

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: P623923

Luminaire Tested: **IFLD-L-SA8A-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623923
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

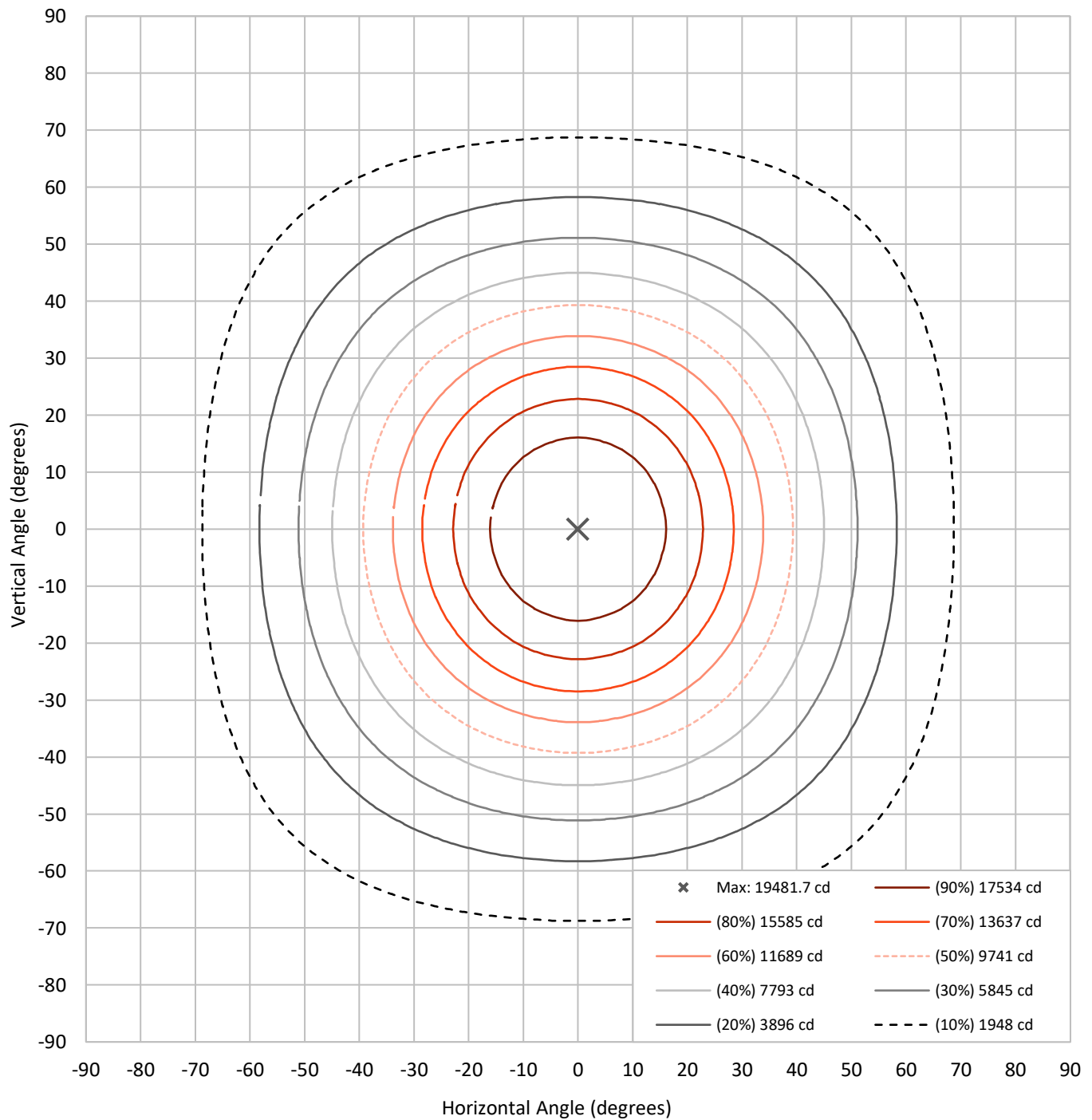
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	35077.2 lumens	Max Intensity:	19481.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	141.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	15177.6 lumens	Field Lumens:	24852.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	247.8		
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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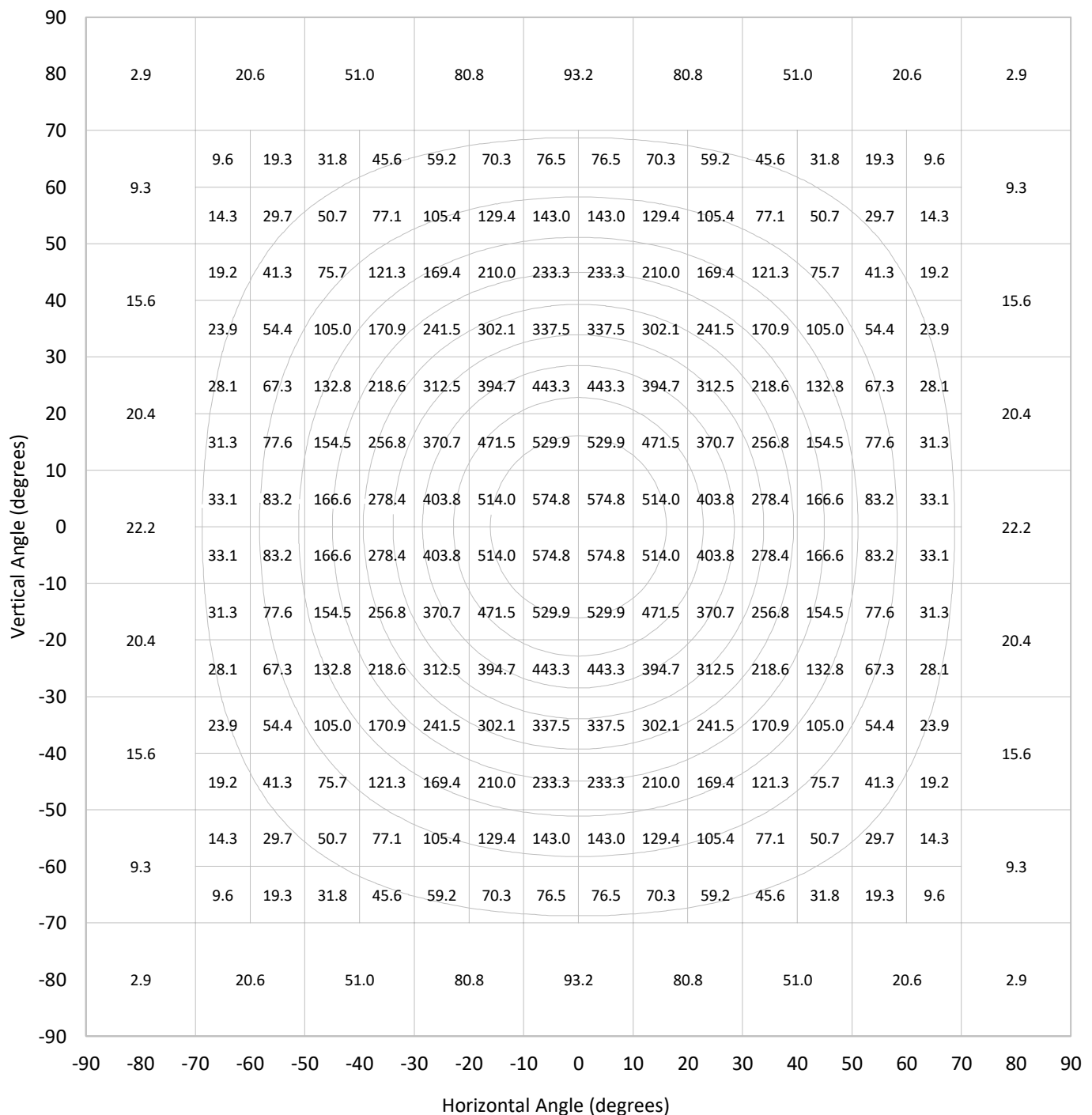
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Iso-Candela Plot



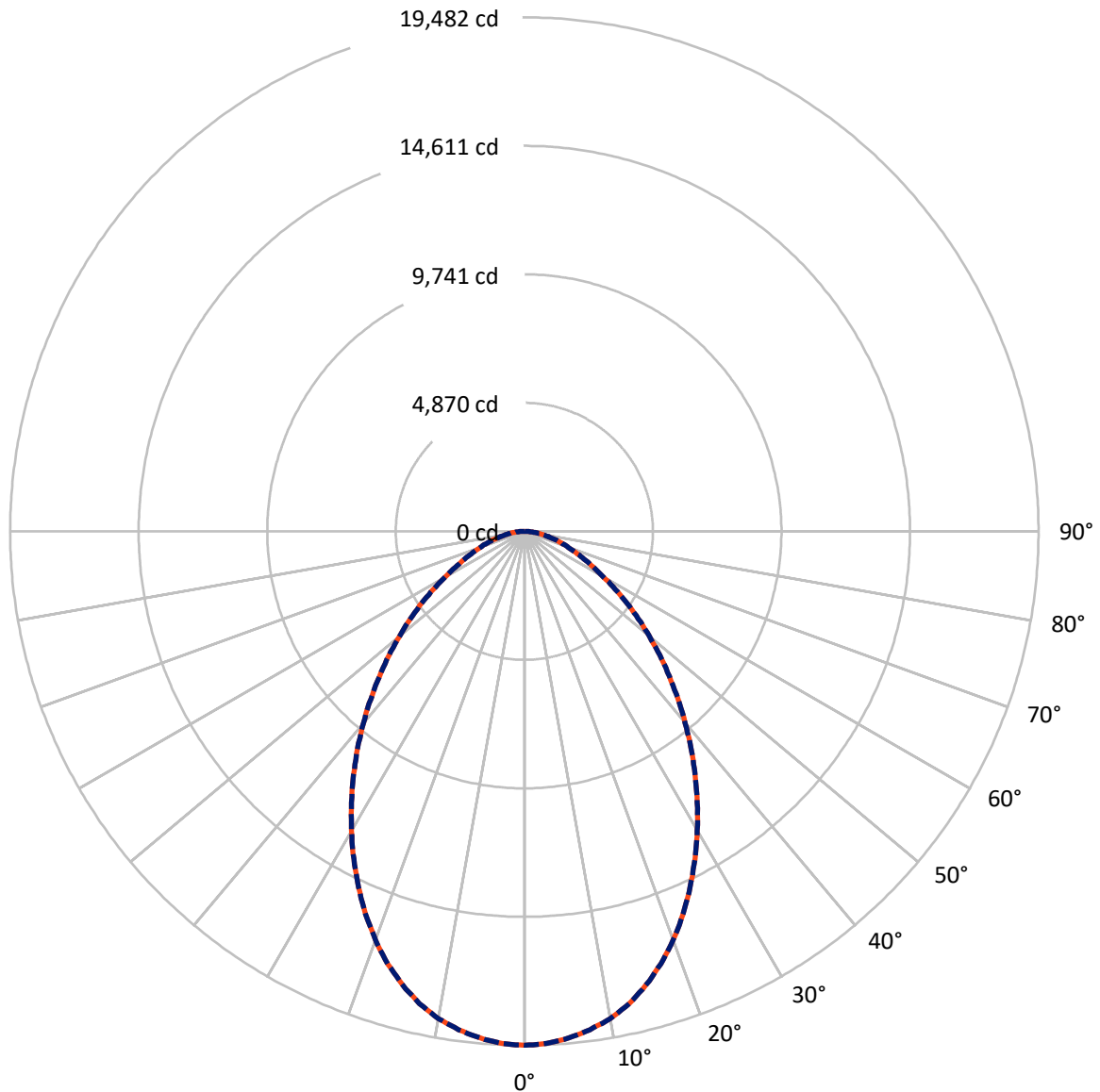
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Lumen Table



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Luminous Intensity Polar Plot

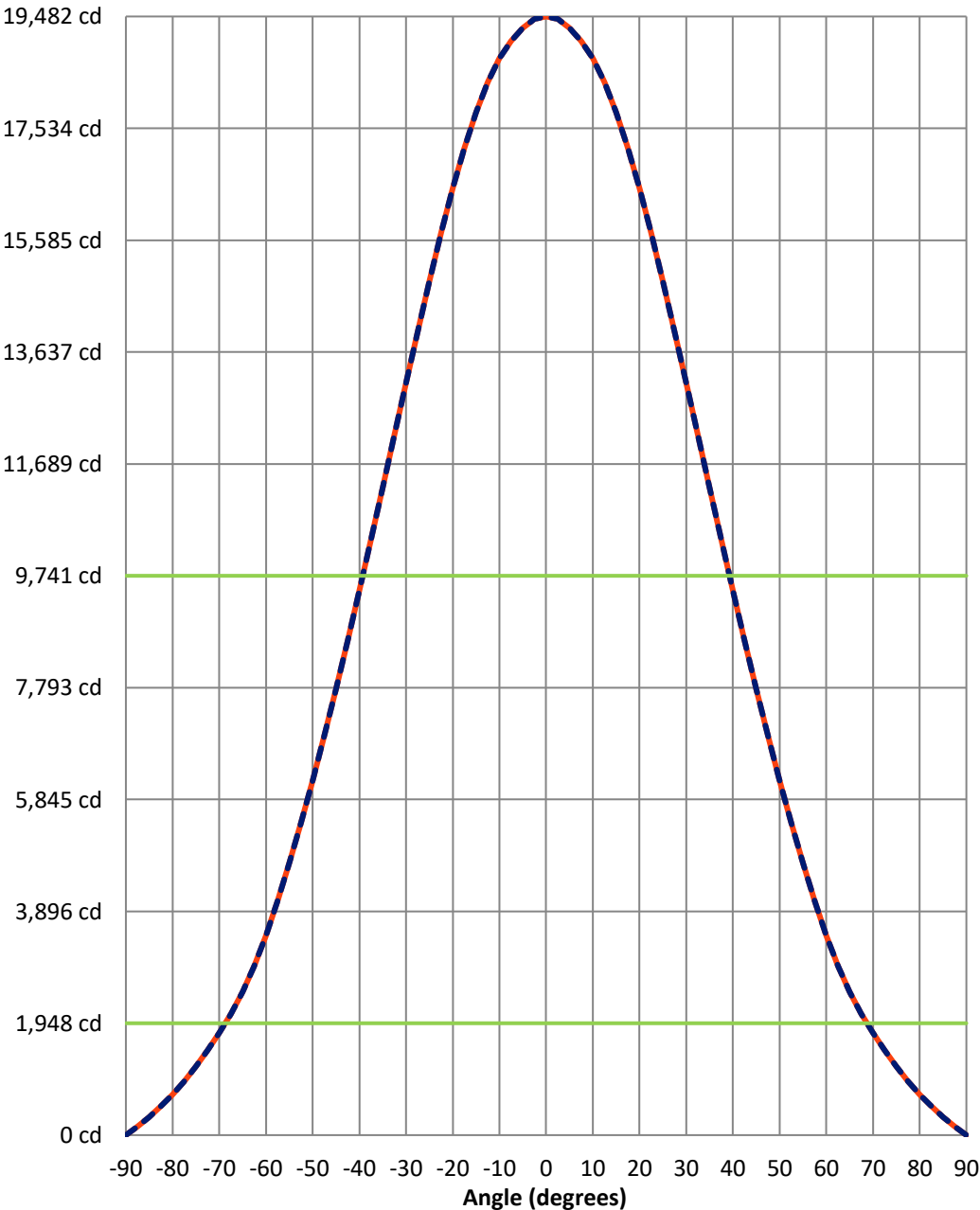


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 15177.6
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 24852.8
Efficiency: 70.9%

Spill:
Lumens: 10224.5
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°	149.9	149.9	149.9	149.9	149.9	149.9	149.9	142.6	142.6	139.0	135.3
85°	314.5	314.5	314.5	314.5	314.5	307.2	303.5	299.9	296.2	288.9	285.3
82.5°	504.7	504.7	504.7	504.7	497.4	490.1	486.4	479.1	471.8	460.8	449.8
80°	705.8	705.8	705.8	705.8	694.9	687.5	676.6	669.3	658.3	643.7	629.0
77.5°	936.2	936.2	936.2	925.3	917.9	907.0	896.0	881.4	866.7	848.5	826.5
75°	1195.9	1195.9	1195.9	1181.3	1170.3	1159.3	1141.0	1122.7	1100.8	1075.2	1045.9
72.5°	1477.5	1477.5	1477.5	1459.2	1448.2	1430.0	1408.0	1382.4	1356.8	1323.9	1287.3
70°	1781.0	1781.0	1781.0	1759.1	1740.8	1722.5	1693.3	1664.0	1627.4	1590.9	1547.0
67.5°	2110.2	2110.2	2110.2	2084.6	2062.6	2037.0	2004.1	1967.6	1923.7	1872.5	1821.3
65°	2494.2	2494.2	2479.6	2457.6	2432.0	2395.4	2355.2	2304.0	2249.2	2183.3	2113.8
62.5°	2947.7	2947.7	2925.7	2900.1	2867.2	2819.7	2764.8	2699.0	2622.2	2538.1	2454.0
60°	3474.3	3474.3	3448.7	3415.8	3368.2	3309.7	3236.6	3152.5	3057.4	2951.3	2848.9
57.5°	4081.4	4081.4	4048.5	4004.6	3946.1	3872.9	3781.5	3675.4	3554.8	3423.1	3295.1
55°	4739.7	4739.7	4699.5	4648.3	4578.8	4491.0	4381.3	4256.9	4110.7	3960.7	3796.1
52.5°	5438.2	5438.2	5390.7	5332.1	5251.7	5149.3	5024.9	4878.7	4710.4	4534.9	4341.1
50°	6173.3	6173.3	6118.4	6052.6	5961.2	5840.5	5697.9	5529.6	5343.1	5138.3	4915.2
47.5°	6959.6	6959.6	6897.4	6820.6	6710.9	6571.9	6403.7	6209.9	5997.7	5767.3	5515.0
45°	7767.8	7767.8	7698.3	7610.6	7489.9	7332.6	7146.1	6959.6	6689.0	6422.0	6129.4
42.5°	8609.0	8609.0	8528.5	8429.8	8290.8	8118.9	7906.8	7665.4	7398.4	7098.6	6780.4
40°	9483.0	9483.0	9391.6	9278.2	9124.6	8927.1	8689.4	8418.8	8118.9	7786.1	7435.0
37.5°	10375.4	10375.4	10273.0	10148.6	9976.7	9757.3	9490.3	9190.5	8854.0	8484.6	8097.0
35°	11275.0	11275.0	11161.7	11026.3	10836.2	10594.8	10305.9	9973.1	9600.1	9197.8	8762.6
32.5°	12193.0	12193.0	12068.6	11915.0	11699.3	11432.3	11114.1	10752.1	10375.4	9907.3	9431.8
30°	13100.0	13100.0	12964.6	12796.4	12566.0	12273.4	11926.0	11527.4	11084.9	10605.8	10093.8
27.5°	13992.3	13955.7	13842.4	13663.2	13410.8	13100.0	12723.3	12291.7	11812.6	11286.0	10737.4
25°	14870.0	14829.8	14705.5	14508.0	14237.3	13897.2	13491.3	13030.5	12514.8	11958.9	11359.1
22.5°	15711.2	15667.3	15535.6	15323.5	15034.6	14665.2	14230.0	13736.3	13187.7	12591.6	11958.9
20°	16490.1	16442.6	16307.3	16084.2	15784.3	15393.0	14932.2	14401.9	13816.8	13187.7	12514.8
17.5°	17192.3	17144.8	17002.2	16771.8	16490.1	16054.9	15579.5	15020.0	14401.9	13736.3	13030.5
15°	17810.4	17759.2	17612.9	17382.5	17060.7	16651.1	16150.0	15579.5	14932.2	14230.0	13491.3
12.5°	18337.0	18285.8	18135.9	17905.5	17572.7	17163.1	16651.1	16054.9	15393.0	14665.2	13897.2
10°	18753.9	18702.7	18560.1	18340.7	17996.9	17572.7	17060.7	16490.1	15784.3	15034.6	14237.3
7.5°	19053.8	19006.3	18874.6	18655.2	18340.7	17905.5	17382.5	16771.8	16084.2	15323.5	14508.0
5°	19280.6	19225.7	19094.1	18874.6	18560.1	18135.9	17612.9	17002.2	16307.3	15535.6	14705.5
2.5°	19437.8	19372.0	19225.7	19006.3	18702.7	18285.8	17759.2	17144.8	16442.6	15667.3	14829.8
0°	19481.7	19437.8	19280.6	19053.8	18753.9	18337.0	17810.4	17192.3	16490.1	15711.2	14870.0

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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°	131.7	131.7	128.0	124.3	120.7	113.4	109.7	106.1	102.4	95.1	91.4
85°	277.9	270.6	263.3	256.0	245.0	237.7	226.7	219.4	208.5	197.5	186.5
82.5°	438.9	427.9	413.3	402.3	387.7	369.4	354.7	336.5	318.2	303.5	285.3
80°	614.4	596.1	577.8	559.5	537.6	515.7	493.7	471.8	446.2	420.6	395.0
77.5°	804.6	779.0	753.4	724.1	698.5	669.3	640.0	610.7	577.8	544.9	512.0
75°	1016.7	983.8	947.2	910.6	877.7	837.5	797.3	757.0	713.1	672.9	629.0
72.5°	1247.1	1206.9	1163.0	1119.1	1071.5	1020.3	969.1	914.3	863.1	811.9	757.0
70°	1495.8	1448.2	1393.4	1338.5	1280.0	1217.8	1155.7	1089.8	1024.0	958.2	892.3
67.5°	1762.8	1704.2	1638.4	1572.6	1499.4	1426.3	1353.2	1276.4	1195.9	1115.4	1038.6
65°	2048.0	1974.9	1898.1	1814.0	1729.8	1645.7	1558.0	1466.5	1375.1	1280.0	1195.9
62.5°	2366.2	2274.8	2176.0	2073.6	1978.5	1876.1	1781.0	1667.7	1558.0	1451.9	1345.8
60°	2735.6	2614.9	2494.2	2366.2	2245.5	2113.8	1996.8	1872.5	1748.1	1627.4	1503.1
57.5°	3148.8	2995.2	2848.9	2695.3	2534.4	2388.1	2238.2	2088.2	1949.3	1806.6	1671.3
55°	3616.9	3430.4	3247.6	3057.4	2870.9	2688.0	2497.8	2329.6	2157.7	1996.8	1839.6
52.5°	4128.9	3916.8	3690.1	3474.3	3236.6	3009.8	2797.7	2585.6	2384.5	2190.6	2011.4
50°	4677.5	4428.8	4169.2	3905.9	3635.2	3368.2	3112.2	2863.6	2629.5	2402.8	2190.6
47.5°	5248.0	4966.4	4670.2	4370.3	4081.4	3755.9	3448.7	3167.1	2885.5	2629.5	2384.5
45°	5833.2	5515.0	5189.5	4849.4	4509.3	4158.2	3818.1	3474.3	3167.1	2863.6	2585.6
42.5°	6436.6	6078.2	5716.1	5339.5	4962.8	4578.8	4194.8	3818.1	3448.7	3112.2	2797.7
40°	7058.3	6663.4	6250.1	5840.5	5438.2	4999.3	4578.8	4158.2	3755.9	3368.2	3009.8
37.5°	7680.0	7248.5	6802.3	6341.5	5880.7	5438.2	4962.8	4509.3	4081.4	3635.2	3236.6
35°	8305.4	7830.0	7347.2	6846.2	6341.5	5840.5	5339.5	4849.4	4370.3	3905.9	3474.3
32.5°	8934.5	8415.1	7881.2	7347.2	6802.3	6250.1	5716.1	5189.5	4670.2	4169.2	3690.1
30°	9552.5	8989.3	8415.1	7830.0	7248.5	6663.4	6078.2	5515.0	4966.4	4428.8	3916.8
27.5°	10155.9	9552.5	8934.5	8305.4	7680.0	7058.3	6436.6	5833.2	5248.0	4677.5	4128.9
25°	10737.4	10093.8	9431.8	8762.6	8097.0	7435.0	6780.4	6129.4	5515.0	4915.2	4341.1
22.5°	11286.0	10605.8	9907.3	9197.8	8484.6	7786.1	7098.6	6422.0	5767.3	5138.3	4534.9
20°	11812.6	11084.9	10375.4	9600.1	8854.0	8118.9	7398.4	6689.0	5997.7	5343.1	4710.4
17.5°	12291.7	11527.4	10752.1	9973.1	9190.5	8418.8	7665.4	6959.6	6209.9	5529.6	4878.7
15°	12723.3	11926.0	11114.1	10305.9	9490.3	8689.4	7906.8	7146.1	6403.7	5697.9	5024.9
12.5°	13100.0	12273.4	11432.3	10594.8	9757.3	8927.1	8118.9	7332.6	6571.9	5840.5	5149.3
10°	13410.8	12566.0	11699.3	10836.2	9976.7	9124.6	8290.8	7489.9	6710.9	5961.2	5251.7
7.5°	13663.2	12796.4	11915.0	11026.3	10148.6	9278.2	8429.8	7610.6	6820.6	6052.6	5332.1
5°	13842.4	12964.6	12068.6	11161.7	10273.0	9391.6	8528.5	7698.3	6897.4	6118.4	5390.7
2.5°	13955.7	13100.0	12193.0	11275.0	10375.4	9483.0	8609.0	7767.8	6959.6	6173.3	5438.2
0°	13992.3	13100.0	12193.0	11275.0	10375.4	9483.0	8609.0	7767.8	6959.6	6173.3	5438.2

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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°	87.8	80.5	73.1	69.5	62.2	58.5	51.2	43.9	40.2	32.9	25.6
85°	175.5	160.9	149.9	139.0	128.0	113.4	102.4	91.4	76.8	65.8	51.2
82.5°	267.0	248.7	230.4	212.1	193.8	175.5	153.6	135.3	117.0	98.7	76.8
80°	369.4	340.1	314.5	288.9	263.3	237.7	208.5	182.9	153.6	128.0	102.4
77.5°	475.4	442.5	405.9	369.4	332.8	299.9	263.3	230.4	197.5	160.9	128.0
75°	588.8	544.9	504.7	457.1	413.3	365.7	321.8	277.9	237.7	197.5	153.6
72.5°	705.8	651.0	596.1	544.9	490.1	435.2	384.0	329.1	277.9	230.4	182.9
70°	826.5	760.7	694.9	632.7	570.5	504.7	446.2	384.0	321.8	263.3	208.5
67.5°	954.5	877.7	800.9	720.5	651.0	577.8	504.7	435.2	365.7	299.9	237.7
65°	1093.5	1002.1	907.0	822.9	731.4	651.0	570.5	490.1	413.3	332.8	263.3
62.5°	1236.1	1130.1	1024.0	917.9	822.9	720.5	632.7	544.9	457.1	369.4	288.9
60°	1382.4	1261.7	1141.0	1024.0	907.0	800.9	694.9	596.1	504.7	405.9	314.5
57.5°	1532.4	1397.0	1261.7	1130.1	1002.1	877.7	760.7	651.0	544.9	442.5	340.1
55°	1686.0	1532.4	1382.4	1236.1	1093.5	954.5	826.5	705.8	588.8	475.4	369.4
52.5°	1839.6	1671.3	1503.1	1345.8	1195.9	1038.6	892.3	757.0	629.0	512.0	395.0
50°	1996.8	1806.6	1627.4	1451.9	1280.0	1115.4	958.2	811.9	672.9	544.9	420.6
47.5°	2157.7	1949.3	1748.1	1558.0	1375.1	1195.9	1024.0	863.1	713.1	577.8	446.2
45°	2329.6	2088.2	1872.5	1667.7	1466.5	1276.4	1089.8	914.3	757.0	610.7	471.8
42.5°	2497.8	2238.2	1996.8	1781.0	1558.0	1353.2	1155.7	969.1	797.3	640.0	493.7
40°	2688.0	2388.1	2113.8	1876.1	1645.7	1426.3	1217.8	1020.3	837.5	669.3	515.7
37.5°	2870.9	2534.4	2245.5	1978.5	1729.8	1499.4	1280.0	1071.5	877.7	698.5	537.6
35°	3057.4	2695.3	2366.2	2073.6	1814.0	1572.6	1338.5	1119.1	910.6	724.1	559.5
32.5°	3247.6	2848.9	2494.2	2176.0	1898.1	1638.4	1393.4	1163.0	947.2	753.4	577.8
30°	3430.4	2995.2	2614.9	2274.8	1974.9	1704.2	1448.2	1206.9	983.8	779.0	596.1
27.5°	3616.9	3148.8	2735.6	2366.2	2048.0	1762.8	1495.8	1247.1	1016.7	804.6	614.4
25°	3796.1	3295.1	2848.9	2454.0	2113.8	1821.3	1547.0	1287.3	1045.9	826.5	629.0
22.5°	3960.7	3423.1	2951.3	2538.1	2183.3	1872.5	1590.9	1323.9	1075.2	848.5	643.7
20°	4110.7	3554.8	3057.4	2622.2	2249.2	1923.7	1627.4	1356.8	1100.8	866.7	658.3
17.5°	4256.9	3675.4	3152.5	2699.0	2304.0	1967.6	1664.0	1382.4	1122.7	881.4	669.3
15°	4381.3	3781.5	3236.6	2764.8	2355.2	2004.1	1693.3	1408.0	1141.0	896.0	676.6
12.5°	4491.0	3872.9	3309.7	2819.7	2395.4	2037.0	1722.5	1430.0	1159.3	907.0	687.5
10°	4578.8	3946.1	3368.2	2867.2	2432.0	2062.6	1740.8	1448.2	1170.3	917.9	694.9
7.5°	4648.3	4004.6	3415.8	2900.1	2457.6	2084.6	1759.1	1459.2	1181.3	925.3	705.8
5°	4699.5	4048.5	3448.7	2925.7	2479.6	2110.2	1781.0	1477.5	1195.9	936.2	705.8
2.5°	4739.7	4081.4	3474.3	2947.7	2494.2	2110.2	1781.0	1477.5	1195.9	936.2	705.8
0°	4739.7	4081.4	3474.3	2947.7	2494.2	2110.2	1781.0	1477.5	1195.9	936.2	705.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.3	14.6	7.3	0.0
85°	40.2	25.6	14.6	0.0
82.5°	58.5	40.2	18.3	0.0
80°	76.8	51.2	25.6	0.0
77.5°	98.7	65.8	32.9	0.0
75°	117.0	76.8	40.2	0.0
72.5°	135.3	91.4	43.9	0.0
70°	153.6	102.4	51.2	0.0
67.5°	175.5	113.4	58.5	0.0
65°	193.8	128.0	62.2	0.0
62.5°	212.1	139.0	69.5	0.0
60°	230.4	149.9	73.1	0.0
57.5°	248.7	160.9	80.5	0.0
55°	267.0	175.5	87.8	0.0
52.5°	285.3	186.5	91.4	0.0
50°	303.5	197.5	95.1	0.0
47.5°	318.2	208.5	102.4	0.0
45°	336.5	219.4	106.1	0.0
42.5°	354.7	226.7	109.7	0.0
40°	369.4	237.7	113.4	0.0
37.5°	387.7	245.0	120.7	0.0
35°	402.3	256.0	124.3	0.0
32.5°	413.3	263.3	128.0	0.0
30°	427.9	270.6	131.7	0.0
27.5°	438.9	277.9	131.7	0.0
25°	449.8	285.3	135.3	0.0
22.5°	460.8	288.9	139.0	0.0
20°	471.8	296.2	142.6	0.0
17.5°	479.1	299.9	142.6	0.0
15°	486.4	303.5	149.9	0.0
12.5°	490.1	307.2	149.9	0.0
10°	497.4	314.5	149.9	0.0
7.5°	504.7	314.5	149.9	0.0
5°	504.7	314.5	149.9	0.0
2.5°	504.7	314.5	149.9	0.0
0°	504.7	314.5	149.9	0.0

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