

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: P623964

Luminaire Tested: **IFLD-S-SA3D-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623964
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	24751.2 lumens	Max Intensity:	13746.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	134.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' 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:	10709.6 lumens	Field Lumens:	17536.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

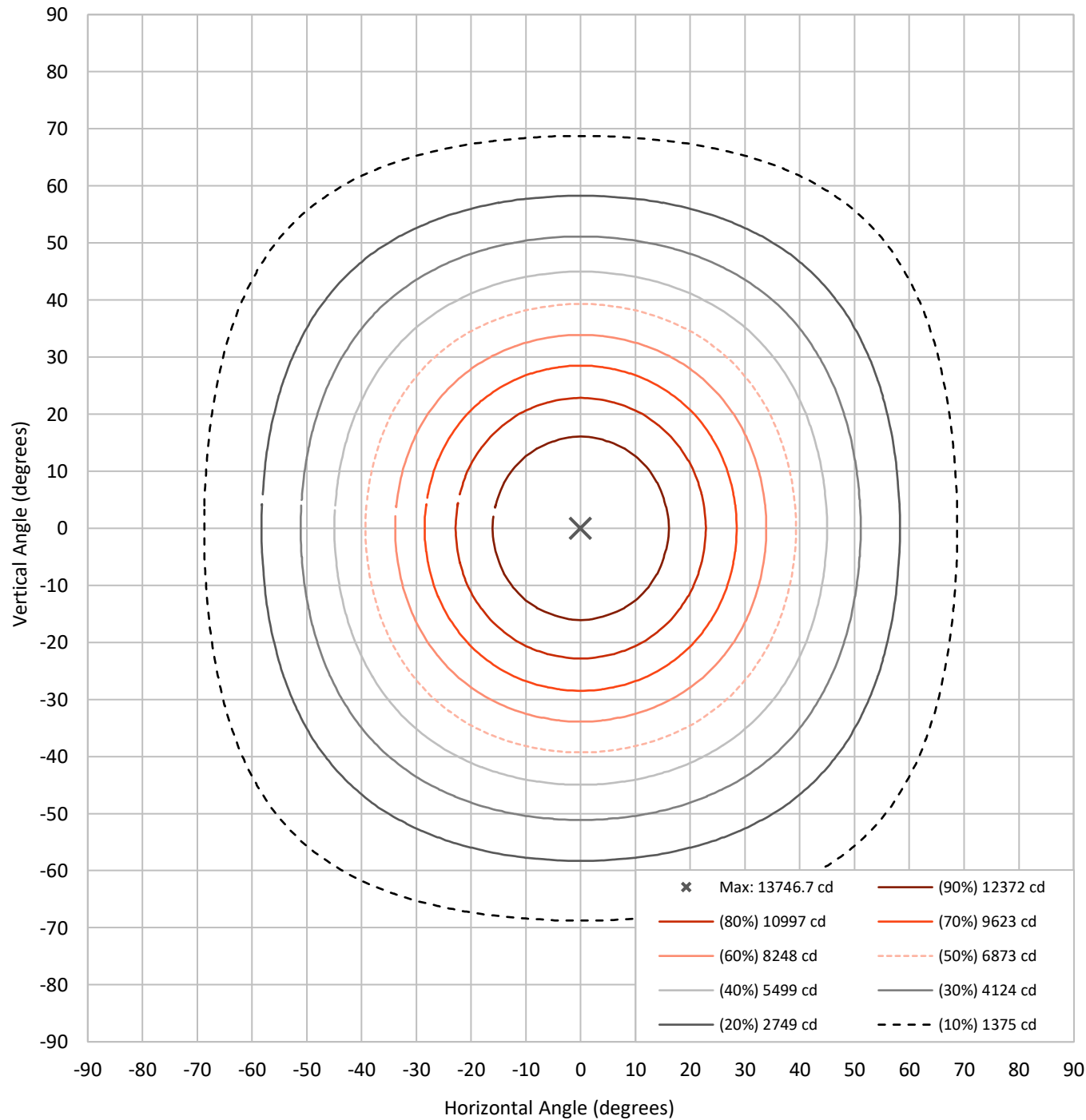
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





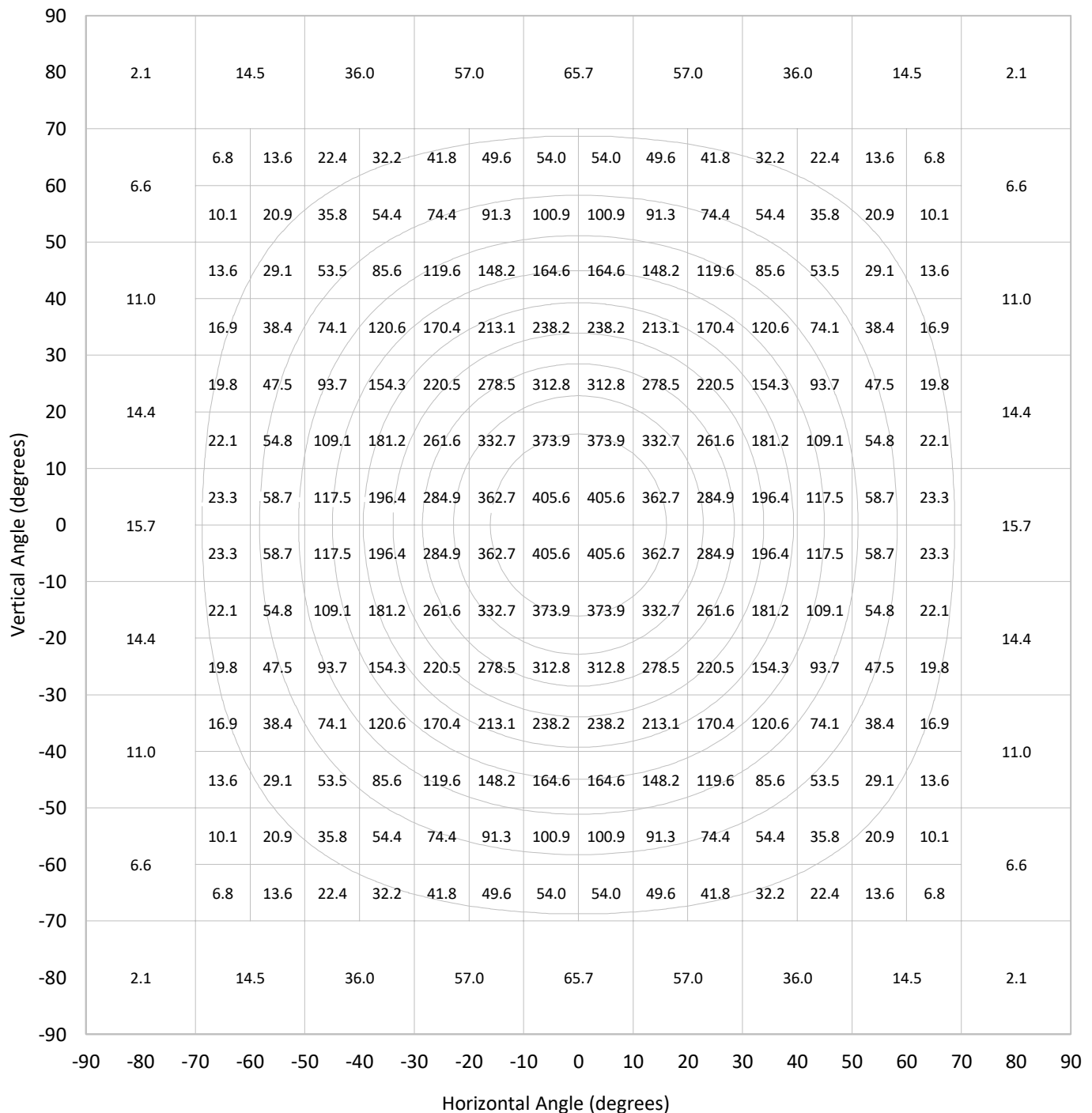
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Iso-Candela Plot



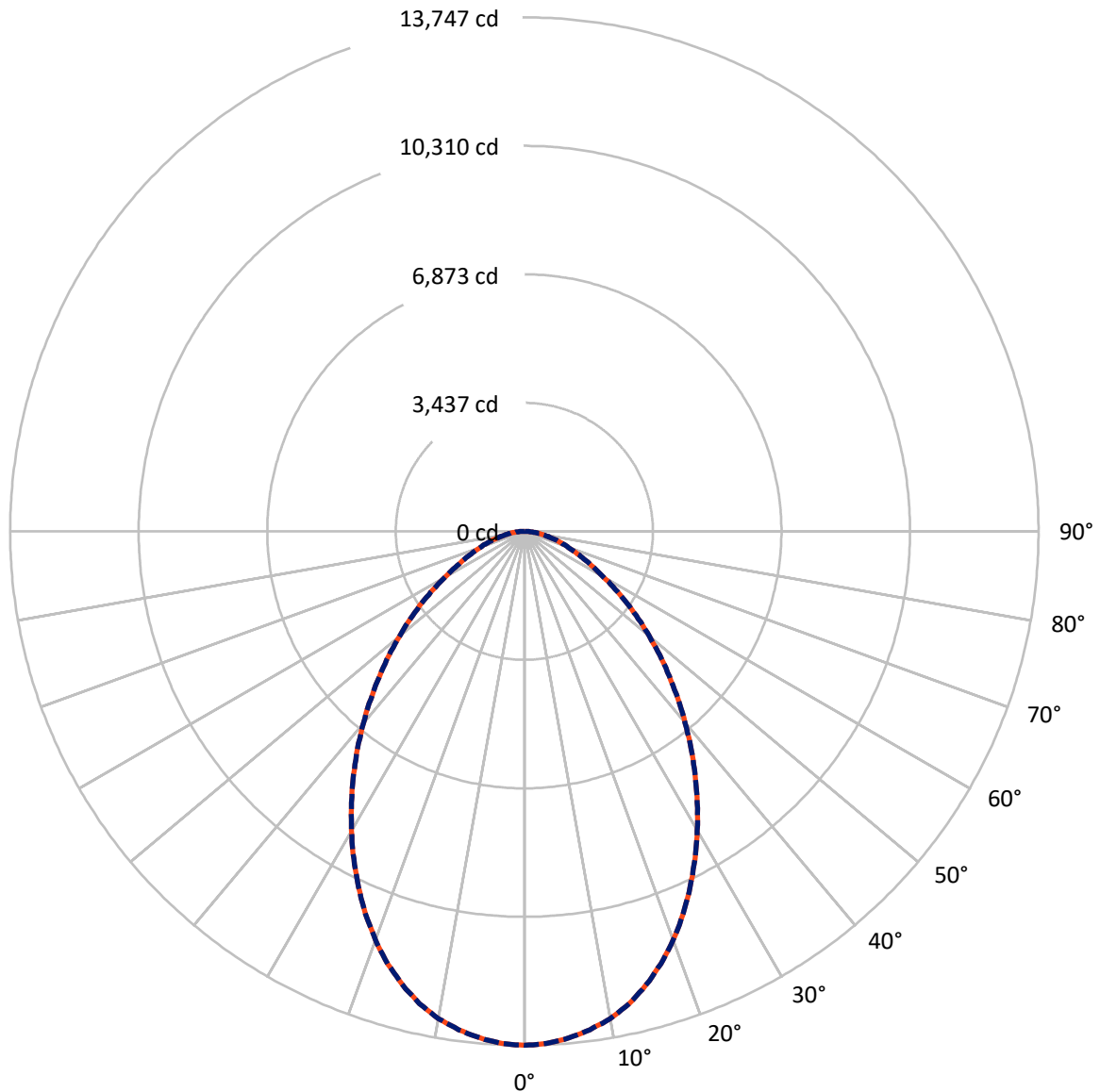
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Lumen Table



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Luminous Intensity Polar Plot

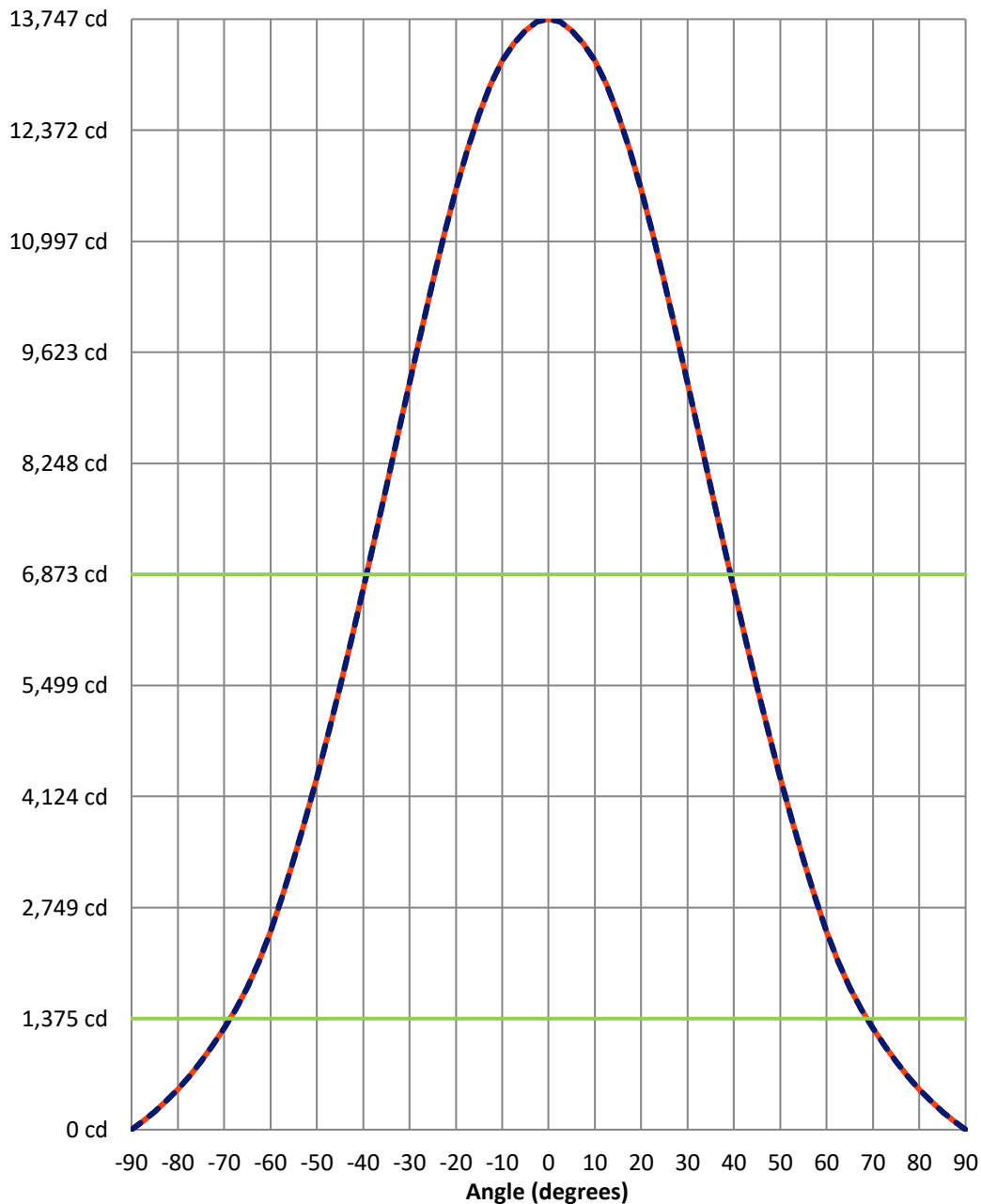


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 10709.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 17536.6
Efficiency: 70.9%

Spill:

Lumens: 7214.6
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°	105.8	105.8	105.8	105.8	105.8	105.8	105.8	100.6	100.6	98.1	95.5
85°	221.9	221.9	221.9	221.9	221.9	216.8	214.2	211.6	209.0	203.9	201.3
82.5°	356.1	356.1	356.1	356.1	351.0	345.8	343.2	338.1	332.9	325.2	317.4
80°	498.0	498.0	498.0	498.0	490.3	485.1	477.4	472.2	464.5	454.2	443.9
77.5°	660.6	660.6	660.6	652.9	647.7	640.0	632.2	621.9	611.6	598.7	583.2
75°	843.8	843.8	843.8	833.5	825.8	818.0	805.1	792.2	776.8	758.7	738.0
72.5°	1042.5	1042.5	1042.5	1029.6	1021.9	1009.0	993.5	975.5	957.4	934.2	908.4
70°	1256.7	1256.7	1256.7	1241.3	1228.4	1215.4	1194.8	1174.2	1148.4	1122.5	1091.6
67.5°	1489.0	1489.0	1489.0	1470.9	1455.4	1437.4	1414.2	1388.3	1357.4	1321.3	1285.1
65°	1759.9	1759.9	1749.6	1734.1	1716.1	1690.3	1661.9	1625.8	1587.0	1540.6	1491.6
62.5°	2079.9	2079.9	2064.5	2046.4	2023.2	1989.6	1950.9	1904.5	1850.3	1790.9	1731.6
60°	2451.5	2451.5	2433.5	2410.3	2376.7	2335.4	2283.8	2224.5	2157.4	2082.5	2010.3
57.5°	2879.9	2879.9	2856.7	2825.7	2784.4	2732.8	2668.3	2593.5	2508.3	2415.4	2325.1
55°	3344.4	3344.4	3316.0	3279.9	3230.9	3168.9	3091.5	3003.8	2900.6	2794.8	2678.6
52.5°	3837.3	3837.3	3803.8	3762.5	3705.7	3633.4	3545.7	3442.5	3323.8	3199.9	3063.1
50°	4356.0	4356.0	4317.3	4270.8	4206.3	4121.2	4020.5	3901.8	3770.2	3625.7	3468.3
47.5°	4910.8	4910.8	4867.0	4812.8	4735.3	4637.3	4518.6	4381.8	4232.1	4069.6	3891.5
45°	5481.1	5481.1	5432.1	5370.2	5285.0	5174.0	5042.4	4910.8	4719.9	4531.5	4325.0
42.5°	6074.7	6074.7	6017.9	5948.2	5850.1	5728.9	5579.2	5408.9	5220.5	5008.9	4784.4
40°	6691.4	6691.4	6626.9	6546.9	6438.5	6299.2	6131.4	5940.5	5728.9	5494.0	5246.3
37.5°	7321.1	7321.1	7248.8	7161.1	7039.8	6885.0	6696.6	6485.0	6247.6	5986.9	5713.4
35°	7955.9	7955.9	7875.9	7780.4	7646.2	7475.9	7272.0	7037.2	6774.0	6490.1	6183.0
32.5°	8603.6	8603.6	8515.9	8407.5	8255.2	8066.9	7842.3	7586.9	7321.1	6990.8	6655.3
30°	9243.6	9243.6	9148.1	9029.4	8866.8	8660.4	8415.2	8134.0	7821.7	7483.6	7122.4
27.5°	9873.3	9847.4	9767.5	9641.0	9462.9	9243.6	8977.8	8673.3	8335.2	7963.6	7576.5
25°	10492.6	10464.2	10376.5	10237.1	10046.2	9806.2	9519.7	9194.6	8830.7	8438.5	8015.2
22.5°	11086.1	11055.2	10962.3	10812.6	10608.7	10348.1	10041.0	9692.6	9305.5	8884.9	8438.5
20°	11635.8	11602.2	11506.8	11349.3	11137.7	10861.6	10536.5	10162.3	9749.4	9305.5	8830.7
17.5°	12131.3	12097.7	11997.1	11834.5	11635.8	11328.7	10993.2	10598.4	10162.3	9692.6	9194.6
15°	12567.4	12531.2	12428.0	12265.4	12038.4	11749.3	11395.8	10993.2	10536.5	10041.0	9519.7
12.5°	12939.0	12902.8	12797.0	12634.5	12399.6	12110.6	11749.3	11328.7	10861.6	10348.1	9806.2
10°	13233.2	13197.0	13096.4	12941.6	12699.0	12399.6	12038.4	11635.8	11137.7	10608.7	10046.2
7.5°	13444.8	13411.2	13318.3	13163.5	12941.6	12634.5	12265.4	11834.5	11349.3	10812.6	10237.1
5°	13604.8	13566.0	13473.1	13318.3	13096.4	12797.0	12428.0	11997.1	11506.8	10962.3	10376.5
2.5°	13715.7	13669.3	13566.0	13411.2	13197.0	12902.8	12531.2	12097.7	11602.2	11055.2	10464.2
0°	13746.7	13715.7	13604.8	13444.8	13233.2	12939.0	12567.4	12131.3	11635.8	11086.1	10492.6

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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°	92.9	92.9	90.3	87.7	85.2	80.0	77.4	74.8	72.3	67.1	64.5
85°	196.1	191.0	185.8	180.6	172.9	167.7	160.0	154.8	147.1	139.4	131.6
82.5°	309.7	301.9	291.6	283.9	273.5	260.6	250.3	237.4	224.5	214.2	201.3
80°	433.5	420.6	407.7	394.8	379.3	363.9	348.4	332.9	314.8	296.8	278.7
77.5°	567.7	549.7	531.6	511.0	492.9	472.2	451.6	431.0	407.7	384.5	361.3
75°	717.4	694.2	668.4	642.6	619.3	591.0	562.6	534.2	503.2	474.8	443.9
72.5°	880.0	851.6	820.6	789.7	756.1	720.0	683.9	645.1	609.0	572.9	534.2
70°	1055.5	1021.9	983.2	944.5	903.2	859.3	815.5	769.0	722.6	676.1	629.7
67.5°	1243.8	1202.5	1156.1	1109.6	1058.0	1006.4	954.8	900.6	843.8	787.1	732.9
65°	1445.1	1393.5	1339.3	1280.0	1220.6	1161.3	1099.3	1034.8	970.3	903.2	843.8
62.5°	1669.6	1605.1	1535.4	1463.2	1396.1	1323.8	1256.7	1176.7	1099.3	1024.5	949.6
60°	1930.3	1845.1	1759.9	1669.6	1584.5	1491.6	1409.0	1321.3	1233.5	1148.4	1060.6
57.5°	2221.9	2113.5	2010.3	1901.9	1788.3	1685.1	1579.3	1473.5	1375.4	1274.8	1179.3
55°	2552.2	2420.6	2291.5	2157.4	2025.7	1896.7	1762.5	1643.8	1522.5	1409.0	1298.0
52.5°	2913.5	2763.8	2603.8	2451.5	2283.8	2123.8	1974.1	1824.5	1682.5	1545.8	1419.3
50°	3300.5	3125.1	2941.8	2756.0	2565.1	2376.7	2196.1	2020.6	1855.4	1695.4	1545.8
47.5°	3703.1	3504.4	3295.4	3083.8	2879.9	2650.2	2433.5	2234.8	2036.1	1855.4	1682.5
45°	4116.0	3891.5	3661.8	3421.8	3181.8	2934.1	2694.1	2451.5	2234.8	2020.6	1824.5
42.5°	4541.8	4288.9	4033.4	3767.6	3501.8	3230.9	2959.9	2694.1	2433.5	2196.1	1974.1
40°	4980.5	4701.8	4410.2	4121.2	3837.3	3527.6	3230.9	2934.1	2650.2	2376.7	2123.8
37.5°	5419.2	5114.7	4799.9	4474.7	4149.6	3837.3	3501.8	3181.8	2879.9	2565.1	2283.8
35°	5860.5	5525.0	5184.4	4830.8	4474.7	4121.2	3767.6	3421.8	3083.8	2756.0	2451.5
32.5°	6304.3	5937.9	5561.1	5184.4	4799.9	4410.2	4033.4	3661.8	3295.4	2941.8	2603.8
30°	6740.4	6343.0	5937.9	5525.0	5114.7	4701.8	4288.9	3891.5	3504.4	3125.1	2763.8
27.5°	7166.2	6740.4	6304.3	5860.5	5419.2	4980.5	4541.8	4116.0	3703.1	3300.5	2913.5
25°	7576.5	7122.4	6655.3	6183.0	5713.4	5246.3	4784.4	4325.0	3891.5	3468.3	3063.1
22.5°	7963.6	7483.6	6990.8	6490.1	5986.9	5494.0	5008.9	4531.5	4069.6	3625.7	3199.9
20°	8335.2	7821.7	7321.1	6774.0	6247.6	5728.9	5220.5	4719.9	4232.1	3770.2	3323.8
17.5°	8673.3	8134.0	7586.9	7037.2	6485.0	5940.5	5408.9	4910.8	4381.8	3901.8	3442.5
15°	8977.8	8415.2	7842.3	7272.0	6696.6	6131.4	5579.2	5042.4	4518.6	4020.5	3545.7
12.5°	9243.6	8660.4	8066.9	7475.9	6885.0	6299.2	5728.9	5174.0	4637.3	4121.2	3633.4
10°	9462.9	8866.8	8255.2	7646.2	7039.8	6438.5	5850.1	5285.0	4735.3	4206.3	3705.7
7.5°	9641.0	9029.4	8407.5	7780.4	7161.1	6546.9	5948.2	5370.2	4812.8	4270.8	3762.5
5°	9767.5	9148.1	8515.9	7875.9	7248.8	6626.9	6017.9	5432.1	4867.0	4317.3	3803.8
2.5°	9847.4	9243.6	8603.6	7955.9	7321.1	6691.4	6074.7	5481.1	4910.8	4356.0	3837.3
0°	9873.3	9243.6	8603.6	7955.9	7321.1	6691.4	6074.7	5481.1	4910.8	4356.0	3837.3

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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°	61.9	56.8	51.6	49.0	43.9	41.3	36.1	31.0	28.4	23.2	18.1
85°	123.9	113.5	105.8	98.1	90.3	80.0	72.3	64.5	54.2	46.5	36.1
82.5°	188.4	175.5	162.6	149.7	136.8	123.9	108.4	95.5	82.6	69.7	54.2
80°	260.6	240.0	221.9	203.9	185.8	167.7	147.1	129.0	108.4	90.3	72.3
77.5°	335.5	312.2	286.4	260.6	234.8	211.6	185.8	162.6	139.4	113.5	90.3
75°	415.5	384.5	356.1	322.6	291.6	258.1	227.1	196.1	167.7	139.4	108.4
72.5°	498.0	459.3	420.6	384.5	345.8	307.1	271.0	232.3	196.1	162.6	129.0
70°	583.2	536.8	490.3	446.4	402.6	356.1	314.8	271.0	227.1	185.8	147.1
67.5°	673.5	619.3	565.1	508.4	459.3	407.7	356.1	307.1	258.1	211.6	167.7
65°	771.6	707.1	640.0	580.6	516.1	459.3	402.6	345.8	291.6	234.8	185.8
62.5°	872.2	797.4	722.6	647.7	580.6	508.4	446.4	384.5	322.6	260.6	203.9
60°	975.5	890.3	805.1	722.6	640.0	565.1	490.3	420.6	356.1	286.4	221.9
57.5°	1081.3	985.8	890.3	797.4	707.1	619.3	536.8	459.3	384.5	312.2	240.0
55°	1189.6	1081.3	975.5	872.2	771.6	673.5	583.2	498.0	415.5	335.5	260.6
52.5°	1298.0	1179.3	1060.6	949.6	843.8	732.9	629.7	534.2	443.9	361.3	278.7
50°	1409.0	1274.8	1148.4	1024.5	903.2	787.1	676.1	572.9	474.8	384.5	296.8
47.5°	1522.5	1375.4	1233.5	1099.3	970.3	843.8	722.6	609.0	503.2	407.7	314.8
45°	1643.8	1473.5	1321.3	1176.7	1034.8	900.6	769.0	645.1	534.2	431.0	332.9
42.5°	1762.5	1579.3	1409.0	1256.7	1099.3	954.8	815.5	683.9	562.6	451.6	348.4
40°	1896.7	1685.1	1491.6	1323.8	1161.3	1006.4	859.3	720.0	591.0	472.2	363.9
37.5°	2025.7	1788.3	1584.5	1396.1	1220.6	1058.0	903.2	756.1	619.3	492.9	379.3
35°	2157.4	1901.9	1669.6	1463.2	1280.0	1109.6	944.5	789.7	642.6	511.0	394.8
32.5°	2291.5	2010.3	1759.9	1535.4	1339.3	1156.1	983.2	820.6	668.4	531.6	407.7
30°	2420.6	2113.5	1845.1	1605.1	1393.5	1202.5	1021.9	851.6	694.2	549.7	420.6
27.5°	2552.2	2221.9	1930.3	1669.6	1445.1	1243.8	1055.5	880.0	717.4	567.7	433.5
25°	2678.6	2325.1	2010.3	1731.6	1491.6	1285.1	1091.6	908.4	738.0	583.2	443.9
22.5°	2794.8	2415.4	2082.5	1790.9	1540.6	1321.3	1122.5	934.2	758.7	598.7	454.2
20°	2900.6	2508.3	2157.4	1850.3	1587.0	1357.4	1148.4	957.4	776.8	611.6	464.5
17.5°	3003.8	2593.5	2224.5	1904.5	1625.8	1388.3	1174.2	975.5	792.2	621.9	472.2
15°	3091.5	2668.3	2283.8	1950.9	1661.9	1414.2	1194.8	993.5	805.1	632.2	477.4
12.5°	3168.9	2732.8	2335.4	1989.6	1690.3	1437.4	1215.4	1009.0	818.0	640.0	485.1
10°	3230.9	2784.4	2376.7	2023.2	1716.1	1455.4	1228.4	1021.9	825.8	647.7	490.3
7.5°	3279.9	2825.7	2410.3	2046.4	1734.1	1470.9	1241.3	1029.6	833.5	652.9	498.0
5°	3316.0	2856.7	2433.5	2064.5	1749.6	1489.0	1256.7	1042.5	843.8	660.6	498.0
2.5°	3344.4	2879.9	2451.5	2079.9	1759.9	1489.0	1256.7	1042.5	843.8	660.6	498.0
0°	3344.4	2879.9	2451.5	2079.9	1759.9	1489.0	1256.7	1042.5	843.8	660.6	498.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.9	10.3	5.2	0.0
85°	28.4	18.1	10.3	0.0
82.5°	41.3	28.4	12.9	0.0
80°	54.2	36.1	18.1	0.0
77.5°	69.7	46.5	23.2	0.0
75°	82.6	54.2	28.4	0.0
72.5°	95.5	64.5	31.0	0.0
70°	108.4	72.3	36.1	0.0
67.5°	123.9	80.0	41.3	0.0
65°	136.8	90.3	43.9	0.0
62.5°	149.7	98.1	49.0	0.0
60°	162.6	105.8	51.6	0.0
57.5°	175.5	113.5	56.8	0.0
55°	188.4	123.9	61.9	0.0
52.5°	201.3	131.6	64.5	0.0
50°	214.2	139.4	67.1	0.0
47.5°	224.5	147.1	72.3	0.0
45°	237.4	154.8	74.8	0.0
42.5°	250.3	160.0	77.4	0.0
40°	260.6	167.7	80.0	0.0
37.5°	273.5	172.9	85.2	0.0
35°	283.9	180.6	87.7	0.0
32.5°	291.6	185.8	90.3	0.0
30°	301.9	191.0	92.9	0.0
27.5°	309.7	196.1	92.9	0.0
25°	317.4	201.3	95.5	0.0
22.5°	325.2	203.9	98.1	0.0
20°	332.9	209.0	100.6	0.0
17.5°	338.1	211.6	100.6	0.0
15°	343.2	214.2	105.8	0.0
12.5°	345.8	216.8	105.8	0.0
10°	351.0	221.9	105.8	0.0
7.5°	356.1	221.9	105.8	0.0
5°	356.1	221.9	105.8	0.0
2.5°	356.1	221.9	105.8	0.0
0°	356.1	221.9	105.8	0.0

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