

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: P624507

Luminaire Tested: **IFLD-S-SA6C-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624507
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

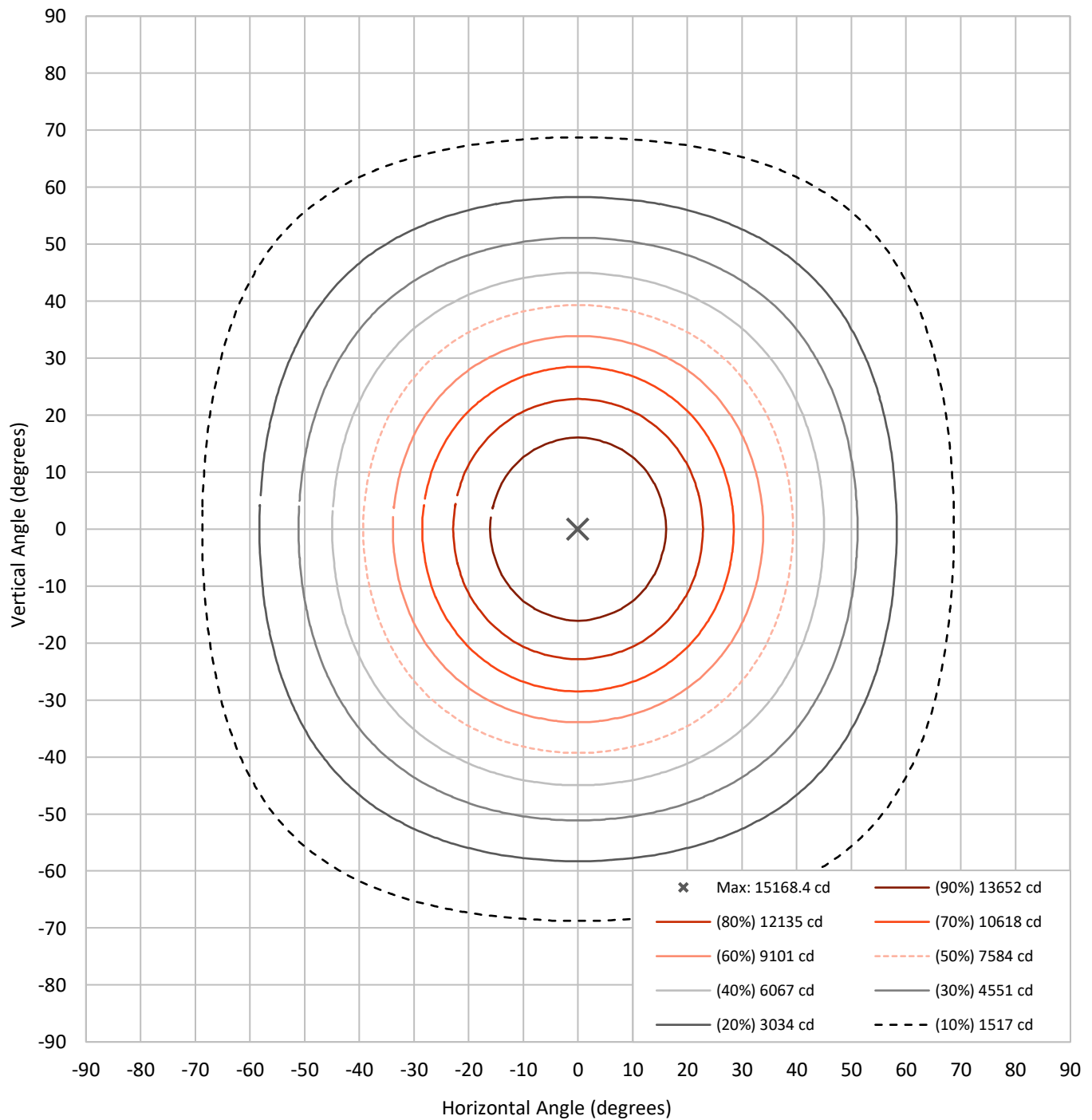
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27311.1 lumens	Max Intensity:	15168.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	84.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	11817.2 lumens	Field Lumens:	19350.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
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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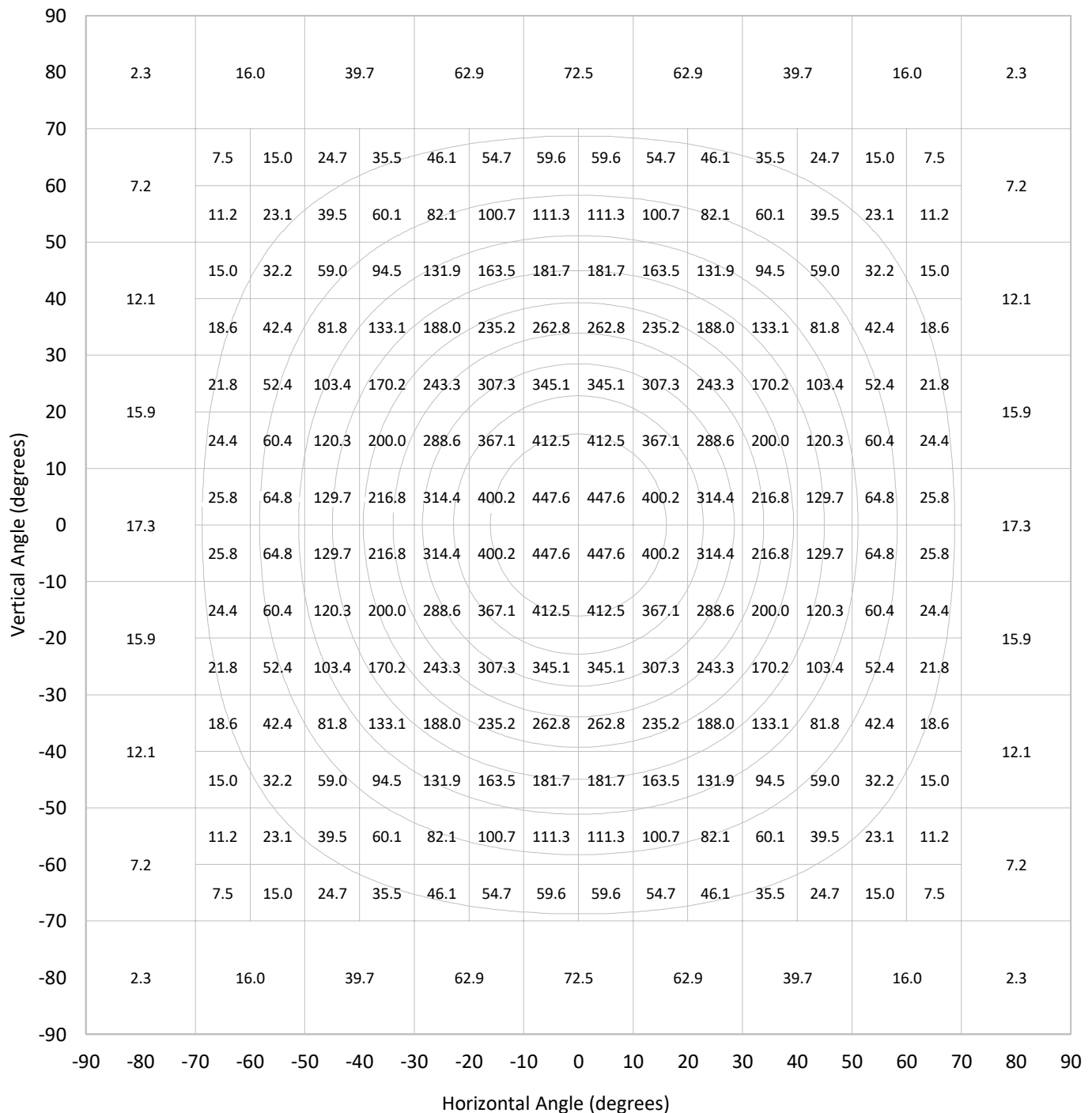
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Iso-Candela Plot



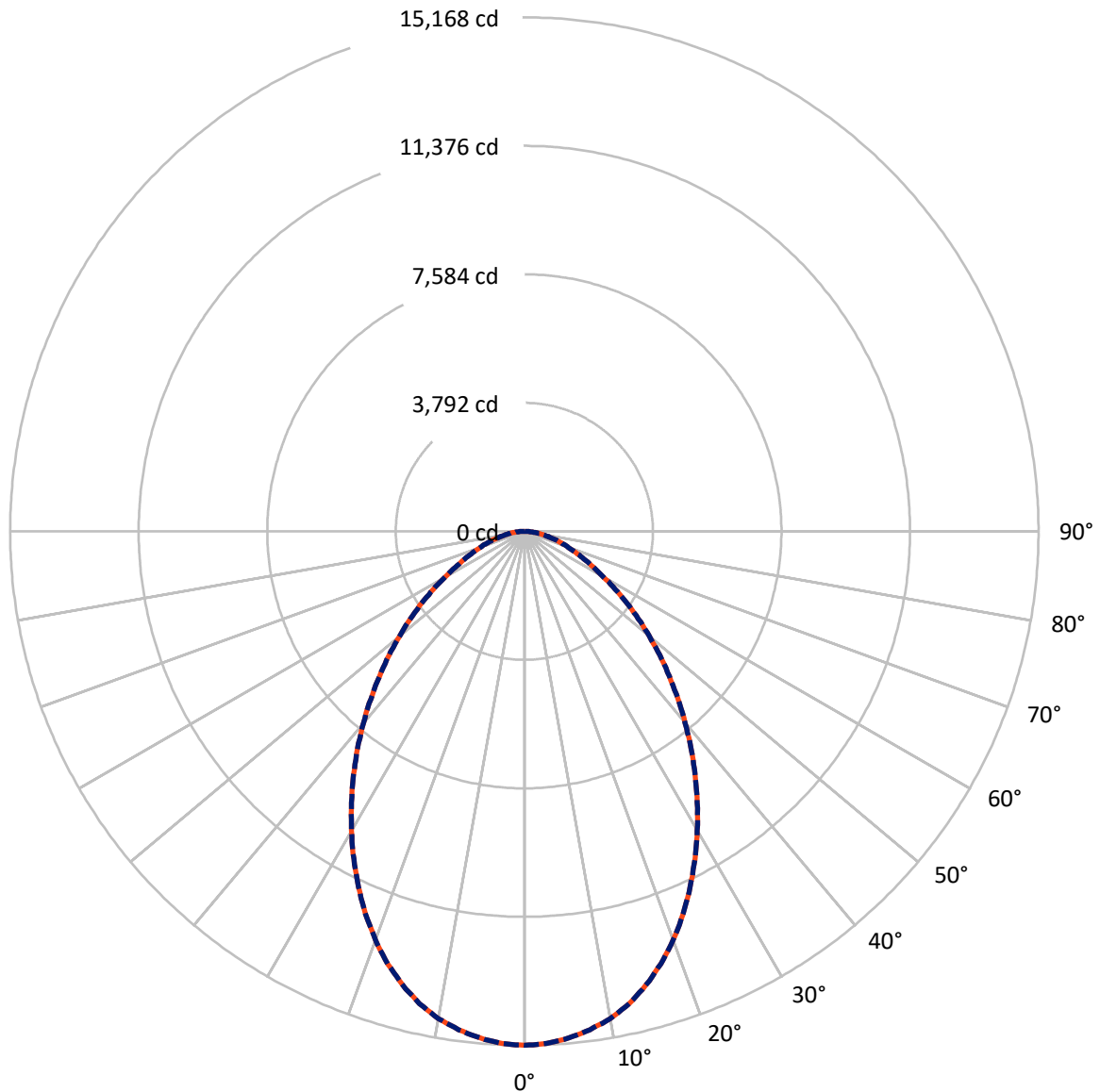
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Lumen Table



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Luminous Intensity Polar Plot

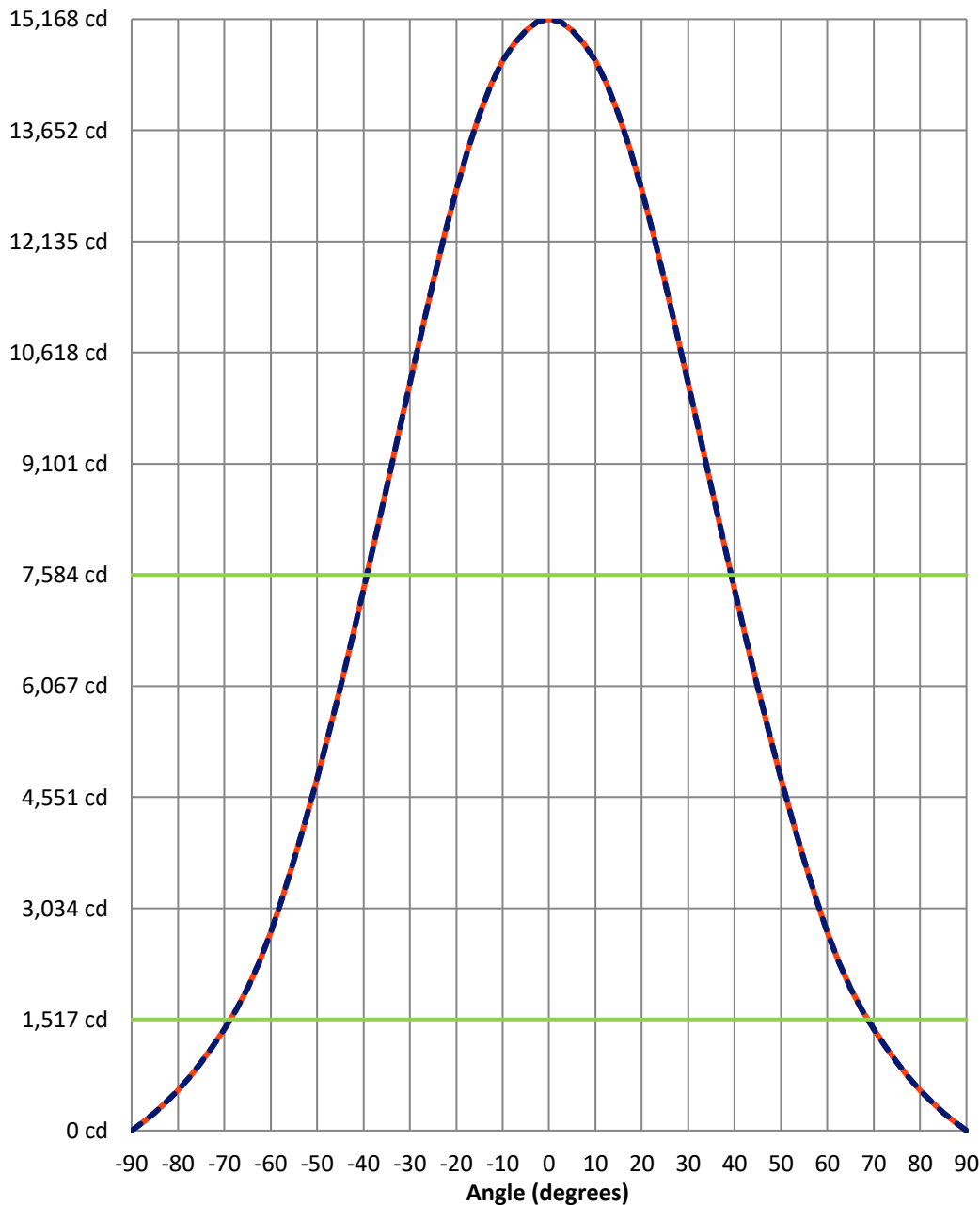


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11817.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 19350.3
Efficiency: 70.9%

Spill:

Lumens: 7960.8
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°	116.7	116.7	116.7	116.7	116.7	116.7	116.7	111.1	111.1	108.2	105.4
85°	244.9	244.9	244.9	244.9	244.9	239.2	236.3	233.5	230.6	224.9	222.1
82.5°	392.9	392.9	392.9	392.9	387.3	381.6	378.7	373.0	367.3	358.8	350.2
80°	549.6	549.6	549.6	549.6	541.0	535.3	526.8	521.1	512.5	501.2	489.8
77.5°	729.0	729.0	729.0	720.4	714.7	706.2	697.6	686.2	674.8	660.6	643.5
75°	931.1	931.1	931.1	919.7	911.2	902.6	888.4	874.2	857.1	837.2	814.4
72.5°	1150.4	1150.4	1150.4	1136.1	1127.6	1113.4	1096.3	1076.3	1056.4	1030.8	1002.3
70°	1386.7	1386.7	1386.7	1369.6	1355.4	1341.2	1318.4	1295.6	1267.1	1238.6	1204.5
67.5°	1643.0	1643.0	1643.0	1623.1	1606.0	1586.0	1560.4	1531.9	1497.8	1457.9	1418.0
65°	1942.0	1942.0	1930.6	1913.5	1893.6	1865.1	1833.8	1793.9	1751.2	1699.9	1645.8
62.5°	2295.1	2295.1	2278.0	2258.0	2232.4	2195.4	2152.7	2101.4	2041.6	1976.1	1910.6
60°	2705.1	2705.1	2685.2	2659.5	2622.5	2577.0	2520.0	2454.5	2380.5	2297.9	2218.2
57.5°	3177.8	3177.8	3152.1	3118.0	3072.4	3015.5	2944.3	2861.7	2767.7	2665.2	2565.6
55°	3690.3	3690.3	3659.0	3619.1	3565.0	3496.7	3411.3	3314.4	3200.5	3083.8	2955.7
52.5°	4234.2	4234.2	4197.2	4151.6	4089.0	4009.2	3912.4	3798.5	3667.5	3530.9	3379.9
50°	4806.5	4806.5	4763.8	4712.6	4641.4	4547.4	4436.3	4305.4	4160.1	4000.7	3827.0
47.5°	5418.7	5418.7	5370.3	5310.5	5225.1	5116.9	4985.9	4835.0	4669.8	4490.4	4294.0
45°	6048.0	6048.0	5993.9	5925.6	5831.6	5709.2	5563.9	5418.7	5208.0	5000.1	4772.3
42.5°	6702.9	6702.9	6640.3	6563.4	6455.2	6321.4	6156.2	5968.3	5760.4	5526.9	5279.2
40°	7383.5	7383.5	7312.3	7224.0	7104.4	6950.7	6765.6	6554.9	6321.4	6062.2	5788.9
37.5°	8078.3	8078.3	7998.5	7901.7	7767.9	7597.0	7389.2	7155.7	6893.7	6606.1	6304.3
35°	8778.7	8778.7	8690.5	8585.1	8437.0	8249.1	8024.1	7765.0	7474.6	7161.4	6822.5
32.5°	9493.4	9493.4	9396.6	9277.0	9109.0	8901.2	8653.4	8371.5	8078.3	7713.8	7343.6
30°	10199.6	10199.6	10094.3	9963.3	9783.9	9556.1	9285.6	8975.2	8630.7	8257.6	7859.0
27.5°	10894.4	10865.9	10777.6	10638.1	10441.6	10199.6	9906.3	9570.3	9197.3	8787.3	8360.2
25°	11577.8	11546.5	11449.6	11295.9	11085.2	10820.4	10504.3	10145.5	9744.0	9311.2	8844.2
22.5°	12232.7	12198.5	12096.0	11930.9	11705.9	11418.3	11079.5	10695.1	10267.9	9803.8	9311.2
20°	12839.2	12802.2	12696.8	12523.1	12289.6	11985.0	11626.2	11213.3	10757.7	10267.9	9744.0
17.5°	13385.9	13348.9	13237.9	13058.5	12839.2	12500.4	12130.2	11694.5	11213.3	10695.1	10145.5
15°	13867.1	13827.3	13713.4	13534.0	13283.4	12964.5	12574.4	12130.2	11626.2	11079.5	10504.3
12.5°	14277.2	14237.3	14120.6	13941.2	13682.1	13363.1	12964.5	12500.4	11985.0	11418.3	10820.4
10°	14601.8	14561.9	14450.9	14280.0	14012.4	13682.1	13283.4	12839.2	12289.6	11705.9	11085.2
7.5°	14835.3	14798.3	14695.8	14524.9	14280.0	13941.2	13534.0	13058.5	12523.1	11930.9	11295.9
5°	15011.8	14969.1	14866.6	14695.8	14450.9	14120.6	13713.4	13237.9	12696.8	12096.0	11449.6
2.5°	15134.3	15083.0	14969.1	14798.3	14561.9	14237.3	13827.3	13348.9	12802.2	12198.5	11546.5
0°	15168.4	15134.3	15011.8	14835.3	14601.8	14277.2	13867.1	13385.9	12839.2	12232.7	11577.8

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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°	102.5	102.5	99.7	96.8	94.0	88.3	85.4	82.6	79.7	74.0	71.2
85°	216.4	210.7	205.0	199.3	190.8	185.1	176.5	170.8	162.3	153.8	145.2
82.5°	341.7	333.2	321.8	313.2	301.8	287.6	276.2	262.0	247.7	236.3	222.1
80°	478.4	464.1	449.9	435.7	418.6	401.5	384.4	367.3	347.4	327.5	307.5
77.5°	626.4	606.5	586.6	563.8	543.9	521.1	498.3	475.5	449.9	424.3	398.6
75°	791.6	766.0	737.5	709.0	683.4	652.1	620.7	589.4	555.3	523.9	489.8
72.5°	971.0	939.7	905.5	871.3	834.3	794.4	754.6	711.9	672.0	632.1	589.4
70°	1164.6	1127.6	1084.9	1042.2	996.6	948.2	899.8	848.5	797.3	746.0	694.8
67.5°	1372.5	1326.9	1275.7	1224.4	1167.5	1110.5	1053.6	993.8	931.1	868.5	808.7
65°	1594.6	1537.6	1477.8	1412.3	1346.8	1281.4	1213.0	1141.8	1070.6	996.6	931.1
62.5°	1842.3	1771.1	1694.2	1614.5	1540.5	1460.7	1386.7	1298.4	1213.0	1130.4	1047.9
60°	2129.9	2035.9	1942.0	1842.3	1748.3	1645.8	1554.7	1457.9	1361.1	1267.1	1170.3
57.5°	2451.7	2332.1	2218.2	2098.6	1973.3	1859.4	1742.6	1625.9	1517.7	1406.6	1301.3
55°	2816.1	2670.9	2528.5	2380.5	2235.3	2092.9	1944.8	1813.8	1680.0	1554.7	1432.3
52.5°	3214.8	3049.6	2873.1	2705.1	2520.0	2343.5	2178.3	2013.2	1856.5	1705.6	1566.1
50°	3641.9	3448.3	3246.1	3041.1	2830.4	2622.5	2423.2	2229.6	2047.3	1870.8	1705.6
47.5°	4086.1	3866.9	3636.2	3402.7	3177.8	2924.3	2685.2	2465.9	2246.6	2047.3	1856.5
45°	4541.7	4294.0	4040.5	3775.7	3510.9	3237.6	2972.8	2705.1	2465.9	2229.6	2013.2
42.5°	5011.5	4732.5	4450.6	4157.3	3864.0	3565.0	3266.0	2972.8	2685.2	2423.2	2178.3
40°	5495.6	5188.1	4866.3	4547.4	4234.2	3892.5	3565.0	3237.6	2924.3	2622.5	2343.5
37.5°	5979.7	5643.7	5296.3	4937.5	4578.7	4234.2	3864.0	3510.9	3177.8	2830.4	2520.0
35°	6466.6	6096.4	5720.6	5330.4	4937.5	4547.4	4157.3	3775.7	3402.7	3041.1	2705.1
32.5°	6956.4	6552.0	6136.3	5720.6	5296.3	4866.3	4450.6	4040.5	3636.2	3246.1	2873.1
30°	7437.6	6999.1	6552.0	6096.4	5643.7	5188.1	4732.5	4294.0	3866.9	3448.3	3049.6
27.5°	7907.4	7437.6	6956.4	6466.6	5979.7	5495.6	5011.5	4541.7	4086.1	3641.9	3214.8
25°	8360.2	7859.0	7343.6	6822.5	6304.3	5788.9	5279.2	4772.3	4294.0	3827.0	3379.9
22.5°	8787.3	8257.6	7713.8	7161.4	6606.1	6062.2	5526.9	5000.1	4490.4	4000.7	3530.9
20°	9197.3	8630.7	8078.3	7474.6	6893.7	6321.4	5760.4	5208.0	4669.8	4160.1	3667.5
17.5°	9570.3	8975.2	8371.5	7765.0	7155.7	6554.9	5968.3	5418.7	4835.0	4305.4	3798.5
15°	9906.3	9285.6	8653.4	8024.1	7389.2	6765.6	6156.2	5563.9	4985.9	4436.3	3912.4
12.5°	10199.6	9556.1	8901.2	8249.1	7597.0	6950.7	6321.4	5709.2	5116.9	4547.4	4009.2
10°	10441.6	9783.9	9109.0	8437.0	7767.9	7104.4	6455.2	5831.6	5225.1	4641.4	4089.0
7.5°	10638.1	9963.3	9277.0	8585.1	7901.7	7224.0	6563.4	5925.6	5310.5	4712.6	4151.6
5°	10777.6	10094.3	9396.6	8690.5	7998.5	7312.3	6640.3	5993.9	5370.3	4763.8	4197.2
2.5°	10865.9	10199.6	9493.4	8778.7	8078.3	7383.5	6702.9	6048.0	5418.7	4806.5	4234.2
0°	10894.4	10199.6	9493.4	8778.7	8078.3	7383.5	6702.9	6048.0	5418.7	4806.5	4234.2

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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°	68.3	62.6	56.9	54.1	48.4	45.6	39.9	34.2	31.3	25.6	19.9
85°	136.7	125.3	116.7	108.2	99.7	88.3	79.7	71.2	59.8	51.3	39.9
82.5°	207.9	193.6	179.4	165.2	150.9	136.7	119.6	105.4	91.1	76.9	59.8
80°	287.6	264.8	244.9	224.9	205.0	185.1	162.3	142.4	119.6	99.7	79.7
77.5°	370.2	344.5	316.1	287.6	259.1	233.5	205.0	179.4	153.8	125.3	99.7
75°	458.4	424.3	392.9	355.9	321.8	284.7	250.6	216.4	185.1	153.8	119.6
72.5°	549.6	506.8	464.1	424.3	381.6	338.8	299.0	256.3	216.4	179.4	142.4
70°	643.5	592.3	541.0	492.6	444.2	392.9	347.4	299.0	250.6	205.0	162.3
67.5°	743.2	683.4	623.6	561.0	506.8	449.9	392.9	338.8	284.7	233.5	185.1
65°	851.4	780.2	706.2	640.7	569.5	506.8	444.2	381.6	321.8	259.1	205.0
62.5°	962.4	879.9	797.3	714.7	640.7	561.0	492.6	424.3	355.9	287.6	224.9
60°	1076.3	982.4	888.4	797.3	706.2	623.6	541.0	464.1	392.9	316.1	244.9
57.5°	1193.1	1087.7	982.4	879.9	780.2	683.4	592.3	506.8	424.3	344.5	264.8
55°	1312.7	1193.1	1076.3	962.4	851.4	743.2	643.5	549.6	458.4	370.2	287.6
52.5°	1432.3	1301.3	1170.3	1047.9	931.1	808.7	694.8	589.4	489.8	398.6	307.5
50°	1554.7	1406.6	1267.1	1130.4	996.6	868.5	746.0	632.1	523.9	424.3	327.5
47.5°	1680.0	1517.7	1361.1	1213.0	1070.6	931.1	797.3	672.0	555.3	449.9	347.4
45°	1813.8	1625.9	1457.9	1298.4	1141.8	993.8	848.5	711.9	589.4	475.5	367.3
42.5°	1944.8	1742.6	1554.7	1386.7	1213.0	1053.6	899.8	754.6	620.7	498.3	384.4
40°	2092.9	1859.4	1645.8	1460.7	1281.4	1110.5	948.2	794.4	652.1	521.1	401.5
37.5°	2235.3	1973.3	1748.3	1540.5	1346.8	1167.5	996.6	834.3	683.4	543.9	418.6
35°	2380.5	2098.6	1842.3	1614.5	1412.3	1224.4	1042.2	871.3	709.0	563.8	435.7
32.5°	2528.5	2218.2	1942.0	1694.2	1477.8	1275.7	1084.9	905.5	737.5	586.6	449.9
30°	2670.9	2332.1	2035.9	1771.1	1537.6	1326.9	1127.6	939.7	766.0	606.5	464.1
27.5°	2816.1	2451.7	2129.9	1842.3	1594.6	1372.5	1164.6	971.0	791.6	626.4	478.4
25°	2955.7	2565.6	2218.2	1910.6	1645.8	1418.0	1204.5	1002.3	814.4	643.5	489.8
22.5°	3083.8	2665.2	2297.9	1976.1	1699.9	1457.9	1238.6	1030.8	837.2	660.6	501.2
20°	3200.5	2767.7	2380.5	2041.6	1751.2	1497.8	1267.1	1056.4	857.1	674.8	512.5
17.5°	3314.4	2861.7	2454.5	2101.4	1793.9	1531.9	1295.6	1076.3	874.2	686.2	521.1
15°	3411.3	2944.3	2520.0	2152.7	1833.8	1560.4	1318.4	1096.3	888.4	697.6	526.8
12.5°	3496.7	3015.5	2577.0	2195.4	1865.1	1586.0	1341.2	1113.4	902.6	706.2	535.3
10°	3565.0	3072.4	2622.5	2232.4	1893.6	1606.0	1355.4	1127.6	911.2	714.7	541.0
7.5°	3619.1	3118.0	2659.5	2258.0	1913.5	1623.1	1369.6	1136.1	919.7	720.4	549.6
5°	3659.0	3152.1	2685.2	2278.0	1930.6	1643.0	1386.7	1150.4	931.1	729.0	549.6
2.5°	3690.3	3177.8	2705.1	2295.1	1942.0	1643.0	1386.7	1150.4	931.1	729.0	549.6
0°	3690.3	3177.8	2705.1	2295.1	1942.0	1643.0	1386.7	1150.4	931.1	729.0	549.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.2	11.4	5.7	0.0
85°	31.3	19.9	11.4	0.0
82.5°	45.6	31.3	14.2	0.0
80°	59.8	39.9	19.9	0.0
77.5°	76.9	51.3	25.6	0.0
75°	91.1	59.8	31.3	0.0
72.5°	105.4	71.2	34.2	0.0
70°	119.6	79.7	39.9	0.0
67.5°	136.7	88.3	45.6	0.0
65°	150.9	99.7	48.4	0.0
62.5°	165.2	108.2	54.1	0.0
60°	179.4	116.7	56.9	0.0
57.5°	193.6	125.3	62.6	0.0
55°	207.9	136.7	68.3	0.0
52.5°	222.1	145.2	71.2	0.0
50°	236.3	153.8	74.0	0.0
47.5°	247.7	162.3	79.7	0.0
45°	262.0	170.8	82.6	0.0
42.5°	276.2	176.5	85.4	0.0
40°	287.6	185.1	88.3	0.0
37.5°	301.8	190.8	94.0	0.0
35°	313.2	199.3	96.8	0.0
32.5°	321.8	205.0	99.7	0.0
30°	333.2	210.7	102.5	0.0
27.5°	341.7	216.4	102.5	0.0
25°	350.2	222.1	105.4	0.0
22.5°	358.8	224.9	108.2	0.0
20°	367.3	230.6	111.1	0.0
17.5°	373.0	233.5	111.1	0.0
15°	378.7	236.3	116.7	0.0
12.5°	381.6	239.2	116.7	0.0
10°	387.3	244.9	116.7	0.0
7.5°	392.9	244.9	116.7	0.0
5°	392.9	244.9	116.7	0.0
2.5°	392.9	244.9	116.7	0.0
0°	392.9	244.9	116.7	0.0

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