

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: P624570

Luminaire Tested: **IFLD-M-SA4C-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624570
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

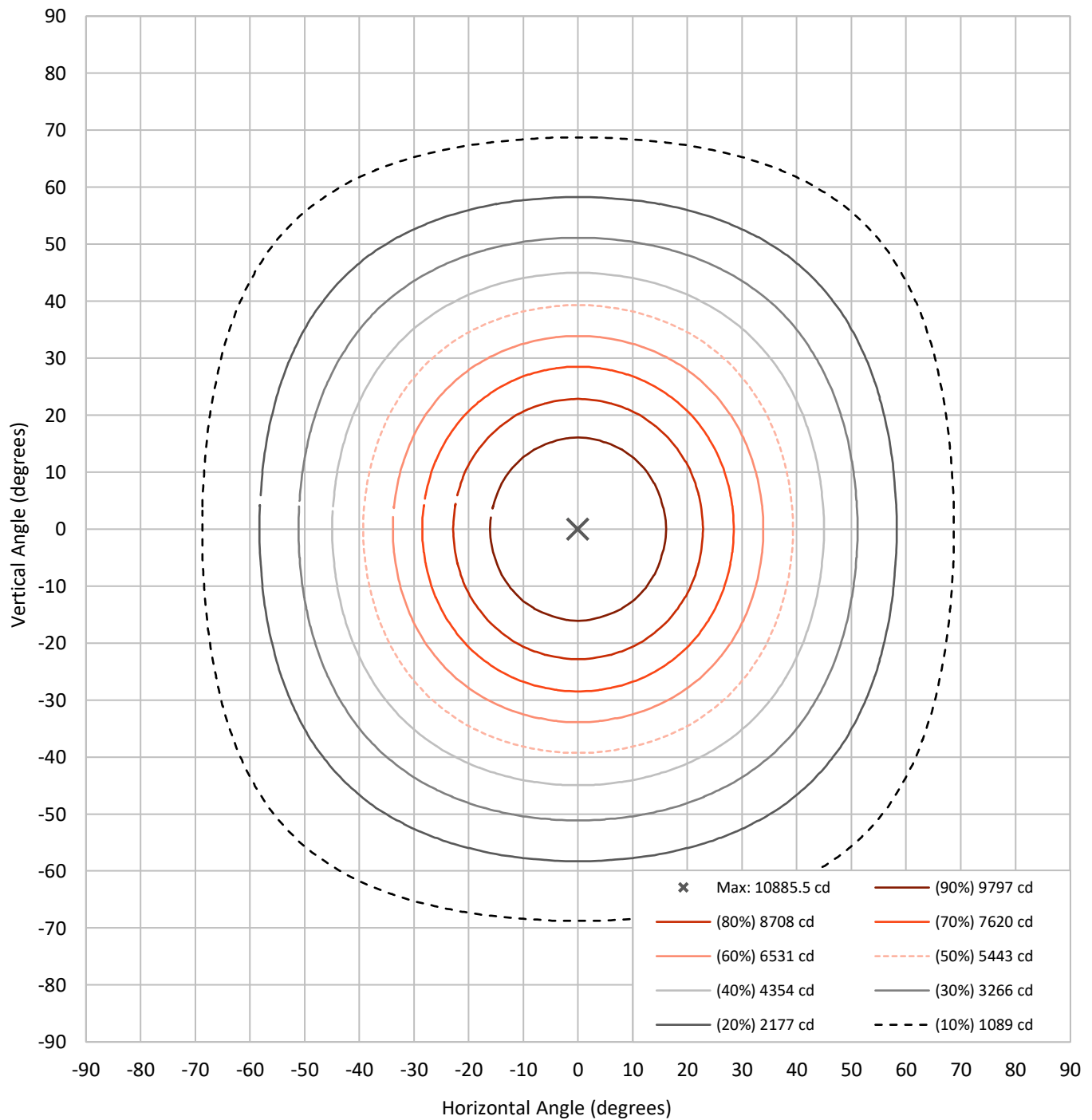
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	19599.6 lumens	Max Intensity:	10885.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	89.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	8480.6 lumens	Field Lumens:	13886.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	218.1		
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		



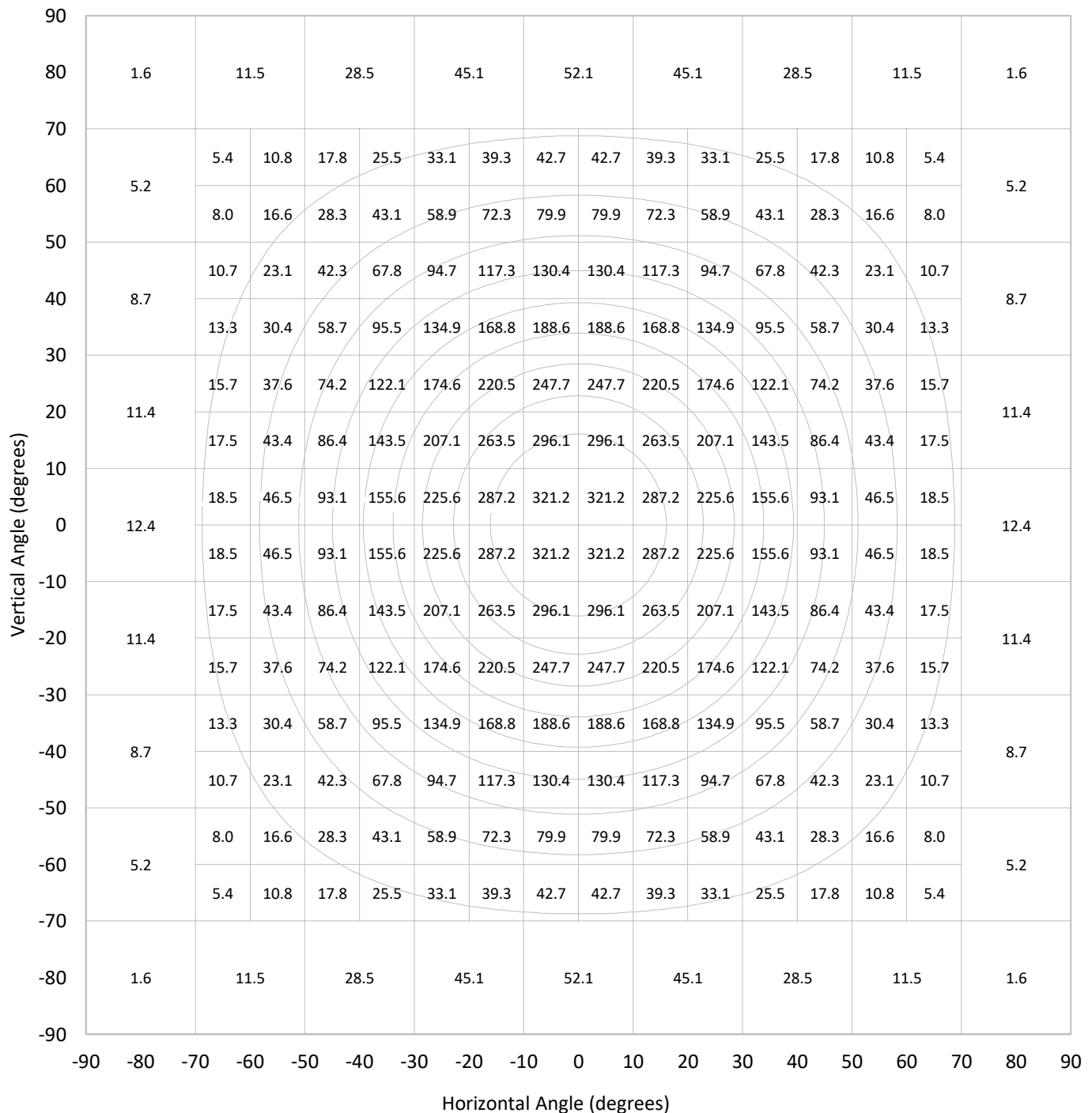
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Iso-Candela Plot



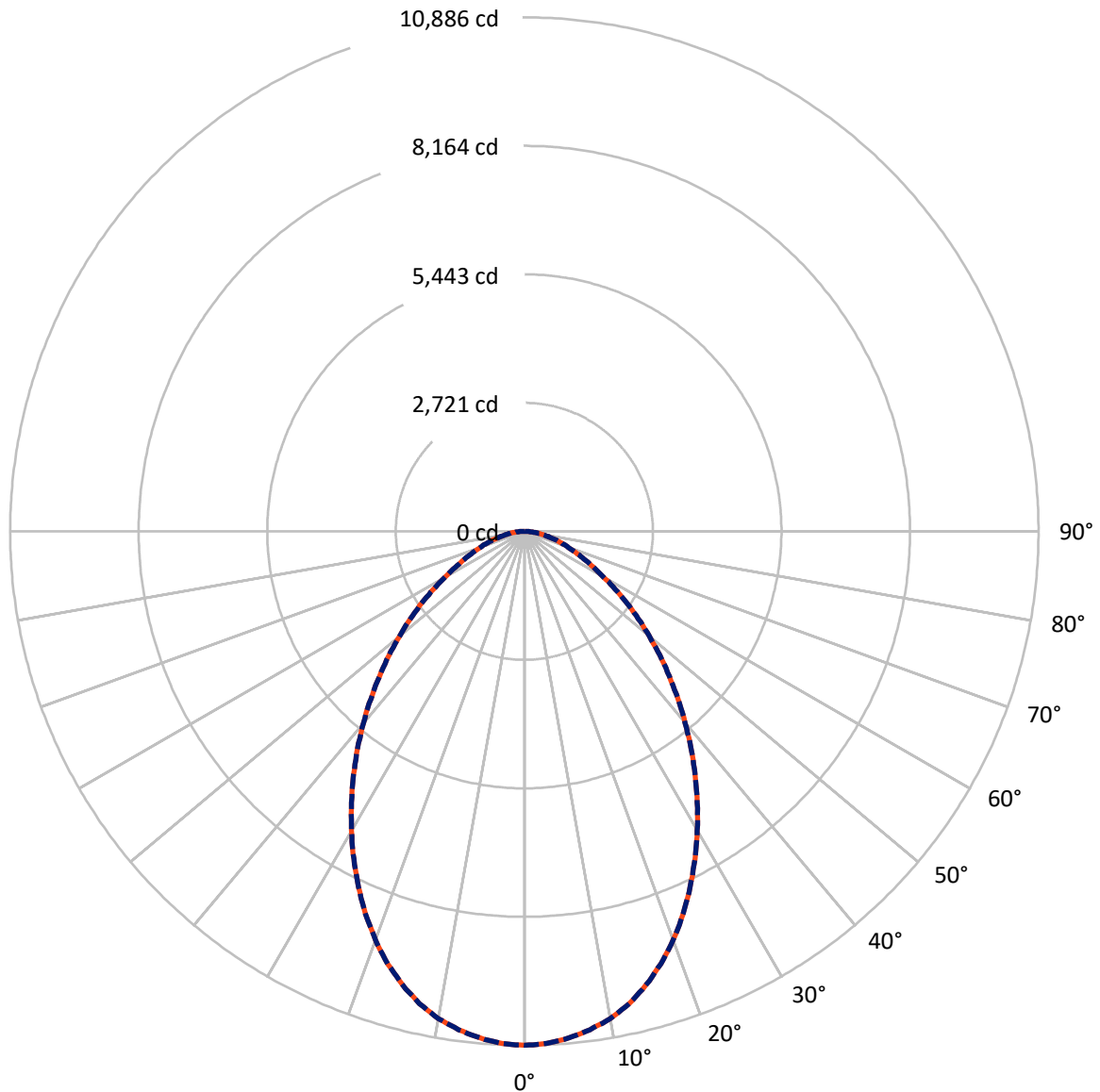
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Lumen Table



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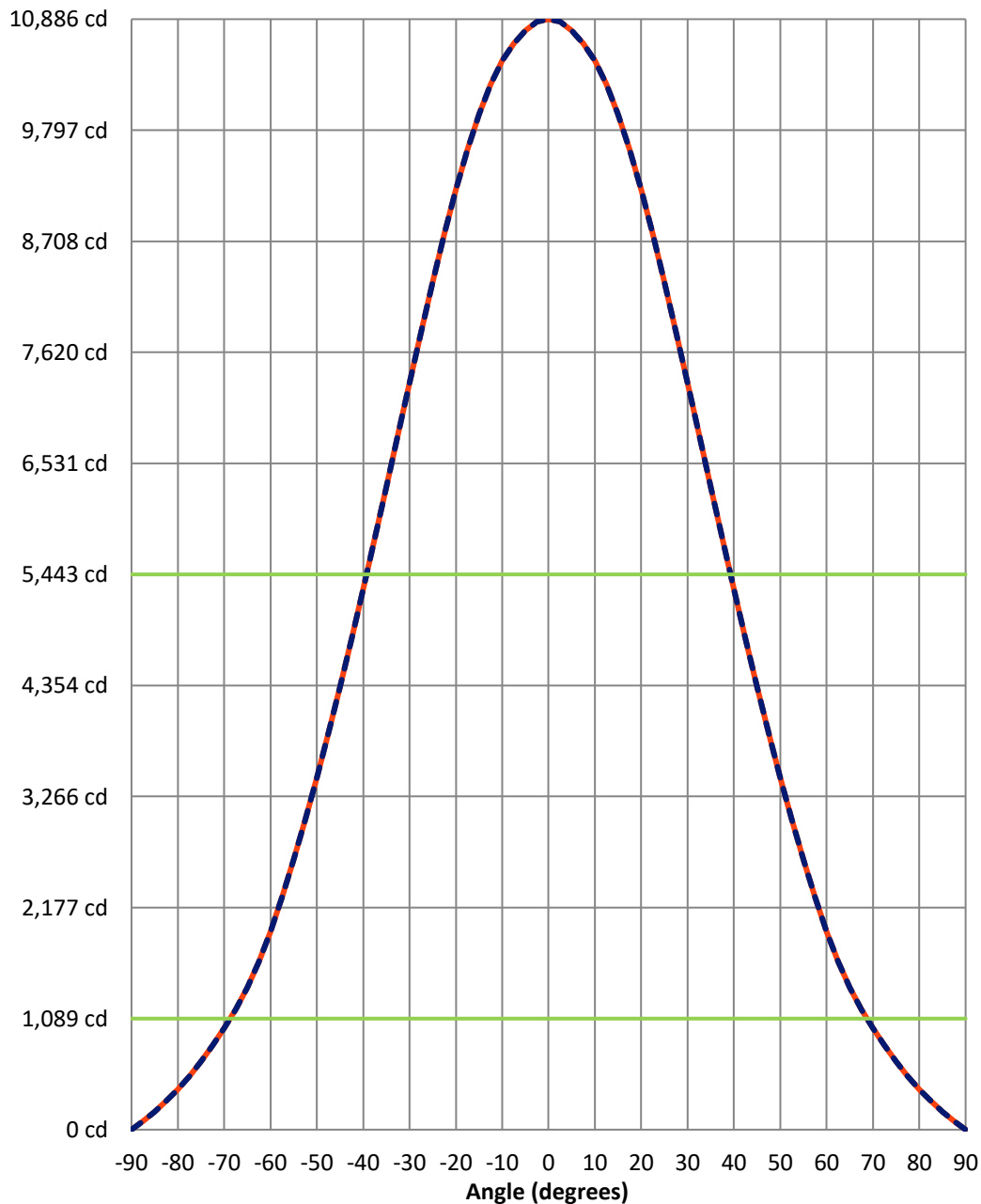
Luminous Intensity Polar Plot



— 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: 8480.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 13886.6
Efficiency: 70.9%

Spill:

Lumens: 5713
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°	83.8	83.8	83.8	83.8	83.8	83.8	83.8	79.7	79.7	77.7	75.6
85°	175.7	175.7	175.7	175.7	175.7	171.7	169.6	167.6	165.5	161.4	159.4
82.5°	282.0	282.0	282.0	282.0	277.9	273.8	271.8	267.7	263.6	257.5	251.3
80°	394.4	394.4	394.4	394.4	388.3	384.2	378.0	374.0	367.8	359.6	351.5
77.5°	523.1	523.1	523.1	517.0	512.9	506.8	500.6	492.5	484.3	474.1	461.8
75°	668.2	668.2	668.2	660.0	653.9	647.8	637.6	627.3	615.1	600.8	584.4
72.5°	825.6	825.6	825.6	815.3	809.2	799.0	786.7	772.4	758.1	739.7	719.3
70°	995.2	995.2	995.2	982.9	972.7	962.5	946.1	929.8	909.3	888.9	864.4
67.5°	1179.1	1179.1	1179.1	1164.8	1152.5	1138.2	1119.8	1099.4	1074.9	1046.3	1017.6
65°	1393.6	1393.6	1385.5	1373.2	1358.9	1338.5	1316.0	1287.4	1256.7	1219.9	1181.1
62.5°	1647.0	1647.0	1634.8	1620.5	1602.1	1575.5	1544.9	1508.1	1465.2	1418.2	1371.2
60°	1941.3	1941.3	1927.0	1908.6	1882.0	1849.3	1808.5	1761.5	1708.3	1649.1	1591.9
57.5°	2280.5	2280.5	2262.1	2237.6	2204.9	2164.0	2112.9	2053.7	1986.2	1912.7	1841.2
55°	2648.3	2648.3	2625.8	2597.2	2558.4	2509.4	2448.1	2378.6	2296.8	2213.1	2121.1
52.5°	3038.6	3038.6	3012.1	2979.4	2934.4	2877.2	2807.7	2726.0	2632.0	2533.9	2425.6
50°	3449.4	3449.4	3418.7	3381.9	3330.8	3263.4	3183.7	3089.7	2985.5	2871.1	2746.4
47.5°	3888.7	3888.7	3854.0	3811.1	3749.8	3672.1	3578.1	3469.8	3351.3	3222.5	3081.5
45°	4340.3	4340.3	4301.5	4252.4	4185.0	4097.1	3992.9	3888.7	3737.5	3588.3	3424.8
42.5°	4810.3	4810.3	4765.4	4710.2	4632.5	4536.5	4418.0	4283.1	4133.9	3966.4	3788.6
40°	5298.7	5298.7	5247.6	5184.3	5098.4	4988.1	4855.3	4704.0	4536.5	4350.5	4154.4
37.5°	5797.3	5797.3	5740.1	5670.6	5574.6	5452.0	5302.8	5135.2	4947.2	4740.8	4524.2
35°	6300.0	6300.0	6236.6	6161.0	6054.8	5919.9	5758.5	5572.5	5364.1	5139.3	4896.1
32.5°	6812.9	6812.9	6743.4	6657.6	6537.0	6387.9	6210.1	6007.8	5797.3	5535.7	5270.1
30°	7319.7	7319.7	7244.1	7150.1	7021.3	6857.9	6663.7	6441.0	6193.7	5926.0	5640.0
27.5°	7818.3	7797.8	7734.5	7634.4	7493.4	7319.7	7109.2	6868.1	6600.4	6306.1	5999.6
25°	8308.7	8286.2	8216.8	8106.4	7955.2	7765.2	7538.3	7280.9	6992.7	6682.1	6347.0
22.5°	8778.7	8754.2	8680.6	8562.1	8400.7	8194.3	7951.1	7675.2	7368.7	7035.6	6682.1
20°	9214.0	9187.4	9111.8	8987.1	8819.6	8600.9	8343.5	8047.1	7720.2	7368.7	6992.7
17.5°	9606.3	9579.7	9500.0	9371.3	9214.0	8970.8	8705.1	8392.5	8047.1	7675.2	7280.9
15°	9951.7	9923.0	9841.3	9712.6	9532.7	9303.9	9023.9	8705.1	8343.5	7951.1	7538.3
12.5°	10245.9	10217.3	10133.5	10004.8	9818.8	9590.0	9303.9	8970.8	8600.9	8194.3	7765.2
10°	10478.9	10450.3	10370.6	10248.0	10055.9	9818.8	9532.7	9214.0	8819.6	8400.7	7955.2
7.5°	10646.4	10619.9	10546.3	10423.7	10248.0	10004.8	9712.6	9371.3	8987.1	8562.1	8106.4
5°	10773.1	10742.5	10668.9	10546.3	10370.6	10133.5	9841.3	9500.0	9111.8	8680.6	8216.8
2.5°	10861.0	10824.2	10742.5	10619.9	10450.3	10217.3	9923.0	9579.7	9187.4	8754.2	8286.2
0°	10885.5	10861.0	10773.1	10646.4	10478.9	10245.9	9951.7	9606.3	9214.0	8778.7	8308.7

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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°	73.6	73.6	71.5	69.5	67.4	63.3	61.3	59.3	57.2	53.1	51.1
85°	155.3	151.2	147.1	143.0	136.9	132.8	126.7	122.6	116.5	110.3	104.2
82.5°	245.2	239.1	230.9	224.8	216.6	206.4	198.2	188.0	177.8	169.6	159.4
80°	343.3	333.1	322.9	312.6	300.4	288.1	275.9	263.6	249.3	235.0	220.7
77.5°	449.6	435.3	421.0	404.6	390.3	374.0	357.6	341.3	322.9	304.5	286.1
75°	568.1	549.7	529.3	508.8	490.4	468.0	445.5	423.0	398.5	376.0	351.5
72.5°	696.8	674.3	649.8	625.3	598.7	570.1	541.5	510.9	482.3	453.6	423.0
70°	835.8	809.2	778.6	747.9	715.2	680.5	645.7	609.0	572.2	535.4	498.6
67.5°	984.9	952.3	915.5	878.7	837.8	796.9	756.1	713.2	668.2	623.3	580.3
65°	1144.3	1103.5	1060.6	1013.6	966.6	919.6	870.5	819.4	768.3	715.2	668.2
62.5°	1322.1	1271.0	1215.9	1158.6	1105.5	1048.3	995.2	931.8	870.5	811.3	752.0
60°	1528.5	1461.1	1393.6	1322.1	1254.7	1181.1	1115.7	1046.3	976.8	909.3	839.9
57.5°	1759.4	1673.6	1591.9	1506.0	1416.1	1334.4	1250.6	1166.8	1089.2	1009.5	933.9
55°	2021.0	1916.8	1814.6	1708.3	1604.1	1501.9	1395.7	1301.7	1205.6	1115.7	1027.9
52.5°	2307.1	2188.5	2061.9	1941.3	1808.5	1681.8	1563.2	1444.7	1332.3	1224.0	1123.9
50°	2613.6	2474.6	2329.5	2182.4	2031.2	1882.0	1739.0	1600.0	1469.2	1342.6	1224.0
47.5°	2932.4	2775.0	2609.5	2441.9	2280.5	2098.6	1927.0	1769.6	1612.3	1469.2	1332.3
45°	3259.3	3081.5	2899.7	2709.6	2519.6	2323.4	2133.4	1941.3	1769.6	1600.0	1444.7
42.5°	3596.5	3396.2	3193.9	2983.5	2773.0	2558.4	2343.8	2133.4	1927.0	1739.0	1563.2
40°	3943.9	3723.2	3492.3	3263.4	3038.6	2793.4	2558.4	2323.4	2098.6	1882.0	1681.8
37.5°	4291.3	4050.1	3800.8	3543.4	3285.9	3038.6	2773.0	2519.6	2280.5	2031.2	1808.5
35°	4640.7	4375.0	4105.3	3825.4	3543.4	3263.4	2983.5	2709.6	2441.9	2182.4	1941.3
32.5°	4992.2	4702.0	4403.7	4105.3	3800.8	3492.3	3193.9	2899.7	2609.5	2329.5	2061.9
30°	5337.5	5022.8	4702.0	4375.0	4050.1	3723.2	3396.2	3081.5	2775.0	2474.6	2188.5
27.5°	5674.7	5337.5	4992.2	4640.7	4291.3	3943.9	3596.5	3259.3	2932.4	2613.6	2307.1
25°	5999.6	5640.0	5270.1	4896.1	4524.2	4154.4	3788.6	3424.8	3081.5	2746.4	2425.6
22.5°	6306.1	5926.0	5535.7	5139.3	4740.8	4350.5	3966.4	3588.3	3222.5	2871.1	2533.9
20°	6600.4	6193.7	5797.3	5364.1	4947.2	4536.5	4133.9	3737.5	3351.3	2985.5	2632.0
17.5°	6868.1	6441.0	6007.8	5572.5	5135.2	4704.0	4283.1	3888.7	3469.8	3089.7	2726.0
15°	7109.2	6663.7	6210.1	5758.5	5302.8	4855.3	4418.0	3992.9	3578.1	3183.7	2807.7
12.5°	7319.7	6857.9	6387.9	5919.9	5452.0	4988.1	4536.5	4097.1	3672.1	3263.4	2877.2
10°	7493.4	7021.3	6537.0	6054.8	5574.6	5098.4	4632.5	4185.0	3749.8	3330.8	2934.4
7.5°	7634.4	7150.1	6657.6	6161.0	5670.6	5184.3	4710.2	4252.4	3811.1	3381.9	2979.4
5°	7734.5	7244.1	6743.4	6236.6	5740.1	5247.6	4765.4	4301.5	3854.0	3418.7	3012.1
2.5°	7797.8	7319.7	6812.9	6300.0	5797.3	5298.7	4810.3	4340.3	3888.7	3449.4	3038.6
0°	7818.3	7319.7	6812.9	6300.0	5797.3	5298.7	4810.3	4340.3	3888.7	3449.4	3038.6

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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°	49.0	45.0	40.9	38.8	34.7	32.7	28.6	24.5	22.5	18.4	14.3
85°	98.1	89.9	83.8	77.7	71.5	63.3	57.2	51.1	42.9	36.8	28.6
82.5°	149.2	139.0	128.7	118.5	108.3	98.1	85.8	75.6	65.4	55.2	42.9
80°	206.4	190.0	175.7	161.4	147.1	132.8	116.5	102.2	85.8	71.5	57.2
77.5°	265.6	247.3	226.8	206.4	186.0	167.6	147.1	128.7	110.3	89.9	71.5
75°	329.0	304.5	282.0	255.4	230.9	204.3	179.8	155.3	132.8	110.3	85.8
72.5°	394.4	363.7	333.1	304.5	273.8	243.2	214.6	183.9	155.3	128.7	102.2
70°	461.8	425.0	388.3	353.5	318.8	282.0	249.3	214.6	179.8	147.1	116.5
67.5°	533.3	490.4	447.5	402.6	363.7	322.9	282.0	243.2	204.3	167.6	132.8
65°	611.0	559.9	506.8	459.8	408.7	363.7	318.8	273.8	230.9	186.0	147.1
62.5°	690.7	631.4	572.2	512.9	459.8	402.6	353.5	304.5	255.4	206.4	161.4
60°	772.4	705.0	637.6	572.2	506.8	447.5	388.3	333.1	282.0	226.8	175.7
57.5°	856.2	780.6	705.0	631.4	559.9	490.4	425.0	363.7	304.5	247.3	190.0
55°	942.0	856.2	772.4	690.7	611.0	533.3	461.8	394.4	329.0	265.6	206.4
52.5°	1027.9	933.9	839.9	752.0	668.2	580.3	498.6	423.0	351.5	286.1	220.7
50°	1115.7	1009.5	909.3	811.3	715.2	623.3	535.4	453.6	376.0	304.5	235.0
47.5°	1205.6	1089.2	976.8	870.5	768.3	668.2	572.2	482.3	398.5	322.9	249.3
45°	1301.7	1166.8	1046.3	931.8	819.4	713.2	609.0	510.9	423.0	341.3	263.6
42.5°	1395.7	1250.6	1115.7	995.2	870.5	756.1	645.7	541.5	445.5	357.6	275.9
40°	1501.9	1334.4	1181.1	1048.3	919.6	796.9	680.5	570.1	468.0	374.0	288.1
37.5°	1604.1	1416.1	1254.7	1105.5	966.6	837.8	715.2	598.7	490.4	390.3	300.4
35°	1708.3	1506.0	1322.1	1158.6	1013.6	878.7	747.9	625.3	508.8	404.6	312.6
32.5°	1814.6	1591.9	1393.6	1215.9	1060.6	915.5	778.6	649.8	529.3	421.0	322.9
30°	1916.8	1673.6	1461.1	1271.0	1103.5	952.3	809.2	674.3	549.7	435.3	333.1
27.5°	2021.0	1759.4	1528.5	1322.1	1144.3	984.9	835.8	696.8	568.1	449.6	343.3
25°	2121.1	1841.2	1591.9	1371.2	1181.1	1017.6	864.4	719.3	584.4	461.8	351.5
22.5°	2213.1	1912.7	1649.1	1418.2	1219.9	1046.3	888.9	739.7	600.8	474.1	359.6
20°	2296.8	1986.2	1708.3	1465.2	1256.7	1074.9	909.3	758.1	615.1	484.3	367.8
17.5°	2378.6	2053.7	1761.5	1508.1	1287.4	1099.4	929.8	772.4	627.3	492.5	374.0
15°	2448.1	2112.9	1808.5	1544.9	1316.0	1119.8	946.1	786.7	637.6	500.6	378.0
12.5°	2509.4	2164.0	1849.3	1575.5	1338.5	1138.2	962.5	799.0	647.8	506.8	384.2
10°	2558.4	2204.9	1882.0	1602.1	1358.9	1152.5	972.7	809.2	653.9	512.9	388.3
7.5°	2597.2	2237.6	1908.6	1620.5	1373.2	1164.8	982.9	815.3	660.0	517.0	394.4
5°	2625.8	2262.1	1927.0	1634.8	1385.5	1179.1	995.2	825.6	668.2	523.1	394.4
2.5°	2648.3	2280.5	1941.3	1647.0	1393.6	1179.1	995.2	825.6	668.2	523.1	394.4
0°	2648.3	2280.5	1941.3	1647.0	1393.6	1179.1	995.2	825.6	668.2	523.1	394.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.2	8.2	4.1	0.0
85°	22.5	14.3	8.2	0.0
82.5°	32.7	22.5	10.2	0.0
80°	42.9	28.6	14.3	0.0
77.5°	55.2	36.8	18.4	0.0
75°	65.4	42.9	22.5	0.0
72.5°	75.6	51.1	24.5	0.0
70°	85.8	57.2	28.6	0.0
67.5°	98.1	63.3	32.7	0.0
65°	108.3	71.5	34.7	0.0
62.5°	118.5	77.7	38.8	0.0
60°	128.7	83.8	40.9	0.0
57.5°	139.0	89.9	45.0	0.0
55°	149.2	98.1	49.0	0.0
52.5°	159.4	104.2	51.1	0.0
50°	169.6	110.3	53.1	0.0
47.5°	177.8	116.5	57.2	0.0
45°	188.0	122.6	59.3	0.0
42.5°	198.2	126.7	61.3	0.0
40°	206.4	132.8	63.3	0.0
37.5°	216.6	136.9	67.4	0.0
35°	224.8	143.0	69.5	0.0
32.5°	230.9	147.1	71.5	0.0
30°	239.1	151.2	73.6	0.0
27.5°	245.2	155.3	73.6	0.0
25°	251.3	159.4	75.6	0.0
22.5°	257.5	161.4	77.7	0.0
20°	263.6	165.5	79.7	0.0
17.5°	267.7	167.6	79.7	0.0
15°	271.8	169.6	83.8	0.0
12.5°	273.8	171.7	83.8	0.0
10°	277.9	175.7	83.8	0.0
7.5°	282.0	175.7	83.8	0.0
5°	282.0	175.7	83.8	0.0
2.5°	282.0	175.7	83.8	0.0
0°	282.0	175.7	83.8	0.0

(END OF REPORT)