

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: P623833

Luminaire Tested: **IFLD-L-SA7C-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623833
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33901.2 lumens	Max Intensity:	18828.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	91.9 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:	14668.7 lumens	Field Lumens:	24019.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

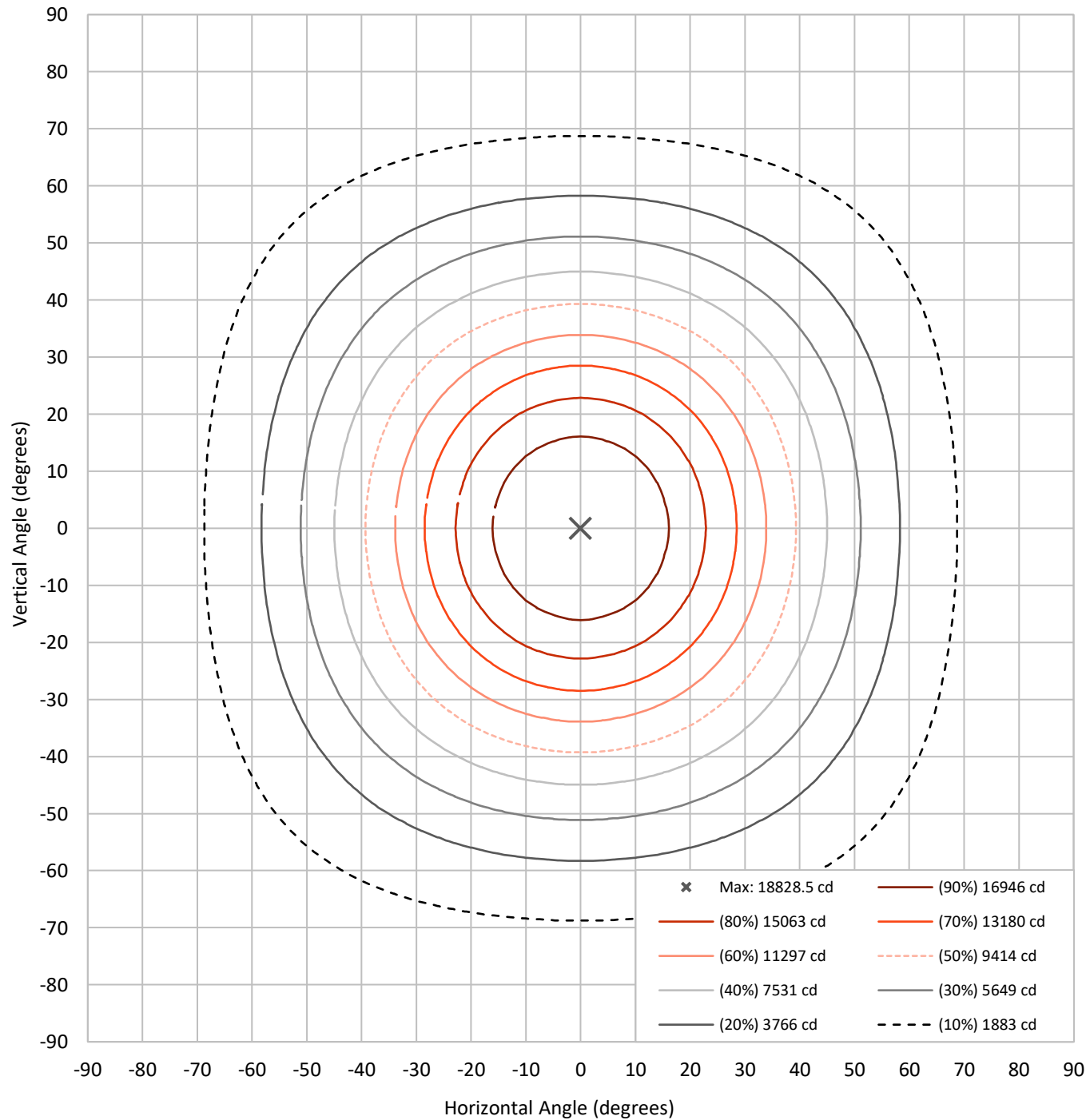
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





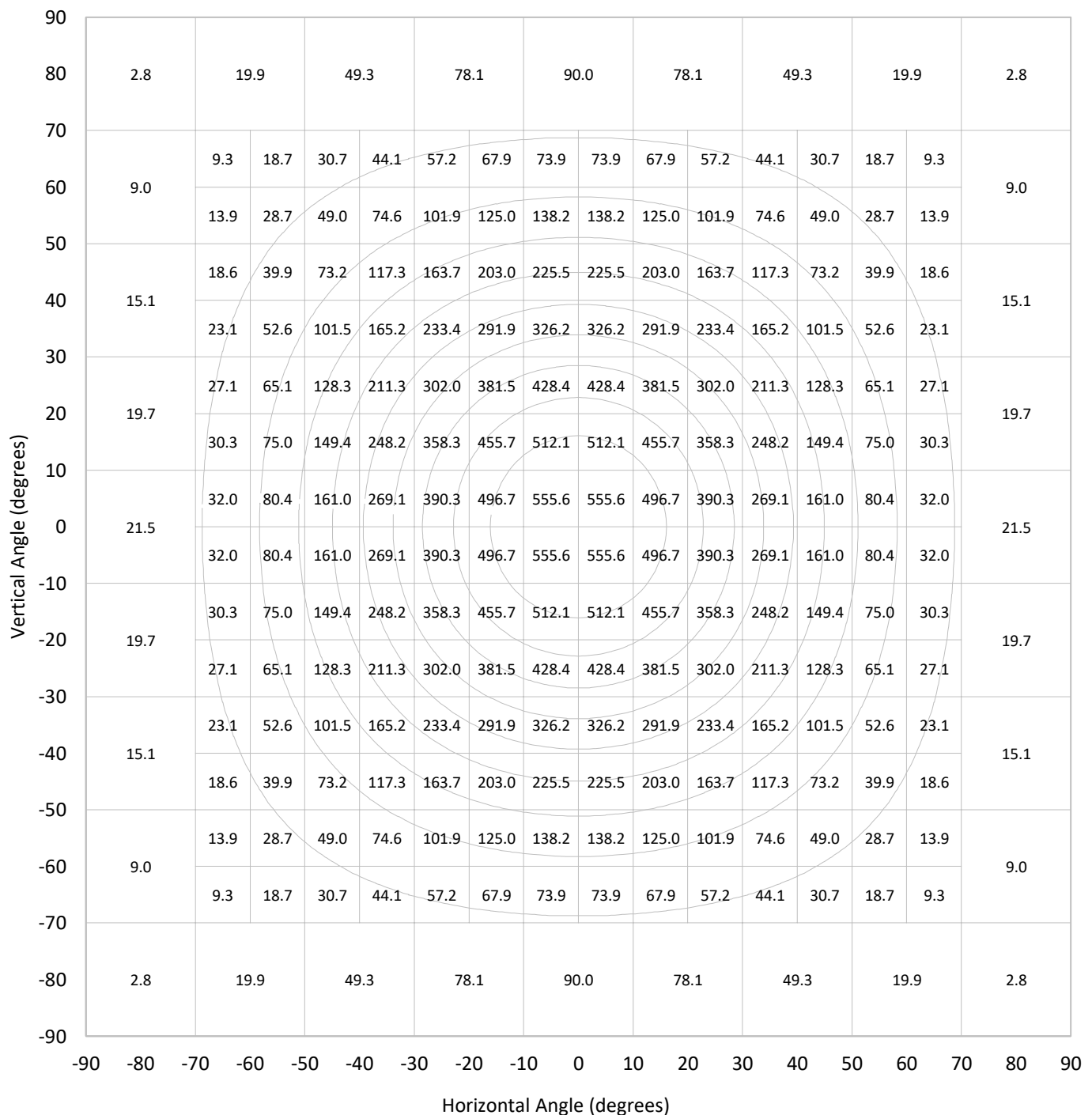
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Iso-Candela Plot



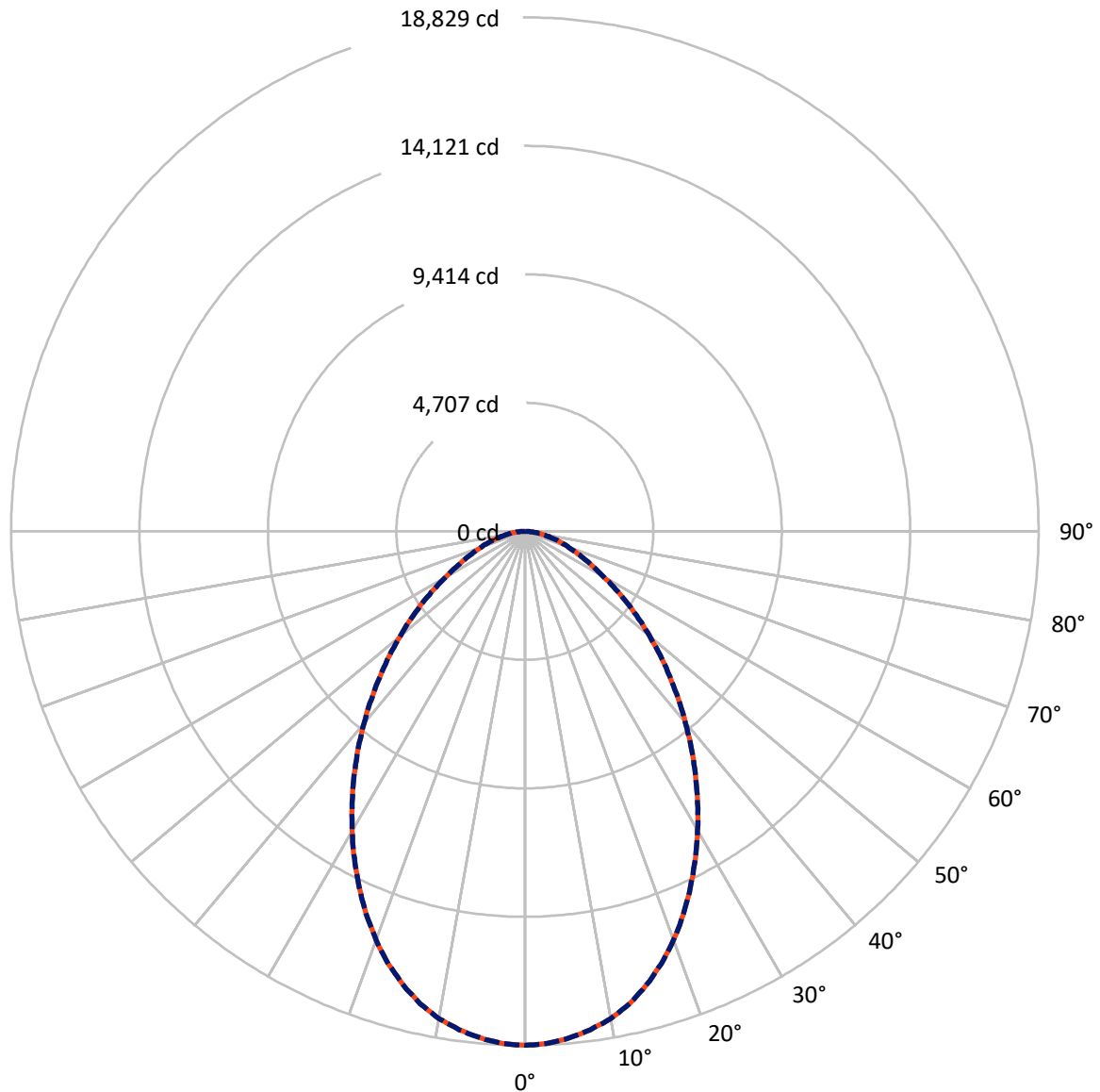
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Lumen Table



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Luminous Intensity Polar Plot

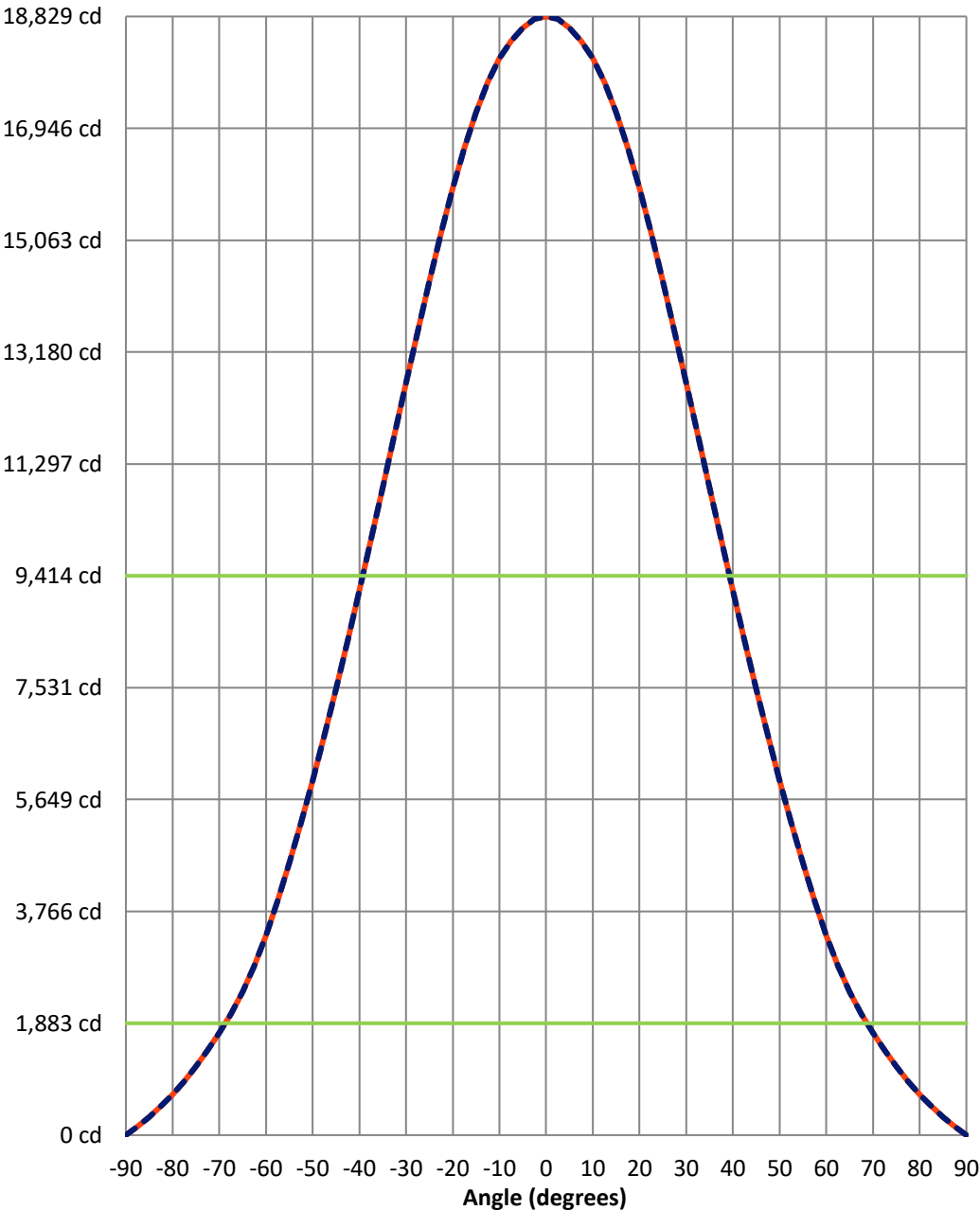


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 14668.7
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 24019.5
Efficiency: 70.9%

Spill:
Lumens: 9881.7
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°	144.9	144.9	144.9	144.9	144.9	144.9	144.9	137.8	137.8	134.3	130.8
85°	304.0	304.0	304.0	304.0	304.0	296.9	293.4	289.8	286.3	279.2	275.7
82.5°	487.8	487.8	487.8	487.8	480.7	473.6	470.1	463.0	456.0	445.4	434.7
80°	682.2	682.2	682.2	682.2	671.6	664.5	653.9	646.8	636.2	622.1	607.9
77.5°	904.8	904.8	904.8	894.2	887.2	876.6	866.0	851.8	837.7	820.0	798.8
75°	1155.8	1155.8	1155.8	1141.7	1131.1	1120.5	1102.8	1085.1	1063.9	1039.2	1010.9
72.5°	1428.0	1428.0	1428.0	1410.3	1399.7	1382.0	1360.8	1336.1	1311.3	1279.5	1244.2
70°	1721.3	1721.3	1721.3	1700.1	1682.4	1664.8	1636.5	1608.2	1572.9	1537.5	1495.1
67.5°	2039.4	2039.4	2039.4	2014.7	1993.5	1968.7	1936.9	1901.6	1859.2	1809.7	1760.2
65°	2410.6	2410.6	2396.4	2375.2	2350.5	2315.1	2276.2	2226.8	2173.7	2110.1	2043.0
62.5°	2848.8	2848.8	2827.6	2802.9	2771.1	2725.1	2672.1	2608.5	2534.3	2453.0	2371.7
60°	3357.8	3357.8	3333.1	3301.3	3255.3	3198.8	3128.1	3046.8	2954.9	2852.4	2753.4
57.5°	3944.6	3944.6	3912.7	3870.3	3813.8	3743.1	3654.7	3552.2	3435.6	3308.3	3184.6
55°	4580.8	4580.8	4541.9	4492.4	4425.3	4340.4	4234.4	4114.2	3972.8	3827.9	3668.9
52.5°	5255.9	5255.9	5209.9	5153.4	5075.6	4976.6	4856.5	4715.1	4552.5	4382.8	4195.5
50°	5966.3	5966.3	5913.3	5849.7	5761.3	5644.7	5506.8	5344.2	5164.0	4966.0	4750.4
47.5°	6726.2	6726.2	6666.2	6591.9	6485.9	6351.6	6189.0	6001.7	5796.7	5574.0	5330.1
45°	7507.4	7507.4	7440.2	7355.4	7238.7	7086.8	6906.5	6726.2	6464.7	6206.7	5923.9
42.5°	8320.3	8320.3	8242.6	8147.1	8012.8	7846.7	7641.7	7408.4	7150.4	6860.6	6553.0
40°	9165.1	9165.1	9076.7	8967.1	8818.7	8627.8	8398.1	8136.5	7846.7	7525.0	7185.7
37.5°	10027.5	10027.5	9928.5	9808.4	9642.2	9430.2	9172.1	8882.3	8557.1	8200.1	7825.5
35°	10897.0	10897.0	10787.4	10656.7	10472.9	10239.6	9960.3	9638.7	9278.2	8889.4	8468.8
32.5°	11784.2	11784.2	11664.0	11515.5	11307.0	11049.0	10741.5	10391.6	10027.5	9575.1	9115.6
30°	12660.7	12660.7	12530.0	12367.4	12144.7	11861.9	11526.2	11140.9	10713.2	10250.2	9755.3
27.5°	13523.2	13487.8	13378.3	13205.1	12961.2	12660.7	12296.7	11879.6	11416.6	10907.6	10377.4
25°	14371.5	14332.6	14212.4	14021.5	13760.0	13431.3	13038.9	12593.6	12095.2	11558.0	10978.3
22.5°	15184.4	15142.0	15014.7	14809.7	14530.5	14173.5	13752.9	13275.8	12745.6	12169.4	11558.0
20°	15937.3	15891.3	15760.5	15544.9	15255.1	14876.9	14431.5	13919.0	13353.5	12745.6	12095.2
17.5°	16615.9	16569.9	16432.1	16209.4	15937.3	15516.7	15057.2	14516.4	13919.0	13275.8	12593.6
15°	17213.2	17163.7	17022.4	16799.7	16488.7	16092.8	15608.5	15057.2	14431.5	13752.9	13038.9
12.5°	17722.2	17672.7	17527.8	17305.1	16983.5	16587.6	16092.8	15516.7	14876.9	14173.5	13431.3
10°	18125.1	18075.7	17937.8	17725.7	17393.5	16983.5	16488.7	15937.3	15255.1	14530.5	13760.0
7.5°	18415.0	18369.0	18241.8	18029.7	17725.7	17305.1	16799.7	16209.4	15544.9	14809.7	14021.5
5°	18634.1	18581.1	18453.9	18241.8	17937.8	17527.8	17022.4	16432.1	15760.5	15014.7	14212.4
2.5°	18786.1	18722.5	18581.1	18369.0	18075.7	17672.7	17163.7	16569.9	15891.3	15142.0	14332.6
0°	18828.5	18786.1	18634.1	18415.0	18125.1	17722.2	17213.2	16615.9	15937.3	15184.4	14371.5

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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°	127.2	127.2	123.7	120.2	116.6	109.6	106.0	102.5	99.0	91.9	88.4
85°	268.6	261.6	254.5	247.4	236.8	229.7	219.1	212.1	201.5	190.9	180.3
82.5°	424.1	413.5	399.4	388.8	374.7	357.0	342.9	325.2	307.5	293.4	275.7
80°	593.8	576.1	558.5	540.8	519.6	498.4	477.2	456.0	431.2	406.5	381.7
77.5°	777.6	752.9	728.1	699.8	675.1	646.8	618.5	590.3	558.5	526.6	494.8
75°	982.6	950.8	915.4	880.1	848.3	809.4	770.5	731.7	689.2	650.4	607.9
72.5°	1205.3	1166.4	1124.0	1081.6	1035.6	986.1	936.7	883.6	834.2	784.7	731.7
70°	1445.6	1399.7	1346.7	1293.6	1237.1	1177.0	1116.9	1053.3	989.7	926.1	862.4
67.5°	1703.7	1647.1	1583.5	1519.9	1449.2	1378.5	1307.8	1233.6	1155.8	1078.0	1003.8
65°	1979.3	1908.7	1834.4	1753.1	1671.8	1590.5	1505.7	1417.4	1329.0	1237.1	1155.8
62.5°	2286.9	2198.5	2103.1	2004.1	1912.2	1813.2	1721.3	1611.8	1505.7	1403.2	1300.7
60°	2643.8	2527.2	2410.6	2286.9	2170.2	2043.0	1929.9	1809.7	1689.5	1572.9	1452.7
57.5°	3043.2	2894.8	2753.4	2605.0	2449.4	2308.1	2163.1	2018.2	1883.9	1746.1	1615.3
55°	3495.7	3315.4	3138.7	2954.9	2774.6	2597.9	2414.1	2251.5	2085.4	1929.9	1777.9
52.5°	3990.5	3785.5	3566.4	3357.8	3128.1	2908.9	2703.9	2498.9	2304.5	2117.2	1944.0
50°	4520.7	4280.3	4029.4	3774.9	3513.3	3255.3	3007.9	2767.5	2541.3	2322.2	2117.2
47.5°	5072.1	4799.9	4513.6	4223.8	3944.6	3630.0	3333.1	3060.9	2788.8	2541.3	2304.5
45°	5637.6	5330.1	5015.5	4686.8	4358.1	4018.8	3690.1	3357.8	3060.9	2767.5	2498.9
42.5°	6220.8	5874.4	5524.5	5160.4	4796.4	4425.3	4054.1	3690.1	3333.1	3007.9	2703.9
40°	6821.7	6439.9	6040.5	5644.7	5255.9	4831.7	4425.3	4018.8	3630.0	3255.3	2908.9
37.5°	7422.5	7005.5	6574.3	6128.9	5683.5	5255.9	4796.4	4358.1	3944.6	3513.3	3128.1
35°	8027.0	7567.5	7100.9	6616.7	6128.9	5644.7	5160.4	4686.8	4223.8	3774.9	3357.8
32.5°	8634.9	8133.0	7616.9	7100.9	6574.3	6040.5	5524.5	5015.5	4513.6	4029.4	3566.4
30°	9232.2	8687.9	8133.0	7567.5	7005.5	6439.9	5874.4	5330.1	4799.9	4280.3	3785.5
27.5°	9815.4	9232.2	8634.9	8027.0	7422.5	6821.7	6220.8	5637.6	5072.1	4520.7	3990.5
25°	10377.4	9755.3	9115.6	8468.8	7825.5	7185.7	6553.0	5923.9	5330.1	4750.4	4195.5
22.5°	10907.6	10250.2	9575.1	8889.4	8200.1	7525.0	6860.6	6206.7	5574.0	4966.0	4382.8
20°	11416.6	10713.2	10027.5	9278.2	8557.1	7846.7	7150.4	6464.7	5796.7	5164.0	4552.5
17.5°	11879.6	11140.9	10391.6	9638.7	8882.3	8136.5	7408.4	6726.2	6001.7	5344.2	4715.1
15°	12296.7	11526.2	10741.5	9960.3	9172.1	8398.1	7641.7	6906.5	6189.0	5506.8	4856.5
12.5°	12660.7	11861.9	11049.0	10239.6	9430.2	8627.8	7846.7	7086.8	6351.6	5644.7	4976.6
10°	12961.2	12144.7	11307.0	10472.9	9642.2	8818.7	8012.8	7238.7	6485.9	5761.3	5075.6
7.5°	13205.1	12367.4	11515.5	10656.7	9808.4	8967.1	8147.1	7355.4	6591.9	5849.7	5153.4
5°	13378.3	12530.0	11664.0	10787.4	9928.5	9076.7	8242.6	7440.2	6666.2	5913.3	5209.9
2.5°	13487.8	12660.7	11784.2	10897.0	10027.5	9165.1	8320.3	7507.4	6726.2	5966.3	5255.9
0°	13523.2	12660.7	11784.2	10897.0	10027.5	9165.1	8320.3	7507.4	6726.2	5966.3	5255.9

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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°	84.8	77.8	70.7	67.2	60.1	56.6	49.5	42.4	38.9	31.8	24.7
85°	169.7	155.5	144.9	134.3	123.7	109.6	99.0	88.4	74.2	63.6	49.5
82.5°	258.0	240.3	222.7	205.0	187.3	169.7	148.5	130.8	113.1	95.4	74.2
80°	357.0	328.7	304.0	279.2	254.5	229.7	201.5	176.7	148.5	123.7	99.0
77.5°	459.5	427.7	392.3	357.0	321.6	289.8	254.5	222.7	190.9	155.5	123.7
75°	569.1	526.6	487.8	441.8	399.4	353.5	311.0	268.6	229.7	190.9	148.5
72.5°	682.2	629.1	576.1	526.6	473.6	420.6	371.1	318.1	268.6	222.7	176.7
70°	798.8	735.2	671.6	611.5	551.4	487.8	431.2	371.1	311.0	254.5	201.5
67.5°	922.5	848.3	774.1	696.3	629.1	558.5	487.8	420.6	353.5	289.8	229.7
65°	1056.8	968.5	876.6	795.3	706.9	629.1	551.4	473.6	399.4	321.6	254.5
62.5°	1194.7	1092.2	989.7	887.2	795.3	696.3	611.5	526.6	441.8	357.0	279.2
60°	1336.1	1219.4	1102.8	989.7	876.6	774.1	671.6	576.1	487.8	392.3	304.0
57.5°	1481.0	1350.2	1219.4	1092.2	968.5	848.3	735.2	629.1	526.6	427.7	328.7
55°	1629.4	1481.0	1336.1	1194.7	1056.8	922.5	798.8	682.2	569.1	459.5	357.0
52.5°	1777.9	1615.3	1452.7	1300.7	1155.8	1003.8	862.4	731.7	607.9	494.8	381.7
50°	1929.9	1746.1	1572.9	1403.2	1237.1	1078.0	926.1	784.7	650.4	526.6	406.5
47.5°	2085.4	1883.9	1689.5	1505.7	1329.0	1155.8	989.7	834.2	689.2	558.5	431.2
45°	2251.5	2018.2	1809.7	1611.8	1417.4	1233.6	1053.3	883.6	731.7	590.3	456.0
42.5°	2414.1	2163.1	1929.9	1721.3	1505.7	1307.8	1116.9	936.7	770.5	618.5	477.2
40°	2597.9	2308.1	2043.0	1813.2	1590.5	1378.5	1177.0	986.1	809.4	646.8	498.4
37.5°	2774.6	2449.4	2170.2	1912.2	1671.8	1449.2	1237.1	1035.6	848.3	675.1	519.6
35°	2954.9	2605.0	2286.9	2004.1	1753.1	1519.9	1293.6	1081.6	880.1	699.8	540.8
32.5°	3138.7	2753.4	2410.6	2103.1	1834.4	1583.5	1346.7	1124.0	915.4	728.1	558.5
30°	3315.4	2894.8	2527.2	2198.5	1908.7	1647.1	1399.7	1166.4	950.8	752.9	576.1
27.5°	3495.7	3043.2	2643.8	2286.9	1979.3	1703.7	1445.6	1205.3	982.6	777.6	593.8
25°	3668.9	3184.6	2753.4	2371.7	2043.0	1760.2	1495.1	1244.2	1010.9	798.8	607.9
22.5°	3827.9	3308.3	2852.4	2453.0	2110.1	1809.7	1537.5	1279.5	1039.2	820.0	622.1
20°	3972.8	3435.6	2954.9	2534.3	2173.7	1859.2	1572.9	1311.3	1063.9	837.7	636.2
17.5°	4114.2	3552.2	3046.8	2608.5	2226.8	1901.6	1608.2	1336.1	1085.1	851.8	646.8
15°	4234.4	3654.7	3128.1	2672.1	2276.2	1936.9	1636.5	1360.8	1102.8	866.0	653.9
12.5°	4340.4	3743.1	3198.8	2725.1	2315.1	1968.7	1664.8	1382.0	1120.5	876.6	664.5
10°	4425.3	3813.8	3255.3	2771.1	2350.5	1993.5	1682.4	1399.7	1131.1	887.2	671.6
7.5°	4492.4	3870.3	3301.3	2802.9	2375.2	2014.7	1700.1	1410.3	1141.7	894.2	682.2
5°	4541.9	3912.7	3333.1	2827.6	2396.4	2039.4	1721.3	1428.0	1155.8	904.8	682.2
2.5°	4580.8	3944.6	3357.8	2848.8	2410.6	2039.4	1721.3	1428.0	1155.8	904.8	682.2
0°	4580.8	3944.6	3357.8	2848.8	2410.6	2039.4	1721.3	1428.0	1155.8	904.8	682.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.7	14.1	7.1	0.0
85°	38.9	24.7	14.1	0.0
82.5°	56.6	38.9	17.7	0.0
80°	74.2	49.5	24.7	0.0
77.5°	95.4	63.6	31.8	0.0
75°	113.1	74.2	38.9	0.0
72.5°	130.8	88.4	42.4	0.0
70°	148.5	99.0	49.5	0.0
67.5°	169.7	109.6	56.6	0.0
65°	187.3	123.7	60.1	0.0
62.5°	205.0	134.3	67.2	0.0
60°	222.7	144.9	70.7	0.0
57.5°	240.3	155.5	77.8	0.0
55°	258.0	169.7	84.8	0.0
52.5°	275.7	180.3	88.4	0.0
50°	293.4	190.9	91.9	0.0
47.5°	307.5	201.5	99.0	0.0
45°	325.2	212.1	102.5	0.0
42.5°	342.9	219.1	106.0	0.0
40°	357.0	229.7	109.6	0.0
37.5°	374.7	236.8	116.6	0.0
35°	388.8	247.4	120.2	0.0
32.5°	399.4	254.5	123.7	0.0
30°	413.5	261.6	127.2	0.0
27.5°	424.1	268.6	127.2	0.0
25°	434.7	275.7	130.8	0.0
22.5°	445.4	279.2	134.3	0.0
20°	456.0	286.3	137.8	0.0
17.5°	463.0	289.8	137.8	0.0
15°	470.1	293.4	144.9	0.0
12.5°	473.6	296.9	144.9	0.0
10°	480.7	304.0	144.9	0.0
7.5°	487.8	304.0	144.9	0.0
5°	487.8	304.0	144.9	0.0
2.5°	487.8	304.0	144.9	0.0
0°	487.8	304.0	144.9	0.0

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