

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: P624523

Luminaire Tested: **IFLD-L-SA8D-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624523
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

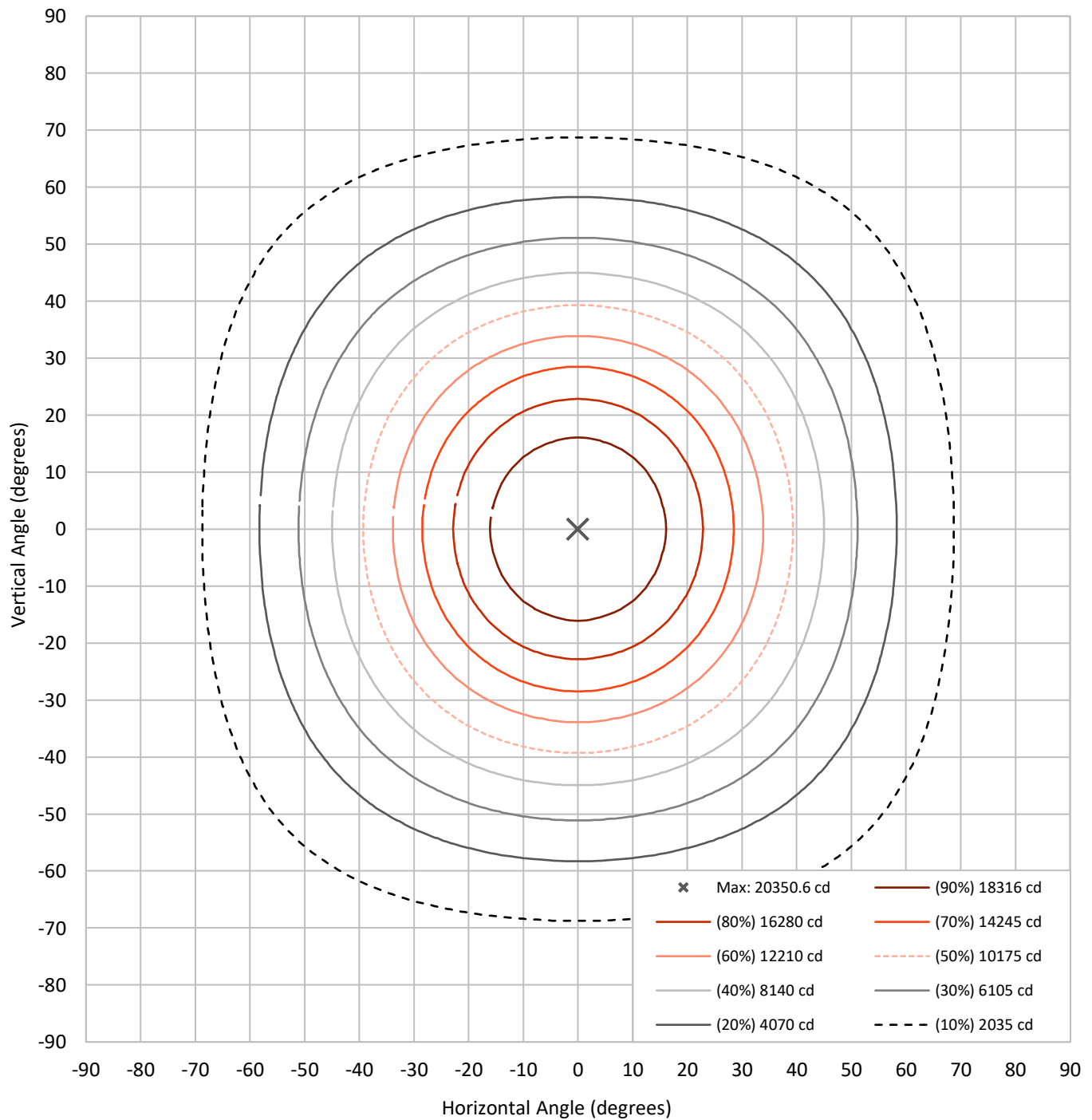
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36641.7 lumens	Max Intensity:	20350.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	75.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	15854.5 lumens	Field Lumens:	25961.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	488.3		
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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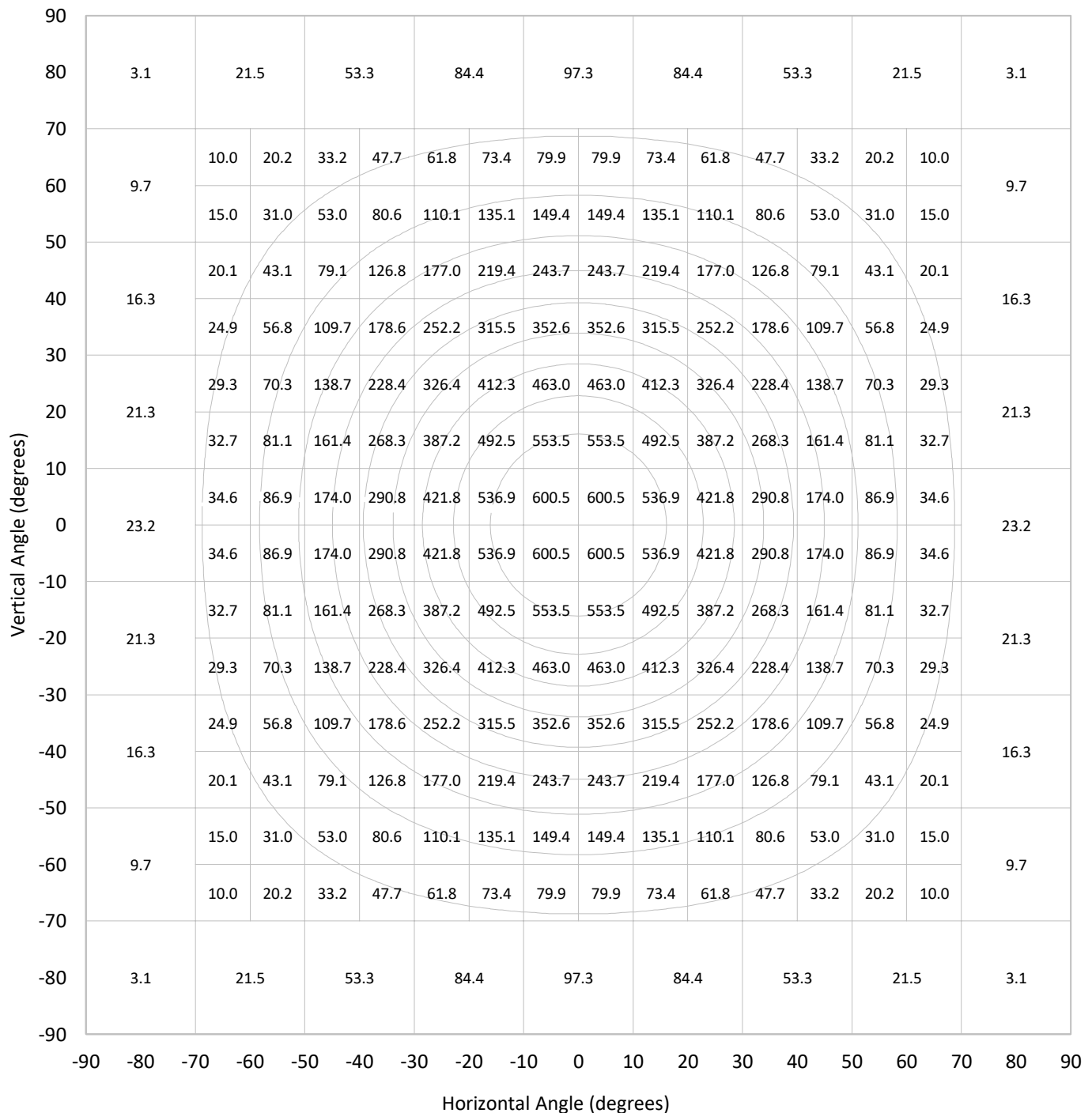
Iso-Candela Plot



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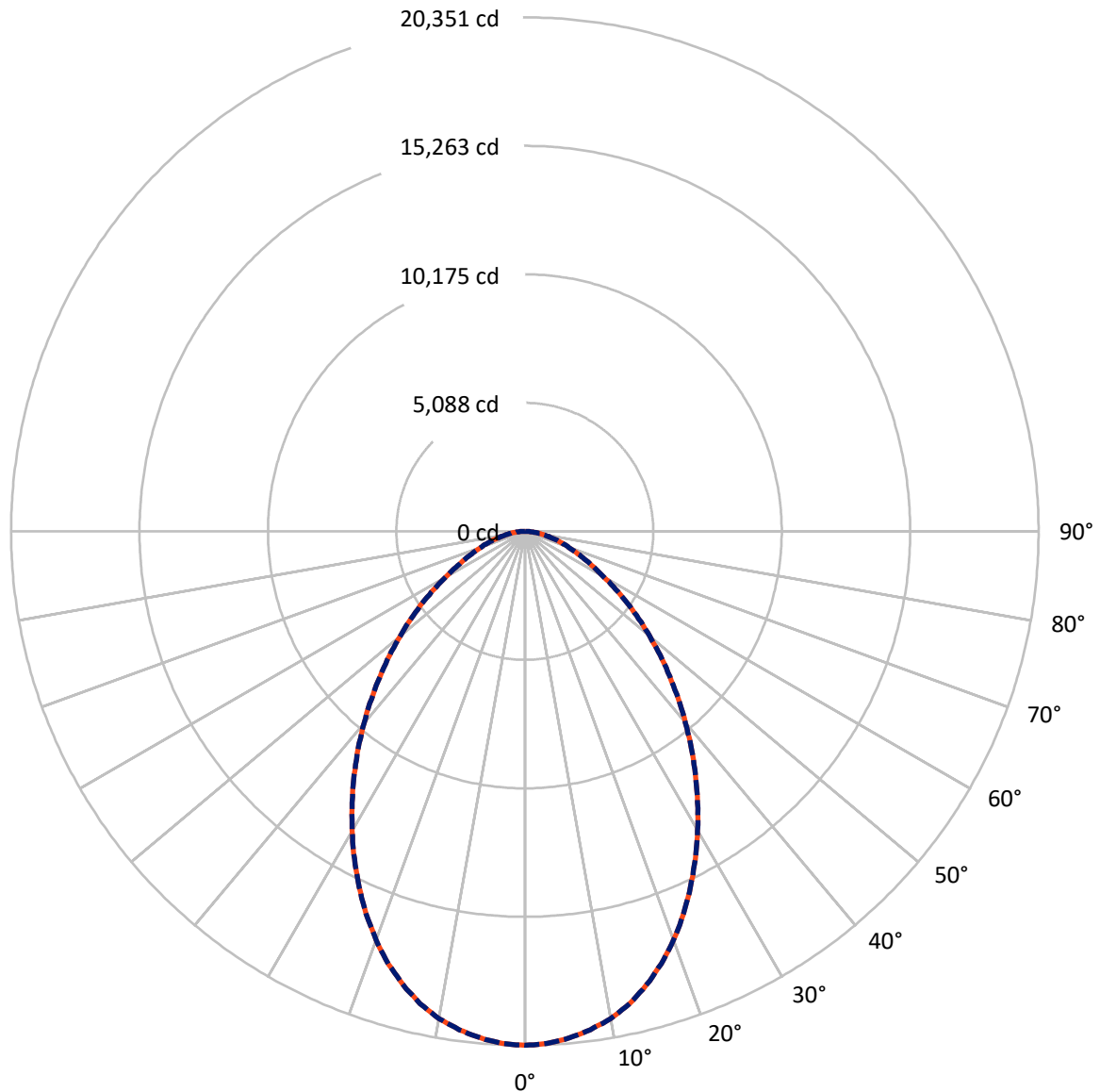
Lumen Table



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Luminous Intensity Polar Plot

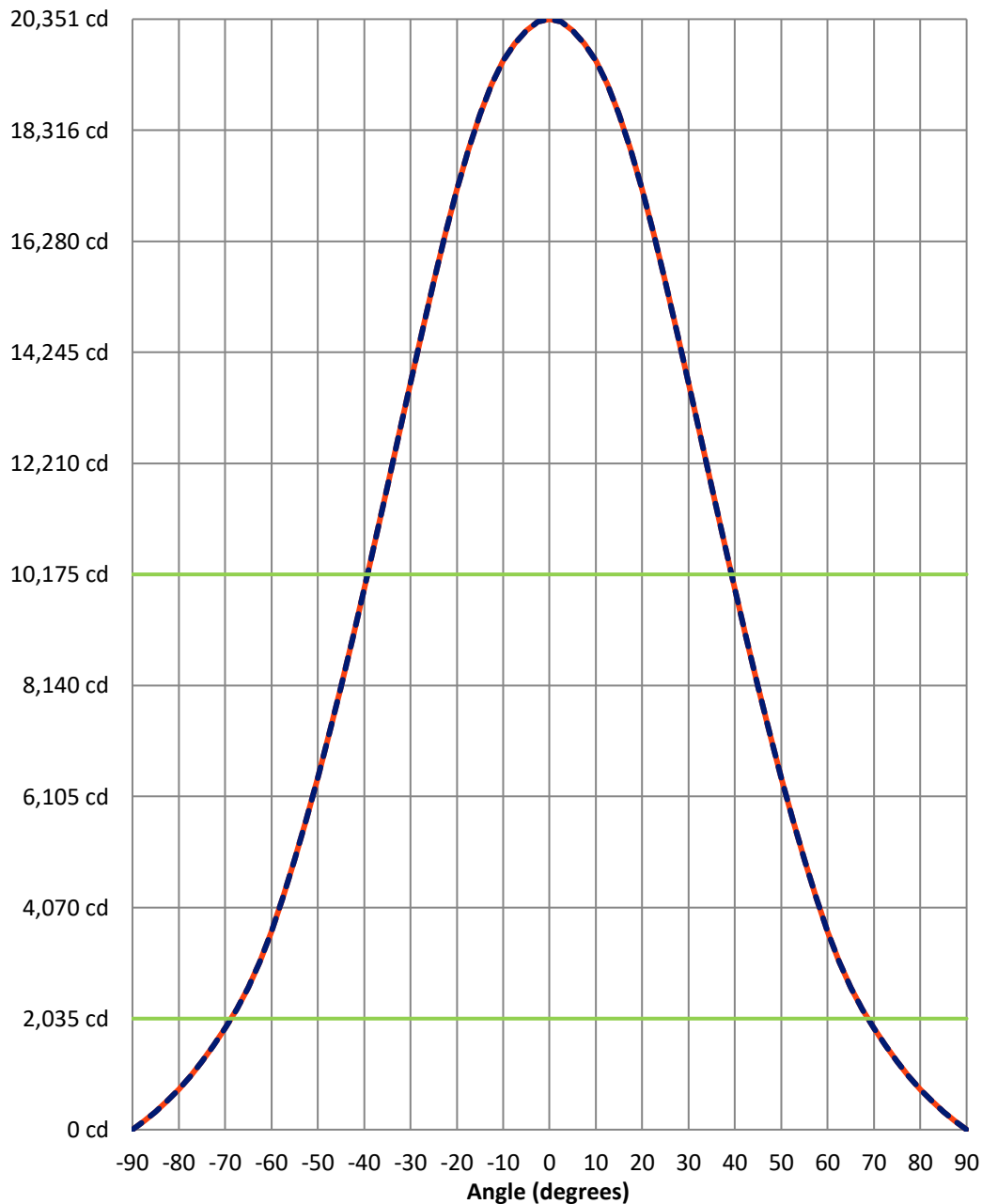


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 15854.5
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 25961.2
Efficiency: 70.9%

Spill:

Lumens: 10680.5
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°	156.6	156.6	156.6	156.6	156.6	156.6	156.6	149.0	149.0	145.2	141.4
85°	328.5	328.5	328.5	328.5	328.5	320.9	317.1	313.3	309.4	301.8	298.0
82.5°	527.2	527.2	527.2	527.2	519.6	511.9	508.1	500.5	492.8	481.4	469.9
80°	737.3	737.3	737.3	737.3	725.9	718.2	706.8	699.1	687.6	672.4	657.1
77.5°	978.0	978.0	978.0	966.5	958.9	947.4	936.0	920.7	905.4	886.3	863.4
75°	1249.2	1249.2	1249.2	1233.9	1222.5	1211.0	1191.9	1172.8	1149.9	1123.2	1092.6
72.5°	1543.4	1543.4	1543.4	1524.3	1512.8	1493.7	1470.8	1444.1	1417.3	1382.9	1344.7
70°	1860.5	1860.5	1860.5	1837.6	1818.5	1799.3	1768.8	1738.2	1700.0	1661.8	1616.0
67.5°	2204.3	2204.3	2204.3	2177.6	2154.6	2127.9	2093.5	2055.3	2009.5	1956.0	1902.5
65°	2605.4	2605.4	2590.1	2567.2	2540.5	2502.3	2460.3	2406.8	2349.5	2280.7	2208.1
62.5°	3079.1	3079.1	3056.2	3029.5	2995.1	2945.4	2888.1	2819.4	2739.1	2651.3	2563.4
60°	3629.3	3629.3	3602.5	3568.1	3518.5	3457.3	3380.9	3293.1	3193.7	3083.0	2976.0
57.5°	4263.4	4263.4	4229.0	4183.2	4122.1	4045.7	3950.2	3839.4	3713.3	3575.8	3442.1
55°	4951.1	4951.1	4909.1	4855.6	4783.0	4691.3	4576.7	4446.8	4294.0	4137.4	3965.4
52.5°	5680.7	5680.7	5631.1	5570.0	5485.9	5378.9	5249.1	5096.2	4920.5	4737.1	4534.7
50°	6448.6	6448.6	6391.3	6322.6	6227.0	6101.0	5952.0	5776.3	5581.4	5367.5	5134.4
47.5°	7270.0	7270.0	7205.0	7124.8	7010.2	6865.0	6689.3	6486.8	6265.2	6024.6	5761.0
45°	8114.3	8114.3	8041.7	7950.0	7823.9	7659.6	7464.8	7270.0	6987.3	6708.4	6402.8
42.5°	8992.9	8992.9	8908.9	8805.7	8660.6	8481.0	8259.4	8007.3	7728.4	7415.2	7082.8
40°	9906.0	9906.0	9810.5	9692.0	9531.6	9325.3	9077.0	8794.3	8481.0	8133.4	7766.6
37.5°	10838.1	10838.1	10731.2	10601.3	10421.7	10192.5	9913.6	9600.3	9248.9	8863.0	8458.1
35°	11777.9	11777.9	11659.5	11518.1	11319.5	11067.3	10765.5	10417.9	10028.2	9608.0	9153.4
32.5°	12736.8	12736.8	12606.9	12446.5	12221.1	11942.2	11609.8	11231.6	10838.1	10349.1	9852.5
30°	13684.2	13684.2	13542.9	13367.1	13126.5	12820.8	12457.9	12041.5	11579.3	11078.8	10544.0
27.5°	14616.4	14578.2	14459.7	14272.5	14008.9	13684.2	13290.7	12839.9	12339.5	11789.4	11216.3
25°	15533.2	15491.2	15361.3	15155.0	14872.3	14517.0	14093.0	13611.6	13073.0	12492.3	11865.8
22.5°	16411.9	16366.1	16228.5	16006.9	15705.1	15319.3	14864.7	14348.9	13775.9	13153.2	12492.3
20°	17225.6	17176.0	17034.6	16801.6	16488.3	16079.5	15598.2	15044.2	14433.0	13775.9	13073.0
17.5°	17959.1	17909.4	17760.5	17519.8	17225.6	16771.0	16274.4	15689.9	15044.2	14348.9	13611.6
15°	18604.7	18551.3	18398.4	18157.8	17821.6	17393.7	16870.3	16274.4	15598.2	14864.7	14093.0
12.5°	19154.9	19101.4	18944.7	18704.1	18356.4	17928.5	17393.7	16771.0	16079.5	15319.3	14517.0
10°	19590.4	19536.9	19387.9	19158.7	18799.6	18356.4	17821.6	17225.6	16488.3	15705.1	14872.3
7.5°	19903.6	19854.0	19716.4	19487.2	19158.7	18704.1	18157.8	17519.8	16801.6	16006.9	15155.0
5°	20140.5	20083.2	19945.7	19716.4	19387.9	18944.7	18398.4	17760.5	17034.6	16228.5	15361.3
2.5°	20304.8	20236.0	20083.2	19854.0	19536.9	19101.4	18551.3	17909.4	17176.0	16366.1	15491.2
0°	20350.6	20304.8	20140.5	19903.6	19590.4	19154.9	18604.7	17959.1	17225.6	16411.9	15533.2

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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°	137.5	137.5	133.7	129.9	126.1	118.4	114.6	110.8	107.0	99.3	95.5
85°	290.3	282.7	275.1	267.4	256.0	248.3	236.9	229.2	217.8	206.3	194.8
82.5°	458.4	447.0	431.7	420.2	404.9	385.8	370.6	351.5	332.4	317.1	298.0
80°	641.8	622.7	603.6	584.5	561.6	538.7	515.7	492.8	466.1	439.3	412.6
77.5°	840.5	813.7	787.0	756.4	729.7	699.1	668.5	638.0	603.6	569.2	534.8
75°	1062.0	1027.7	989.5	951.2	916.9	874.8	832.8	790.8	745.0	702.9	657.1
72.5°	1302.7	1260.7	1214.8	1169.0	1119.3	1065.9	1012.4	955.1	901.6	848.1	790.8
70°	1562.5	1512.8	1455.5	1398.2	1337.1	1272.2	1207.2	1138.4	1069.7	1000.9	932.1
67.5°	1841.4	1780.2	1711.5	1642.7	1566.3	1489.9	1413.5	1333.3	1249.2	1165.2	1085.0
65°	2139.4	2062.9	1982.7	1894.9	1807.0	1719.1	1627.4	1531.9	1436.4	1337.1	1249.2
62.5°	2471.7	2376.2	2273.1	2166.1	2066.8	1959.8	1860.5	1742.0	1627.4	1516.6	1405.9
60°	2857.6	2731.5	2605.4	2471.7	2345.6	2208.1	2085.9	1956.0	1826.1	1700.0	1570.1
57.5°	3289.3	3128.8	2976.0	2815.5	2647.5	2494.6	2338.0	2181.4	2036.2	1887.2	1745.9
55°	3778.3	3583.4	3392.4	3193.7	2998.9	2807.9	2609.2	2433.5	2254.0	2085.9	1921.6
52.5°	4313.1	4091.5	3854.7	3629.3	3380.9	3144.1	2922.5	2700.9	2490.8	2288.3	2101.2
50°	4886.1	4626.4	4355.1	4080.1	3797.4	3518.5	3251.1	2991.3	2746.8	2509.9	2288.3
47.5°	5482.1	5187.9	4878.5	4565.2	4263.4	3923.4	3602.5	3308.4	3014.2	2746.8	2490.8
45°	6093.3	5761.0	5421.0	5065.7	4710.4	4343.7	3988.4	3629.3	3308.4	2991.3	2700.9
42.5°	6723.7	6349.3	5971.1	5577.6	5184.1	4783.0	4381.9	3988.4	3602.5	3251.1	2922.5
40°	7373.1	6960.5	6528.8	6101.0	5680.7	5222.3	4783.0	4343.7	3923.4	3518.5	3144.1
37.5°	8022.6	7571.8	7105.7	6624.4	6143.0	5680.7	5184.1	4710.4	4263.4	3797.4	3380.9
35°	8675.8	8179.2	7674.9	7151.6	6624.4	6101.0	5577.6	5065.7	4565.2	4080.1	3629.3
32.5°	9332.9	8790.5	8232.7	7674.9	7105.7	6528.8	5971.1	5421.0	4878.5	4355.1	3854.7
30°	9978.6	9390.2	8790.5	8179.2	7571.8	6960.5	6349.3	5761.0	5187.9	4626.4	4091.5
27.5°	10608.9	9978.6	9332.9	8675.8	8022.6	7373.1	6723.7	6093.3	5482.1	4886.1	4313.1
25°	11216.3	10544.0	9852.5	9153.4	8458.1	7766.6	7082.8	6402.8	5761.0	5134.4	4534.7
22.5°	11789.4	11078.8	10349.1	9608.0	8863.0	8133.4	7415.2	6708.4	6024.6	5367.5	4737.1
20°	12339.5	11579.3	10838.1	10028.2	9248.9	8481.0	7728.4	6987.3	6265.2	5581.4	4920.5
17.5°	12839.9	12041.5	11231.6	10417.9	9600.3	8794.3	8007.3	7270.0	6486.8	5776.3	5096.2
15°	13290.7	12457.9	11609.8	10765.5	9913.6	9077.0	8259.4	7464.8	6689.3	5952.0	5249.1
12.5°	13684.2	12820.8	11942.2	11067.3	10192.5	9325.3	8481.0	7659.6	6865.0	6101.0	5378.9
10°	14008.9	13126.5	12221.1	11319.5	10421.7	9531.6	8660.6	7823.9	7010.2	6227.0	5485.9
7.5°	14272.5	13367.1	12446.5	11518.1	10601.3	9692.0	8805.7	7950.0	7124.8	6322.6	5570.0
5°	14459.7	13542.9	12606.9	11659.5	10731.2	9810.5	8908.9	8041.7	7205.0	6391.3	5631.1
2.5°	14578.2	13684.2	12736.8	11777.9	10838.1	9906.0	8992.9	8114.3	7270.0	6448.6	5680.7
0°	14616.4	13684.2	12736.8	11777.9	10838.1	9906.0	8992.9	8114.3	7270.0	6448.6	5680.7

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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°	91.7	84.0	76.4	72.6	64.9	61.1	53.5	45.8	42.0	34.4	26.7
85°	183.4	168.1	156.6	145.2	133.7	118.4	107.0	95.5	80.2	68.8	53.5
82.5°	278.9	259.8	240.7	221.6	202.5	183.4	160.5	141.4	122.2	103.1	80.2
80°	385.8	355.3	328.5	301.8	275.1	248.3	217.8	191.0	160.5	133.7	107.0
77.5°	496.6	462.3	424.1	385.8	347.6	313.3	275.1	240.7	206.3	168.1	133.7
75°	615.1	569.2	527.2	477.5	431.7	382.0	336.2	290.3	248.3	206.3	160.5
72.5°	737.3	680.0	622.7	569.2	511.9	454.6	401.1	343.8	290.3	240.7	191.0
70°	863.4	794.6	725.9	660.9	596.0	527.2	466.1	401.1	336.2	275.1	217.8
67.5°	997.1	916.9	836.6	752.6	680.0	603.6	527.2	454.6	382.0	313.3	248.3
65°	1142.3	1046.8	947.4	859.6	764.1	680.0	596.0	511.9	431.7	347.6	275.1
62.5°	1291.3	1180.5	1069.7	958.9	859.6	752.6	660.9	569.2	477.5	385.8	301.8
60°	1444.1	1318.0	1191.9	1069.7	947.4	836.6	725.9	622.7	527.2	424.1	328.5
57.5°	1600.7	1459.3	1318.0	1180.5	1046.8	916.9	794.6	680.0	569.2	462.3	355.3
55°	1761.1	1600.7	1444.1	1291.3	1142.3	997.1	863.4	737.3	615.1	496.6	385.8
52.5°	1921.6	1745.9	1570.1	1405.9	1249.2	1085.0	932.1	790.8	657.1	534.8	412.6
50°	2085.9	1887.2	1700.0	1516.6	1337.1	1165.2	1000.9	848.1	702.9	569.2	439.3
47.5°	2254.0	2036.2	1826.1	1627.4	1436.4	1249.2	1069.7	901.6	745.0	603.6	466.1
45°	2433.5	2181.4	1956.0	1742.0	1531.9	1333.3	1138.4	955.1	790.8	638.0	492.8
42.5°	2609.2	2338.0	2085.9	1860.5	1627.4	1413.5	1207.2	1012.4	832.8	668.5	515.7
40°	2807.9	2494.6	2208.1	1959.8	1719.1	1489.9	1272.2	1065.9	874.8	699.1	538.7
37.5°	2998.9	2647.5	2345.6	2066.8	1807.0	1566.3	1337.1	1119.3	916.9	729.7	561.6
35°	3193.7	2815.5	2471.7	2166.1	1894.9	1642.7	1398.2	1169.0	951.2	756.4	584.5
32.5°	3392.4	2976.0	2605.4	2273.1	1982.7	1711.5	1455.5	1214.8	989.5	787.0	603.6
30°	3583.4	3128.8	2731.5	2376.2	2062.9	1780.2	1512.8	1260.7	1027.7	813.7	622.7
27.5°	3778.3	3289.3	2857.6	2471.7	2139.4	1841.4	1562.5	1302.7	1062.0	840.5	641.8
25°	3965.4	3442.1	2976.0	2563.4	2208.1	1902.5	1616.0	1344.7	1092.6	863.4	657.1
22.5°	4137.4	3575.8	3083.0	2651.3	2280.7	1956.0	1661.8	1382.9	1123.2	886.3	672.4
20°	4294.0	3713.3	3193.7	2739.1	2349.5	2009.5	1700.0	1417.3	1149.9	905.4	687.6
17.5°	4446.8	3839.4	3293.1	2819.4	2406.8	2055.3	1738.2	1444.1	1172.8	920.7	699.1
15°	4576.7	3950.2	3380.9	2888.1	2460.3	2093.5	1768.8	1470.8	1191.9	936.0	706.8
12.5°	4691.3	4045.7	3457.3	2945.4	2502.3	2127.9	1799.3	1493.7	1211.0	947.4	718.2
10°	4783.0	4122.1	3518.5	2995.1	2540.5	2154.6	1818.5	1512.8	1222.5	958.9	725.9
7.5°	4855.6	4183.2	3568.1	3029.5	2567.2	2177.6	1837.6	1524.3	1233.9	966.5	737.3
5°	4909.1	4229.0	3602.5	3056.2	2590.1	2204.3	1860.5	1543.4	1249.2	978.0	737.3
2.5°	4951.1	4263.4	3629.3	3079.1	2605.4	2204.3	1860.5	1543.4	1249.2	978.0	737.3
0°	4951.1	4263.4	3629.3	3079.1	2605.4	2204.3	1860.5	1543.4	1249.2	978.0	737.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.1	15.3	7.6	0.0
85°	42.0	26.7	15.3	0.0
82.5°	61.1	42.0	19.1	0.0
80°	80.2	53.5	26.7	0.0
77.5°	103.1	68.8	34.4	0.0
75°	122.2	80.2	42.0	0.0
72.5°	141.4	95.5	45.8	0.0
70°	160.5	107.0	53.5	0.0
67.5°	183.4	118.4	61.1	0.0
65°	202.5	133.7	64.9	0.0
62.5°	221.6	145.2	72.6	0.0
60°	240.7	156.6	76.4	0.0
57.5°	259.8	168.1	84.0	0.0
55°	278.9	183.4	91.7	0.0
52.5°	298.0	194.8	95.5	0.0
50°	317.1	206.3	99.3	0.0
47.5°	332.4	217.8	107.0	0.0
45°	351.5	229.2	110.8	0.0
42.5°	370.6	236.9	114.6	0.0
40°	385.8	248.3	118.4	0.0
37.5°	404.9	256.0	126.1	0.0
35°	420.2	267.4	129.9	0.0
32.5°	431.7	275.1	133.7	0.0
30°	447.0	282.7	137.5	0.0
27.5°	458.4	290.3	137.5	0.0
25°	469.9	298.0	141.4	0.0
22.5°	481.4	301.8	145.2	0.0
20°	492.8	309.4	149.0	0.0
17.5°	500.5	313.3	149.0	0.0
15°	508.1	317.1	156.6	0.0
12.5°	511.9	320.9	156.6	0.0
10°	519.6	328.5	156.6	0.0
7.5°	527.2	328.5	156.6	0.0
5°	527.2	328.5	156.6	0.0
2.5°	527.2	328.5	156.6	0.0
0°	527.2	328.5	156.6	0.0

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