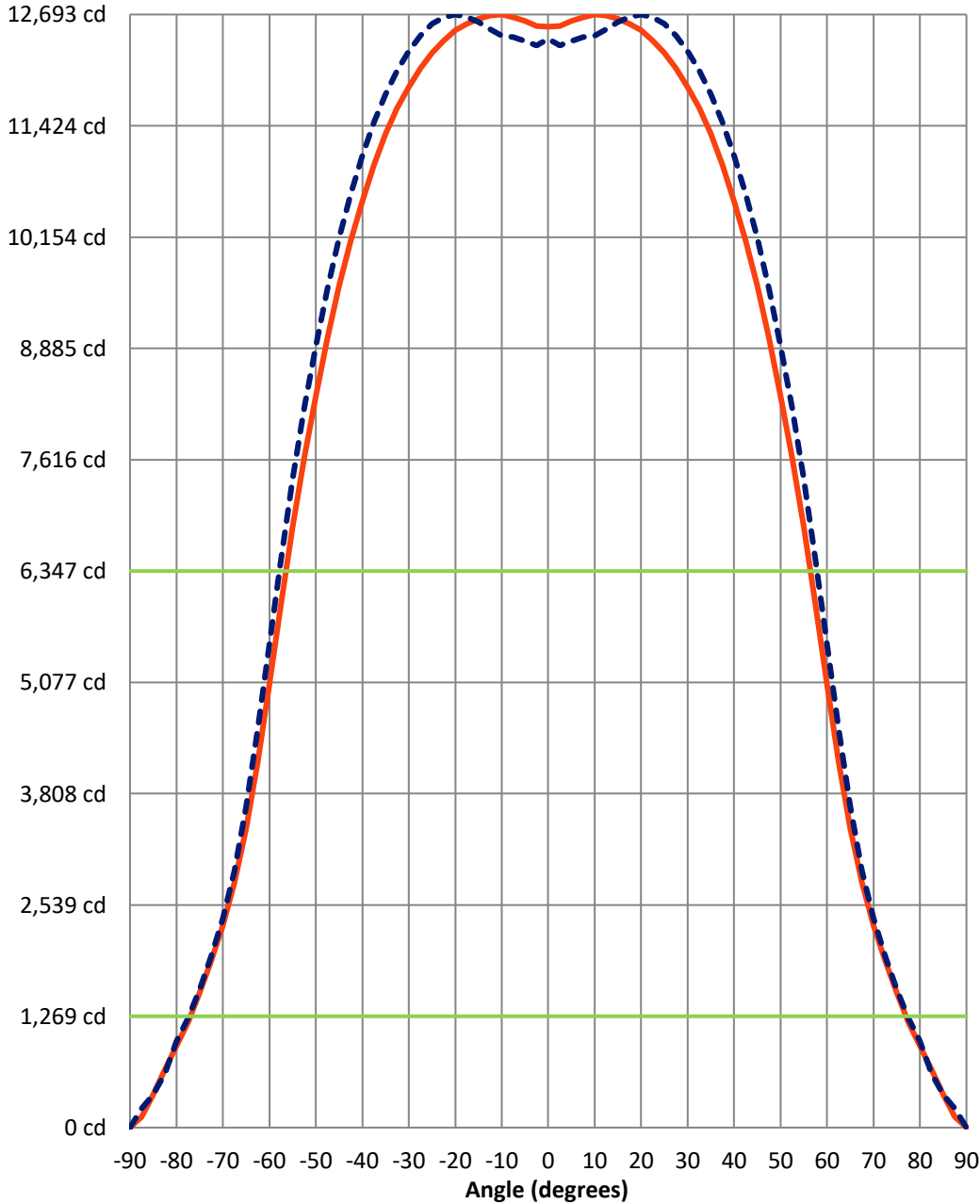
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 23894.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 28645.9
 Efficiency: 73.6%

Spill:
 Lumens: 10294.9
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-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°	102.4	110.6	114.7	118.8	122.9	127.0	131.1	127.0	122.9	122.9	118.8
85°	274.5	282.7	286.8	315.5	344.2	360.6	381.0	376.9	376.9	372.8	368.7
82.5°	549.0	573.6	594.1	622.8	639.2	663.7	680.1	667.8	659.7	643.3	631.0
80°	975.1	983.3	987.4	991.5	971.0	966.9	958.7	946.5	930.1	909.6	889.1
77.5°	1241.5	1249.6	1257.8	1249.6	1245.6	1241.5	1229.2	1216.9	1200.5	1184.1	1159.5
75°	1643.0	1643.0	1643.0	1630.7	1622.5	1610.2	1589.7	1569.2	1540.5	1507.8	1470.9
72.5°	2069.1	2065.0	2060.9	2036.3	2015.8	1991.2	1962.6	1938.0	1905.2	1868.3	1819.2
70°	2515.7	2523.9	2528.0	2495.2	2470.6	2437.8	2401.0	2355.9	2306.7	2253.5	2183.8
67.5°	3130.3	3122.1	3113.9	3068.8	3036.0	2991.0	2937.7	2872.1	2798.4	2716.4	2618.1
65°	3892.3	3904.6	3880.1	3835.0	3773.5	3699.8	3617.8	3523.6	3413.0	3290.1	3150.8
62.5°	4814.2	4834.7	4806.0	4748.7	4670.8	4572.5	4457.8	4322.6	4171.0	3998.9	3826.8
60°	5863.1	5859.0	5805.7	5727.9	5625.5	5502.5	5375.5	5228.0	5056.0	4855.2	4646.2
57.5°	6825.9	6817.8	6752.2	6674.3	6571.9	6440.8	6305.6	6149.9	5969.6	5756.6	5514.8
55°	7690.5	7682.3	7616.7	7534.8	7428.2	7297.1	7174.2	7026.7	6850.5	6625.2	6367.1
52.5°	8456.6	8460.7	8403.4	8313.2	8198.5	8071.5	7952.7	7805.2	7637.2	7411.8	7161.9
50°	9161.4	9157.3	9095.8	9013.9	8907.3	8784.4	8665.6	8518.1	8341.9	8124.8	7883.0
47.5°	9816.9	9808.7	9739.1	9648.9	9538.3	9431.8	9321.1	9190.0	9005.7	8788.5	8546.8
45°	10365.9	10349.5	10279.9	10193.8	10087.3	9993.1	9894.8	9796.4	9599.8	9399.0	9169.5
42.5°	10837.1	10833.0	10763.4	10677.3	10570.8	10488.8	10398.7	10275.8	10111.9	9927.5	9702.2
40°	11287.8	11255.0	11185.4	11103.4	11005.1	10935.4	10845.3	10722.4	10562.6	10382.3	10165.2
37.5°	11623.8	11627.9	11554.1	11464.0	11377.9	11312.4	11230.4	11115.7	10976.4	10800.2	10583.1
35°	11943.4	11922.9	11861.4	11783.6	11705.7	11632.0	11545.9	11447.6	11332.9	11169.0	10964.1
32.5°	12152.3	12181.0	12107.2	12025.3	11980.2	11922.9	11832.7	11730.3	11627.9	11464.0	11279.6
30°	12381.8	12357.2	12299.8	12230.2	12197.4	12160.5	12082.7	11984.3	11865.5	11718.0	11545.9
27.5°	12541.5	12529.3	12459.6	12394.0	12377.7	12344.9	12283.4	12197.4	12078.6	11935.2	11775.4
25°	12611.2	12619.4	12553.8	12517.0	12517.0	12496.5	12447.3	12373.6	12254.7	12123.6	11967.9
22.5°	12644.0	12635.8	12590.7	12582.5	12603.0	12586.6	12566.1	12500.6	12394.0	12287.5	12156.4
20°	12664.5	12607.1	12566.1	12598.9	12623.5	12619.4	12603.0	12562.0	12512.9	12422.7	12308.0
17.5°	12619.4	12582.5	12533.4	12582.5	12635.8	12639.9	12623.5	12598.9	12586.6	12529.3	12426.8
15°	12508.8	12480.1	12488.3	12537.4	12598.9	12619.4	12631.7	12660.4	12644.0	12598.9	12508.8
12.5°	12435.0	12398.1	12435.0	12484.2	12517.0	12529.3	12627.6	12680.9	12680.9	12639.9	12582.5
10°	12414.5	12340.8	12390.0	12435.0	12451.4	12525.2	12607.1	12664.5	12693.1	12660.4	12586.6
7.5°	12373.6	12324.4	12344.9	12365.4	12459.6	12512.9	12557.9	12619.4	12660.4	12656.3	12590.7
5°	12353.1	12291.6	12299.8	12385.9	12451.4	12488.3	12504.7	12557.9	12619.4	12631.7	12582.5
2.5°	12299.8	12271.1	12332.6	12340.8	12390.0	12418.6	12435.0	12484.2	12562.0	12590.7	12570.2
0°	12271.1	12230.2	12189.2	12222.0	12303.9	12365.4	12390.0	12463.7	12553.8	12582.5	12537.4



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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°	114.7	110.6	106.5	102.4	106.5	106.5	106.5	102.4	106.5	102.4	102.4
85°	356.5	340.1	327.8	311.4	295.0	282.7	266.3	249.9	245.8	241.7	233.5
82.5°	614.6	594.1	573.6	549.0	524.4	495.8	467.1	434.3	426.1	417.9	405.6
80°	864.5	835.8	807.1	778.5	753.9	725.2	692.4	655.6	631.0	610.5	585.9
77.5°	1126.7	1085.8	1044.8	995.6	966.9	938.3	905.5	868.6	831.7	799.0	762.1
75°	1425.8	1380.8	1339.8	1290.6	1237.4	1184.1	1130.8	1081.7	1028.4	979.2	930.1
72.5°	1757.7	1692.1	1626.6	1565.1	1499.6	1434.0	1364.4	1298.8	1233.3	1167.7	1098.1
70°	2106.0	2024.0	1942.1	1860.1	1774.1	1688.0	1606.1	1524.2	1442.2	1356.2	1278.3
67.5°	2515.7	2421.4	2314.9	2200.2	2073.2	1962.6	1856.0	1757.7	1659.4	1561.0	1462.7
65°	3027.8	2896.7	2753.3	2597.6	2450.1	2302.6	2146.9	1999.4	1884.7	1770.0	1659.4
62.5°	3658.8	3474.4	3273.7	3072.9	2892.6	2700.1	2519.8	2327.2	2146.9	1983.0	1847.8
60°	4412.7	4162.8	3916.9	3658.8	3408.9	3146.7	2917.2	2679.6	2454.2	2253.5	2056.8
57.5°	5244.4	4953.5	4658.5	4343.0	4003.0	3695.7	3384.3	3072.9	2806.6	2540.3	2319.0
55°	6088.4	5781.2	5449.3	5092.8	4720.0	4326.6	3904.6	3556.4	3191.7	2880.3	2593.5
52.5°	6891.5	6571.9	6227.8	5900.0	5453.4	5002.7	4539.7	4080.8	3654.7	3257.3	2909.0
50°	7608.5	7297.1	6965.2	6584.2	6170.4	5691.0	5174.8	4658.5	4154.6	3687.5	3253.2
47.5°	8264.1	7960.9	7629.0	7248.0	6871.0	6338.4	5818.0	5248.5	4687.2	4150.5	3642.4
45°	8878.6	8571.4	8227.2	7862.5	7428.2	6953.0	6416.2	5842.6	5240.3	4638.0	4052.1
42.5°	9435.9	9128.6	8780.3	8403.4	7973.2	7502.0	6981.6	6403.9	5797.5	5142.0	4498.7
40°	9923.4	9624.3	9288.4	8895.0	8493.5	7997.7	7485.6	6936.6	6309.7	5650.0	4941.2
37.5°	10349.5	10070.9	9739.1	9349.8	8923.7	8481.2	7952.7	7403.7	6838.2	6121.2	5396.0
35°	10726.5	10468.4	10128.3	9759.5	9341.6	8874.5	8378.8	7842.1	7231.6	6559.6	5854.9
32.5°	11054.3	10792.0	10480.7	10111.9	9706.3	9267.9	8759.8	8219.0	7641.3	6957.1	6190.9
30°	11332.9	11078.8	10783.8	10435.6	10046.3	9612.0	9116.3	8571.4	7981.4	7301.2	6543.2
27.5°	11574.6	11332.9	11046.1	10722.4	10349.5	9931.6	9431.8	8882.7	8280.5	7624.9	6866.9
25°	11783.6	11550.0	11283.7	10976.4	10607.7	10197.9	9726.8	9153.2	8550.9	7891.2	7141.4
22.5°	11972.0	11746.7	11480.4	11181.3	10845.3	10435.6	9960.3	9390.8	8780.3	8128.9	7391.4
20°	12140.0	11931.1	11668.8	11361.6	11025.6	10611.8	10140.6	9599.8	8985.2	8346.0	7616.7
17.5°	12275.2	12090.9	11828.6	11505.0	11169.0	10767.5	10308.6	9812.8	9161.4	8530.4	7805.2
15°	12369.5	12189.2	11951.5	11623.8	11296.0	10898.6	10439.7	9927.5	9321.1	8677.9	7960.9
12.5°	12435.0	12242.5	12021.2	11718.0	11390.2	10996.9	10550.3	10046.3	9456.4	8809.0	8096.1
10°	12451.4	12275.2	12054.0	11783.6	11464.0	11082.9	10644.5	10144.7	9567.0	8911.4	8206.7
7.5°	12459.6	12291.6	12090.9	11832.7	11517.2	11148.5	10714.2	10222.5	9648.9	8997.5	8288.6
5°	12455.5	12295.7	12115.4	11865.5	11550.0	11185.4	10759.3	10275.8	9706.3	9054.8	8350.1
2.5°	12443.2	12299.8	12131.8	11890.1	11586.9	11226.3	10804.3	10337.3	9767.7	9104.0	8399.3
0°	12476.0	12353.1	12140.0	11881.9	11595.1	11226.3	10800.2	10345.4	9775.9	9099.9	8395.2



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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°	102.4	98.3	98.3	94.2	90.1	86.0	77.8	73.7	65.6	53.3	41.0
85°	221.2	209.0	196.7	188.5	180.3	172.1	159.8	147.5	131.1	106.5	81.9
82.5°	389.2	364.7	340.1	311.4	286.8	262.2	241.7	221.2	196.7	159.8	122.9
80°	557.2	520.3	483.5	442.5	405.6	364.7	327.8	295.0	262.2	213.1	163.9
77.5°	725.2	676.0	622.8	573.6	520.3	467.1	413.8	368.7	319.6	262.2	204.9
75°	880.9	823.5	774.4	704.7	639.2	569.5	499.9	438.4	376.9	307.3	245.8
72.5°	1036.6	962.8	893.2	827.6	753.9	667.8	590.0	512.2	434.3	352.4	278.6
70°	1192.3	1102.1	1016.1	938.3	856.3	770.3	676.0	585.9	491.7	393.3	307.3
67.5°	1352.1	1249.6	1151.3	1053.0	958.7	860.4	762.1	659.7	549.0	434.3	340.1
65°	1528.3	1401.2	1282.4	1171.8	1061.2	954.6	844.0	733.4	610.5	479.4	368.7
62.5°	1704.4	1565.1	1425.8	1286.5	1163.6	1044.8	926.0	803.1	667.8	528.5	397.4
60°	1892.9	1733.1	1573.3	1417.6	1266.0	1134.9	1003.8	872.7	729.3	573.6	426.1
57.5°	2101.9	1909.3	1729.0	1552.8	1380.8	1225.1	1081.7	942.4	782.6	618.7	458.9
55°	2339.5	2101.9	1888.8	1692.1	1503.7	1315.2	1159.5	1016.1	844.0	663.7	495.8
52.5°	2589.4	2314.9	2056.8	1835.5	1634.8	1421.7	1233.3	1073.5	905.5	708.8	528.5
50°	2880.3	2532.1	2245.3	1974.9	1749.5	1528.3	1311.1	1139.0	966.9	762.1	561.3
47.5°	3179.4	2794.3	2433.7	2138.7	1872.4	1630.7	1401.2	1196.4	1024.3	811.2	594.1
45°	3527.7	3044.2	2646.8	2298.5	1991.2	1737.2	1491.4	1257.8	1073.5	860.4	626.9
42.5°	3863.7	3339.2	2868.0	2474.7	2126.4	1839.6	1573.3	1323.4	1122.6	909.6	655.6
40°	4261.1	3634.2	3081.1	2642.7	2261.7	1938.0	1655.3	1393.0	1167.7	954.6	684.2
37.5°	4642.1	3933.3	3339.2	2827.1	2392.8	2036.3	1737.2	1458.6	1208.7	999.7	721.1
35°	5019.1	4265.2	3585.1	2999.2	2528.0	2146.9	1819.2	1520.1	1249.6	1036.6	753.9
32.5°	5379.6	4576.6	3835.0	3191.7	2675.5	2249.4	1892.9	1577.4	1290.6	1069.4	786.7
30°	5715.6	4871.6	4080.8	3388.4	2810.7	2343.6	1962.6	1634.8	1339.8	1098.1	819.4
27.5°	6022.9	5158.4	4326.6	3572.8	2937.7	2429.6	2036.3	1688.0	1380.8	1126.7	848.1
25°	6301.5	5416.5	4552.0	3740.7	3052.4	2523.9	2106.0	1741.3	1417.6	1151.3	872.7
22.5°	6563.7	5654.1	4756.9	3908.7	3191.7	2618.1	2171.5	1790.5	1454.5	1175.9	897.3
20°	6793.2	5871.3	4953.5	4076.7	3314.6	2704.2	2228.9	1835.5	1487.3	1192.3	921.9
17.5°	6977.5	6063.9	5129.7	4224.2	3421.2	2777.9	2278.0	1876.5	1516.0	1212.8	938.3
15°	7141.4	6227.8	5277.2	4351.2	3515.4	2839.4	2323.1	1909.3	1540.5	1225.1	958.7
12.5°	7280.7	6367.1	5404.2	4461.9	3597.3	2892.6	2360.0	1933.9	1561.0	1237.4	971.0
10°	7395.5	6477.7	5510.7	4547.9	3662.9	2933.6	2388.7	1958.5	1577.4	1249.6	983.3
7.5°	7481.5	6559.6	5588.6	4621.6	3716.2	2962.3	2413.3	1974.9	1593.8	1257.8	1003.8
5°	7547.1	6629.3	5650.0	4670.8	3757.1	3003.3	2441.9	1995.3	1610.2	1266.0	1003.8
2.5°	7596.2	6686.6	5699.2	4711.8	3789.9	2995.1	2441.9	1991.2	1610.2	1266.0	999.7
0°	7588.0	6690.7	5695.1	4711.8	3789.9	2986.9	2441.9	1987.1	1610.2	1266.0	999.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	28.7	20.5	8.2	0.0
85°	61.5	41.0	20.5	0.0
82.5°	90.1	57.4	28.7	0.0
80°	118.8	77.8	36.9	0.0
77.5°	151.6	98.3	49.2	0.0
75°	180.3	114.7	57.4	0.0
72.5°	209.0	135.2	65.6	0.0
70°	233.5	151.6	73.7	0.0
67.5°	258.1	172.1	86.0	0.0
65°	278.6	188.5	94.2	0.0
62.5°	295.0	209.0	102.4	0.0
60°	315.5	225.3	110.6	0.0
57.5°	331.9	237.6	118.8	0.0
55°	348.3	245.8	127.0	0.0
52.5°	364.7	258.1	135.2	0.0
50°	381.0	270.4	143.4	0.0
47.5°	397.4	278.6	147.5	0.0
45°	422.0	290.9	155.7	0.0
42.5°	442.5	299.1	163.9	0.0
40°	463.0	307.3	168.0	0.0
37.5°	483.5	315.5	176.2	0.0
35°	504.0	323.7	180.3	0.0
32.5°	520.3	331.9	184.4	0.0
30°	536.7	340.1	188.5	0.0
27.5°	553.1	344.2	192.6	0.0
25°	565.4	352.4	196.7	0.0
22.5°	577.7	356.5	200.8	0.0
20°	585.9	360.6	204.9	0.0
17.5°	598.2	364.7	209.0	0.0
15°	602.3	368.7	217.2	0.0
12.5°	610.5	372.8	217.2	0.0
10°	614.6	376.9	217.2	0.0
7.5°	622.8	376.9	217.2	0.0
5°	618.7	376.9	217.2	0.0
2.5°	618.7	376.9	217.2	0.0
0°	614.6	376.9	217.2	0.0

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