

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: P623813

Luminaire Tested: **IFLD-S-SA2C-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623813
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

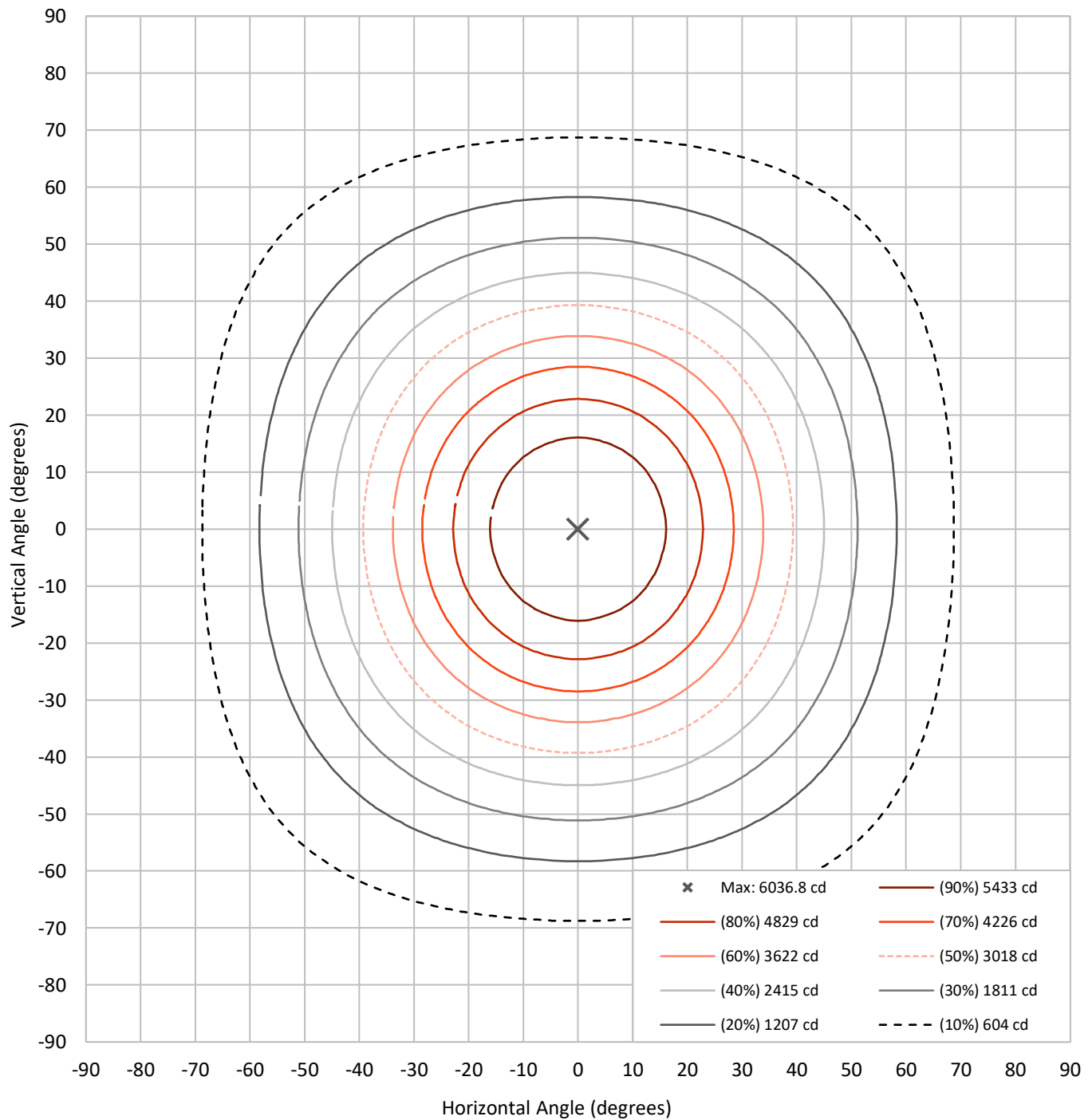
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10869.4 lumens	Max Intensity:	6036.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	100.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4703.1 lumens	Field Lumens:	7701.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	108.2		
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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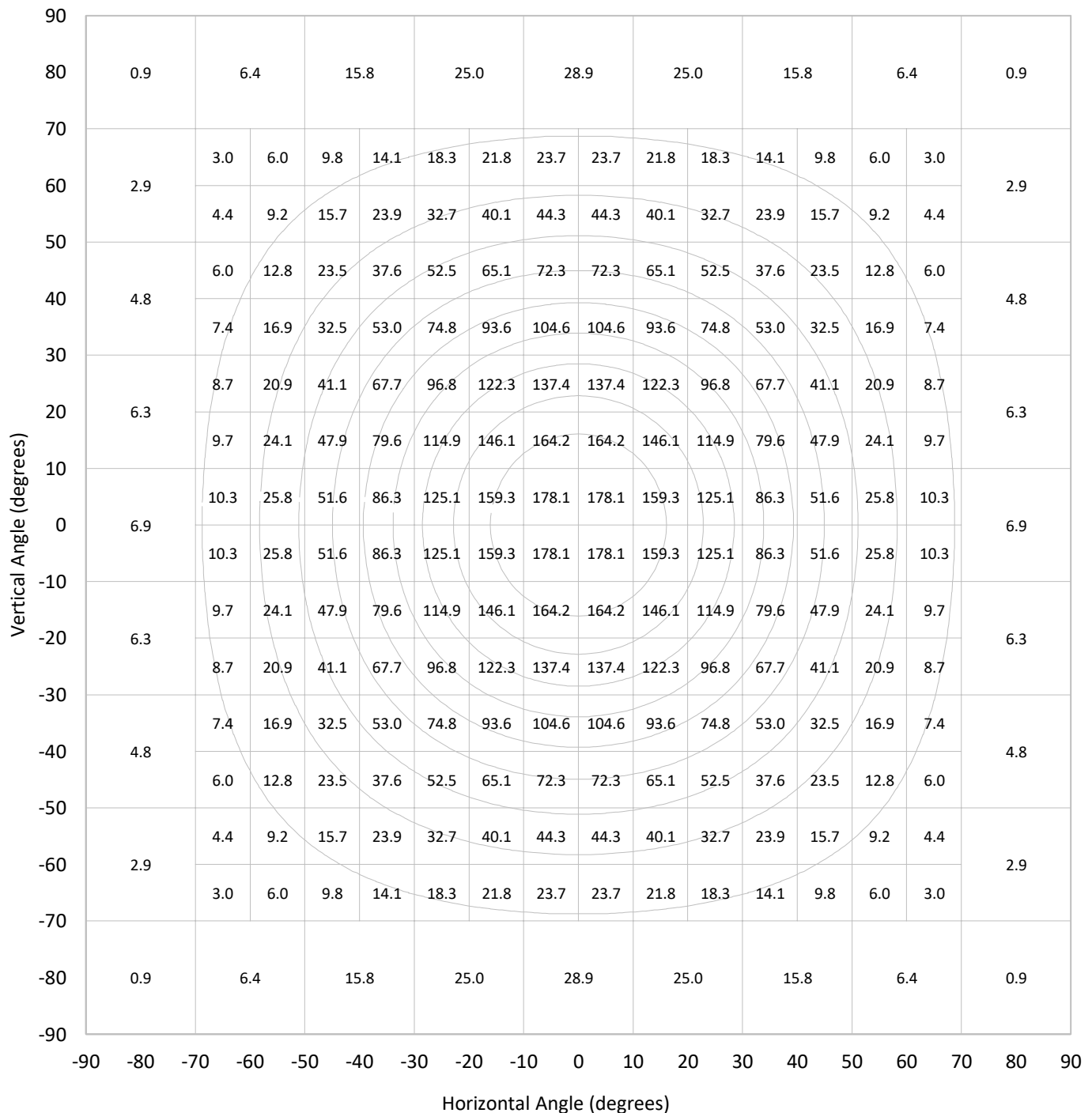
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Iso-Candela Plot



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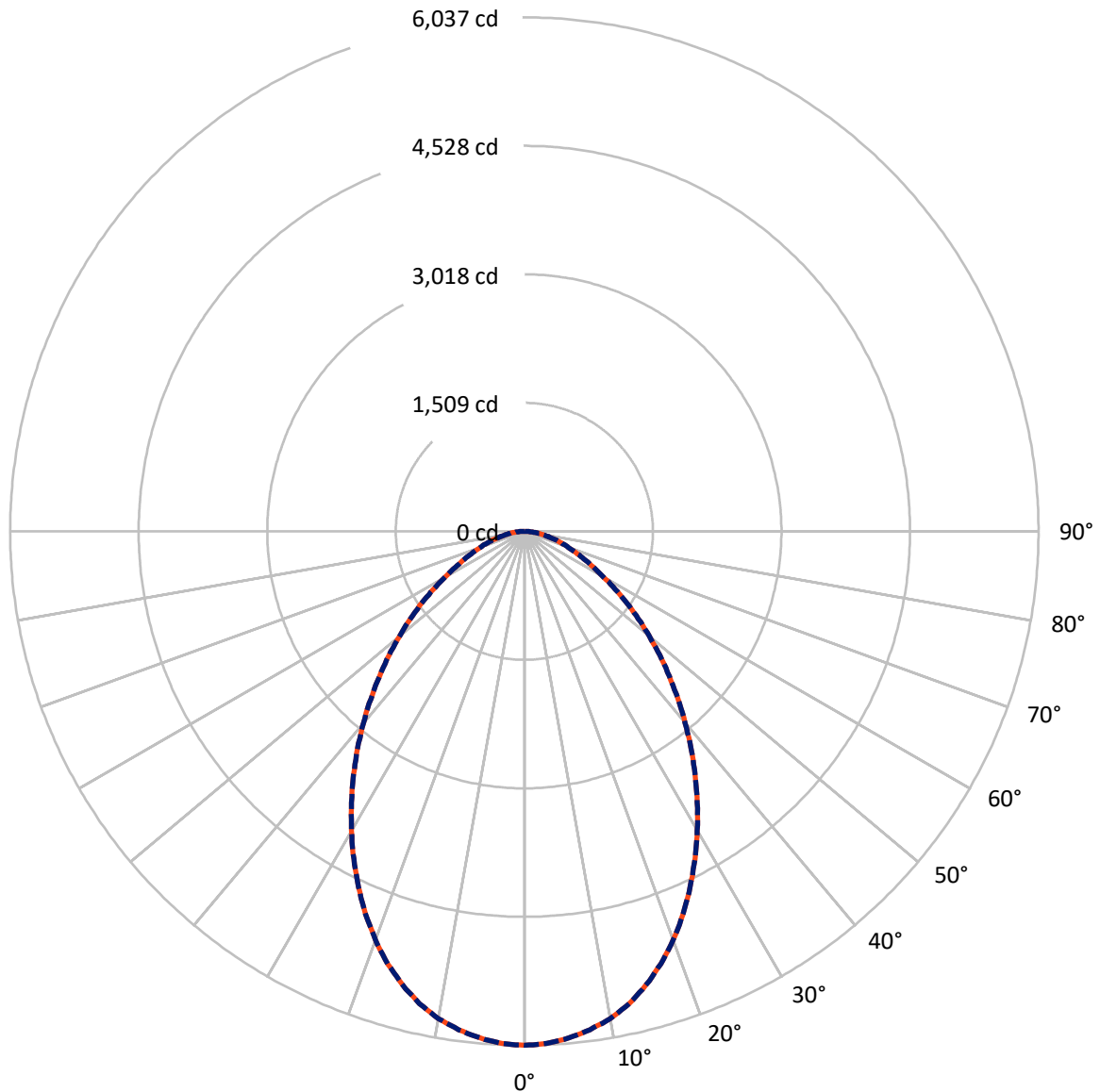
Lumen Table



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Luminous Intensity Polar Plot



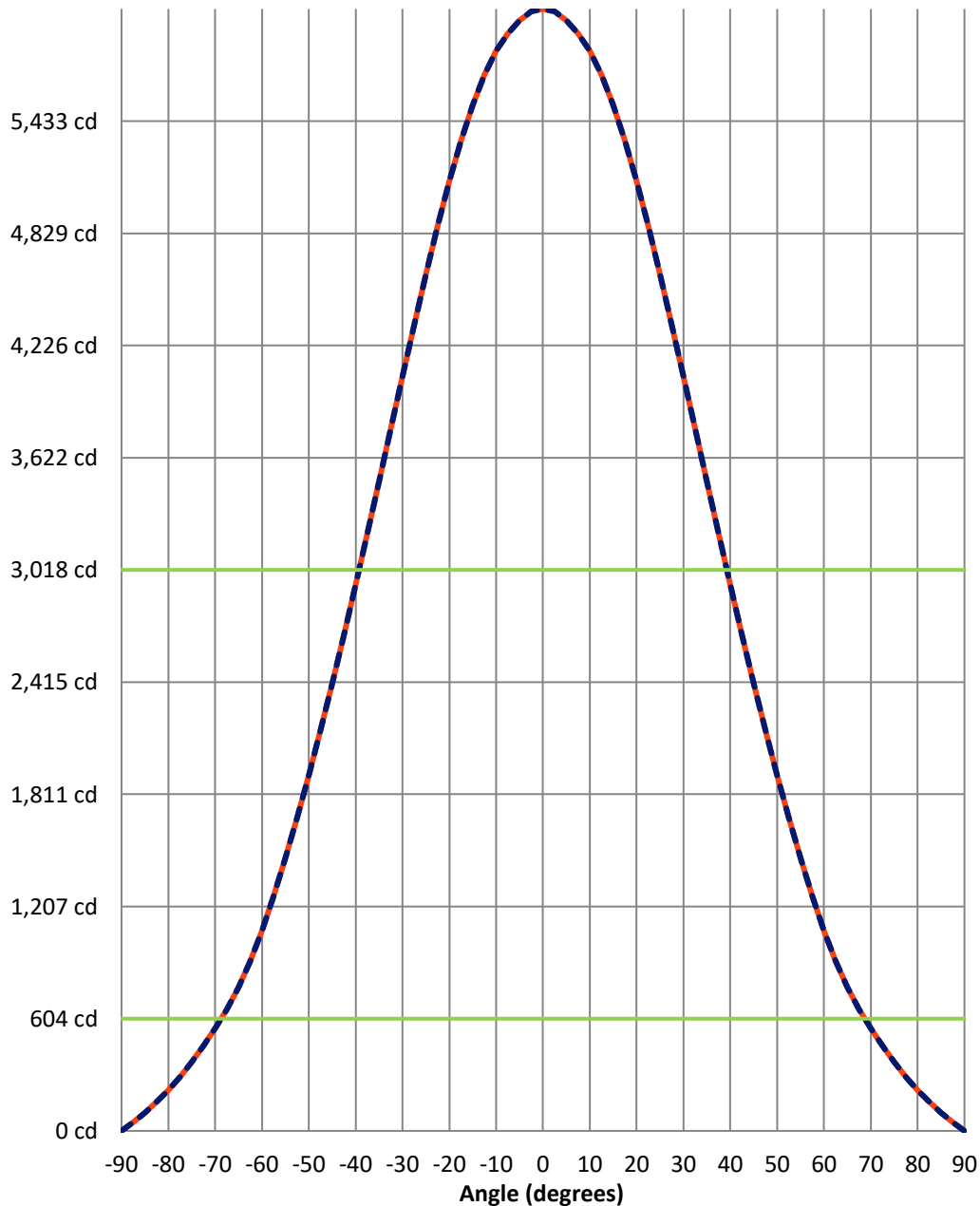
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 4703.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 7701.1
Efficiency: 70.9%

Spill:

Lumens: 3168.3
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°	46.5	46.5	46.5	46.5	46.5	46.5	46.5	44.2	44.2	43.1	41.9
85°	97.5	97.5	97.5	97.5	97.5	95.2	94.1	92.9	91.8	89.5	88.4
82.5°	156.4	156.4	156.4	156.4	154.1	151.9	150.7	148.5	146.2	142.8	139.4
80°	218.7	218.7	218.7	218.7	215.3	213.1	209.7	207.4	204.0	199.5	194.9
77.5°	290.1	290.1	290.1	286.7	284.4	281.0	277.6	273.1	268.6	262.9	256.1
75°	370.6	370.6	370.6	366.0	362.6	359.2	353.6	347.9	341.1	333.2	324.1
72.5°	457.8	457.8	457.8	452.2	448.8	443.1	436.3	428.4	420.4	410.2	398.9
70°	551.9	551.9	551.9	545.1	539.4	533.8	524.7	515.6	504.3	493.0	479.4
67.5°	653.9	653.9	653.9	646.0	639.2	631.2	621.0	609.7	596.1	580.2	564.4
65°	772.9	772.9	768.3	761.5	753.6	742.3	729.8	713.9	696.9	676.5	655.0
62.5°	913.4	913.4	906.6	898.7	888.5	873.7	856.7	836.3	812.5	786.5	760.4
60°	1076.6	1076.6	1068.7	1058.5	1043.7	1025.6	1002.9	976.9	947.4	914.5	882.8
57.5°	1264.7	1264.7	1254.5	1240.9	1222.8	1200.1	1171.8	1138.9	1101.5	1060.7	1021.1
55°	1468.7	1468.7	1456.2	1440.4	1418.8	1391.6	1357.6	1319.1	1273.8	1227.3	1176.3
52.5°	1685.1	1685.1	1670.4	1652.3	1627.3	1595.6	1557.1	1511.8	1459.6	1405.2	1345.2
50°	1912.9	1912.9	1895.9	1875.5	1847.2	1809.8	1765.6	1713.5	1655.7	1592.2	1523.1
47.5°	2156.6	2156.6	2137.3	2113.5	2079.5	2036.4	1984.3	1924.3	1858.5	1787.1	1708.9
45°	2407.0	2407.0	2385.5	2358.3	2320.9	2272.2	2214.4	2156.6	2072.7	1990.0	1899.3
42.5°	2667.7	2667.7	2642.7	2612.1	2569.1	2515.8	2450.1	2375.3	2292.6	2199.6	2101.0
40°	2938.5	2938.5	2910.2	2875.1	2827.5	2766.3	2692.6	2608.7	2515.8	2412.7	2303.9
37.5°	3215.0	3215.0	3183.3	3144.8	3091.5	3023.5	2940.8	2847.9	2743.6	2629.1	2509.0
35°	3493.8	3493.8	3458.7	3416.7	3357.8	3283.0	3193.5	3090.4	2974.8	2850.1	2715.3
32.5°	3778.3	3778.3	3739.7	3692.1	3625.3	3542.5	3443.9	3331.8	3215.0	3070.0	2922.6
30°	4059.3	4059.3	4017.4	3965.2	3893.8	3803.2	3695.5	3572.0	3434.9	3286.4	3127.8
27.5°	4335.8	4324.5	4289.3	4233.8	4155.6	4059.3	3942.6	3808.9	3660.4	3497.2	3327.2
25°	4607.8	4595.3	4556.8	4495.6	4411.7	4306.3	4180.6	4037.8	3878.0	3705.7	3519.9
22.5°	4868.4	4854.8	4814.0	4748.3	4658.8	4544.3	4409.5	4256.5	4086.5	3901.8	3705.7
20°	5109.8	5095.1	5053.2	4984.0	4891.1	4769.8	4627.1	4462.7	4281.4	4086.5	3878.0
17.5°	5327.4	5312.7	5268.5	5197.1	5109.8	4975.0	4827.6	4654.3	4462.7	4256.5	4037.8
15°	5518.9	5503.1	5457.7	5386.3	5286.6	5159.7	5004.4	4827.6	4627.1	4409.5	4180.6
12.5°	5682.1	5666.2	5619.8	5548.4	5445.3	5318.3	5159.7	4975.0	4769.8	4544.3	4306.3
10°	5811.3	5795.4	5751.2	5683.2	5576.7	5445.3	5286.6	5109.8	4891.1	4658.8	4411.7
7.5°	5904.2	5889.5	5848.7	5780.7	5683.2	5548.4	5386.3	5197.1	4984.0	4748.3	4495.6
5°	5974.5	5957.5	5916.7	5848.7	5751.2	5619.8	5457.7	5268.5	5053.2	4814.0	4556.8
2.5°	6023.2	6002.8	5957.5	5889.5	5795.4	5666.2	5503.1	5312.7	5095.1	4854.8	4595.3
0°	6036.8	6023.2	5974.5	5904.2	5811.3	5682.1	5518.9	5327.4	5109.8	4868.4	4607.8

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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°	40.8	40.8	39.7	38.5	37.4	35.1	34.0	32.9	31.7	29.5	28.3
85°	86.1	83.9	81.6	79.3	75.9	73.7	70.3	68.0	64.6	61.2	57.8
82.5°	136.0	132.6	128.1	124.7	120.1	114.5	109.9	104.3	98.6	94.1	88.4
80°	190.4	184.7	179.1	173.4	166.6	159.8	153.0	146.2	138.3	130.3	122.4
77.5°	249.3	241.4	233.4	224.4	216.5	207.4	198.3	189.3	179.1	168.9	158.7
75°	315.0	304.8	293.5	282.2	272.0	259.5	247.0	234.6	221.0	208.5	194.9
72.5°	386.4	374.0	360.4	346.8	332.0	316.2	300.3	283.3	267.4	251.6	234.6
70°	463.5	448.8	431.8	414.8	396.6	377.4	358.1	337.7	317.3	296.9	276.5
67.5°	546.2	528.1	507.7	487.3	464.6	442.0	419.3	395.5	370.6	345.6	321.8
65°	634.6	612.0	588.2	562.1	536.0	510.0	482.8	454.4	426.1	396.6	370.6
62.5°	733.2	704.9	674.3	642.6	613.1	581.4	551.9	516.8	482.8	449.9	417.0
60°	847.7	810.3	772.9	733.2	695.8	655.0	618.8	580.2	541.7	504.3	465.8
57.5°	975.7	928.1	882.8	835.2	785.3	740.0	693.5	647.1	604.0	559.8	517.9
55°	1120.8	1063.0	1006.3	947.4	889.6	832.9	774.0	721.9	668.6	618.8	570.0
52.5°	1279.4	1213.7	1143.4	1076.6	1002.9	932.7	866.9	801.2	738.9	678.8	623.3
50°	1449.4	1372.4	1291.9	1210.3	1126.4	1043.7	964.4	887.3	814.8	744.5	678.8
47.5°	1626.2	1539.0	1447.2	1354.2	1264.7	1163.8	1068.7	981.4	894.1	814.8	738.9
45°	1807.5	1708.9	1608.1	1502.7	1397.3	1288.5	1183.1	1076.6	981.4	887.3	801.2
42.5°	1994.5	1883.5	1771.3	1654.5	1537.8	1418.8	1299.8	1183.1	1068.7	964.4	866.9
40°	2187.2	2064.8	1936.7	1809.8	1685.1	1549.2	1418.8	1288.5	1163.8	1043.7	932.7
37.5°	2379.8	2246.1	2107.8	1965.1	1822.3	1685.1	1537.8	1397.3	1264.7	1126.4	1002.9
35°	2573.6	2426.3	2276.7	2121.4	1965.1	1809.8	1654.5	1502.7	1354.2	1210.3	1076.6
32.5°	2768.5	2607.6	2442.2	2276.7	2107.8	1936.7	1771.3	1608.1	1447.2	1291.9	1143.4
30°	2960.0	2785.5	2607.6	2426.3	2246.1	2064.8	1883.5	1708.9	1539.0	1372.4	1213.7
27.5°	3147.0	2960.0	2768.5	2573.6	2379.8	2187.2	1994.5	1807.5	1626.2	1449.4	1279.4
25°	3327.2	3127.8	2922.6	2715.3	2509.0	2303.9	2101.0	1899.3	1708.9	1523.1	1345.2
22.5°	3497.2	3286.4	3070.0	2850.1	2629.1	2412.7	2199.6	1990.0	1787.1	1592.2	1405.2
20°	3660.4	3434.9	3215.0	2974.8	2743.6	2515.8	2292.6	2072.7	1858.5	1655.7	1459.6
17.5°	3808.9	3572.0	3331.8	3090.4	2847.9	2608.7	2375.3	2156.6	1924.3	1713.5	1511.8
15°	3942.6	3695.5	3443.9	3193.5	2940.8	2692.6	2450.1	2214.4	1984.3	1765.6	1557.1
12.5°	4059.3	3803.2	3542.5	3283.0	3023.5	2766.3	2515.8	2272.2	2036.4	1809.8	1595.6
10°	4155.6	3893.8	3625.3	3357.8	3091.5	2827.5	2569.1	2320.9	2079.5	1847.2	1627.3
7.5°	4233.8	3965.2	3692.1	3416.7	3144.8	2875.1	2612.1	2358.3	2113.5	1875.5	1652.3
5°	4289.3	4017.4	3739.7	3458.7	3183.3	2910.2	2642.7	2385.5	2137.3	1895.9	1670.4
2.5°	4324.5	4059.3	3778.3	3493.8	3215.0	2938.5	2667.7	2407.0	2156.6	1912.9	1685.1
0°	4335.8	4059.3	3778.3	3493.8	3215.0	2938.5	2667.7	2407.0	2156.6	1912.9	1685.1

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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°	27.2	24.9	22.7	21.5	19.3	18.1	15.9	13.6	12.5	10.2	7.9
85°	54.4	49.9	46.5	43.1	39.7	35.1	31.7	28.3	23.8	20.4	15.9
82.5°	82.7	77.1	71.4	65.7	60.1	54.4	47.6	41.9	36.3	30.6	23.8
80°	114.5	105.4	97.5	89.5	81.6	73.7	64.6	56.7	47.6	39.7	31.7
77.5°	147.3	137.1	125.8	114.5	103.1	92.9	81.6	71.4	61.2	49.9	39.7
75°	182.5	168.9	156.4	141.7	128.1	113.3	99.7	86.1	73.7	61.2	47.6
72.5°	218.7	201.7	184.7	168.9	151.9	134.9	119.0	102.0	86.1	71.4	56.7
70°	256.1	235.7	215.3	196.1	176.8	156.4	138.3	119.0	99.7	81.6	64.6
67.5°	295.8	272.0	248.2	223.3	201.7	179.1	156.4	134.9	113.3	92.9	73.7
65°	338.8	310.5	281.0	255.0	226.6	201.7	176.8	151.9	128.1	103.1	81.6
62.5°	383.0	350.2	317.3	284.4	255.0	223.3	196.1	168.9	141.7	114.5	89.5
60°	428.4	391.0	353.6	317.3	281.0	248.2	215.3	184.7	156.4	125.8	97.5
57.5°	474.8	432.9	391.0	350.2	310.5	272.0	235.7	201.7	168.9	137.1	105.4
55°	522.4	474.8	428.4	383.0	338.8	295.8	256.1	218.7	182.5	147.3	114.5
52.5°	570.0	517.9	465.8	417.0	370.6	321.8	276.5	234.6	194.9	158.7	122.4
50°	618.8	559.8	504.3	449.9	396.6	345.6	296.9	251.6	208.5	168.9	130.3
47.5°	668.6	604.0	541.7	482.8	426.1	370.6	317.3	267.4	221.0	179.1	138.3
45°	721.9	647.1	580.2	516.8	454.4	395.5	337.7	283.3	234.6	189.3	146.2
42.5°	774.0	693.5	618.8	551.9	482.8	419.3	358.1	300.3	247.0	198.3	153.0
40°	832.9	740.0	655.0	581.4	510.0	442.0	377.4	316.2	259.5	207.4	159.8
37.5°	889.6	785.3	695.8	613.1	536.0	464.6	396.6	332.0	272.0	216.5	166.6
35°	947.4	835.2	733.2	642.6	562.1	487.3	414.8	346.8	282.2	224.4	173.4
32.5°	1006.3	882.8	772.9	674.3	588.2	507.7	431.8	360.4	293.5	233.4	179.1
30°	1063.0	928.1	810.3	704.9	612.0	528.1	448.8	374.0	304.8	241.4	184.7
27.5°	1120.8	975.7	847.7	733.2	634.6	546.2	463.5	386.4	315.0	249.3	190.4
25°	1176.3	1021.1	882.8	760.4	655.0	564.4	479.4	398.9	324.1	256.1	194.9
22.5°	1227.3	1060.7	914.5	786.5	676.5	580.2	493.0	410.2	333.2	262.9	199.5
20°	1273.8	1101.5	947.4	812.5	696.9	596.1	504.3	420.4	341.1	268.6	204.0
17.5°	1319.1	1138.9	976.9	836.3	713.9	609.7	515.6	428.4	347.9	273.1	207.4
15°	1357.6	1171.8	1002.9	856.7	729.8	621.0	524.7	436.3	353.6	277.6	209.7
12.5°	1391.6	1200.1	1025.6	873.7	742.3	631.2	533.8	443.1	359.2	281.0	213.1
10°	1418.8	1222.8	1043.7	888.5	753.6	639.2	539.4	448.8	362.6	284.4	215.3
7.5°	1440.4	1240.9	1058.5	898.7	761.5	646.0	545.1	452.2	366.0	286.7	218.7
5°	1456.2	1254.5	1068.7	906.6	768.3	653.9	551.9	457.8	370.6	290.1	218.7
2.5°	1468.7	1264.7	1076.6	913.4	772.9	653.9	551.9	457.8	370.6	290.1	218.7
0°	1468.7	1264.7	1076.6	913.4	772.9	653.9	551.9	457.8	370.6	290.1	218.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.7	4.5	2.3	0.0
85°	12.5	7.9	4.5	0.0
82.5°	18.1	12.5	5.7	0.0
80°	23.8	15.9	7.9	0.0
77.5°	30.6	20.4	10.2	0.0
75°	36.3	23.8	12.5	0.0
72.5°	41.9	28.3	13.6	0.0
70°	47.6	31.7	15.9	0.0
67.5°	54.4	35.1	18.1	0.0
65°	60.1	39.7	19.3	0.0
62.5°	65.7	43.1	21.5	0.0
60°	71.4	46.5	22.7	0.0
57.5°	77.1	49.9	24.9	0.0
55°	82.7	54.4	27.2	0.0
52.5°	88.4	57.8	28.3	0.0
50°	94.1	61.2	29.5	0.0
47.5°	98.6	64.6	31.7	0.0
45°	104.3	68.0	32.9	0.0
42.5°	109.9	70.3	34.0	0.0
40°	114.5	73.7	35.1	0.0
37.5°	120.1	75.9	37.4	0.0
35°	124.7	79.3	38.5	0.0
32.5°	128.1	81.6	39.7	0.0
30°	132.6	83.9	40.8	0.0
27.5°	136.0	86.1	40.8	0.0
25°	139.4	88.4	41.9	0.0
22.5°	142.8	89.5	43.1	0.0
20°	146.2	91.8	44.2	0.0
17.5°	148.5	92.9	44.2	0.0
15°	150.7	94.1	46.5	0.0
12.5°	151.9	95.2	46.5	0.0
10°	154.1	97.5	46.5	0.0
7.5°	156.4	97.5	46.5	0.0
5°	156.4	97.5	46.5	0.0
2.5°	156.4	97.5	46.5	0.0
0°	156.4	97.5	46.5	0.0

(END OF REPORT)