

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: P623935

Luminaire Tested: **IFLD-S-SA3D-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623935
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

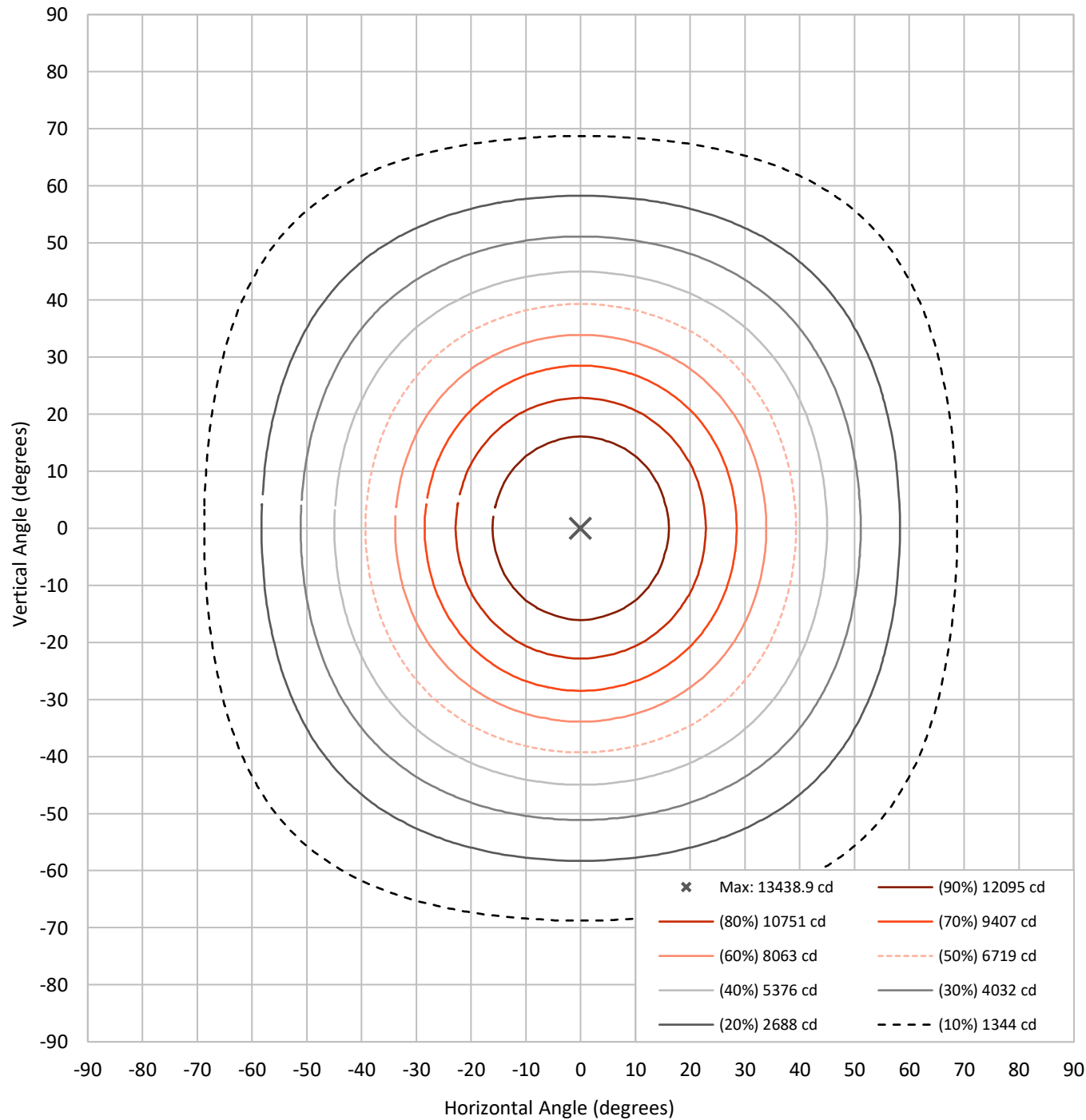
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	24197.1 lumens	Max Intensity:	13438.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	131.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	10469.9 lumens	Field Lumens:	17144 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		





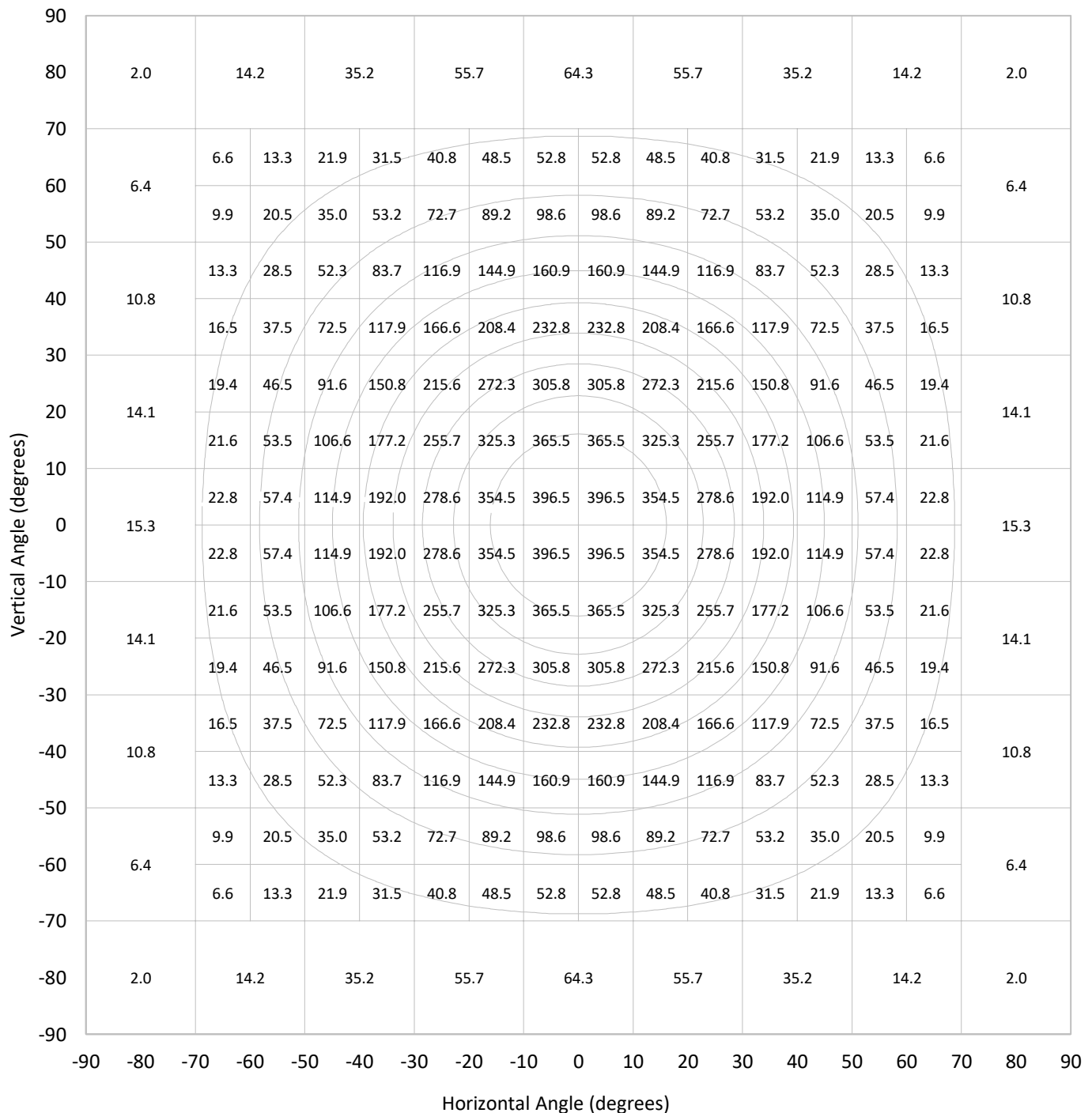
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Iso-Candela Plot



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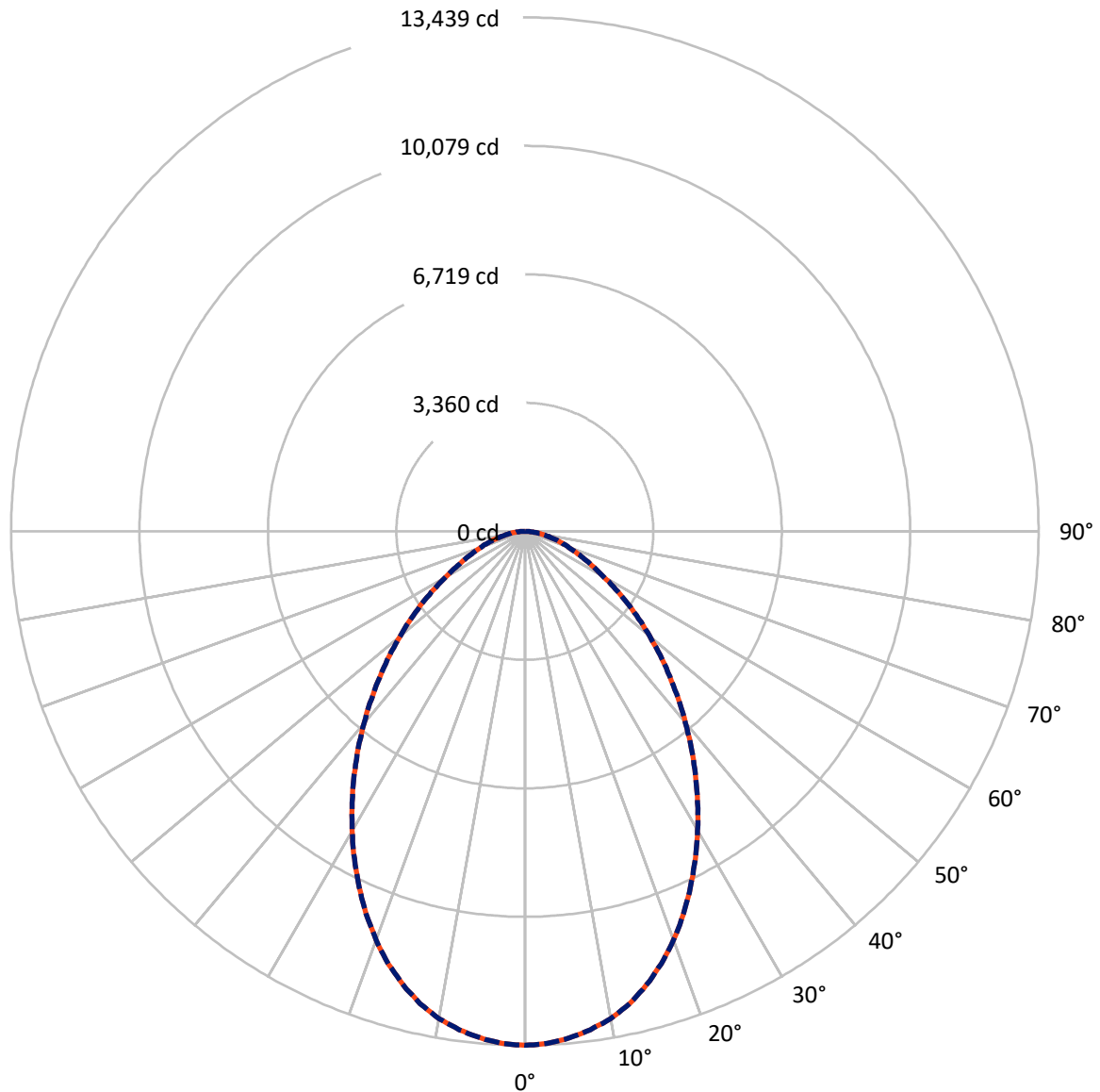
Lumen Table



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Luminous Intensity Polar Plot



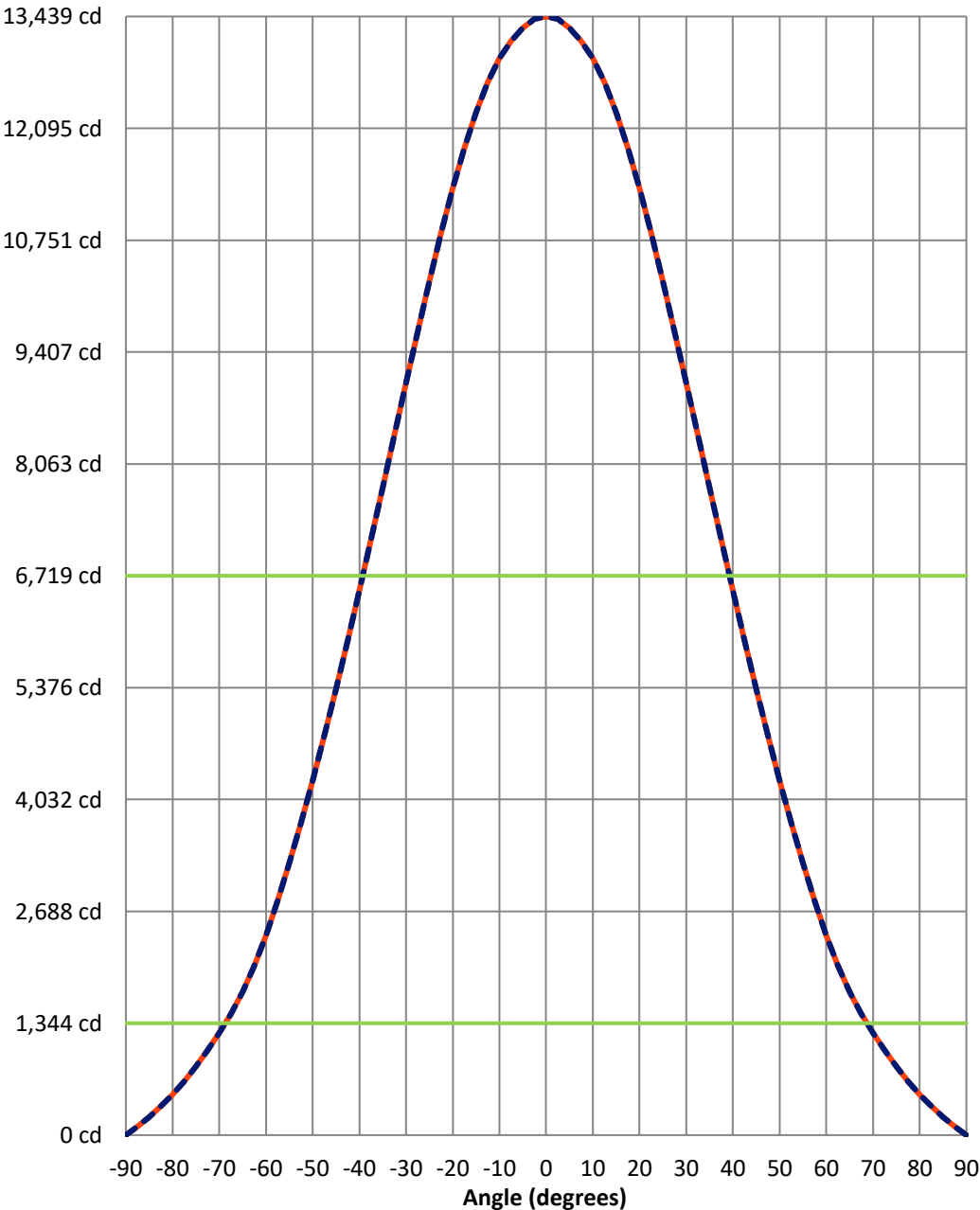
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 10469.9
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 17144
Efficiency: 70.9%

Spill:
Lumens: 7053.1
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°	103.4	103.4	103.4	103.4	103.4	103.4	103.4	98.4	98.4	95.9	93.3
85°	217.0	217.0	217.0	217.0	217.0	211.9	209.4	206.9	204.3	199.3	196.8
82.5°	348.1	348.1	348.1	348.1	343.1	338.1	335.5	330.5	325.4	317.9	310.3
80°	486.9	486.9	486.9	486.9	479.3	474.3	466.7	461.7	454.1	444.0	433.9
77.5°	645.8	645.8	645.8	638.3	633.2	625.7	618.1	608.0	597.9	585.3	570.2
75°	825.0	825.0	825.0	814.9	807.3	799.7	787.1	774.5	759.4	741.7	721.5
72.5°	1019.2	1019.2	1019.2	1006.6	999.0	986.4	971.3	953.6	936.0	913.3	888.0
70°	1228.6	1228.6	1228.6	1213.5	1200.9	1188.2	1168.1	1147.9	1122.6	1097.4	1067.1
67.5°	1455.7	1455.7	1455.7	1438.0	1422.9	1405.2	1382.5	1357.3	1327.0	1291.7	1256.4
65°	1720.5	1720.5	1710.5	1695.3	1677.7	1652.4	1624.7	1589.4	1551.5	1506.1	1458.2
62.5°	2033.4	2033.4	2018.2	2000.6	1977.9	1945.1	1907.2	1861.8	1808.8	1750.8	1692.8
60°	2396.7	2396.7	2379.0	2356.3	2323.5	2283.1	2232.7	2174.7	2109.1	2035.9	1965.3
57.5°	2815.4	2815.4	2792.7	2762.5	2722.1	2671.6	2608.6	2535.4	2452.2	2361.3	2273.0
55°	3269.5	3269.5	3241.8	3206.5	3158.5	3098.0	3022.3	2936.5	2835.6	2732.2	2618.7
52.5°	3751.4	3751.4	3718.6	3678.2	3622.7	3552.1	3466.3	3365.4	3249.4	3128.3	2994.6
50°	4258.5	4258.5	4220.6	4175.2	4112.2	4028.9	3930.5	3814.5	3685.8	3544.5	3390.6
47.5°	4800.9	4800.9	4758.0	4705.0	4629.3	4533.5	4417.4	4283.7	4137.4	3978.5	3804.4
45°	5358.4	5358.4	5310.5	5249.9	5166.7	5058.2	4929.5	4800.9	4614.2	4430.0	4228.2
42.5°	5938.7	5938.7	5883.2	5815.0	5719.2	5600.6	5454.3	5287.8	5103.6	4896.7	4677.3
40°	6541.6	6541.6	6478.5	6400.3	6294.4	6158.1	5994.2	5807.5	5600.6	5371.0	5128.8
37.5°	7157.2	7157.2	7086.5	7000.8	6882.2	6730.8	6546.7	6339.8	6107.7	5852.9	5585.5
35°	7777.8	7777.8	7699.6	7606.2	7475.0	7308.5	7109.2	6879.7	6622.3	6344.8	6044.6
32.5°	8411.0	8411.0	8325.2	8219.3	8070.4	7886.3	7666.8	7417.0	7157.2	6834.3	6506.3
30°	9036.7	9036.7	8943.3	8827.3	8668.3	8466.5	8226.8	7951.9	7646.6	7316.1	6962.9
27.5°	9652.2	9627.0	9548.8	9425.2	9251.1	9036.7	8776.8	8479.1	8148.6	7785.3	7406.9
25°	10257.7	10229.9	10144.2	10007.9	9821.2	9586.6	9306.6	8988.7	8633.0	8249.5	7835.8
22.5°	10837.9	10807.7	10716.8	10570.5	10371.2	10116.4	9816.2	9475.6	9097.2	8686.0	8249.5
20°	11375.3	11342.5	11249.1	11095.3	10888.4	10618.5	10300.6	9934.8	9531.1	9097.2	8633.0
17.5°	11859.7	11826.9	11728.5	11569.5	11375.3	11075.1	10747.1	10361.1	9934.8	9475.6	8988.7
15°	12286.0	12250.7	12149.8	11990.9	11768.8	11486.3	11140.7	10747.1	10300.6	9816.2	9306.6
12.5°	12649.3	12614.0	12510.5	12351.6	12122.0	11839.5	11486.3	11075.1	10618.5	10116.4	9586.6
10°	12936.9	12901.6	12803.2	12651.8	12414.7	12122.0	11768.8	11375.3	10888.4	10371.2	9821.2
7.5°	13143.8	13111.0	13020.2	12868.8	12651.8	12351.6	11990.9	11569.5	11095.3	10570.5	10007.9
5°	13300.2	13262.3	13171.5	13020.2	12803.2	12510.5	12149.8	11728.5	11249.1	10716.8	10144.2
2.5°	13408.7	13363.3	13262.3	13111.0	12901.6	12614.0	12250.7	11826.9	11342.5	10807.7	10229.9
0°	13438.9	13408.7	13300.2	13143.8	12936.9	12649.3	12286.0	11859.7	11375.3	10837.9	10257.7

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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°	90.8	90.8	88.3	85.8	83.3	78.2	75.7	73.2	70.6	65.6	63.1
85°	191.7	186.7	181.6	176.6	169.0	164.0	156.4	151.4	143.8	136.2	128.7
82.5°	302.7	295.2	285.1	277.5	267.4	254.8	244.7	232.1	219.5	209.4	196.8
80°	423.8	411.2	398.6	386.0	370.9	355.7	340.6	325.4	307.8	290.1	272.5
77.5°	555.0	537.4	519.7	499.5	481.9	461.7	441.5	421.3	398.6	375.9	353.2
75°	701.3	678.6	653.4	628.2	605.5	577.7	550.0	522.2	491.9	464.2	433.9
72.5°	860.3	832.5	802.2	772.0	739.2	703.9	668.5	630.7	595.4	560.1	522.2
70°	1031.8	999.0	961.2	923.3	883.0	840.1	797.2	751.8	706.4	661.0	615.6
67.5°	1216.0	1175.6	1130.2	1084.8	1034.3	983.9	933.4	880.5	825.0	769.5	716.5
65°	1412.8	1362.3	1309.3	1251.3	1193.3	1135.3	1074.7	1011.6	948.6	883.0	825.0
62.5°	1632.2	1569.2	1501.1	1430.4	1364.8	1294.2	1228.6	1150.4	1074.7	1001.6	928.4
60°	1887.1	1803.8	1720.5	1632.2	1549.0	1458.2	1377.4	1291.7	1205.9	1122.6	1036.9
57.5°	2172.1	2066.2	1965.3	1859.3	1748.3	1647.4	1544.0	1440.5	1344.7	1246.3	1152.9
55°	2495.0	2366.4	2240.2	2109.1	1980.4	1854.3	1723.1	1607.0	1488.4	1377.4	1269.0
52.5°	2848.2	2701.9	2545.5	2396.7	2232.7	2076.3	1929.9	1783.6	1644.9	1511.2	1387.5
50°	3226.7	3055.1	2876.0	2694.3	2507.7	2323.5	2146.9	1975.3	1813.9	1657.5	1511.2
47.5°	3620.2	3426.0	3221.6	3014.7	2815.4	2590.9	2379.0	2184.7	1990.5	1813.9	1644.9
45°	4023.9	3804.4	3579.8	3345.2	3110.6	2868.4	2633.8	2396.7	2184.7	1975.3	1783.6
42.5°	4440.1	4192.9	3943.1	3683.3	3423.4	3158.5	2893.6	2633.8	2379.0	2146.9	1929.9
40°	4869.0	4596.5	4311.5	4028.9	3751.4	3448.7	3158.5	2868.4	2590.9	2323.5	2076.3
37.5°	5297.9	5000.2	4692.4	4374.5	4056.7	3751.4	3423.4	3110.6	2815.4	2507.7	2232.7
35°	5729.3	5401.3	5068.3	4722.7	4374.5	4028.9	3683.3	3345.2	3014.7	2694.3	2396.7
32.5°	6163.2	5805.0	5436.6	5068.3	4692.4	4311.5	3943.1	3579.8	3221.6	2876.0	2545.5
30°	6589.5	6201.0	5805.0	5401.3	5000.2	4596.5	4192.9	3804.4	3426.0	3055.1	2701.9
27.5°	7005.8	6589.5	6163.2	5729.3	5297.9	4869.0	4440.1	4023.9	3620.2	3226.7	2848.2
25°	7406.9	6962.9	6506.3	6044.6	5585.5	5128.8	4677.3	4228.2	3804.4	3390.6	2994.6
22.5°	7785.3	7316.1	6834.3	6344.8	5852.9	5371.0	4896.7	4430.0	3978.5	3544.5	3128.3
20°	8148.6	7646.6	7157.2	6622.3	6107.7	5600.6	5103.6	4614.2	4137.4	3685.8	3249.4
17.5°	8479.1	7951.9	7417.0	6879.7	6339.8	5807.5	5287.8	4800.9	4283.7	3814.5	3365.4
15°	8776.8	8226.8	7666.8	7109.2	6546.7	5994.2	5454.3	4929.5	4417.4	3930.5	3466.3
12.5°	9036.7	8466.5	7886.3	7308.5	6730.8	6158.1	5600.6	5058.2	4533.5	4028.9	3552.1
10°	9251.1	8668.3	8070.4	7475.0	6882.2	6294.4	5719.2	5166.7	4629.3	4112.2	3622.7
7.5°	9425.2	8827.3	8219.3	7606.2	7000.8	6400.3	5815.0	5249.9	4705.0	4175.2	3678.2
5°	9548.8	8943.3	8325.2	7699.6	7086.5	6478.5	5883.2	5310.5	4758.0	4220.6	3718.6
2.5°	9627.0	9036.7	8411.0	7777.8	7157.2	6541.6	5938.7	5358.4	4800.9	4258.5	3751.4
0°	9652.2	9036.7	8411.0	7777.8	7157.2	6541.6	5938.7	5358.4	4800.9	4258.5	3751.4

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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°	60.5	55.5	50.5	47.9	42.9	40.4	35.3	30.3	27.8	22.7	17.7
85°	121.1	111.0	103.4	95.9	88.3	78.2	70.6	63.1	53.0	45.4	35.3
82.5°	184.2	171.6	158.9	146.3	133.7	121.1	106.0	93.3	80.7	68.1	53.0
80°	254.8	234.6	217.0	199.3	181.6	164.0	143.8	126.1	106.0	88.3	70.6
77.5°	328.0	305.3	280.0	254.8	229.6	206.9	181.6	158.9	136.2	111.0	88.3
75°	406.2	375.9	348.1	315.3	285.1	252.3	222.0	191.7	164.0	136.2	106.0
72.5°	486.9	449.1	411.2	375.9	338.1	300.2	264.9	227.1	191.7	158.9	126.1
70°	570.2	524.7	479.3	436.4	393.6	348.1	307.8	264.9	222.0	181.6	143.8
67.5°	658.4	605.5	552.5	497.0	449.1	398.6	348.1	300.2	252.3	206.9	164.0
65°	754.3	691.2	625.7	567.6	504.6	449.1	393.6	338.1	285.1	229.6	181.6
62.5°	852.7	779.5	706.4	633.2	567.6	497.0	436.4	375.9	315.3	254.8	199.3
60°	953.6	870.4	787.1	706.4	625.7	552.5	479.3	411.2	348.1	280.0	217.0
57.5°	1057.1	963.7	870.4	779.5	691.2	605.5	524.7	449.1	375.9	305.3	234.6
55°	1163.0	1057.1	953.6	852.7	754.3	658.4	570.2	486.9	406.2	328.0	254.8
52.5°	1269.0	1152.9	1036.9	928.4	825.0	716.5	615.6	522.2	433.9	353.2	272.5
50°	1377.4	1246.3	1122.6	1001.6	883.0	769.5	661.0	560.1	464.2	375.9	290.1
47.5°	1488.4	1344.7	1205.9	1074.7	948.6	825.0	706.4	595.4	491.9	398.6	307.8
45°	1607.0	1440.5	1291.7	1150.4	1011.6	880.5	751.8	630.7	522.2	421.3	325.4
42.5°	1723.1	1544.0	1377.4	1228.6	1074.7	933.4	797.2	668.5	550.0	441.5	340.6
40°	1854.3	1647.4	1458.2	1294.2	1135.3	983.9	840.1	703.9	577.7	461.7	355.7
37.5°	1980.4	1748.3	1549.0	1364.8	1193.3	1034.3	883.0	739.2	605.5	481.9	370.9
35°	2109.1	1859.3	1632.2	1430.4	1251.3	1084.8	923.3	772.0	628.2	499.5	386.0
32.5°	2240.2	1965.3	1720.5	1501.1	1309.3	1130.2	961.2	802.2	653.4	519.7	398.6
30°	2366.4	2066.2	1803.8	1569.2	1362.3	1175.6	999.0	832.5	678.6	537.4	411.2
27.5°	2495.0	2172.1	1887.1	1632.2	1412.8	1216.0	1031.8	860.3	701.3	555.0	423.8
25°	2618.7	2273.0	1965.3	1692.8	1458.2	1256.4	1067.1	888.0	721.5	570.2	433.9
22.5°	2732.2	2361.3	2035.9	1750.8	1506.1	1291.7	1097.4	913.3	741.7	585.3	444.0
20°	2835.6	2452.2	2109.1	1808.8	1551.5	1327.0	1122.6	936.0	759.4	597.9	454.1
17.5°	2936.5	2535.4	2174.7	1861.8	1589.4	1357.3	1147.9	953.6	774.5	608.0	461.7
15°	3022.3	2608.6	2232.7	1907.2	1624.7	1382.5	1168.1	971.3	787.1	618.1	466.7
12.5°	3098.0	2671.6	2283.1	1945.1	1652.4	1405.2	1188.2	986.4	799.7	625.7	474.3
10°	3158.5	2722.1	2323.5	1977.9	1677.7	1422.9	1200.9	999.0	807.3	633.2	479.3
7.5°	3206.5	2762.5	2356.3	2000.6	1695.3	1438.0	1213.5	1006.6	814.9	638.3	486.9
5°	3241.8	2792.7	2379.0	2018.2	1710.5	1455.7	1228.6	1019.2	825.0	645.8	486.9
2.5°	3269.5	2815.4	2396.7	2033.4	1720.5	1455.7	1228.6	1019.2	825.0	645.8	486.9
0°	3269.5	2815.4	2396.7	2033.4	1720.5	1455.7	1228.6	1019.2	825.0	645.8	486.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.6	10.1	5.0	0.0
85°	27.8	17.7	10.1	0.0
82.5°	40.4	27.8	12.6	0.0
80°	53.0	35.3	17.7	0.0
77.5°	68.1	45.4	22.7	0.0
75°	80.7	53.0	27.8	0.0
72.5°	93.3	63.1	30.3	0.0
70°	106.0	70.6	35.3	0.0
67.5°	121.1	78.2	40.4	0.0
65°	133.7	88.3	42.9	0.0
62.5°	146.3	95.9	47.9	0.0
60°	158.9	103.4	50.5	0.0
57.5°	171.6	111.0	55.5	0.0
55°	184.2	121.1	60.5	0.0
52.5°	196.8	128.7	63.1	0.0
50°	209.4	136.2	65.6	0.0
47.5°	219.5	143.8	70.6	0.0
45°	232.1	151.4	73.2	0.0
42.5°	244.7	156.4	75.7	0.0
40°	254.8	164.0	78.2	0.0
37.5°	267.4	169.0	83.3	0.0
35°	277.5	176.6	85.8	0.0
32.5°	285.1	181.6	88.3	0.0
30°	295.2	186.7	90.8	0.0
27.5°	302.7	191.7	90.8	0.0
25°	310.3	196.8	93.3	0.0
22.5°	317.9	199.3	95.9	0.0
20°	325.4	204.3	98.4	0.0
17.5°	330.5	206.9	98.4	0.0
15°	335.5	209.4	103.4	0.0
12.5°	338.1	211.9	103.4	0.0
10°	343.1	217.0	103.4	0.0
7.5°	348.1	217.0	103.4	0.0
5°	348.1	217.0	103.4	0.0
2.5°	348.1	217.0	103.4	0.0
0°	348.1	217.0	103.4	0.0

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