

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: P623873

Luminaire Tested: **IFLD-S-SA2E-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623873
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

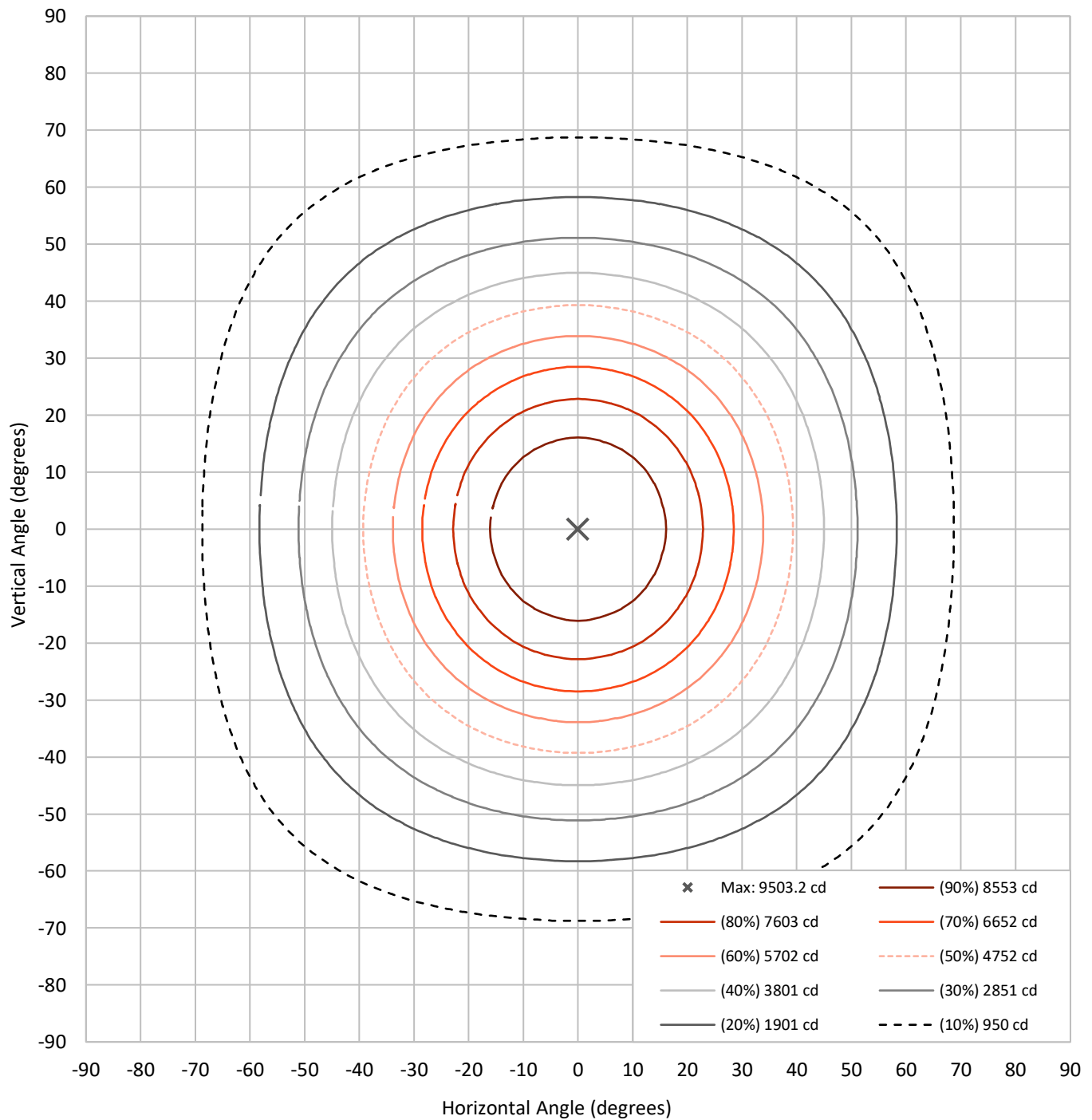
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17110.7 lumens	Max Intensity:	9503.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	109.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' 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:	7403.6 lumens	Field Lumens:	12123.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	156.2		
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		



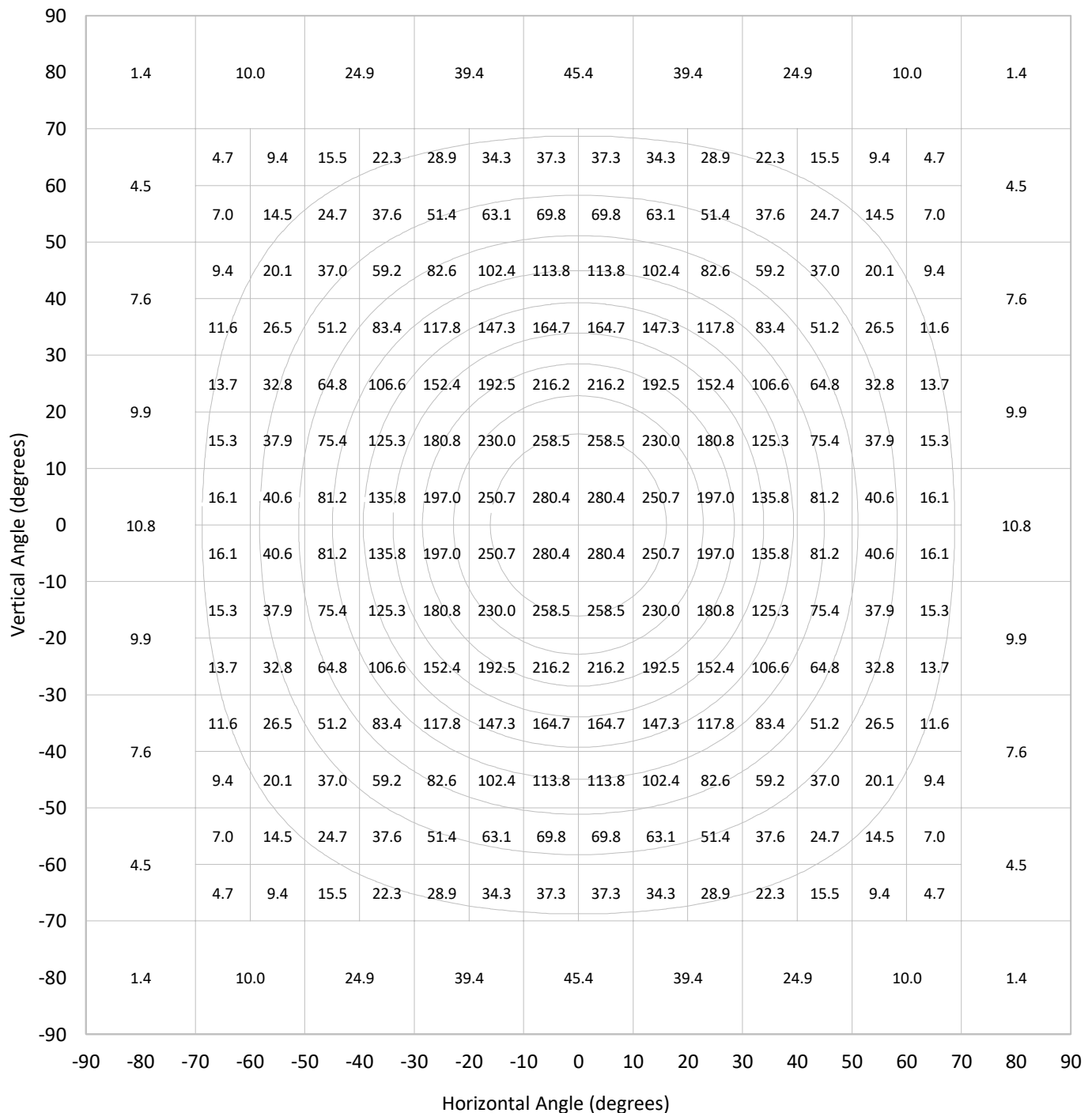
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Iso-Candela Plot



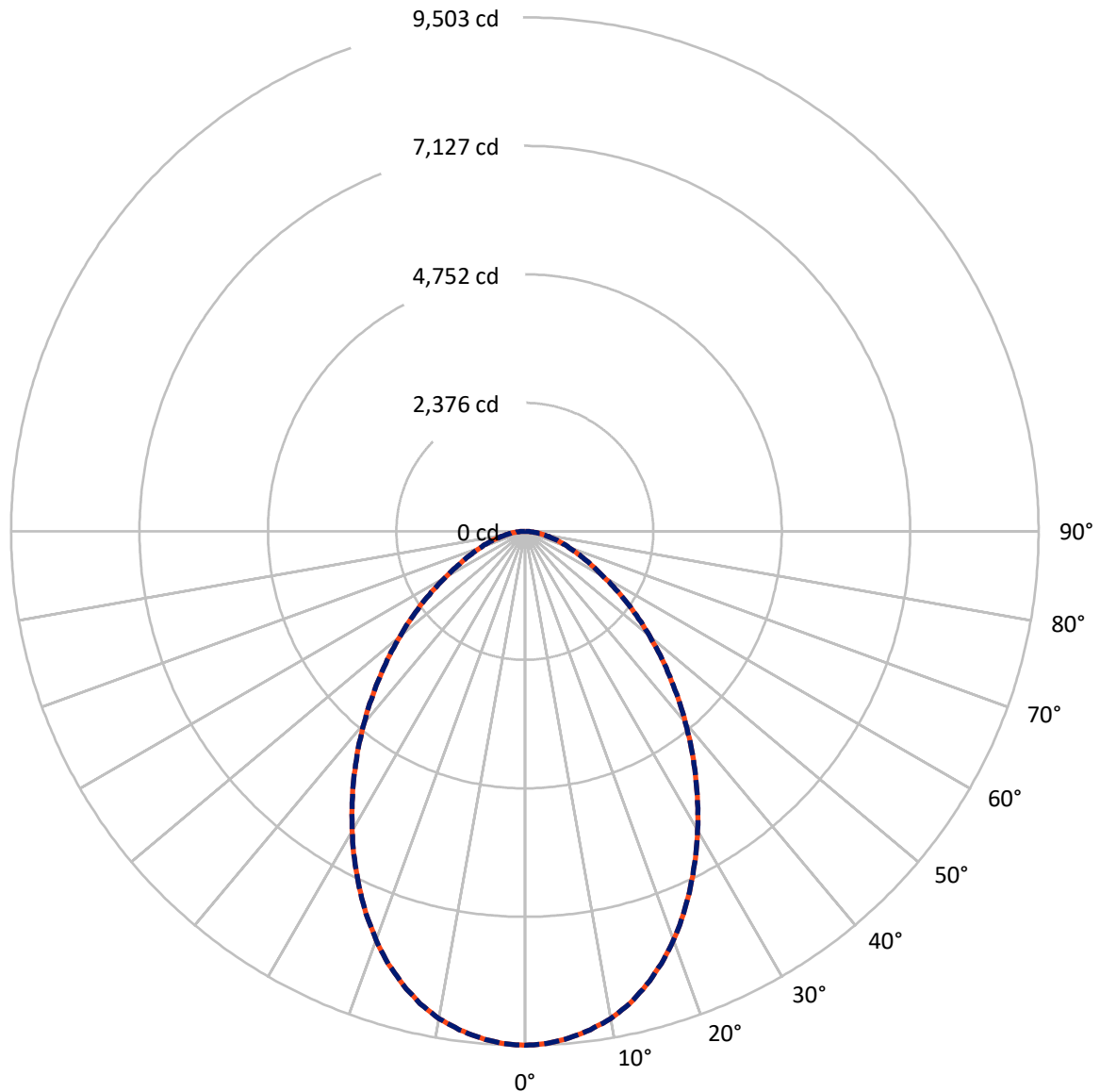
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Lumen Table



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Luminous Intensity Polar Plot

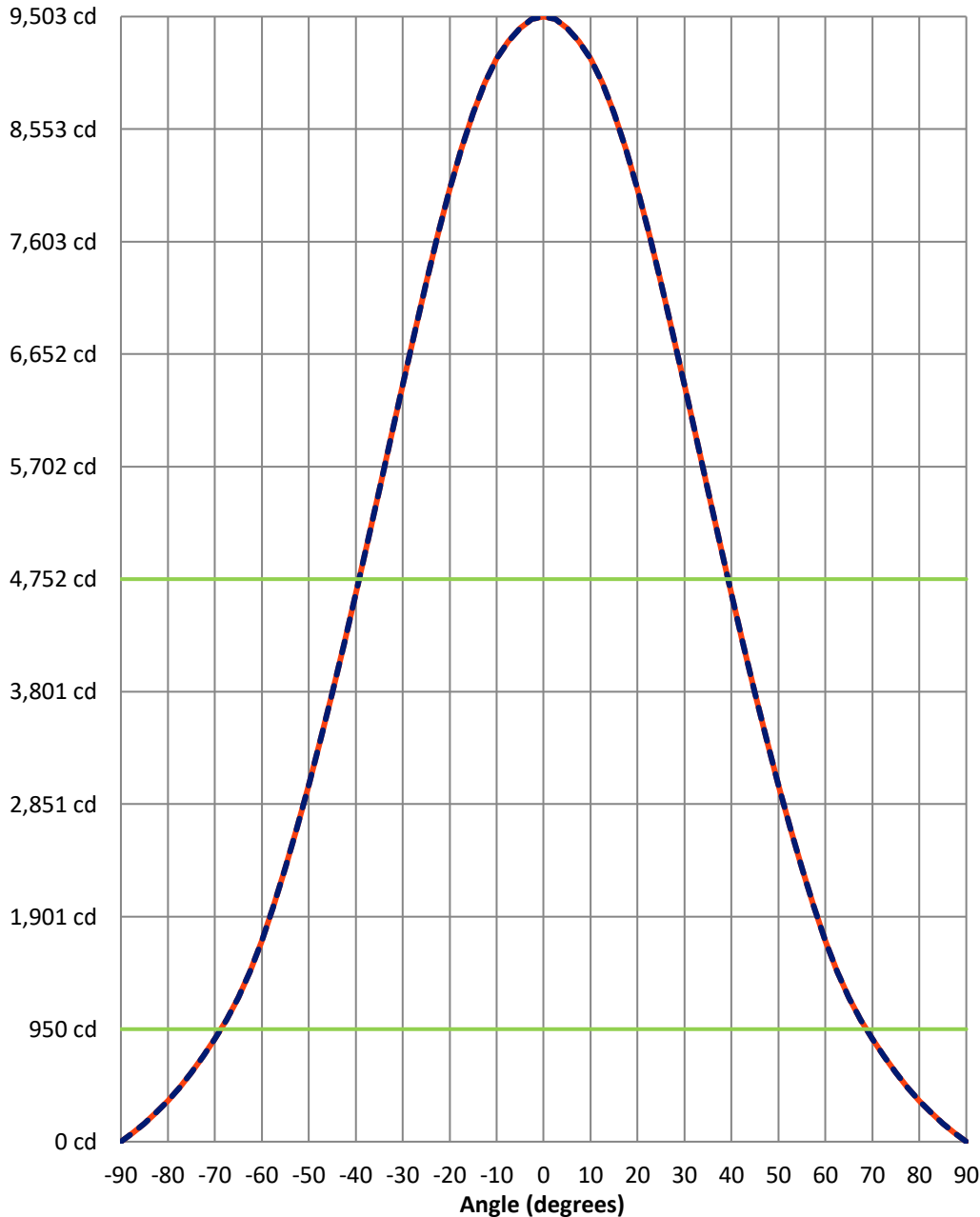


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 7403.6
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 12123.2
Efficiency: 70.9%

Spill:
Lumens: 4987.5
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°	73.1	73.1	73.1	73.1	73.1	73.1	73.1	69.6	69.6	67.8	66.0
85°	153.4	153.4	153.4	153.4	153.4	149.9	148.1	146.3	144.5	140.9	139.1
82.5°	246.2	246.2	246.2	246.2	242.6	239.1	237.3	233.7	230.1	224.8	219.4
80°	344.3	344.3	344.3	344.3	339.0	335.4	330.0	326.5	321.1	314.0	306.8
77.5°	456.7	456.7	456.7	451.3	447.8	442.4	437.1	429.9	422.8	413.9	403.2
75°	583.4	583.4	583.4	576.2	570.9	565.5	556.6	547.7	537.0	524.5	510.2
72.5°	720.7	720.7	720.7	711.8	706.5	697.5	686.8	674.3	661.9	645.8	628.0
70°	868.8	868.8	868.8	858.1	849.2	840.2	826.0	811.7	793.9	776.0	754.6
67.5°	1029.3	1029.3	1029.3	1016.9	1006.2	993.7	977.6	959.8	938.4	913.4	888.4
65°	1216.7	1216.7	1209.5	1198.8	1186.3	1168.5	1148.9	1123.9	1097.1	1065.0	1031.1
62.5°	1437.9	1437.9	1427.2	1414.7	1398.6	1375.4	1348.7	1316.6	1279.1	1238.1	1197.0
60°	1694.8	1694.8	1682.3	1666.2	1643.0	1614.5	1578.8	1537.8	1491.4	1439.7	1389.7
57.5°	1990.9	1990.9	1974.9	1953.4	1924.9	1889.2	1844.6	1792.9	1734.0	1669.8	1607.4
55°	2312.0	2312.0	2292.4	2267.4	2233.5	2190.7	2137.2	2076.5	2005.2	1932.0	1851.8
52.5°	2652.8	2652.8	2629.6	2601.0	2561.8	2511.8	2451.2	2379.8	2297.7	2212.1	2117.6
50°	3011.3	3011.3	2984.6	2952.5	2907.9	2849.0	2779.4	2697.4	2606.4	2506.5	2397.7
47.5°	3394.9	3394.9	3364.6	3327.1	3273.6	3205.8	3123.7	3029.2	2925.7	2813.3	2690.2
45°	3789.1	3789.1	3755.2	3712.4	3653.6	3576.9	3485.9	3394.9	3262.9	3132.6	2989.9
42.5°	4199.5	4199.5	4160.2	4112.0	4044.3	3960.4	3856.9	3739.2	3609.0	3462.7	3307.5
40°	4625.8	4625.8	4581.2	4525.9	4451.0	4354.7	4238.7	4106.7	3960.4	3798.1	3626.8
37.5°	5061.1	5061.1	5011.2	4950.5	4866.7	4759.6	4629.4	4483.1	4319.0	4138.8	3949.7
35°	5500.0	5500.0	5444.7	5378.7	5285.9	5168.2	5027.2	4864.9	4682.9	4486.7	4274.4
32.5°	5947.7	5947.7	5887.1	5812.2	5706.9	5576.7	5421.5	5244.9	5061.1	4832.8	4600.8
30°	6390.2	6390.2	6324.2	6242.1	6129.7	5987.0	5817.5	5623.1	5407.2	5173.5	4923.7
27.5°	6825.5	6807.6	6752.3	6664.9	6541.8	6390.2	6206.4	5995.9	5762.2	5505.3	5237.7
25°	7253.6	7234.0	7173.3	7077.0	6945.0	6779.1	6581.1	6356.3	6104.7	5833.6	5541.0
22.5°	7663.9	7642.5	7578.3	7474.8	7333.9	7153.7	6941.4	6700.6	6433.0	6142.2	5833.6
20°	8043.9	8020.7	7954.7	7845.9	7699.6	7508.7	7283.9	7025.3	6739.8	6433.0	6104.7
17.5°	8386.4	8363.2	8293.7	8181.3	8043.9	7831.6	7599.7	7326.8	7025.3	6700.6	6356.3
15°	8687.9	8662.9	8591.6	8479.2	8322.2	8122.4	7878.0	7599.7	7283.9	6941.4	6581.1
12.5°	8944.8	8919.8	8846.7	8734.3	8572.0	8372.2	8122.4	7831.6	7508.7	7153.7	6779.1
10°	9148.2	9123.2	9053.6	8946.6	8778.9	8572.0	8322.2	8043.9	7699.6	7333.9	6945.0
7.5°	9294.5	9271.3	9207.1	9100.0	8946.6	8734.3	8479.2	8181.3	7845.9	7474.8	7077.0
5°	9405.1	9378.3	9314.1	9207.1	9053.6	8846.7	8591.6	8293.7	7954.7	7578.3	7173.3
2.5°	9481.8	9449.7	9378.3	9271.3	9123.2	8919.8	8662.9	8363.2	8020.7	7642.5	7234.0
0°	9503.2	9481.8	9405.1	9294.5	9148.2	8944.8	8687.9	8386.4	8043.9	7663.9	7253.6

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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°	64.2	64.2	62.4	60.7	58.9	55.3	53.5	51.7	50.0	46.4	44.6
85°	135.6	132.0	128.4	124.9	119.5	116.0	110.6	107.0	101.7	96.3	91.0
82.5°	214.1	208.7	201.6	196.2	189.1	180.2	173.0	164.1	155.2	148.1	139.1
80°	299.7	290.8	281.9	272.9	262.2	251.5	240.8	230.1	217.6	205.2	192.7
77.5°	392.5	380.0	367.5	353.2	340.7	326.5	312.2	297.9	281.9	265.8	249.8
75°	495.9	479.9	462.0	444.2	428.2	408.5	388.9	369.3	347.9	328.2	306.8
72.5°	608.3	588.7	567.3	545.9	522.7	497.7	472.8	446.0	421.0	396.0	369.3
70°	729.6	706.5	679.7	652.9	624.4	594.1	563.7	531.6	499.5	467.4	435.3
67.5°	859.9	831.3	799.2	767.1	731.4	695.7	660.1	622.6	583.4	544.1	506.6
65°	999.0	963.3	925.9	884.8	843.8	802.8	760.0	715.4	670.8	624.4	583.4
62.5°	1154.2	1109.6	1061.5	1011.5	965.1	915.2	868.8	813.5	760.0	708.2	656.5
60°	1334.4	1275.5	1216.7	1154.2	1095.4	1031.1	974.0	913.4	852.7	793.9	733.2
57.5°	1536.0	1461.1	1389.7	1314.8	1236.3	1164.9	1091.8	1018.6	950.9	881.3	815.3
55°	1764.3	1673.4	1584.2	1491.4	1400.4	1311.2	1218.4	1136.4	1052.5	974.0	897.3
52.5°	2014.1	1910.6	1800.0	1694.8	1578.8	1468.2	1364.7	1261.3	1163.1	1068.6	981.2
50°	2281.7	2160.4	2033.7	1905.3	1773.3	1643.0	1518.2	1396.8	1282.7	1172.1	1068.6
47.5°	2560.0	2422.6	2278.1	2131.8	1990.9	1832.1	1682.3	1544.9	1407.5	1282.7	1163.1
45°	2845.4	2690.2	2531.4	2365.5	2199.6	2028.4	1862.5	1694.8	1544.9	1396.8	1261.3
42.5°	3139.8	2965.0	2788.3	2604.6	2420.8	2233.5	2046.2	1862.5	1682.3	1518.2	1364.7
40°	3443.1	3250.4	3048.8	2849.0	2652.8	2438.7	2233.5	2028.4	1832.1	1643.0	1468.2
37.5°	3746.3	3535.8	3318.2	3093.4	2868.6	2652.8	2420.8	2199.6	1990.9	1773.3	1578.8
35°	4051.4	3819.5	3584.0	3339.6	3093.4	2849.0	2604.6	2365.5	2131.8	1905.3	1694.8
32.5°	4358.2	4104.9	3844.4	3584.0	3318.2	3048.8	2788.3	2531.4	2278.1	2033.7	1800.0
30°	4659.7	4385.0	4104.9	3819.5	3535.8	3250.4	2965.0	2690.2	2422.6	2160.4	1910.6
27.5°	4954.1	4659.7	4358.2	4051.4	3746.3	3443.1	3139.8	2845.4	2560.0	2281.7	2014.1
25°	5237.7	4923.7	4600.8	4274.4	3949.7	3626.8	3307.5	2989.9	2690.2	2397.7	2117.6
22.5°	5505.3	5173.5	4832.8	4486.7	4138.8	3798.1	3462.7	3132.6	2813.3	2506.5	2212.1
20°	5762.2	5407.2	5061.1	4682.9	4319.0	3960.4	3609.0	3262.9	2925.7	2606.4	2297.7
17.5°	5995.9	5623.1	5244.9	4864.9	4483.1	4106.7	3739.2	3394.9	3029.2	2697.4	2379.8
15°	6206.4	5817.5	5421.5	5027.2	4629.4	4238.7	3856.9	3485.9	3123.7	2779.4	2451.2
12.5°	6390.2	5987.0	5576.7	5168.2	4759.6	4354.7	3960.4	3576.9	3205.8	2849.0	2511.8
10°	6541.8	6129.7	5706.9	5285.9	4866.7	4451.0	4044.3	3653.6	3273.6	2907.9	2561.8
7.5°	6664.9	6242.1	5812.2	5378.7	4950.5	4525.9	4112.0	3712.4	3327.1	2952.5	2601.0
5°	6752.3	6324.2	5887.1	5444.7	5011.2	4581.2	4160.2	3755.2	3364.6	2984.6	2629.6
2.5°	6807.6	6390.2	5947.7	5500.0	5061.1	4625.8	4199.5	3789.1	3394.9	3011.3	2652.8
0°	6825.5	6390.2	5947.7	5500.0	5061.1	4625.8	4199.5	3789.1	3394.9	3011.3	2652.8

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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°	42.8	39.2	35.7	33.9	30.3	28.5	25.0	21.4	19.6	16.1	12.5
85°	85.6	78.5	73.1	67.8	62.4	55.3	50.0	44.6	37.5	32.1	25.0
82.5°	130.2	121.3	112.4	103.5	94.6	85.6	74.9	66.0	57.1	48.2	37.5
80°	180.2	165.9	153.4	140.9	128.4	116.0	101.7	89.2	74.9	62.4	50.0
77.5°	231.9	215.9	198.0	180.2	162.3	146.3	128.4	112.4	96.3	78.5	62.4
75°	287.2	265.8	246.2	223.0	201.6	178.4	157.0	135.6	116.0	96.3	74.9
72.5°	344.3	317.5	290.8	265.8	239.1	212.3	187.3	160.6	135.6	112.4	89.2
70°	403.2	371.1	339.0	308.6	278.3	246.2	217.6	187.3	157.0	128.4	101.7
67.5°	465.6	428.2	390.7	351.4	317.5	281.9	246.2	212.3	178.4	146.3	116.0
65°	533.4	488.8	442.4	401.4	356.8	317.5	278.3	239.1	201.6	162.3	128.4
62.5°	603.0	551.2	499.5	447.8	401.4	351.4	308.6	265.8	223.0	180.2	140.9
60°	674.3	615.5	556.6	499.5	442.4	390.7	339.0	290.8	246.2	198.0	153.4
57.5°	747.5	681.5	615.5	551.2	488.8	428.2	371.1	317.5	265.8	215.9	165.9
55°	822.4	747.5	674.3	603.0	533.4	465.6	403.2	344.3	287.2	231.9	180.2
52.5°	897.3	815.3	733.2	656.5	583.4	506.6	435.3	369.3	306.8	249.8	192.7
50°	974.0	881.3	793.9	708.2	624.4	544.1	467.4	396.0	328.2	265.8	205.2
47.5°	1052.5	950.9	852.7	760.0	670.8	583.4	499.5	421.0	347.9	281.9	217.6
45°	1136.4	1018.6	913.4	813.5	715.4	622.6	531.6	446.0	369.3	297.9	230.1
42.5°	1218.4	1091.8	974.0	868.8	760.0	660.1	563.7	472.8	388.9	312.2	240.8
40°	1311.2	1164.9	1031.1	915.2	802.8	695.7	594.1	497.7	408.5	326.5	251.5
37.5°	1400.4	1236.3	1095.4	965.1	843.8	731.4	624.4	522.7	428.2	340.7	262.2
35°	1491.4	1314.8	1154.2	1011.5	884.8	767.1	652.9	545.9	444.2	353.2	272.9
32.5°	1584.2	1389.7	1216.7	1061.5	925.9	799.2	679.7	567.3	462.0	367.5	281.9
30°	1673.4	1461.1	1275.5	1109.6	963.3	831.3	706.5	588.7	479.9	380.0	290.8
27.5°	1764.3	1536.0	1334.4	1154.2	999.0	859.9	729.6	608.3	495.9	392.5	299.7
25°	1851.8	1607.4	1389.7	1197.0	1031.1	888.4	754.6	628.0	510.2	403.2	306.8
22.5°	1932.0	1669.8	1439.7	1238.1	1065.0	913.4	776.0	645.8	524.5	413.9	314.0
20°	2005.2	1734.0	1491.4	1279.1	1097.1	938.4	793.9	661.9	537.0	422.8	321.1
17.5°	2076.5	1792.9	1537.8	1316.6	1123.9	959.8	811.7	674.3	547.7	429.9	326.5
15°	2137.2	1844.6	1578.8	1348.7	1148.9	977.6	826.0	686.8	556.6	437.1	330.0
12.5°	2190.7	1889.2	1614.5	1375.4	1168.5	993.7	840.2	697.5	565.5	442.4	335.4
10°	2233.5	1924.9	1643.0	1398.6	1186.3	1006.2	849.2	706.5	570.9	447.8	339.0
7.5°	2267.4	1953.4	1666.2	1414.7	1198.8	1016.9	858.1	711.8	576.2	451.3	344.3
5°	2292.4	1974.9	1682.3	1427.2	1209.5	1029.3	868.8	720.7	583.4	456.7	344.3
2.5°	2312.0	1990.9	1694.8	1437.9	1216.7	1029.3	868.8	720.7	583.4	456.7	344.3
0°	2312.0	1990.9	1694.8	1437.9	1216.7	1029.3	868.8	720.7	583.4	456.7	344.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.9	7.1	3.6	0.0
85°	19.6	12.5	7.1	0.0
82.5°	28.5	19.6	8.9	0.0
80°	37.5	25.0	12.5	0.0
77.5°	48.2	32.1	16.1	0.0
75°	57.1	37.5	19.6	0.0
72.5°	66.0	44.6	21.4	0.0
70°	74.9	50.0	25.0	0.0
67.5°	85.6	55.3	28.5	0.0
65°	94.6	62.4	30.3	0.0
62.5°	103.5	67.8	33.9	0.0
60°	112.4	73.1	35.7	0.0
57.5°	121.3	78.5	39.2	0.0
55°	130.2	85.6	42.8	0.0
52.5°	139.1	91.0	44.6	0.0
50°	148.1	96.3	46.4	0.0
47.5°	155.2	101.7	50.0	0.0
45°	164.1	107.0	51.7	0.0
42.5°	173.0	110.6	53.5	0.0
40°	180.2	116.0	55.3	0.0
37.5°	189.1	119.5	58.9	0.0
35°	196.2	124.9	60.7	0.0
32.5°	201.6	128.4	62.4	0.0
30°	208.7	132.0	64.2	0.0
27.5°	214.1	135.6	64.2	0.0
25°	219.4	139.1	66.0	0.0
22.5°	224.8	140.9	67.8	0.0
20°	230.1	144.5	69.6	0.0
17.5°	233.7	146.3	69.6	0.0
15°	237.3	148.1	73.1	0.0
12.5°	239.1	149.9	73.1	0.0
10°	242.6	153.4	73.1	0.0
7.5°	246.2	153.4	73.1	0.0
5°	246.2	153.4	73.1	0.0
2.5°	246.2	153.4	73.1	0.0
0°	246.2	153.4	73.1	0.0

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