

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: P624509

Luminaire Tested: **IFLD-S-SA6E-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624509
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-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

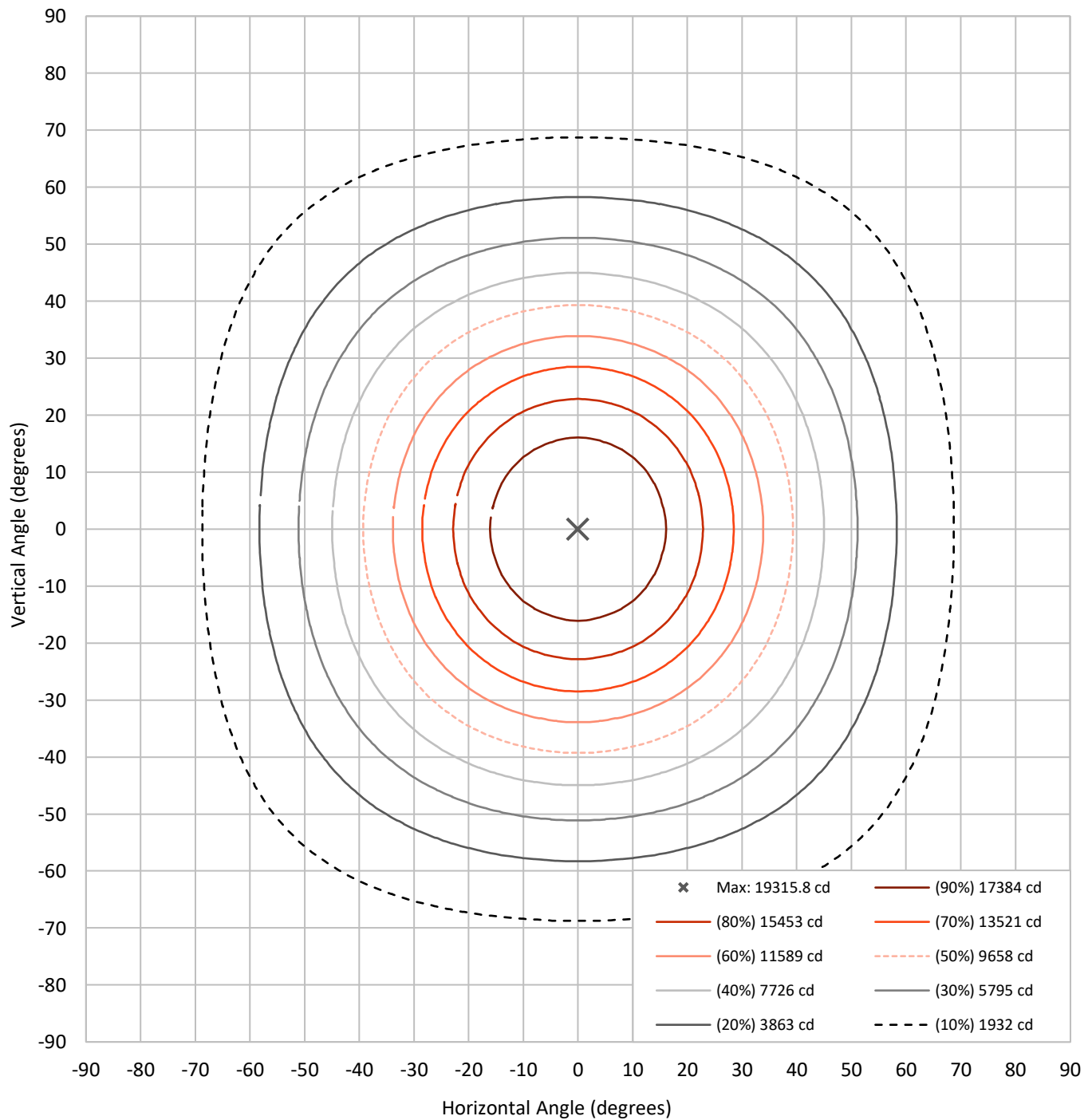
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34778.5 lumens	Max Intensity:	19315.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	74.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	15048.3 lumens	Field Lumens:	24641.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	464.2		
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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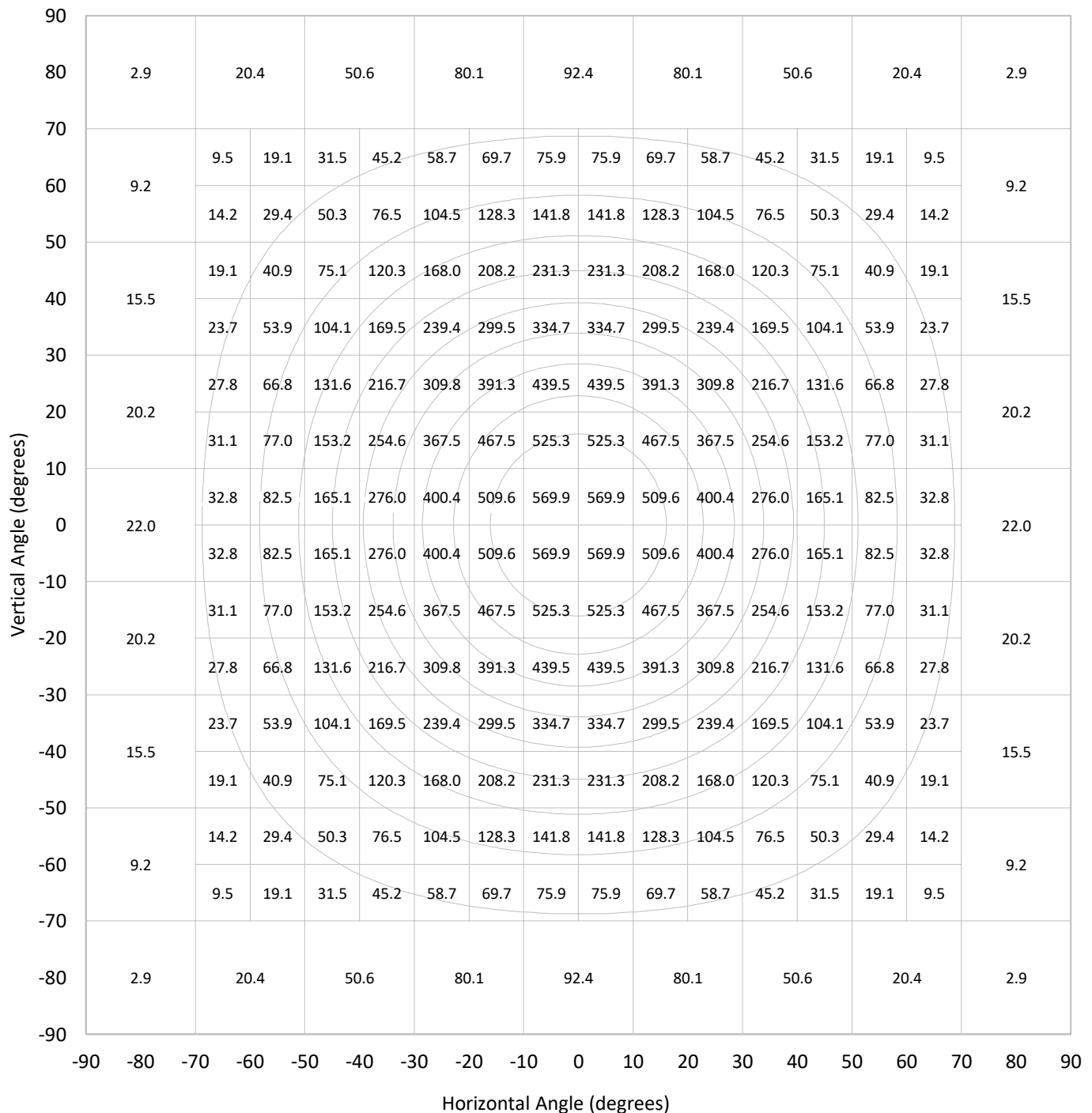
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Iso-Candela Plot



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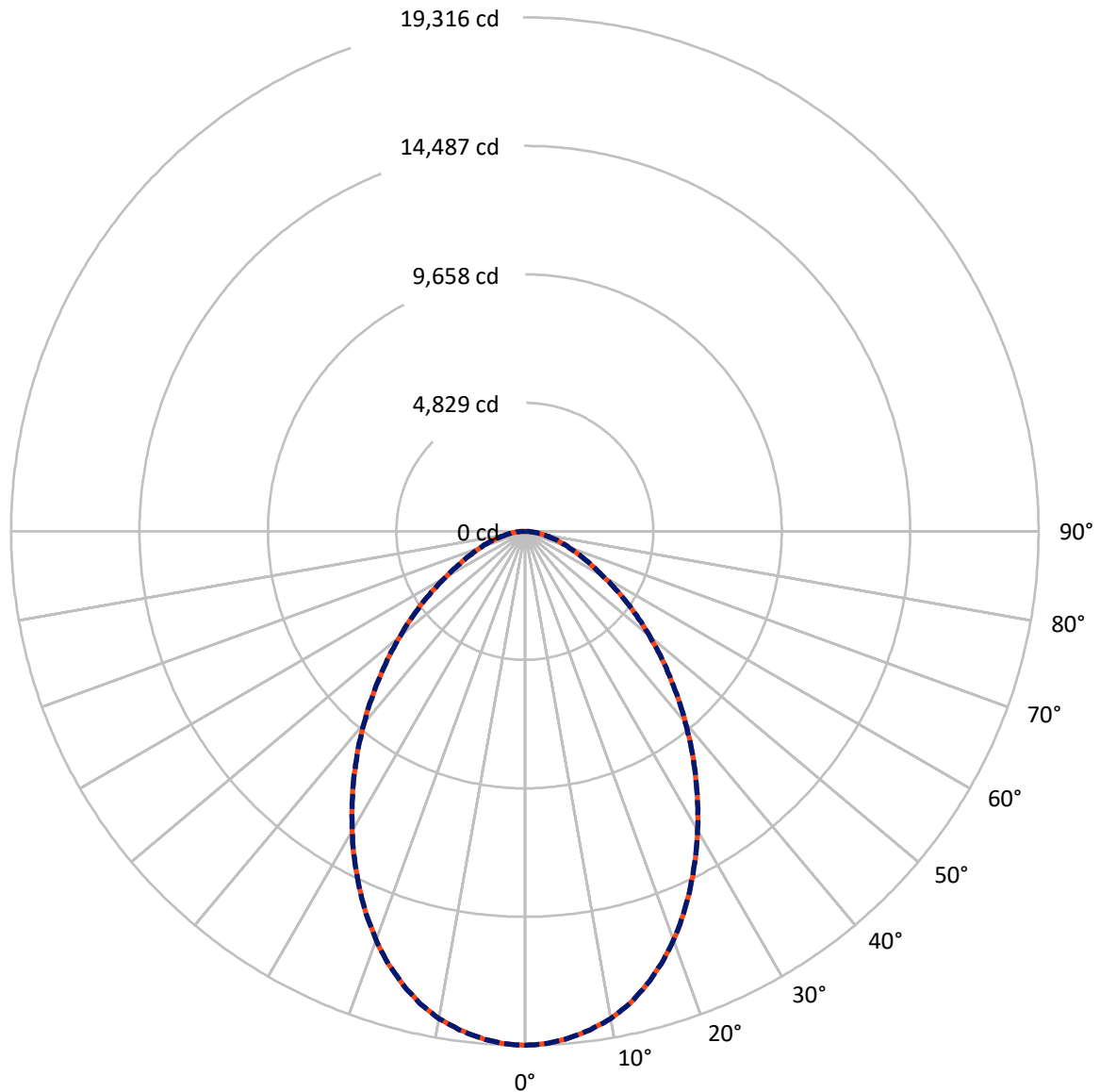
Lumen Table



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Luminous Intensity Polar Plot



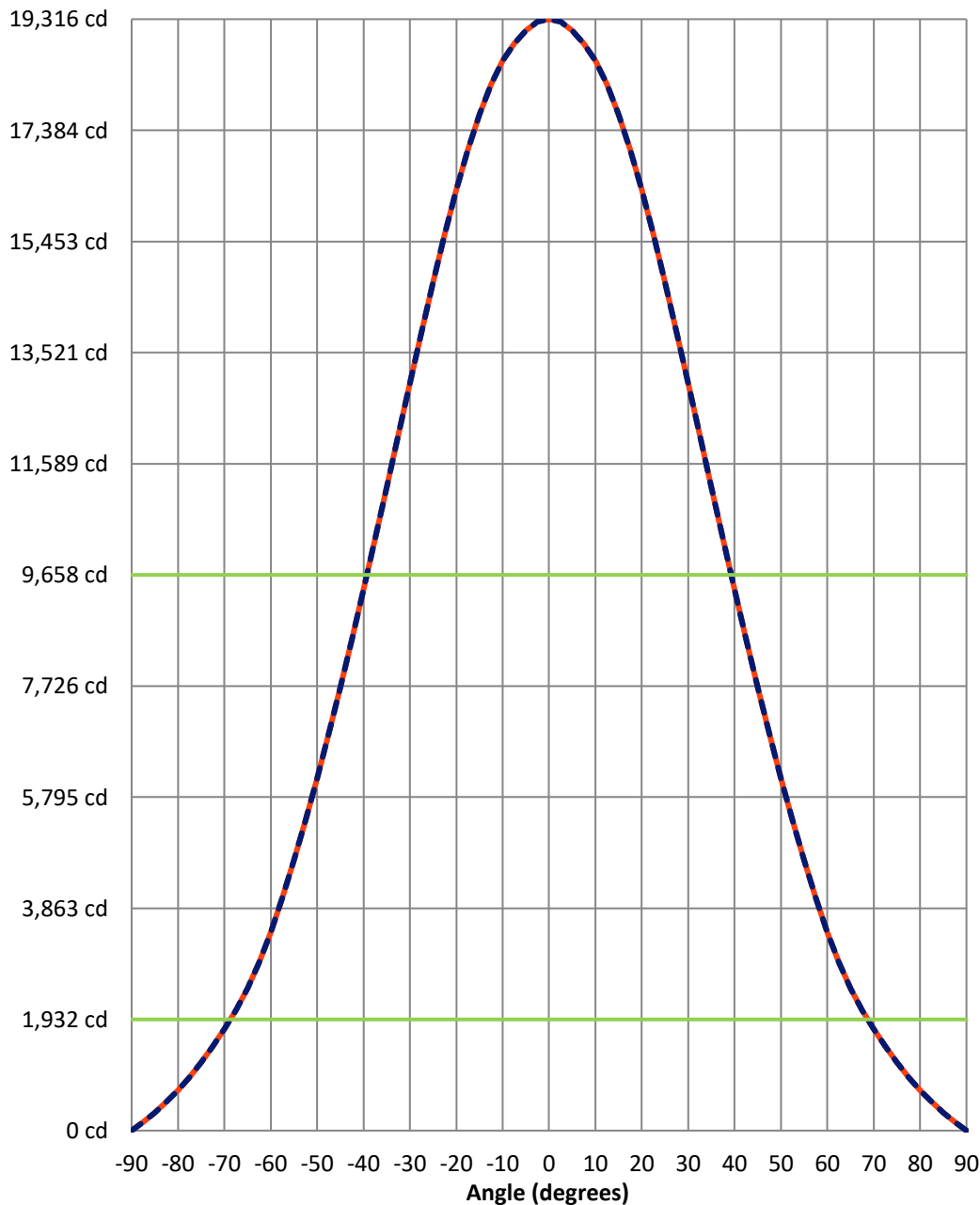
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 15048.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 24641.1
Efficiency: 70.9%

Spill:

Lumens: 10137.4
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°	148.7	148.7	148.7	148.7	148.7	148.7	148.7	141.4	141.4	137.8	134.2
85°	311.8	311.8	311.8	311.8	311.8	304.6	301.0	297.3	293.7	286.5	282.8
82.5°	500.4	500.4	500.4	500.4	493.1	485.9	482.3	475.0	467.8	456.9	446.0
80°	699.8	699.8	699.8	699.8	688.9	681.7	670.8	663.6	652.7	638.2	623.7
77.5°	928.3	928.3	928.3	917.4	910.1	899.3	888.4	873.9	859.4	841.2	819.5
75°	1185.7	1185.7	1185.7	1171.2	1160.3	1149.4	1131.3	1113.2	1091.4	1066.0	1037.0
72.5°	1464.9	1464.9	1464.9	1446.8	1435.9	1417.8	1396.0	1370.6	1345.3	1312.6	1276.4
70°	1765.9	1765.9	1765.9	1744.1	1726.0	1707.9	1678.8	1649.8	1613.6	1577.3	1533.8
67.5°	2092.2	2092.2	2092.2	2066.8	2045.1	2019.7	1987.1	1950.8	1907.3	1856.5	1805.8
65°	2472.9	2472.9	2458.4	2436.7	2411.3	2375.0	2335.2	2284.4	2230.0	2164.7	2095.8
62.5°	2922.6	2922.6	2900.8	2875.4	2842.8	2795.7	2741.3	2676.0	2599.9	2516.5	2433.1
60°	3444.7	3444.7	3419.3	3386.7	3339.6	3281.5	3209.0	3125.6	3031.4	2926.2	2824.7
57.5°	4046.6	4046.6	4014.0	3970.5	3912.5	3840.0	3749.3	3644.1	3524.5	3394.0	3267.0
55°	4699.3	4699.3	4659.4	4608.7	4539.8	4452.8	4344.0	4220.7	4075.6	3927.0	3763.8
52.5°	5391.9	5391.9	5344.8	5286.7	5207.0	5105.4	4982.2	4837.1	4670.3	4496.3	4304.1
50°	6120.7	6120.7	6066.3	6001.1	5910.4	5790.8	5649.3	5482.5	5297.6	5094.6	4873.4
47.5°	6900.3	6900.3	6838.7	6762.5	6653.7	6516.0	6349.2	6157.0	5946.7	5718.2	5468.0
45°	7701.7	7701.7	7632.8	7545.7	7426.1	7270.2	7085.2	6900.3	6632.0	6367.3	6077.2
42.5°	8535.7	8535.7	8455.9	8358.0	8220.2	8049.8	7839.5	7600.1	7335.4	7038.1	6722.6
40°	9402.3	9402.3	9311.6	9199.2	9046.9	8851.1	8615.4	8347.1	8049.8	7719.8	7371.7
37.5°	10287.0	10287.0	10185.5	10062.2	9891.8	9674.2	9409.5	9112.2	8778.6	8412.4	8028.0
35°	11179.0	11179.0	11066.6	10932.4	10743.9	10504.6	10218.1	9888.2	9518.3	9119.4	8687.9
32.5°	12089.1	12089.1	11965.9	11813.6	11599.6	11334.9	11019.5	10660.5	10287.0	9822.9	9351.5
30°	12988.4	12988.4	12854.2	12687.4	12459.0	12168.9	11824.4	11429.2	10990.5	10515.5	10007.8
27.5°	13873.2	13836.9	13724.5	13546.8	13296.6	12988.4	12614.9	12187.1	11712.0	11189.9	10646.0
25°	14743.4	14703.5	14580.2	14384.4	14116.1	13778.9	13376.4	12919.5	12408.2	11857.1	11262.4
22.5°	15577.4	15533.9	15403.3	15193.0	14906.6	14540.3	14108.8	13619.3	13075.4	12484.4	11857.1
20°	16349.7	16302.6	16168.4	15947.2	15649.9	15261.9	14805.0	14279.3	13699.1	13075.4	12408.2
17.5°	17045.9	16998.8	16857.4	16628.9	16349.7	15918.2	15446.8	14892.1	14279.3	13619.3	12919.5
15°	17658.7	17608.0	17462.9	17234.5	16915.4	16509.3	16012.5	15446.8	14805.0	14108.8	13376.4
12.5°	18180.9	18130.1	17981.4	17753.0	17423.0	17016.9	16509.3	15918.2	15261.9	14540.3	13778.9
10°	18594.2	18543.5	18402.0	18184.5	17843.6	17423.0	16915.4	16349.7	15649.9	14906.6	14116.1
7.5°	18891.6	18844.4	18713.9	18496.3	18184.5	17753.0	17234.5	16628.9	15947.2	15193.0	14384.4
5°	19116.4	19062.0	18931.4	18713.9	18402.0	17981.4	17462.9	16857.4	16168.4	15403.3	14580.2
2.5°	19272.3	19207.0	19062.0	18844.4	18543.5	18130.1	17608.0	16998.8	16302.6	15533.9	14703.5
0°	19315.8	19272.3	19116.4	18891.6	18594.2	18180.9	17658.7	17045.9	16349.7	15577.4	14743.4

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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°	130.5	130.5	126.9	123.3	119.7	112.4	108.8	105.2	101.5	94.3	90.7
85°	275.6	268.3	261.1	253.8	242.9	235.7	224.8	217.6	206.7	195.8	184.9
82.5°	435.1	424.2	409.7	398.9	384.4	366.2	351.7	333.6	315.5	301.0	282.8
80°	609.2	591.0	572.9	554.8	533.0	511.3	489.5	467.8	442.4	417.0	391.6
77.5°	797.7	772.3	747.0	718.0	692.6	663.6	634.6	605.5	572.9	540.3	507.6
75°	1008.0	975.4	939.1	902.9	870.2	830.4	790.5	750.6	707.1	667.2	623.7
72.5°	1236.5	1196.6	1153.1	1109.6	1062.4	1011.7	960.9	906.5	855.7	805.0	750.6
70°	1483.0	1435.9	1381.5	1327.1	1269.1	1207.5	1145.8	1080.6	1015.3	950.0	884.7
67.5°	1747.7	1689.7	1624.5	1559.2	1486.7	1414.1	1341.6	1265.5	1185.7	1105.9	1029.8
65°	2030.6	1958.1	1881.9	1798.5	1715.1	1631.7	1544.7	1454.0	1363.4	1269.1	1185.7
62.5°	2346.0	2255.4	2157.5	2056.0	1961.7	1860.1	1765.9	1653.5	1544.7	1439.5	1334.4
60°	2712.3	2592.6	2472.9	2346.0	2226.4	2095.8	1979.8	1856.5	1733.2	1613.6	1490.3
57.5°	3122.0	2969.7	2824.7	2672.4	2512.8	2367.8	2219.1	2070.5	1932.7	1791.3	1657.1
55°	3586.1	3401.2	3219.9	3031.4	2846.4	2665.1	2476.6	2309.8	2139.4	1979.8	1823.9
52.5°	4093.8	3883.5	3658.7	3444.7	3209.0	2984.2	2773.9	2563.6	2364.2	2172.0	1994.3
50°	4637.7	4391.1	4133.7	3872.6	3604.3	3339.6	3085.7	2839.2	2607.1	2382.3	2172.0
47.5°	5203.3	4924.1	4630.4	4333.1	4046.6	3723.9	3419.3	3140.1	2860.9	2607.1	2364.2
45°	5783.5	5468.0	5145.3	4808.1	4470.9	4122.8	3785.6	3444.7	3140.1	2839.2	2563.6
42.5°	6381.8	6026.4	5667.5	5294.0	4920.5	4539.8	4159.0	3785.6	3419.3	3085.7	2773.9
40°	6998.2	6606.6	6196.9	5790.8	5391.9	4956.8	4539.8	4122.8	3723.9	3339.6	2984.2
37.5°	7614.6	7186.8	6744.4	6287.5	5830.6	5391.9	4920.5	4470.9	4046.6	3604.3	3209.0
35°	8234.7	7763.3	7284.7	6787.9	6287.5	5790.8	5294.0	4808.1	4333.1	3872.6	3444.7
32.5°	8858.4	8343.5	7814.1	7284.7	6744.4	6196.9	5667.5	5145.3	4630.4	4133.7	3658.7
30°	9471.2	8912.8	8343.5	7763.3	7186.8	6606.6	6026.4	5468.0	4924.1	4391.1	3883.5
27.5°	10069.5	9471.2	8858.4	8234.7	7614.6	6998.2	6381.8	5783.5	5203.3	4637.7	4093.8
25°	10646.0	10007.8	9351.5	8687.9	8028.0	7371.7	6722.6	6077.2	5468.0	4873.4	4304.1
22.5°	11189.9	10515.5	9822.9	9119.4	8412.4	7719.8	7038.1	6367.3	5718.2	5094.6	4496.3
20°	11712.0	10990.5	10287.0	9518.3	8778.6	8049.8	7335.4	6632.0	5946.7	5297.6	4670.3
17.5°	12187.1	11429.2	10660.5	9888.2	9112.2	8347.1	7600.1	6900.3	6157.0	5482.5	4837.1
15°	12614.9	11824.4	11019.5	10218.1	9409.5	8615.4	7839.5	7085.2	6349.2	5649.3	4982.2
12.5°	12988.4	12168.9	11334.9	10504.6	9674.2	8851.1	8049.8	7270.2	6516.0	5790.8	5105.4
10°	13296.6	12459.0	11599.6	10743.9	9891.8	9046.9	8220.2	7426.1	6653.7	5910.4	5207.0
7.5°	13546.8	12687.4	11813.6	10932.4	10062.2	9199.2	8358.0	7545.7	6762.5	6001.1	5286.7
5°	13724.5	12854.2	11965.9	11066.6	10185.5	9311.6	8455.9	7632.8	6838.7	6066.3	5344.8
2.5°	13836.9	12988.4	12089.1	11179.0	10287.0	9402.3	8535.7	7701.7	6900.3	6120.7	5391.9
0°	13873.2	12988.4	12089.1	11179.0	10287.0	9402.3	8535.7	7701.7	6900.3	6120.7	5391.9

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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°	87.0	79.8	72.5	68.9	61.6	58.0	50.8	43.5	39.9	32.6	25.4
85°	174.0	159.5	148.7	137.8	126.9	112.4	101.5	90.7	76.1	65.3	50.8
82.5°	264.7	246.6	228.4	210.3	192.2	174.0	152.3	134.2	116.0	97.9	76.1
80°	366.2	337.2	311.8	286.5	261.1	235.7	206.7	181.3	152.3	126.9	101.5
77.5°	471.4	438.7	402.5	366.2	330.0	297.3	261.1	228.4	195.8	159.5	126.9
75°	583.8	540.3	500.4	453.3	409.7	362.6	319.1	275.6	235.7	195.8	152.3
72.5°	699.8	645.4	591.0	540.3	485.9	431.5	380.7	326.3	275.6	228.4	181.3
70°	819.5	754.2	688.9	627.3	565.7	500.4	442.4	380.7	319.1	261.1	206.7
67.5°	946.4	870.2	794.1	714.3	645.4	572.9	500.4	431.5	362.6	297.3	235.7
65°	1084.2	993.5	899.3	815.9	725.2	645.4	565.7	485.9	409.7	330.0	261.1
62.5°	1225.6	1120.4	1015.3	910.1	815.9	714.3	627.3	540.3	453.3	366.2	286.5
60°	1370.6	1251.0	1131.3	1015.3	899.3	794.1	688.9	591.0	500.4	402.5	311.8
57.5°	1519.3	1385.1	1251.0	1120.4	993.5	870.2	754.2	645.4	540.3	438.7	337.2
55°	1671.6	1519.3	1370.6	1225.6	1084.2	946.4	819.5	699.8	583.8	471.4	366.2
52.5°	1823.9	1657.1	1490.3	1334.4	1185.7	1029.8	884.7	750.6	623.7	507.6	391.6
50°	1979.8	1791.3	1613.6	1439.5	1269.1	1105.9	950.0	805.0	667.2	540.3	417.0
47.5°	2139.4	1932.7	1733.2	1544.7	1363.4	1185.7	1015.3	855.7	707.1	572.9	442.4
45°	2309.8	2070.5	1856.5	1653.5	1454.0	1265.5	1080.6	906.5	750.6	605.5	467.8
42.5°	2476.6	2219.1	1979.8	1765.9	1544.7	1341.6	1145.8	960.9	790.5	634.6	489.5
40°	2665.1	2367.8	2095.8	1860.1	1631.7	1414.1	1207.5	1011.7	830.4	663.6	511.3
37.5°	2846.4	2512.8	2226.4	1961.7	1715.1	1486.7	1269.1	1062.4	870.2	692.6	533.0
35°	3031.4	2672.4	2346.0	2056.0	1798.5	1559.2	1327.1	1109.6	902.9	718.0	554.8
32.5°	3219.9	2824.7	2472.9	2157.5	1881.9	1624.5	1381.5	1153.1	939.1	747.0	572.9
30°	3401.2	2969.7	2592.6	2255.4	1958.1	1689.7	1435.9	1196.6	975.4	772.3	591.0
27.5°	3586.1	3122.0	2712.3	2346.0	2030.6	1747.7	1483.0	1236.5	1008.0	797.7	609.2
25°	3763.8	3267.0	2824.7	2433.1	2095.8	1805.8	1533.8	1276.4	1037.0	819.5	623.7
22.5°	3927.0	3394.0	2926.2	2516.5	2164.7	1856.5	1577.3	1312.6	1066.0	841.2	638.2
20°	4075.6	3524.5	3031.4	2599.9	2230.0	1907.3	1613.6	1345.3	1091.4	859.4	652.7
17.5°	4220.7	3644.1	3125.6	2676.0	2284.4	1950.8	1649.8	1370.6	1113.2	873.9	663.6
15°	4344.0	3749.3	3209.0	2741.3	2335.2	1987.1	1678.8	1396.0	1131.3	888.4	670.8
12.5°	4452.8	3840.0	3281.5	2795.7	2375.0	2019.7	1707.9	1417.8	1149.4	899.3	681.7
10°	4539.8	3912.5	3339.6	2842.8	2411.3	2045.1	1726.0	1435.9	1160.3	910.1	688.9
7.5°	4608.7	3970.5	3386.7	2875.4	2436.7	2066.8	1744.1	1446.8	1171.2	917.4	699.8
5°	4659.4	4014.0	3419.3	2900.8	2458.4	2092.2	1765.9	1464.9	1185.7	928.3	699.8
2.5°	4699.3	4046.6	3444.7	2922.6	2472.9	2092.2	1765.9	1464.9	1185.7	928.3	699.8
0°	4699.3	4046.6	3444.7	2922.6	2472.9	2092.2	1765.9	1464.9	1185.7	928.3	699.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.1	14.5	7.3	0.0
85°	39.9	25.4	14.5	0.0
82.5°	58.0	39.9	18.1	0.0
80°	76.1	50.8	25.4	0.0
77.5°	97.9	65.3	32.6	0.0
75°	116.0	76.1	39.9	0.0
72.5°	134.2	90.7	43.5	0.0
70°	152.3	101.5	50.8	0.0
67.5°	174.0	112.4	58.0	0.0
65°	192.2	126.9	61.6	0.0
62.5°	210.3	137.8	68.9	0.0
60°	228.4	148.7	72.5	0.0
57.5°	246.6	159.5	79.8	0.0
55°	264.7	174.0	87.0	0.0
52.5°	282.8	184.9	90.7	0.0
50°	301.0	195.8	94.3	0.0
47.5°	315.5	206.7	101.5	0.0
45°	333.6	217.6	105.2	0.0
42.5°	351.7	224.8	108.8	0.0
40°	366.2	235.7	112.4	0.0
37.5°	384.4	242.9	119.7	0.0
35°	398.9	253.8	123.3	0.0
32.5°	409.7	261.1	126.9	0.0
30°	424.2	268.3	130.5	0.0
27.5°	435.1	275.6	130.5	0.0
25°	446.0	282.8	134.2	0.0
22.5°	456.9	286.5	137.8	0.0
20°	467.8	293.7	141.4	0.0
17.5°	475.0	297.3	141.4	0.0
15°	482.3	301.0	148.7	0.0
12.5°	485.9	304.6	148.7	0.0
10°	493.1	311.8	148.7	0.0
7.5°	500.4	311.8	148.7	0.0
5°	500.4	311.8	148.7	0.0
2.5°	500.4	311.8	148.7	0.0
0°	500.4	311.8	148.7	0.0

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