

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: P624053

Luminaire Tested: **IFLD-S-SA6A-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624053
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

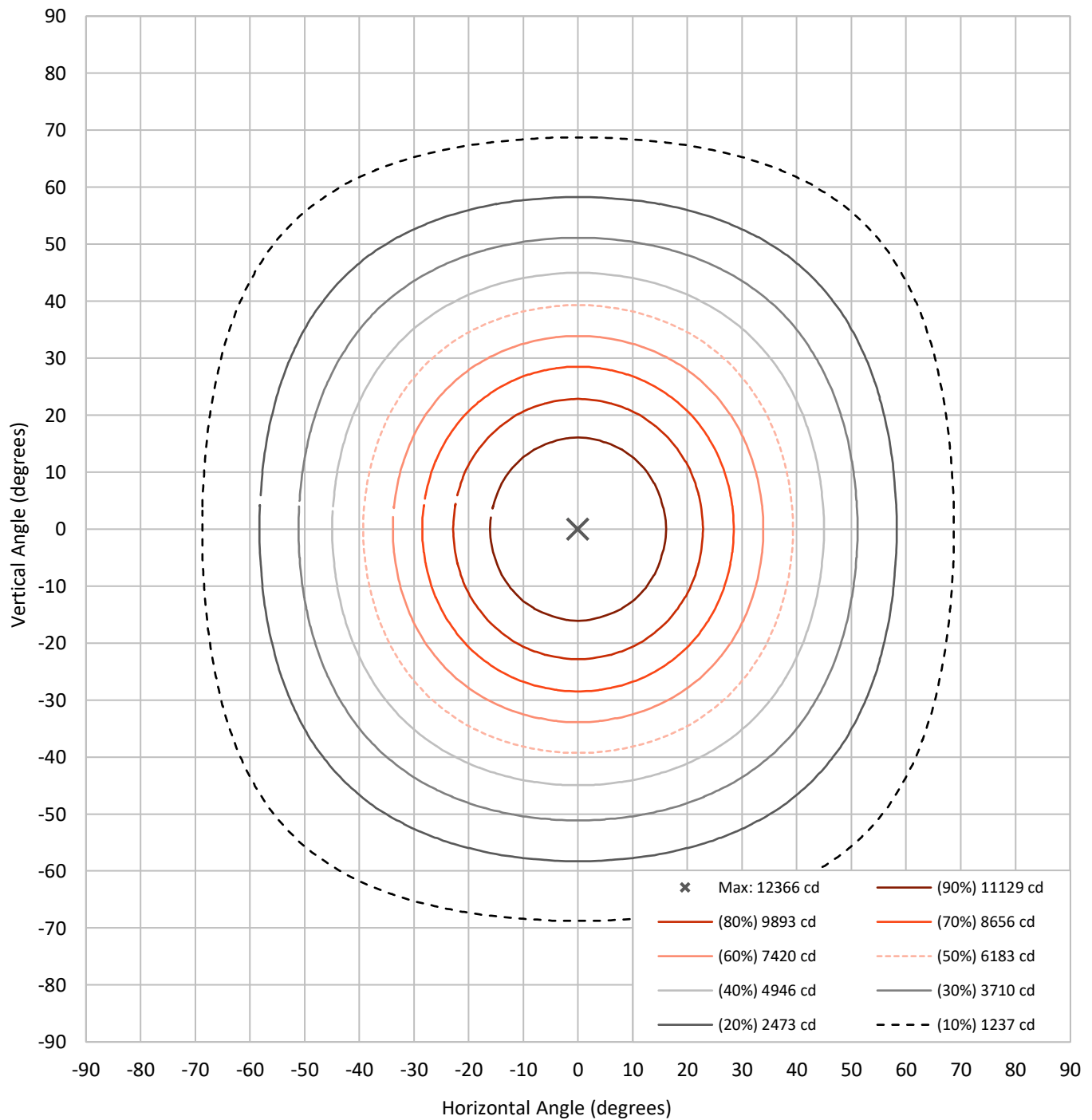
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22265.2 lumens	Max Intensity:	12366 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	117.4 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:	9634 lumens	Field Lumens:	15775.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	189.6		
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		



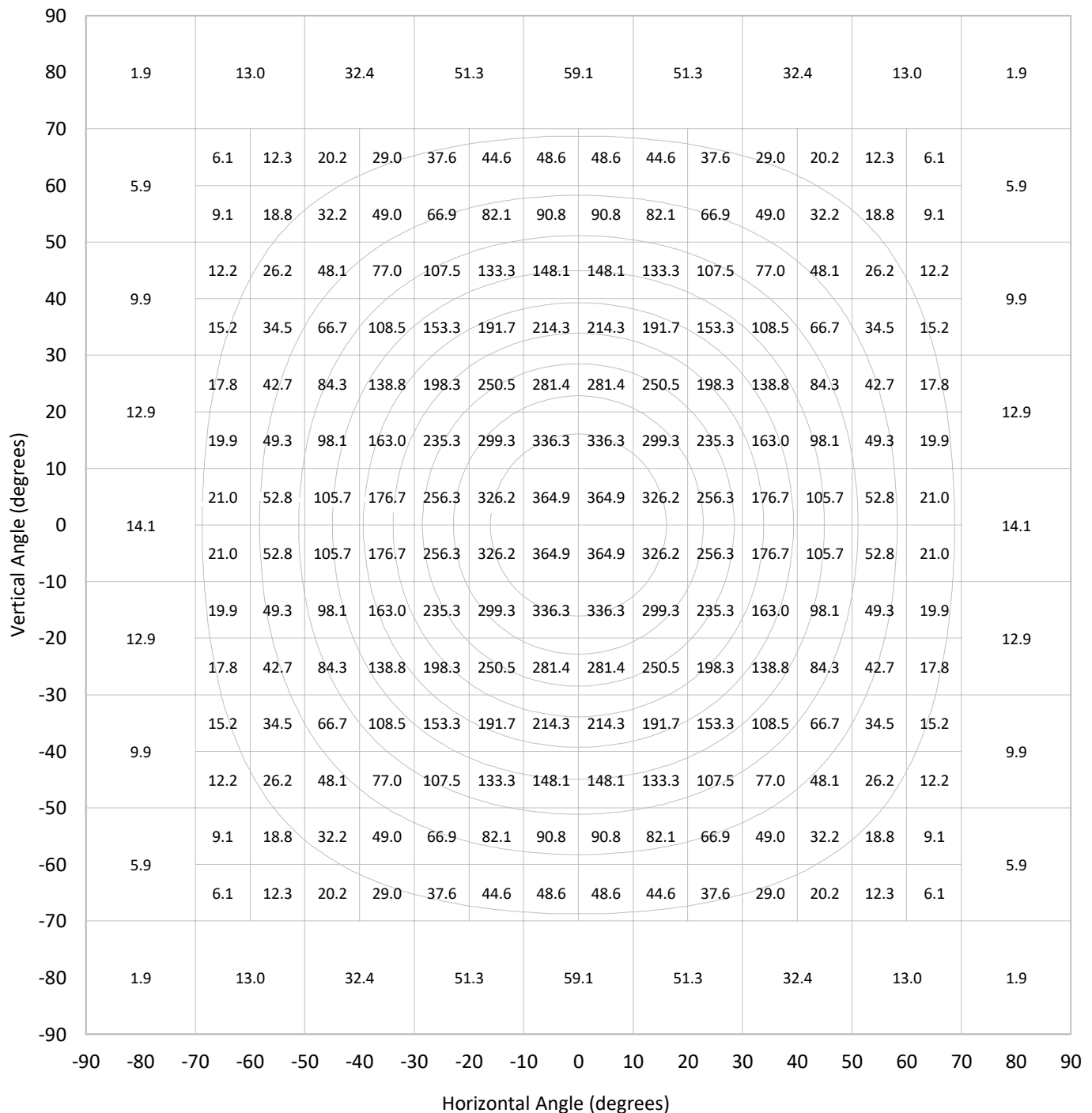
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Iso-Candela Plot



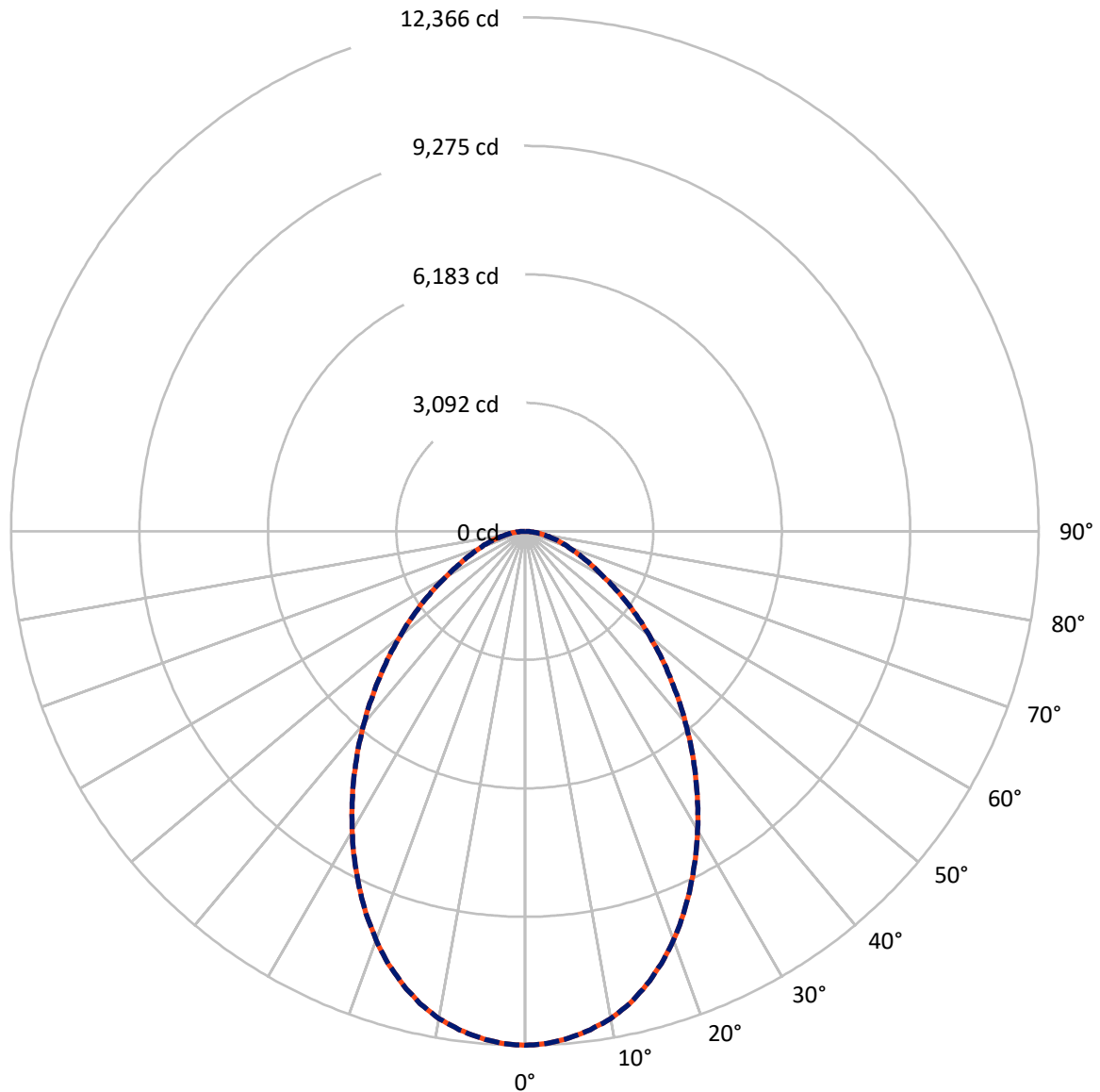
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Lumen Table



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Luminous Intensity Polar Plot

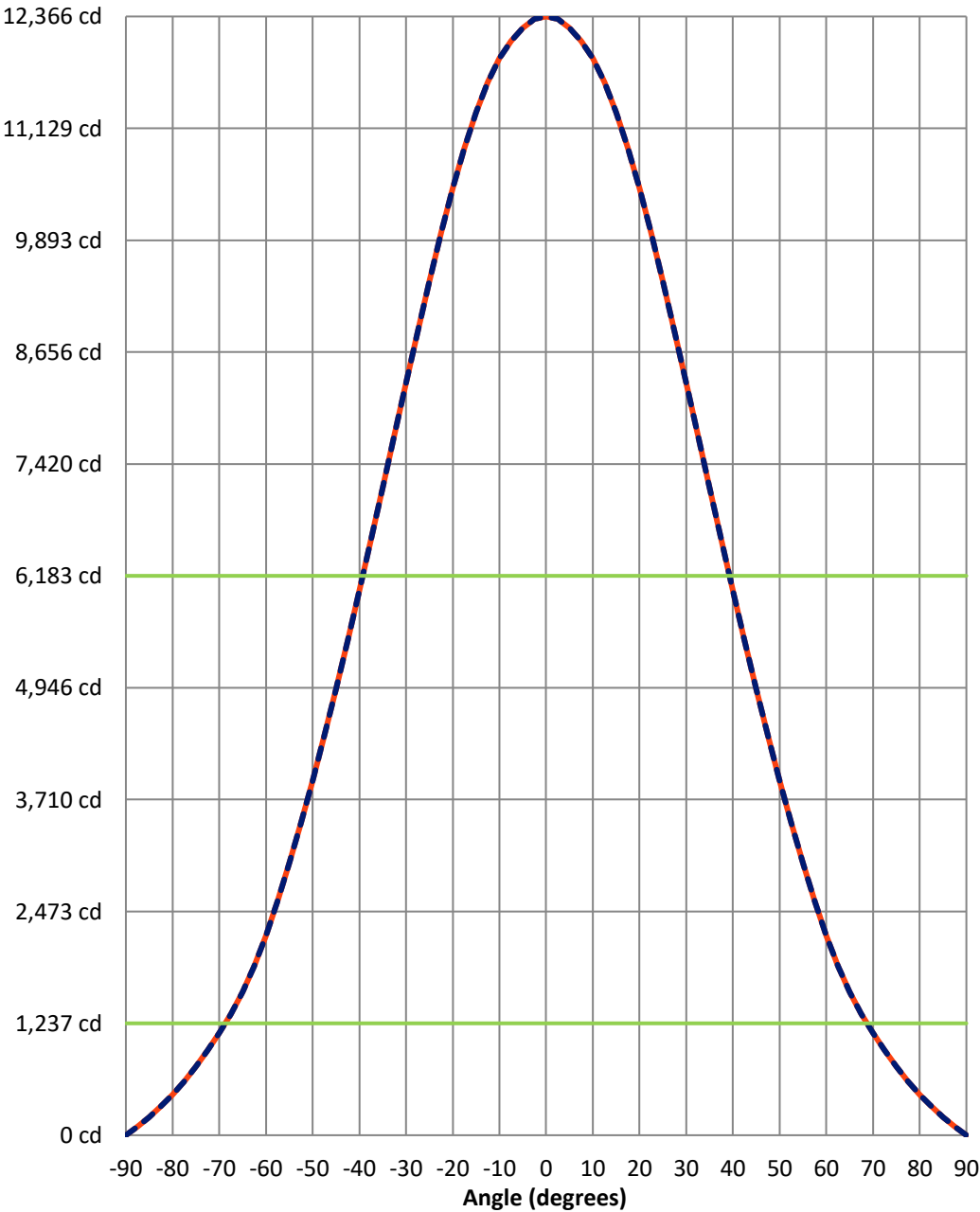


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 9634
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 15775.3
Efficiency: 70.9%

Spill:
Lumens: 6490
Efficiency: 29.1%

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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°	95.2	95.2	95.2	95.2	95.2	95.2	95.2	90.5	90.5	88.2	85.9
85°	199.6	199.6	199.6	199.6	199.6	195.0	192.7	190.4	188.0	183.4	181.1
82.5°	320.4	320.4	320.4	320.4	315.7	311.1	308.7	304.1	299.5	292.5	285.5
80°	448.0	448.0	448.0	448.0	441.1	436.4	429.5	424.8	417.8	408.6	399.3
77.5°	594.3	594.3	594.3	587.3	582.7	575.7	568.7	559.5	550.2	538.6	524.6
75°	759.1	759.1	759.1	749.8	742.8	735.9	724.3	712.7	698.7	682.5	663.9
72.5°	937.8	937.8	937.8	926.2	919.3	907.7	893.7	877.5	861.2	840.3	817.1
70°	1130.5	1130.5	1130.5	1116.6	1105.0	1093.4	1074.8	1056.2	1033.0	1009.8	981.9
67.5°	1339.4	1339.4	1339.4	1323.2	1309.3	1293.0	1272.1	1248.9	1221.0	1188.5	1156.0
65°	1583.2	1583.2	1573.9	1560.0	1543.7	1520.5	1495.0	1462.5	1427.6	1385.9	1341.8
62.5°	1871.0	1871.0	1857.1	1840.9	1820.0	1789.8	1755.0	1713.2	1664.4	1611.0	1557.6
60°	2205.3	2205.3	2189.1	2168.2	2138.0	2100.8	2054.4	2001.0	1940.7	1873.4	1808.4
57.5°	2590.7	2590.7	2569.8	2541.9	2504.8	2458.3	2400.3	2333.0	2256.4	2172.8	2091.6
55°	3008.5	3008.5	2983.0	2950.5	2906.4	2850.7	2781.0	2702.1	2609.2	2514.1	2409.6
52.5°	3451.9	3451.9	3421.7	3384.6	3333.5	3268.5	3189.6	3096.7	2989.9	2878.5	2755.5
50°	3918.5	3918.5	3883.7	3841.9	3783.8	3707.2	3616.7	3509.9	3391.5	3261.5	3119.9
47.5°	4417.6	4417.6	4378.1	4329.4	4259.7	4171.5	4064.7	3941.7	3807.1	3660.8	3500.6
45°	4930.6	4930.6	4886.5	4830.8	4754.2	4654.4	4536.0	4417.6	4245.8	4076.3	3890.6
42.5°	5464.5	5464.5	5413.5	5350.8	5262.6	5153.5	5018.8	4865.6	4696.2	4505.8	4303.8
40°	6019.3	6019.3	5961.3	5889.3	5791.8	5666.5	5515.6	5343.8	5153.5	4942.2	4719.4
37.5°	6585.8	6585.8	6520.8	6441.8	6332.7	6193.4	6024.0	5833.6	5620.1	5385.6	5139.5
35°	7156.8	7156.8	7084.9	6999.0	6878.2	6725.0	6541.6	6330.4	6093.6	5838.3	5562.0
32.5°	7739.5	7739.5	7660.6	7563.1	7426.1	7256.6	7054.7	6824.9	6585.8	6288.6	5986.8
30°	8315.2	8315.2	8229.3	8122.5	7976.3	7790.5	7570.0	7317.0	7036.1	6732.0	6407.0
27.5°	8881.6	8858.4	8786.4	8672.7	8512.5	8315.2	8076.1	7802.2	7498.1	7163.8	6815.6
25°	9438.7	9413.2	9334.3	9208.9	9037.1	8821.2	8563.6	8271.1	7943.8	7590.9	7210.2
22.5°	9972.6	9944.8	9861.2	9726.6	9543.2	9308.7	9032.5	8719.1	8370.9	7992.5	7590.9
20°	10467.1	10436.9	10351.0	10209.4	10019.1	9770.7	9478.2	9141.6	8770.2	8370.9	7943.8
17.5°	10912.8	10882.6	10792.1	10645.8	10467.1	10190.9	9889.1	9533.9	9141.6	8719.1	8271.1
15°	11305.1	11272.6	11179.8	11033.5	10829.2	10569.2	10251.2	9889.1	9478.2	9032.5	8563.6
12.5°	11639.4	11606.9	11511.7	11365.5	11154.2	10894.2	10569.2	10190.9	9770.7	9308.7	8821.2
10°	11904.0	11871.5	11781.0	11641.7	11423.5	11154.2	10829.2	10467.1	10019.1	9543.2	9037.1
7.5°	12094.4	12064.2	11980.6	11841.4	11641.7	11365.5	11033.5	10645.8	10209.4	9726.6	9208.9
5°	12238.3	12203.5	12119.9	11980.6	11781.0	11511.7	11179.8	10792.1	10351.0	9861.2	9334.3
2.5°	12338.1	12296.3	12203.5	12064.2	11871.5	11606.9	11272.6	10882.6	10436.9	9944.8	9413.2
0°	12366.0	12338.1	12238.3	12094.4	11904.0	11639.4	11305.1	10912.8	10467.1	9972.6	9438.7

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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°	83.6	83.6	81.2	78.9	76.6	72.0	69.6	67.3	65.0	60.4	58.0
85°	176.4	171.8	167.1	162.5	155.5	150.9	143.9	139.3	132.3	125.4	118.4
82.5°	278.6	271.6	262.3	255.4	246.1	234.5	225.2	213.6	202.0	192.7	181.1
80°	390.0	378.4	366.8	355.2	341.2	327.3	313.4	299.5	283.2	267.0	250.7
77.5°	510.7	494.5	478.2	459.6	443.4	424.8	406.2	387.7	366.8	345.9	325.0
75°	645.3	624.5	601.2	578.0	557.1	531.6	506.1	480.5	452.7	427.1	399.3
72.5°	791.6	766.1	738.2	710.3	680.2	647.7	615.2	580.3	547.8	515.3	480.5
70°	949.4	919.3	884.4	849.6	812.5	773.0	733.6	691.8	650.0	608.2	566.4
67.5°	1118.9	1081.8	1040.0	998.2	951.8	905.3	858.9	810.2	759.1	708.0	659.3
65°	1300.0	1253.5	1204.8	1151.4	1098.0	1044.6	988.9	930.9	872.8	812.5	759.1
62.5°	1501.9	1443.9	1381.2	1316.2	1255.9	1190.9	1130.5	1058.5	988.9	921.6	854.3
60°	1736.4	1659.8	1583.2	1501.9	1425.3	1341.8	1267.5	1188.5	1109.6	1033.0	954.1
57.5°	1998.7	1901.2	1808.4	1710.9	1608.7	1515.9	1420.7	1325.5	1237.3	1146.8	1060.9
55°	2295.8	2177.5	2061.4	1940.7	1822.3	1706.2	1585.5	1478.7	1369.6	1267.5	1167.7
52.5°	2620.8	2486.2	2342.3	2205.3	2054.4	1910.5	1775.9	1641.2	1513.5	1390.5	1276.8
50°	2969.0	2811.2	2646.4	2479.2	2307.5	2138.0	1975.5	1817.6	1669.1	1525.1	1390.5
47.5°	3331.2	3152.4	2964.4	2774.0	2590.7	2384.1	2189.1	2010.3	1831.6	1669.1	1513.5
45°	3702.6	3500.6	3294.0	3078.1	2862.3	2639.4	2423.5	2205.3	2010.3	1817.6	1641.2
42.5°	4085.6	3858.1	3628.3	3389.2	3150.1	2906.4	2662.6	2423.5	2189.1	1975.5	1775.9
40°	4480.3	4229.6	3967.2	3707.2	3451.9	3173.3	2906.4	2639.4	2384.1	2138.0	1910.5
37.5°	4874.9	4601.0	4317.8	4025.3	3732.8	3451.9	3150.1	2862.3	2590.7	2307.5	2054.4
35°	5271.9	4970.1	4663.7	4345.6	4025.3	3707.2	3389.2	3078.1	2774.0	2479.2	2205.3
32.5°	5671.1	5341.5	5002.6	4663.7	4317.8	3967.2	3628.3	3294.0	2964.4	2646.4	2342.3
30°	6063.4	5706.0	5341.5	4970.1	4601.0	4229.6	3858.1	3500.6	3152.4	2811.2	2486.2
27.5°	6446.5	6063.4	5671.1	5271.9	4874.9	4480.3	4085.6	3702.6	3331.2	2969.0	2620.8
25°	6815.6	6407.0	5986.8	5562.0	5139.5	4719.4	4303.8	3890.6	3500.6	3119.9	2755.5
22.5°	7163.8	6732.0	6288.6	5838.3	5385.6	4942.2	4505.8	4076.3	3660.8	3261.5	2878.5
20°	7498.1	7036.1	6585.8	6093.6	5620.1	5153.5	4696.2	4245.8	3807.1	3391.5	2989.9
17.5°	7802.2	7317.0	6824.9	6330.4	5833.6	5343.8	4865.6	4417.6	3941.7	3509.9	3096.7
15°	8076.1	7570.0	7054.7	6541.6	6024.0	5515.6	5018.8	4536.0	4064.7	3616.7	3189.6
12.5°	8315.2	7790.5	7256.6	6725.0	6193.4	5666.5	5153.5	4654.4	4171.5	3707.2	3268.5
10°	8512.5	7976.3	7426.1	6878.2	6332.7	5791.8	5262.6	4754.2	4259.7	3783.8	3333.5
7.5°	8672.7	8122.5	7563.1	6999.0	6441.8	5889.3	5350.8	4830.8	4329.4	3841.9	3384.6
5°	8786.4	8229.3	7660.6	7084.9	6520.8	5961.3	5413.5	4886.5	4378.1	3883.7	3421.7
2.5°	8858.4	8315.2	7739.5	7156.8	6585.8	6019.3	5464.5	4930.6	4417.6	3918.5	3451.9
0°	8881.6	8315.2	7739.5	7156.8	6585.8	6019.3	5464.5	4930.6	4417.6	3918.5	3451.9

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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°	55.7	51.1	46.4	44.1	39.5	37.1	32.5	27.9	25.5	20.9	16.2
85°	111.4	102.1	95.2	88.2	81.2	72.0	65.0	58.0	48.7	41.8	32.5
82.5°	169.5	157.9	146.2	134.6	123.0	111.4	97.5	85.9	74.3	62.7	48.7
80°	234.5	215.9	199.6	183.4	167.1	150.9	132.3	116.1	97.5	81.2	65.0
77.5°	301.8	280.9	257.7	234.5	211.2	190.4	167.1	146.2	125.4	102.1	81.2
75°	373.7	345.9	320.4	290.2	262.3	232.1	204.3	176.4	150.9	125.4	97.5
72.5°	448.0	413.2	378.4	345.9	311.1	276.2	243.7	208.9	176.4	146.2	116.1
70°	524.6	482.8	441.1	401.6	362.1	320.4	283.2	243.7	204.3	167.1	132.3
67.5°	605.9	557.1	508.4	457.3	413.2	366.8	320.4	276.2	232.1	190.4	150.9
65°	694.1	636.1	575.7	522.3	464.3	413.2	362.1	311.1	262.3	211.2	167.1
62.5°	784.6	717.3	650.0	582.7	522.3	457.3	401.6	345.9	290.2	234.5	183.4
60°	877.5	800.9	724.3	650.0	575.7	508.4	441.1	378.4	320.4	257.7	199.6
57.5°	972.7	886.8	800.9	717.3	636.1	557.1	482.8	413.2	345.9	280.9	215.9
55°	1070.2	972.7	877.5	784.6	694.1	605.9	524.6	448.0	373.7	301.8	234.5
52.5°	1167.7	1060.9	954.1	854.3	759.1	659.3	566.4	480.5	399.3	325.0	250.7
50°	1267.5	1146.8	1033.0	921.6	812.5	708.0	608.2	515.3	427.1	345.9	267.0
47.5°	1369.6	1237.3	1109.6	988.9	872.8	759.1	650.0	547.8	452.7	366.8	283.2
45°	1478.7	1325.5	1188.5	1058.5	930.9	810.2	691.8	580.3	480.5	387.7	299.5
42.5°	1585.5	1420.7	1267.5	1130.5	988.9	858.9	733.6	615.2	506.1	406.2	313.4
40°	1706.2	1515.9	1341.8	1190.9	1044.6	905.3	773.0	647.7	531.6	424.8	327.3
37.5°	1822.3	1608.7	1425.3	1255.9	1098.0	951.8	812.5	680.2	557.1	443.4	341.2
35°	1940.7	1710.9	1501.9	1316.2	1151.4	998.2	849.6	710.3	578.0	459.6	355.2
32.5°	2061.4	1808.4	1583.2	1381.2	1204.8	1040.0	884.4	738.2	601.2	478.2	366.8
30°	2177.5	1901.2	1659.8	1443.9	1253.5	1081.8	919.3	766.1	624.5	494.5	378.4
27.5°	2295.8	1998.7	1736.4	1501.9	1300.0	1118.9	949.4	791.6	645.3	510.7	390.0
25°	2409.6	2091.6	1808.4	1557.6	1341.8	1156.0	981.9	817.1	663.9	524.6	399.3
22.5°	2514.1	2172.8	1873.4	1611.0	1385.9	1188.5	1009.8	840.3	682.5	538.6	408.6
20°	2609.2	2256.4	1940.7	1664.4	1427.6	1221.0	1033.0	861.2	698.7	550.2	417.8
17.5°	2702.1	2333.0	2001.0	1713.2	1462.5	1248.9	1056.2	877.5	712.7	559.5	424.8
15°	2781.0	2400.3	2054.4	1755.0	1495.0	1272.1	1074.8	893.7	724.3	568.7	429.5
12.5°	2850.7	2458.3	2100.8	1789.8	1520.5	1293.0	1093.4	907.7	735.9	575.7	436.4
10°	2906.4	2504.8	2138.0	1820.0	1543.7	1309.3	1105.0	919.3	742.8	582.7	441.1
7.5°	2950.5	2541.9	2168.2	1840.9	1560.0	1323.2	1116.6	926.2	749.8	587.3	448.0
5°	2983.0	2569.8	2189.1	1857.1	1573.9	1339.4	1130.5	937.8	759.1	594.3	448.0
2.5°	3008.5	2590.7	2205.3	1871.0	1583.2	1339.4	1130.5	937.8	759.1	594.3	448.0
0°	3008.5	2590.7	2205.3	1871.0	1583.2	1339.4	1130.5	937.8	759.1	594.3	448.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.6	9.3	4.6	0.0
85°	25.5	16.2	9.3	0.0
82.5°	37.1	25.5	11.6	0.0
80°	48.7	32.5	16.2	0.0
77.5°	62.7	41.8	20.9	0.0
75°	74.3	48.7	25.5	0.0
72.5°	85.9	58.0	27.9	0.0
70°	97.5	65.0	32.5	0.0
67.5°	111.4	72.0	37.1	0.0
65°	123.0	81.2	39.5	0.0
62.5°	134.6	88.2	44.1	0.0
60°	146.2	95.2	46.4	0.0
57.5°	157.9	102.1	51.1	0.0
55°	169.5	111.4	55.7	0.0
52.5°	181.1	118.4	58.0	0.0
50°	192.7	125.4	60.4	0.0
47.5°	202.0	132.3	65.0	0.0
45°	213.6	139.3	67.3	0.0
42.5°	225.2	143.9	69.6	0.0
40°	234.5	150.9	72.0	0.0
37.5°	246.1	155.5	76.6	0.0
35°	255.4	162.5	78.9	0.0
32.5°	262.3	167.1	81.2	0.0
30°	271.6	171.8	83.6	0.0
27.5°	278.6	176.4	83.6	0.0
25°	285.5	181.1	85.9	0.0
22.5°	292.5	183.4	88.2	0.0
20°	299.5	188.0	90.5	0.0
17.5°	304.1	190.4	90.5	0.0
15°	308.7	192.7	95.2	0.0
12.5°	311.1	195.0	95.2	0.0
10°	315.7	199.6	95.2	0.0
7.5°	320.4	199.6	95.2	0.0
5°	320.4	199.6	95.2	0.0
2.5°	320.4	199.6	95.2	0.0
0°	320.4	199.6	95.2	0.0

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