

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: P628452

Luminaire Tested: **IFLD-S-SA6C-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628452
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

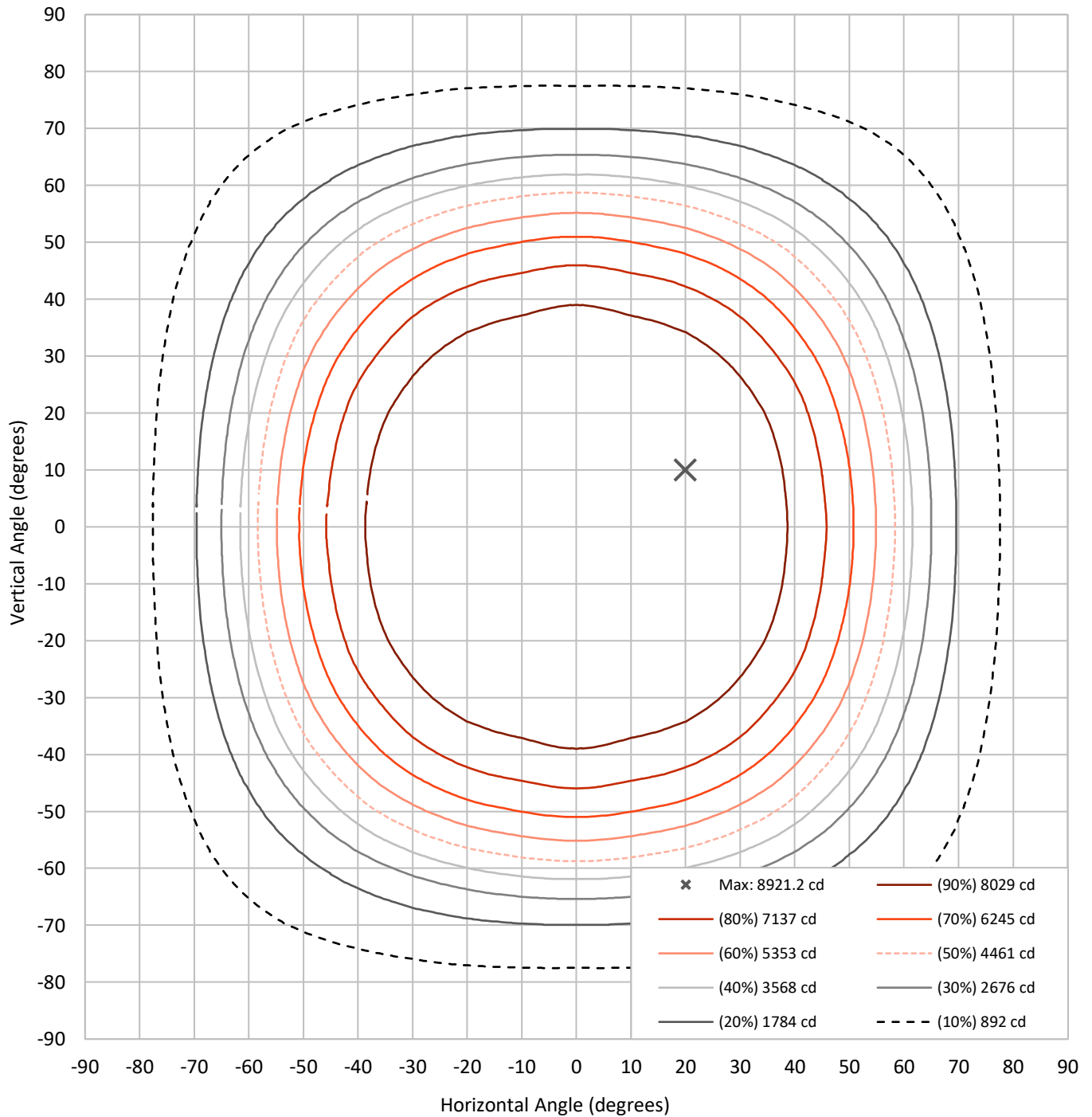
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27368.9 lumens	Max Intensity:	8921.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	85.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	16794.1 lumens	Field Lumens:	20133.3 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



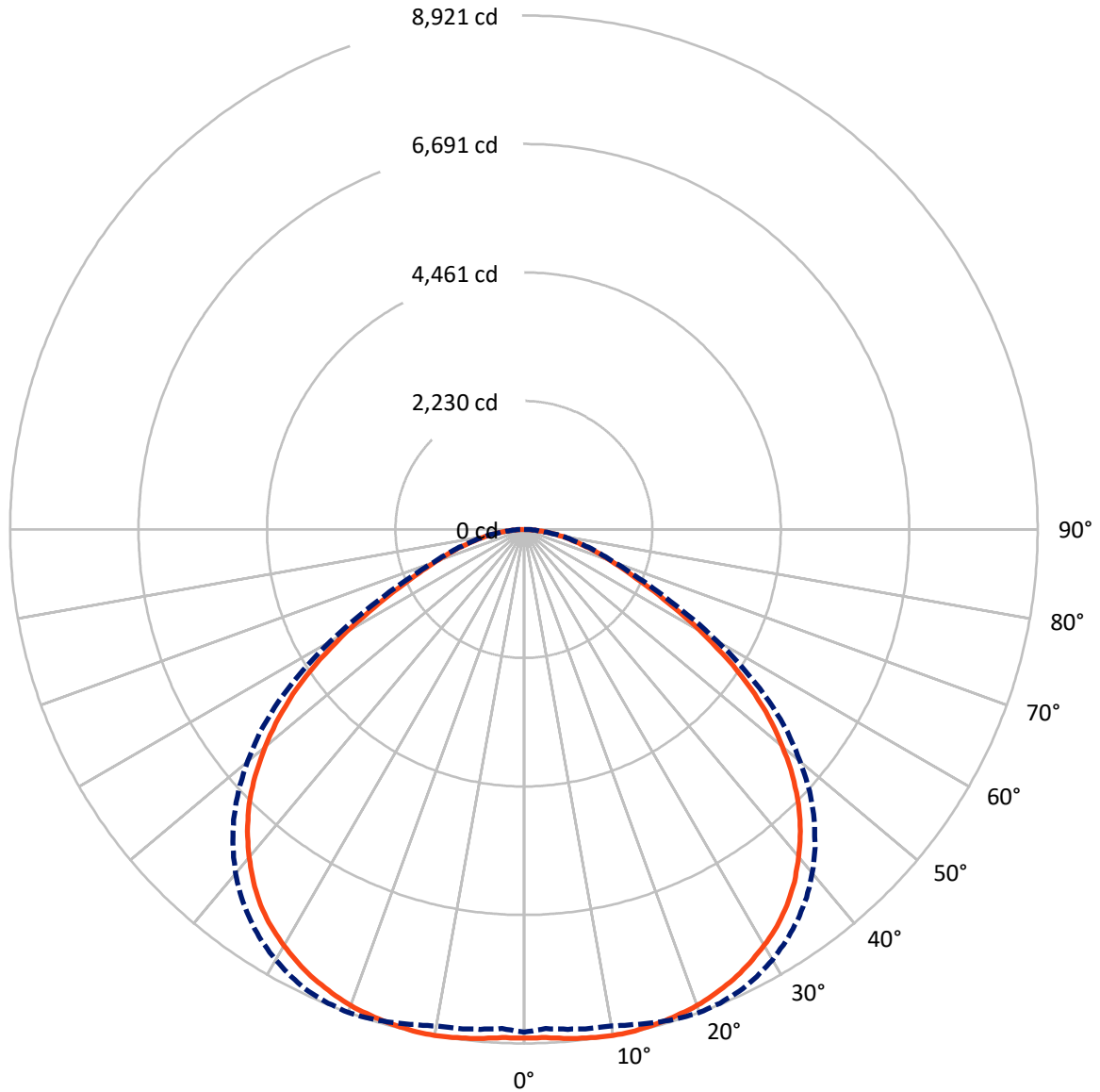
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Iso-Candela Plot



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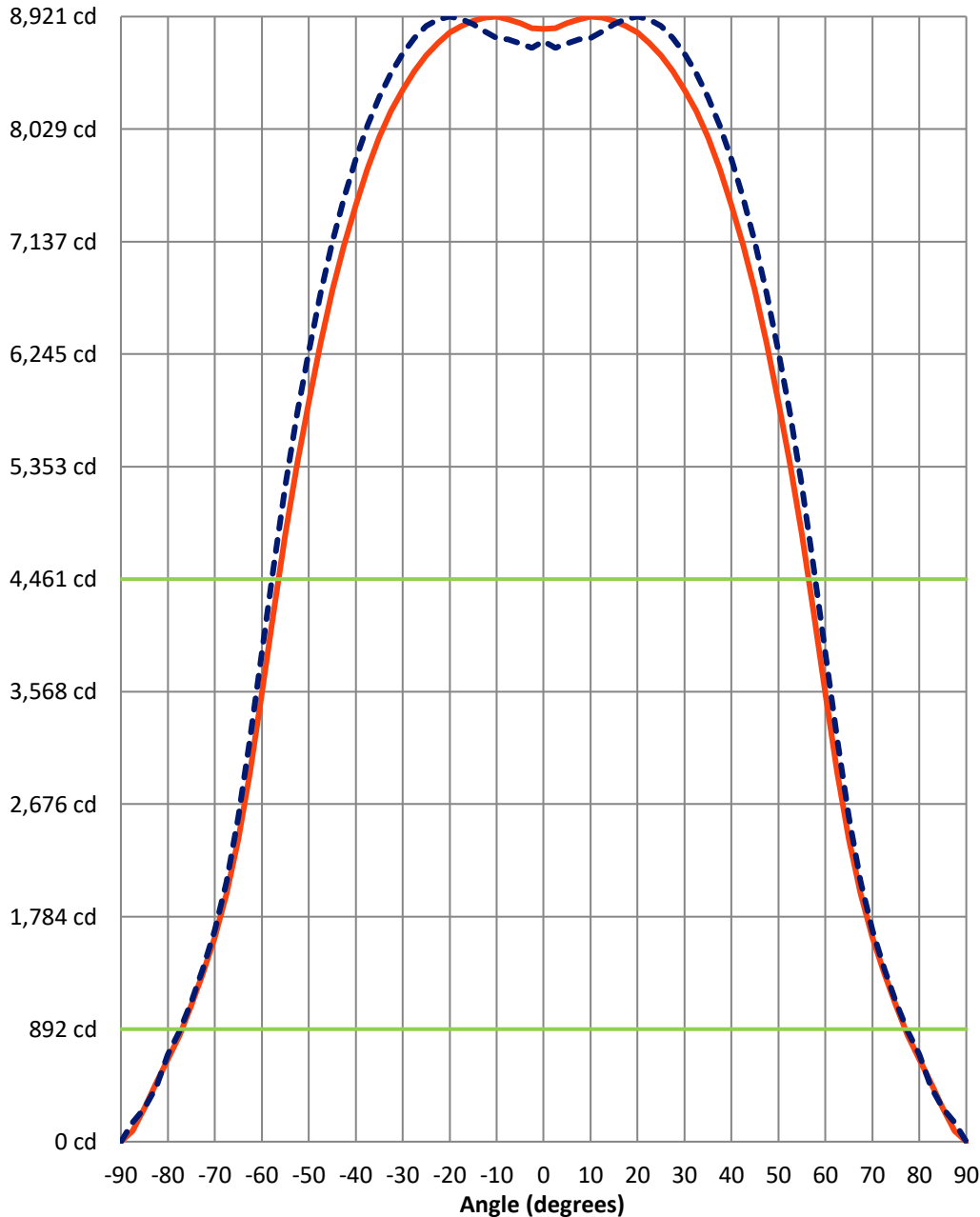
Luminous Intensity Polar Plot



— 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: 16794.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 20133.3
 Efficiency: 73.6%

Spill:
 Lumens: 7235.6
 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°	72.0	77.8	80.6	83.5	86.4	89.3	92.1	89.3	86.4	86.4	83.5
85°	192.9	198.7	201.6	221.7	241.9	253.4	267.8	264.9	262.0	262.0	259.2
82.5°	385.9	403.2	417.5	437.7	449.2	466.5	478.0	469.4	463.6	452.1	443.5
80°	685.4	691.1	694.0	696.9	682.5	679.6	673.8	665.2	653.7	639.3	624.9
77.5°	872.5	878.3	884.1	878.3	875.4	872.5	863.9	855.3	843.7	832.2	814.9
75°	1154.7	1154.7	1154.7	1146.1	1140.3	1131.7	1117.3	1102.9	1082.7	1059.7	1033.8
72.5°	1454.2	1451.3	1448.5	1431.2	1416.8	1399.5	1379.4	1362.1	1339.0	1313.1	1278.6
70°	1768.1	1773.9	1776.7	1753.7	1736.4	1713.4	1687.5	1655.8	1621.2	1583.8	1534.9
67.5°	2200.1	2194.3	2188.5	2156.9	2133.8	2102.1	2064.7	2018.6	1966.8	1909.2	1840.1
65°	2735.7	2744.3	2727.0	2695.4	2652.2	2600.3	2542.7	2476.5	2398.8	2312.4	2214.5
62.5°	3383.6	3398.0	3377.8	3337.5	3282.8	3213.7	3133.1	3038.0	2931.5	2810.5	2689.6
60°	4120.8	4117.9	4080.5	4025.8	3953.8	3867.4	3778.1	3674.4	3553.5	3412.4	3265.5
57.5°	4797.5	4791.7	4745.7	4691.0	4619.0	4526.8	4431.8	4322.4	4195.7	4045.9	3876.0
55°	5405.1	5399.3	5353.3	5295.7	5220.8	5128.7	5042.3	4938.6	4814.8	4656.4	4475.0
52.5°	5943.6	5946.5	5906.2	5842.8	5762.2	5672.9	5589.4	5485.7	5367.7	5209.3	5033.6
50°	6438.9	6436.0	6392.8	6335.2	6260.4	6174.0	6090.5	5986.8	5863.0	5710.4	5540.5
47.5°	6899.6	6893.9	6844.9	6781.6	6703.8	6629.0	6551.2	6459.1	6329.5	6176.9	6007.0
45°	7285.5	7274.0	7225.0	7164.6	7089.7	7023.5	6954.4	6885.2	6747.0	6605.9	6444.7
42.5°	7616.7	7613.8	7564.8	7504.4	7429.5	7371.9	7308.6	7222.2	7107.0	6977.4	6819.0
40°	7933.4	7910.4	7861.5	7803.9	7734.7	7685.8	7622.4	7536.1	7423.7	7297.0	7144.4
37.5°	8169.6	8172.5	8120.6	8057.3	7996.8	7950.7	7893.1	7812.5	7714.6	7590.8	7438.1
35°	8394.2	8379.8	8336.6	8281.9	8227.2	8175.3	8114.9	8045.7	7965.1	7849.9	7706.0
32.5°	8541.0	8561.2	8509.4	8451.8	8420.1	8379.8	8316.4	8244.4	8172.5	8057.3	7927.7
30°	8702.3	8685.0	8644.7	8595.8	8572.7	8546.8	8492.1	8423.0	8339.5	8235.8	8114.9
27.5°	8814.6	8806.0	8757.0	8710.9	8699.4	8676.4	8633.2	8572.7	8489.2	8388.4	8276.1
25°	8863.6	8869.3	8823.3	8797.3	8797.3	8782.9	8748.4	8696.6	8613.0	8520.9	8411.5
22.5°	8886.6	8880.8	8849.2	8843.4	8857.8	8846.3	8831.9	8785.8	8710.9	8636.1	8543.9
20°	8901.0	8860.7	8831.9	8854.9	8872.2	8869.3	8857.8	8829.0	8794.5	8731.1	8650.5
17.5°	8869.3	8843.4	8808.9	8843.4	8880.8	8883.7	8872.2	8854.9	8846.3	8806.0	8734.0
15°	8791.6	8771.4	8777.2	8811.7	8854.9	8869.3	8878.0	8898.1	8886.6	8854.9	8791.6
12.5°	8739.7	8713.8	8739.7	8774.3	8797.3	8806.0	8875.1	8912.5	8912.5	8883.7	8843.4
10°	8725.3	8673.5	8708.1	8739.7	8751.3	8803.1	8860.7	8901.0	8921.2	8898.1	8846.3
7.5°	8696.6	8662.0	8676.4	8690.8	8757.0	8794.5	8826.1	8869.3	8898.1	8895.2	8849.2
5°	8682.2	8639.0	8644.7	8705.2	8751.3	8777.2	8788.7	8826.1	8869.3	8878.0	8843.4
2.5°	8644.7	8624.6	8667.8	8673.5	8708.1	8728.2	8739.7	8774.3	8829.0	8849.2	8834.8
0°	8624.6	8595.8	8567.0	8590.0	8647.6	8690.8	8708.1	8759.9	8823.3	8843.4	8811.7



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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°	80.6	77.8	74.9	72.0	74.9	74.9	74.9	72.0	74.9	72.0	72.0
85°	250.5	239.0	230.4	218.9	207.3	198.7	187.2	175.7	172.8	169.9	164.1
82.5°	431.9	417.5	403.2	385.9	368.6	348.4	328.3	305.2	299.5	293.7	285.1
80°	607.6	587.4	567.3	547.1	529.9	509.7	486.7	460.7	443.5	429.1	411.8
77.5°	791.9	763.1	734.3	699.8	679.6	659.4	636.4	610.5	584.6	561.5	535.6
75°	1002.1	970.4	941.6	907.1	869.7	832.2	794.8	760.2	722.8	688.2	653.7
72.5°	1235.4	1189.3	1143.2	1100.0	1054.0	1007.9	958.9	912.8	866.8	820.7	771.7
70°	1480.1	1422.5	1365.0	1307.4	1246.9	1186.4	1128.8	1071.2	1013.6	953.2	898.5
67.5°	1768.1	1701.9	1627.0	1546.4	1457.1	1379.4	1304.5	1235.4	1166.3	1097.1	1028.0
65°	2128.1	2035.9	1935.1	1825.7	1722.0	1618.4	1508.9	1405.3	1324.6	1244.0	1166.3
62.5°	2571.5	2441.9	2300.8	2159.7	2033.0	1897.7	1771.0	1635.6	1508.9	1393.8	1298.7
60°	3101.4	2925.7	2752.9	2571.5	2395.9	2211.6	2050.3	1883.3	1724.9	1583.8	1445.6
57.5°	3686.0	3481.5	3274.2	3052.4	2813.4	2597.4	2378.6	2159.7	1972.6	1785.4	1629.9
55°	4279.2	4063.2	3829.9	3579.4	3317.4	3040.9	2744.3	2499.5	2243.2	2024.4	1822.8
52.5°	4843.6	4619.0	4377.1	4146.7	3832.8	3516.1	3190.7	2868.1	2568.7	2289.3	2044.6
50°	5347.5	5128.7	4895.4	4627.6	4336.8	3999.8	3637.0	3274.2	2920.0	2591.7	2286.4
47.5°	5808.3	5595.2	5361.9	5094.1	4829.2	4454.8	4089.1	3688.8	3294.3	2917.1	2560.0
45°	6240.2	6024.2	5782.3	5526.1	5220.8	4886.8	4509.5	4106.4	3683.1	3259.8	2848.0
42.5°	6631.8	6415.9	6171.1	5906.2	5603.8	5272.6	4906.9	4500.9	4074.7	3614.0	3161.9
40°	6974.5	6764.3	6528.2	6251.7	5969.5	5621.1	5261.1	4875.3	4434.7	3971.0	3472.9
37.5°	7274.0	7078.2	6844.9	6571.4	6271.9	5960.9	5589.4	5203.5	4806.1	4302.2	3792.5
35°	7538.9	7357.5	7118.5	6859.3	6565.6	6237.3	5888.9	5511.7	5082.6	4610.3	4115.0
32.5°	7769.3	7585.0	7366.2	7107.0	6821.9	6513.8	6156.7	5776.6	5370.6	4889.7	4351.2
30°	7965.1	7786.6	7579.2	7334.5	7060.9	6755.7	6407.2	6024.2	5609.6	5131.5	4598.8
27.5°	8135.0	7965.1	7763.5	7536.1	7274.0	6980.3	6629.0	6243.1	5819.8	5359.0	4826.3
25°	8281.9	8117.7	7930.6	7714.6	7455.4	7167.5	6836.3	6433.1	6009.8	5546.2	5019.2
22.5°	8414.3	8256.0	8068.8	7858.6	7622.4	7334.5	7000.4	6600.2	6171.1	5713.2	5194.9
20°	8532.4	8385.5	8201.3	7985.3	7749.1	7458.3	7127.1	6747.0	6315.1	5865.9	5353.3
17.5°	8627.4	8497.9	8313.6	8086.1	7849.9	7567.7	7245.2	6896.8	6438.9	5995.4	5485.7
15°	8693.7	8567.0	8399.9	8169.6	7939.2	7659.9	7337.4	6977.4	6551.2	6099.1	5595.2
12.5°	8739.7	8604.4	8448.9	8235.8	8005.4	7729.0	7415.1	7060.9	6646.2	6191.3	5690.2
10°	8751.3	8627.4	8471.9	8281.9	8057.3	7789.5	7481.3	7130.0	6724.0	6263.2	5767.9
7.5°	8757.0	8639.0	8497.9	8316.4	8094.7	7835.5	7530.3	7184.7	6781.6	6323.7	5825.5
5°	8754.1	8641.8	8515.1	8339.5	8117.7	7861.5	7562.0	7222.2	6821.9	6364.0	5868.7
2.5°	8745.5	8644.7	8526.7	8356.8	8143.7	7890.2	7593.6	7265.4	6865.1	6398.6	5903.3
0°	8768.5	8682.2	8532.4	8351.0	8149.4	7890.2	7590.8	7271.1	6870.9	6395.7	5900.4



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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°	72.0	69.1	69.1	66.2	63.4	60.5	54.7	51.8	46.1	37.4	28.8
85°	155.5	146.9	138.2	132.5	126.7	120.9	112.3	103.7	92.1	74.9	57.6
82.5°	273.6	256.3	239.0	218.9	201.6	184.3	169.9	155.5	138.2	112.3	86.4
80°	391.6	365.7	339.8	311.0	285.1	256.3	230.4	207.3	184.3	149.7	115.2
77.5°	509.7	475.1	437.7	403.2	365.7	328.3	290.8	259.2	224.6	184.3	144.0
75°	619.1	578.8	544.3	495.3	449.2	400.3	351.3	308.1	264.9	216.0	172.8
72.5°	728.6	676.7	627.8	581.7	529.9	469.4	414.7	360.0	305.2	247.7	195.8
70°	838.0	774.6	714.2	659.4	601.8	541.4	475.1	411.8	345.6	276.4	216.0
67.5°	950.3	878.3	809.2	740.1	673.8	604.7	535.6	463.6	385.9	305.2	239.0
65°	1074.1	984.8	901.3	823.6	745.8	671.0	593.2	515.5	429.1	336.9	259.2
62.5°	1197.9	1100.0	1002.1	904.2	817.8	734.3	650.8	564.4	469.4	371.5	279.3
60°	1330.4	1218.1	1105.8	996.4	889.8	797.7	705.5	613.4	512.6	403.2	299.5
57.5°	1477.3	1341.9	1215.2	1091.4	970.4	861.0	760.2	662.3	550.0	434.8	322.5
55°	1644.3	1477.3	1327.5	1189.3	1056.8	924.4	814.9	714.2	593.2	466.5	348.4
52.5°	1819.9	1627.0	1445.6	1290.1	1149.0	999.2	866.8	754.5	636.4	498.2	371.5
50°	2024.4	1779.6	1578.0	1388.0	1229.6	1074.1	921.5	800.5	679.6	535.6	394.5
47.5°	2234.6	1963.9	1710.5	1503.2	1316.0	1146.1	984.8	840.9	719.9	570.2	417.5
45°	2479.4	2139.6	1860.3	1615.5	1399.5	1221.0	1048.2	884.1	754.5	604.7	440.6
42.5°	2715.5	2346.9	2015.8	1739.3	1494.5	1293.0	1105.8	930.1	789.0	639.3	460.7
40°	2994.8	2554.3	2165.5	1857.4	1589.6	1362.1	1163.4	979.1	820.7	671.0	480.9
37.5°	3262.6	2764.5	2346.9	1987.0	1681.7	1431.2	1221.0	1025.2	849.5	702.6	506.8
35°	3527.6	2997.7	2519.7	2107.9	1776.7	1508.9	1278.6	1068.4	878.3	728.6	529.9
32.5°	3781.0	3216.6	2695.4	2243.2	1880.4	1580.9	1330.4	1108.7	907.1	751.6	552.9
30°	4017.1	3423.9	2868.1	2381.5	1975.4	1647.2	1379.4	1149.0	941.6	771.7	575.9
27.5°	4233.1	3625.5	3040.9	2511.1	2064.7	1707.6	1431.2	1186.4	970.4	791.9	596.1
25°	4428.9	3806.9	3199.3	2629.1	2145.3	1773.9	1480.1	1223.9	996.4	809.2	613.4
22.5°	4613.2	3973.9	3343.3	2747.2	2243.2	1840.1	1526.2	1258.4	1022.3	826.5	630.6
20°	4774.5	4126.5	3481.5	2865.3	2329.6	1900.6	1566.5	1290.1	1045.3	838.0	647.9
17.5°	4904.0	4261.9	3605.3	2968.9	2404.5	1952.4	1601.1	1318.9	1065.5	852.4	659.4
15°	5019.2	4377.1	3709.0	3058.2	2470.7	1995.6	1632.8	1341.9	1082.7	861.0	673.8
12.5°	5117.1	4475.0	3798.3	3135.9	2528.3	2033.0	1658.7	1359.2	1097.1	869.7	682.5
10°	5197.8	4552.7	3873.1	3196.4	2574.4	2061.8	1678.8	1376.5	1108.7	878.3	691.1
7.5°	5258.2	4610.3	3927.8	3248.2	2611.8	2082.0	1696.1	1388.0	1120.2	884.1	705.5
5°	5304.3	4659.3	3971.0	3282.8	2640.6	2110.8	1716.3	1402.4	1131.7	889.8	705.5
2.5°	5338.9	4699.6	4005.6	3311.6	2663.7	2105.0	1716.3	1399.5	1131.7	889.8	702.6
0°	5333.1	4702.5	4002.7	3311.6	2663.7	2099.3	1716.3	1396.6	1131.7	889.8	702.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.2	14.4	5.8	0.0
85°	43.2	28.8	14.4	0.0
82.5°	63.4	40.3	20.2	0.0
80°	83.5	54.7	25.9	0.0
77.5°	106.5	69.1	34.6	0.0
75°	126.7	80.6	40.3	0.0
72.5°	146.9	95.0	46.1	0.0
70°	164.1	106.5	51.8	0.0
67.5°	181.4	120.9	60.5	0.0
65°	195.8	132.5	66.2	0.0
62.5°	207.3	146.9	72.0	0.0
60°	221.7	158.4	77.8	0.0
57.5°	233.3	167.0	83.5	0.0
55°	244.8	172.8	89.3	0.0
52.5°	256.3	181.4	95.0	0.0
50°	267.8	190.1	100.8	0.0
47.5°	279.3	195.8	103.7	0.0
45°	296.6	204.5	109.4	0.0
42.5°	311.0	210.2	115.2	0.0
40°	325.4	216.0	118.1	0.0
37.5°	339.8	221.7	123.8	0.0
35°	354.2	227.5	126.7	0.0
32.5°	365.7	233.3	129.6	0.0
30°	377.2	239.0	132.5	0.0
27.5°	388.8	241.9	135.3	0.0
25°	397.4	247.7	138.2	0.0
22.5°	406.0	250.5	141.1	0.0
20°	411.8	253.4	144.0	0.0
17.5°	420.4	256.3	146.9	0.0
15°	423.3	259.2	152.6	0.0
12.5°	429.1	262.0	152.6	0.0
10°	431.9	264.9	152.6	0.0
7.5°	437.7	264.9	152.6	0.0
5°	434.8	264.9	152.6	0.0
2.5°	434.8	264.9	152.6	0.0
0°	431.9	264.9	152.6	0.0

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