

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: P623947

Luminaire Tested: **IFLD-L-SA7A-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623947
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

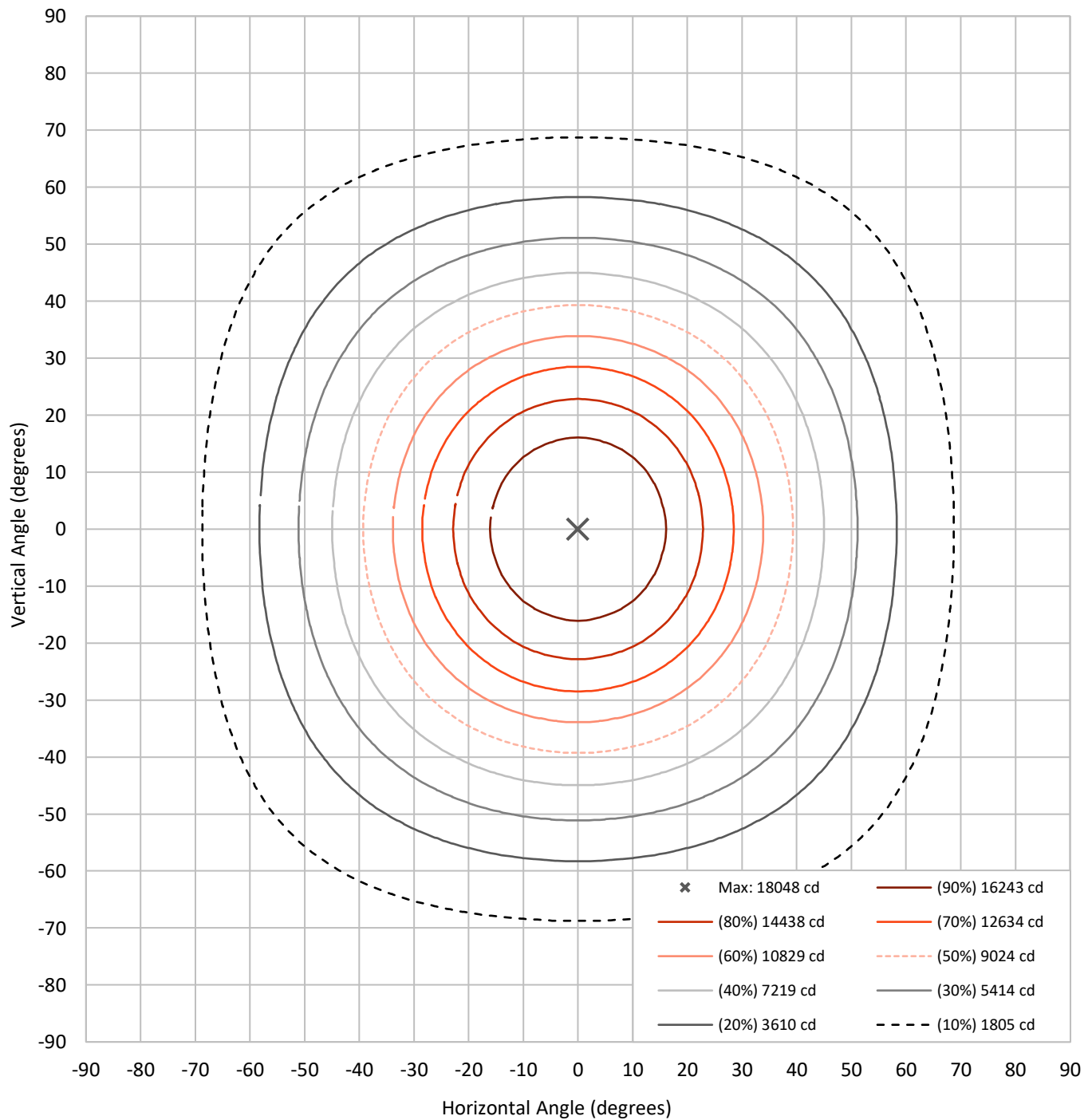
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	32495.9 lumens	Max Intensity:	18048 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	14060.7 lumens	Field Lumens:	23023.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	217.6		
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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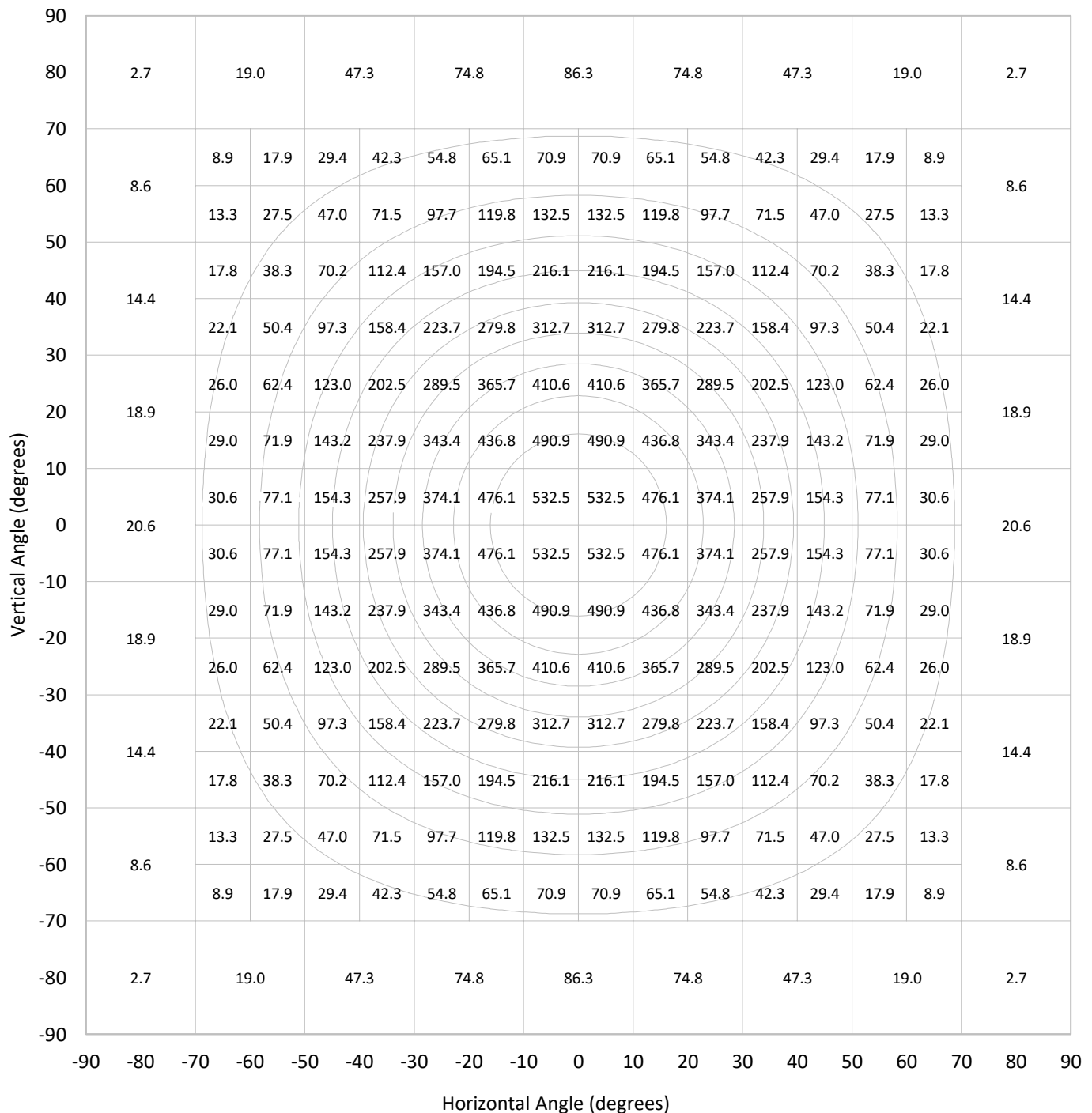
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Iso-Candela Plot



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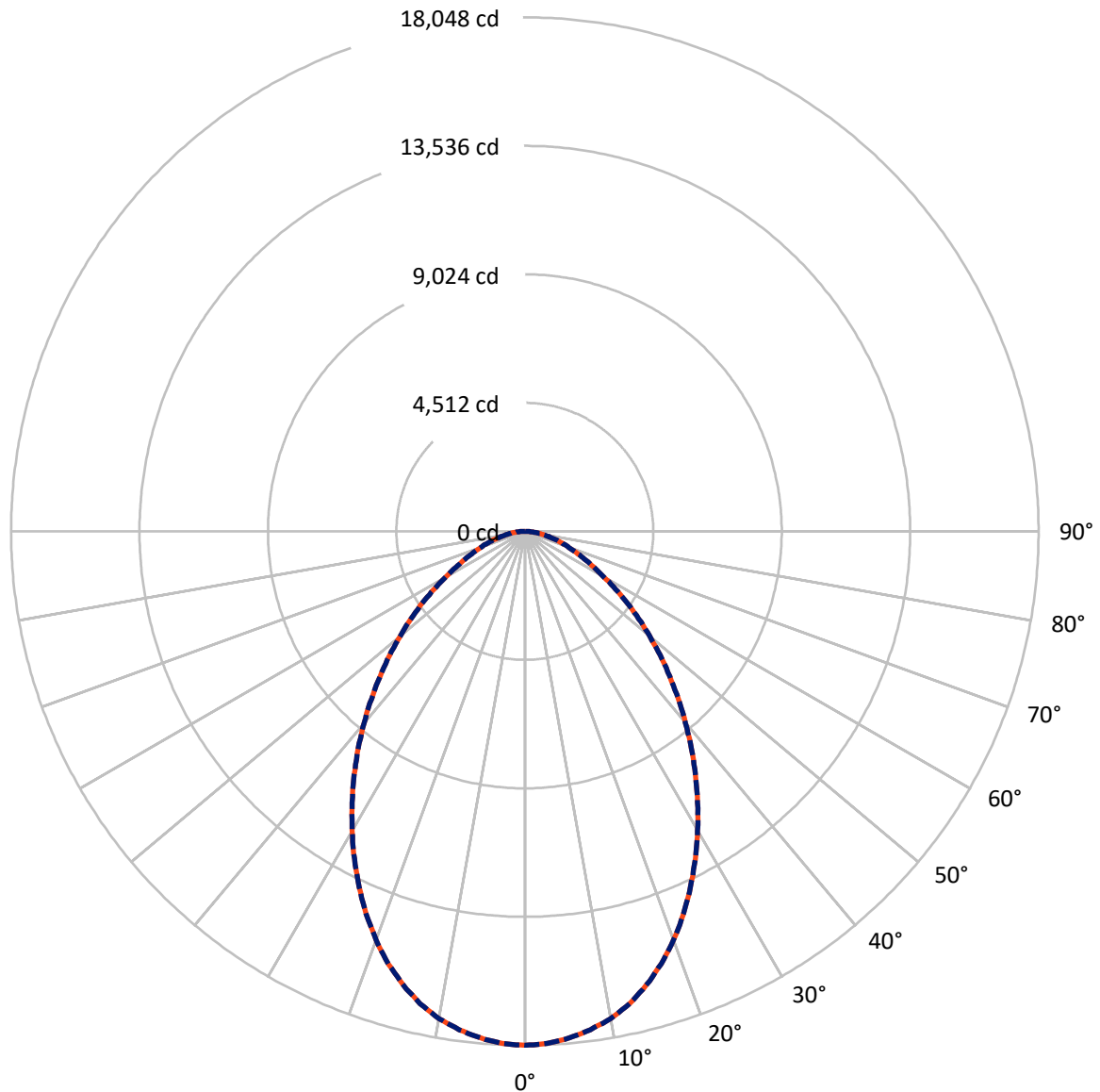
Lumen Table



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Luminous Intensity Polar Plot



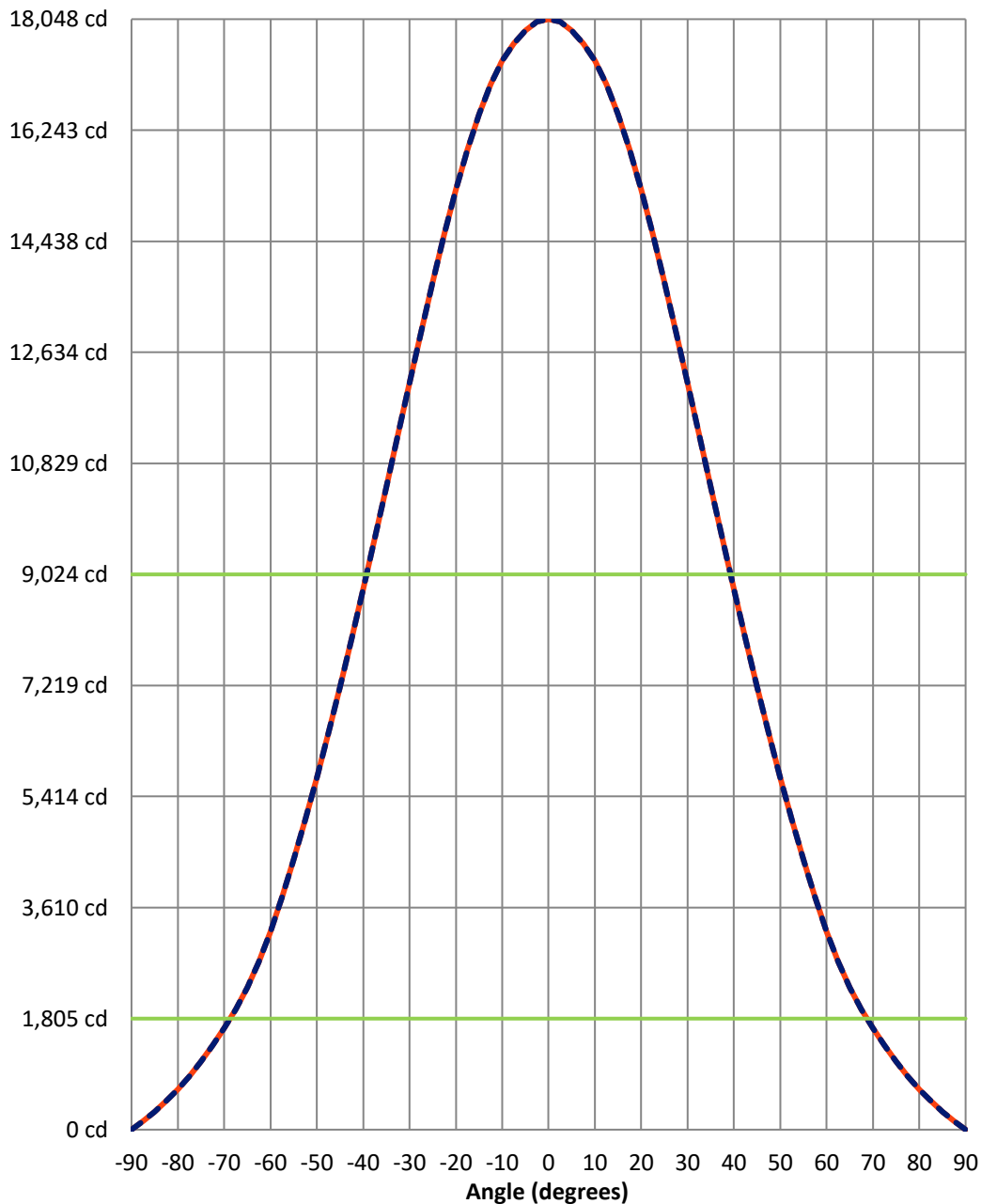
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 14060.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 23023.8
Efficiency: 70.9%

Spill:

Lumens: 9472.1
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°	138.9	138.9	138.9	138.9	138.9	138.9	138.9	132.1	132.1	128.7	125.4
85°	291.4	291.4	291.4	291.4	291.4	284.6	281.2	277.8	274.4	267.7	264.3
82.5°	467.5	467.5	467.5	467.5	460.8	454.0	450.6	443.8	437.1	426.9	416.7
80°	653.9	653.9	653.9	653.9	643.7	636.9	626.8	620.0	609.8	596.3	582.7
77.5°	867.3	867.3	867.3	857.2	850.4	840.2	830.1	816.5	803.0	786.0	765.7
75°	1107.9	1107.9	1107.9	1094.3	1084.2	1074.0	1057.1	1040.1	1019.8	996.1	969.0
72.5°	1368.8	1368.8	1368.8	1351.8	1341.7	1324.7	1304.4	1280.7	1257.0	1226.5	1192.6
70°	1650.0	1650.0	1650.0	1629.6	1612.7	1595.8	1568.7	1541.6	1507.7	1473.8	1433.1
67.5°	1954.9	1954.9	1954.9	1931.2	1910.8	1887.1	1856.6	1822.8	1782.1	1734.7	1687.2
65°	2310.6	2310.6	2297.1	2276.8	2253.0	2219.2	2181.9	2134.5	2083.6	2022.7	1958.3
62.5°	2730.8	2730.8	2710.4	2686.7	2656.2	2612.2	2561.4	2500.4	2429.2	2351.3	2273.4
60°	3218.6	3218.6	3194.9	3164.4	3120.4	3066.2	2998.4	2920.5	2832.4	2734.1	2639.3
57.5°	3781.0	3781.0	3750.5	3709.9	3655.7	3587.9	3503.2	3405.0	3293.2	3171.2	3052.6
55°	4390.9	4390.9	4353.6	4306.2	4241.8	4160.5	4058.9	3943.7	3808.1	3669.2	3516.8
52.5°	5038.0	5038.0	4994.0	4939.7	4865.2	4770.3	4655.2	4519.6	4363.8	4201.2	4021.6
50°	5719.0	5719.0	5668.2	5607.2	5522.5	5410.7	5278.6	5122.7	4949.9	4760.2	4553.5
47.5°	6447.4	6447.4	6389.8	6318.7	6217.0	6088.3	5932.4	5752.9	5556.4	5342.9	5109.1
45°	7196.2	7196.2	7131.8	7050.5	6938.7	6793.0	6620.2	6447.4	6196.7	5949.4	5678.3
42.5°	7975.4	7975.4	7900.9	7809.4	7680.7	7521.4	7324.9	7101.3	6854.0	6576.2	6281.4
40°	8785.2	8785.2	8700.5	8595.4	8453.1	8270.2	8050.0	7799.2	7521.4	7213.1	6887.9
37.5°	9611.8	9611.8	9517.0	9401.8	9242.5	9039.3	8791.9	8514.1	8202.4	7860.2	7501.1
35°	10445.3	10445.3	10340.3	10214.9	10038.7	9815.1	9547.5	9239.2	8893.6	8520.9	8117.7
32.5°	11295.7	11295.7	11180.5	11038.2	10838.3	10591.0	10296.2	9960.8	9611.8	9178.2	8737.7
30°	12135.9	12135.9	12010.6	11854.7	11641.3	11370.2	11048.4	10679.1	10269.1	9825.3	9351.0
27.5°	12962.6	12928.7	12823.7	12657.7	12423.9	12135.9	11787.0	11387.2	10943.3	10455.5	9947.3
25°	13775.7	13738.5	13623.3	13440.3	13189.6	12874.5	12498.4	12071.6	11593.8	11078.9	10523.2
22.5°	14555.0	14514.3	14392.4	14195.8	13928.2	13586.0	13182.8	12725.4	12217.2	11665.0	11078.9
20°	15276.6	15232.6	15107.2	14900.6	14622.7	14260.2	13833.3	13342.1	12800.0	12217.2	11593.8
17.5°	15927.1	15883.1	15751.0	15537.5	15276.6	14873.5	14433.0	13914.6	13342.1	12725.4	12071.6
15°	16499.7	16452.3	16316.8	16103.3	15805.2	15425.7	14961.5	14433.0	13833.3	13182.8	12498.4
12.5°	16987.6	16940.2	16801.2	16587.8	16279.5	15900.0	15425.7	14873.5	14260.2	13586.0	12874.5
10°	17373.8	17326.4	17194.3	16991.0	16672.5	16279.5	15805.2	15276.6	14622.7	13928.2	13189.6
7.5°	17651.6	17607.6	17485.6	17282.3	16991.0	16587.8	16103.3	15537.5	14900.6	14195.8	13440.3
5°	17861.7	17810.9	17688.9	17485.6	17194.3	16801.2	16316.8	15751.0	15107.2	14392.4	13623.3
2.5°	18007.4	17946.4	17810.9	17607.6	17326.4	16940.2	16452.3	15883.1	15232.6	14514.3	13738.5
0°	18048.0	18007.4	17861.7	17651.6	17373.8	16987.6	16499.7	15927.1	15276.6	14555.0	13775.7

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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°	122.0	122.0	118.6	115.2	111.8	105.0	101.6	98.3	94.9	88.1	84.7
85°	257.5	250.7	243.9	237.2	227.0	220.2	210.1	203.3	193.1	183.0	172.8
82.5°	406.6	396.4	382.8	372.7	359.1	342.2	328.6	311.7	294.8	281.2	264.3
80°	569.2	552.2	535.3	518.4	498.0	477.7	457.4	437.1	413.3	389.6	365.9
77.5°	745.4	721.7	697.9	670.8	647.1	620.0	592.9	565.8	535.3	504.8	474.3
75°	941.9	911.4	877.5	843.6	813.1	775.9	738.6	701.3	660.7	623.4	582.7
72.5°	1155.3	1118.0	1077.4	1036.7	992.7	945.3	897.8	847.0	799.6	752.1	701.3
70°	1385.7	1341.7	1290.8	1240.0	1185.8	1128.2	1070.6	1009.6	948.6	887.7	826.7
67.5°	1633.0	1578.8	1517.8	1456.9	1389.1	1321.3	1253.6	1182.4	1107.9	1033.3	962.2
65°	1897.3	1829.5	1758.4	1680.5	1602.5	1524.6	1443.3	1358.6	1273.9	1185.8	1107.9
62.5°	2192.1	2107.4	2015.9	1921.0	1832.9	1738.1	1650.0	1544.9	1443.3	1345.0	1246.8
60°	2534.2	2422.4	2310.6	2192.1	2080.3	1958.3	1849.9	1734.7	1619.5	1507.7	1392.5
57.5°	2917.1	2774.8	2639.3	2497.0	2347.9	2212.4	2073.5	1934.6	1805.8	1673.7	1548.3
55°	3350.8	3178.0	3008.6	2832.4	2659.6	2490.2	2314.0	2158.2	1998.9	1849.9	1704.2
52.5°	3825.1	3628.6	3418.5	3218.6	2998.4	2788.3	2591.8	2395.3	2209.0	2029.4	1863.4
50°	4333.3	4102.9	3862.4	3618.4	3367.7	3120.4	2883.2	2652.8	2436.0	2225.9	2029.4
47.5°	4861.8	4600.9	4326.5	4048.7	3781.0	3479.5	3194.9	2934.0	2673.2	2436.0	2209.0
45°	5403.9	5109.1	4807.6	4492.5	4177.4	3852.2	3537.1	3218.6	2934.0	2652.8	2395.3
42.5°	5962.9	5630.9	5295.5	4946.5	4597.6	4241.8	3886.1	3537.1	3194.9	2883.2	2591.8
40°	6538.9	6173.0	5790.1	5410.7	5038.0	4631.4	4241.8	3852.2	3479.5	3120.4	2788.3
37.5°	7114.9	6715.1	6301.7	5874.8	5448.0	5038.0	4597.6	4177.4	3781.0	3367.7	2998.4
35°	7694.2	7253.8	6806.6	6342.4	5874.8	5410.7	4946.5	4492.5	4048.7	3618.4	3218.6
32.5°	8277.0	7795.9	7301.2	6806.6	6301.7	5790.1	5295.5	4807.6	4326.5	3862.4	3418.5
30°	8849.5	8327.8	7795.9	7253.8	6715.1	6173.0	5630.9	5109.1	4600.9	4102.9	3628.6
27.5°	9408.6	8849.5	8277.0	7694.2	7114.9	6538.9	5962.9	5403.9	4861.8	4333.3	3825.1
25°	9947.3	9351.0	8737.7	8117.7	7501.1	6887.9	6281.4	5678.3	5109.1	4553.5	4021.6
22.5°	10455.5	9825.3	9178.2	8520.9	7860.2	7213.1	6576.2	5949.4	5342.9	4760.2	4201.2
20°	10943.3	10269.1	9611.8	8893.6	8202.4	7521.4	6854.0	6196.7	5556.4	4949.9	4363.8
17.5°	11387.2	10679.1	9960.8	9239.2	8514.1	7799.2	7101.3	6447.4	5752.9	5122.7	4519.6
15°	11787.0	11048.4	10296.2	9547.5	8791.9	8050.0	7324.9	6620.2	5932.4	5278.6	4655.2
12.5°	12135.9	11370.2	10591.0	9815.1	9039.3	8270.2	7521.4	6793.0	6088.3	5410.7	4770.3
10°	12423.9	11641.3	10838.3	10038.7	9242.5	8453.1	7680.7	6938.7	6217.0	5522.5	4865.2
7.5°	12657.7	11854.7	11038.2	10214.9	9401.8	8595.4	7809.4	7050.5	6318.7	5607.2	4939.7
5°	12823.7	12010.6	11180.5	10340.3	9517.0	8700.5	7900.9	7131.8	6389.8	5668.2	4994.0
2.5°	12928.7	12135.9	11295.7	10445.3	9611.8	8785.2	7975.4	7196.2	6447.4	5719.0	5038.0
0°	12962.6	12135.9	11295.7	10445.3	9611.8	8785.2	7975.4	7196.2	6447.4	5719.0	5038.0

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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°	81.3	74.5	67.8	64.4	57.6	54.2	47.4	40.7	37.3	30.5	23.7
85°	162.6	149.1	138.9	128.7	118.6	105.0	94.9	84.7	71.1	61.0	47.4
82.5°	247.3	230.4	213.4	196.5	179.6	162.6	142.3	125.4	108.4	91.5	71.1
80°	342.2	315.1	291.4	267.7	243.9	220.2	193.1	169.4	142.3	118.6	94.9
77.5°	440.4	410.0	376.1	342.2	308.3	277.8	243.9	213.4	183.0	149.1	118.6
75°	545.5	504.8	467.5	423.5	382.8	338.8	298.1	257.5	220.2	183.0	142.3
72.5°	653.9	603.1	552.2	504.8	454.0	403.2	355.7	304.9	257.5	213.4	169.4
70°	765.7	704.7	643.7	586.1	528.5	467.5	413.3	355.7	298.1	243.9	193.1
67.5°	884.3	813.1	742.0	667.4	603.1	535.3	467.5	403.2	338.8	277.8	220.2
65°	1013.0	928.3	840.2	762.3	677.6	603.1	528.5	454.0	382.8	308.3	243.9
62.5°	1145.2	1046.9	948.6	850.4	762.3	667.4	586.1	504.8	423.5	342.2	267.7
60°	1280.7	1168.9	1057.1	948.6	840.2	742.0	643.7	552.2	467.5	376.1	291.4
57.5°	1419.6	1294.2	1168.9	1046.9	928.3	813.1	704.7	603.1	504.8	410.0	315.1
55°	1561.9	1419.6	1280.7	1145.2	1013.0	884.3	765.7	653.9	545.5	440.4	342.2
52.5°	1704.2	1548.3	1392.5	1246.8	1107.9	962.2	826.7	701.3	582.7	474.3	365.9
50°	1849.9	1673.7	1507.7	1345.0	1185.8	1033.3	887.7	752.1	623.4	504.8	389.6
47.5°	1998.9	1805.8	1619.5	1443.3	1273.9	1107.9	948.6	799.6	660.7	535.3	413.3
45°	2158.2	1934.6	1734.7	1544.9	1358.6	1182.4	1009.6	847.0	701.3	565.8	437.1
42.5°	2314.0	2073.5	1849.9	1650.0	1443.3	1253.6	1070.6	897.8	738.6	592.9	457.4
40°	2490.2	2212.4	1958.3	1738.1	1524.6	1321.3	1128.2	945.3	775.9	620.0	477.7
37.5°	2659.6	2347.9	2080.3	1832.9	1602.5	1389.1	1185.8	992.7	813.1	647.1	498.0
35°	2832.4	2497.0	2192.1	1921.0	1680.5	1456.9	1240.0	1036.7	843.6	670.8	518.4
32.5°	3008.6	2639.3	2310.6	2015.9	1758.4	1517.8	1290.8	1077.4	877.5	697.9	535.3
30°	3178.0	2774.8	2422.4	2107.4	1829.5	1578.8	1341.7	1118.0	911.4	721.7	552.2
27.5°	3350.8	2917.1	2534.2	2192.1	1897.3	1633.0	1385.7	1155.3	941.9	745.4	569.2
25°	3516.8	3052.6	2639.3	2273.4	1958.3	1687.2	1433.1	1192.6	969.0	765.7	582.7
22.5°	3669.2	3171.2	2734.1	2351.3	2022.7	1734.7	1473.8	1226.5	996.1	786.0	596.3
20°	3808.1	3293.2	2832.4	2429.2	2083.6	1782.1	1507.7	1257.0	1019.8	803.0	609.8
17.5°	3943.7	3405.0	2920.5	2500.4	2134.5	1822.8	1541.6	1280.7	1040.1	816.5	620.0
15°	4058.9	3503.2	2998.4	2561.4	2181.9	1856.6	1568.7	1304.4	1057.1	830.1	626.8
12.5°	4160.5	3587.9	3066.2	2612.2	2219.2	1887.1	1595.8	1324.7	1074.0	840.2	636.9
10°	4241.8	3655.7	3120.4	2656.2	2253.0	1910.8	1612.7	1341.7	1084.2	850.4	643.7
7.5°	4306.2	3709.9	3164.4	2686.7	2276.8	1931.2	1629.6	1351.8	1094.3	857.2	653.9
5°	4353.6	3750.5	3194.9	2710.4	2297.1	1954.9	1650.0	1368.8	1107.9	867.3	653.9
2.5°	4390.9	3781.0	3218.6	2730.8	2310.6	1954.9	1650.0	1368.8	1107.9	867.3	653.9
0°	4390.9	3781.0	3218.6	2730.8	2310.6	1954.9	1650.0	1368.8	1107.9	867.3	653.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.9	13.6	6.8	0.0
85°	37.3	23.7	13.6	0.0
82.5°	54.2	37.3	16.9	0.0
80°	71.1	47.4	23.7	0.0
77.5°	91.5	61.0	30.5	0.0
75°	108.4	71.1	37.3	0.0
72.5°	125.4	84.7	40.7	0.0
70°	142.3	94.9	47.4	0.0
67.5°	162.6	105.0	54.2	0.0
65°	179.6	118.6	57.6	0.0
62.5°	196.5	128.7	64.4	0.0
60°	213.4	138.9	67.8	0.0
57.5°	230.4	149.1	74.5	0.0
55°	247.3	162.6	81.3	0.0
52.5°	264.3	172.8	84.7	0.0
50°	281.2	183.0	88.1	0.0
47.5°	294.8	193.1	94.9	0.0
45°	311.7	203.3	98.3	0.0
42.5°	328.6	210.1	101.6	0.0
40°	342.2	220.2	105.0	0.0
37.5°	359.1	227.0	111.8	0.0
35°	372.7	237.2	115.2	0.0
32.5°	382.8	243.9	118.6	0.0
30°	396.4	250.7	122.0	0.0
27.5°	406.6	257.5	122.0	0.0
25°	416.7	264.3	125.4	0.0
22.5°	426.9	267.7	128.7	0.0
20°	437.1	274.4	132.1	0.0
17.5°	443.8	277.8	132.1	0.0
15°	450.6	281.2	138.9	0.0
12.5°	454.0	284.6	138.9	0.0
10°	460.8	291.4	138.9	0.0
7.5°	467.5	291.4	138.9	0.0
5°	467.5	291.4	138.9	0.0
2.5°	467.5	291.4	138.9	0.0
0°	467.5	291.4	138.9	0.0

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