

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: P623818

Luminaire Tested: **IFLD-S-SA3C-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623818
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

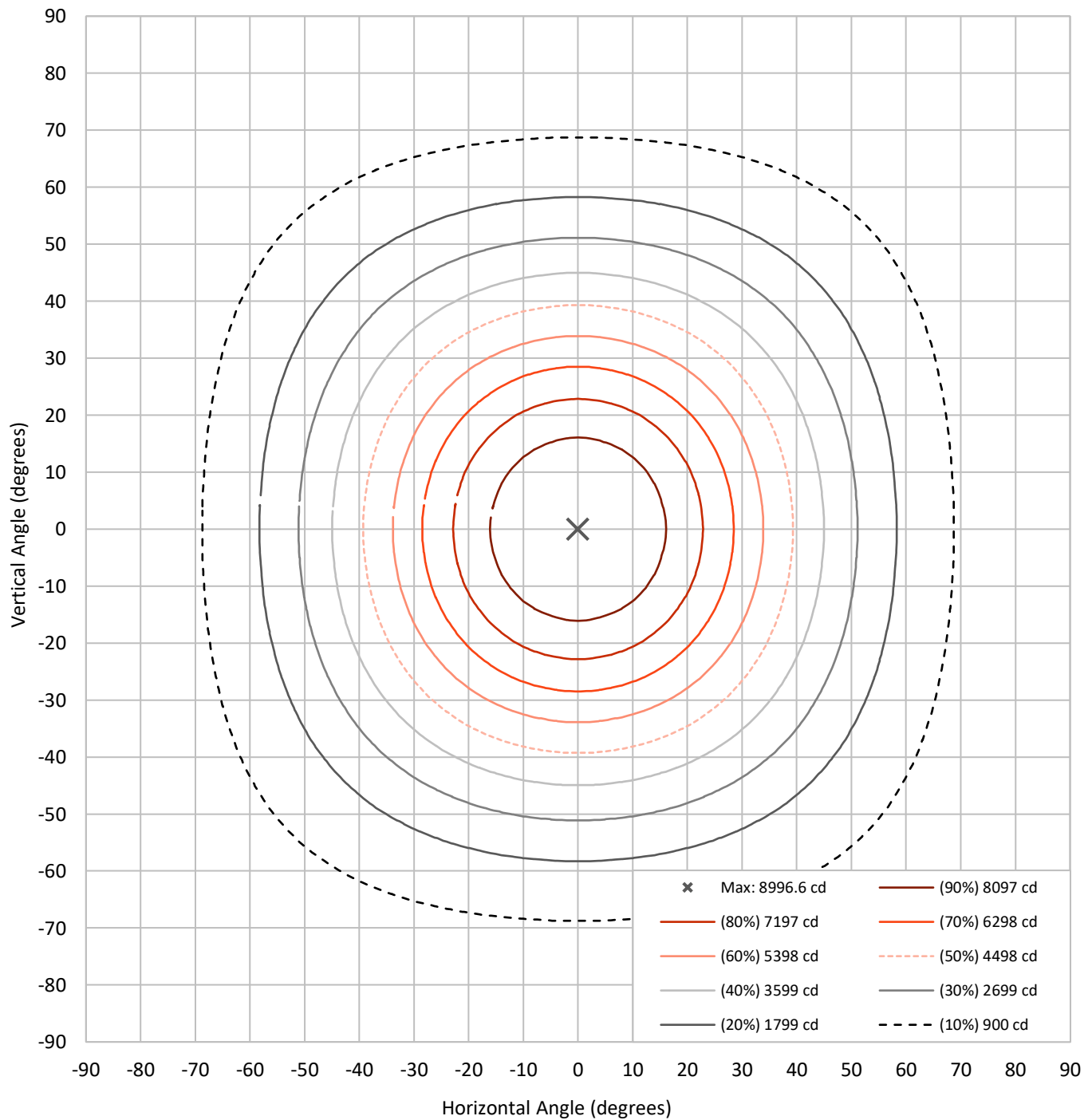
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	16198.5 lumens	Max Intensity:	8996.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	100.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7008.9 lumens	Field Lumens:	11476.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	160.8		
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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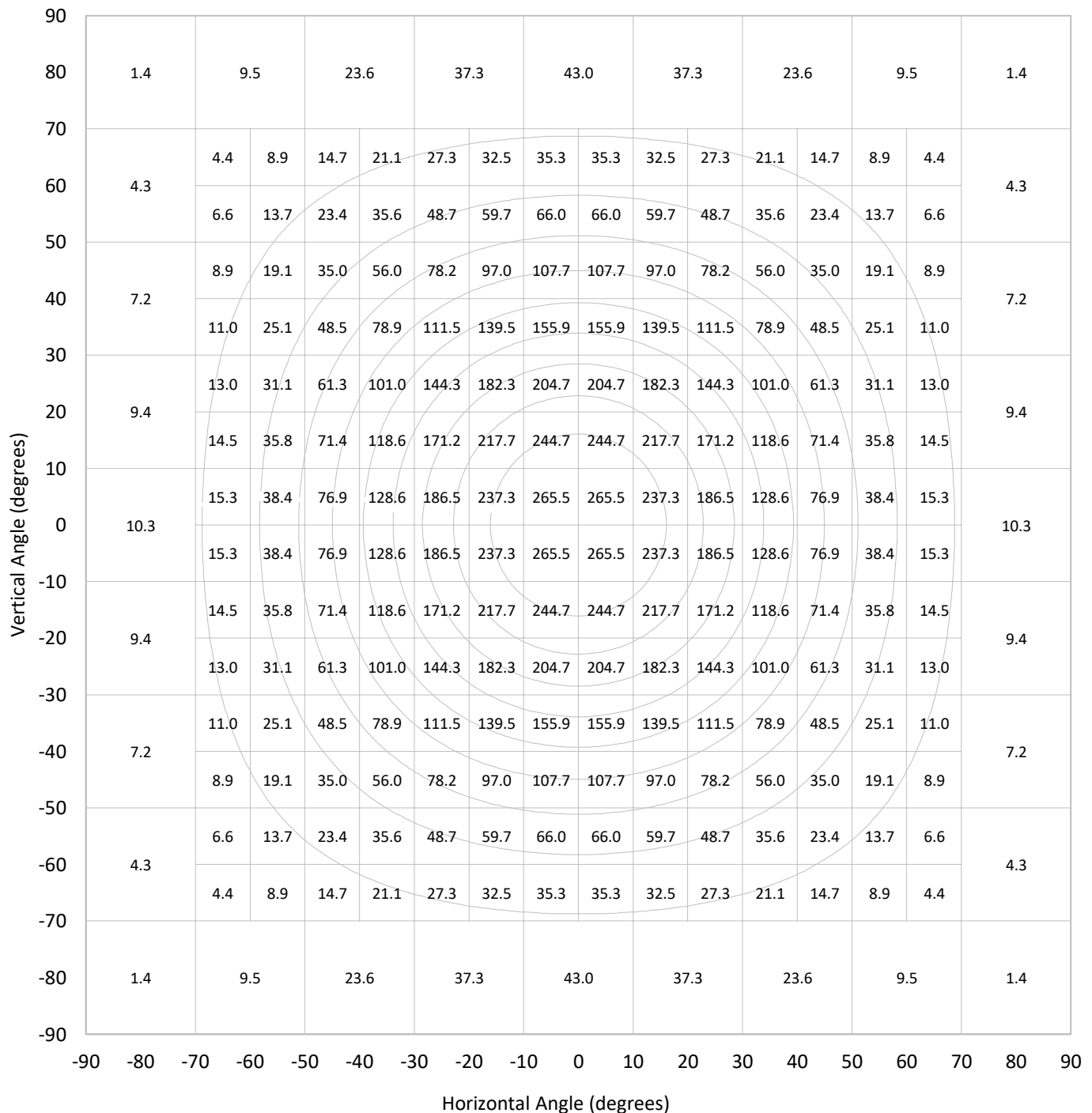
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Iso-Candela Plot



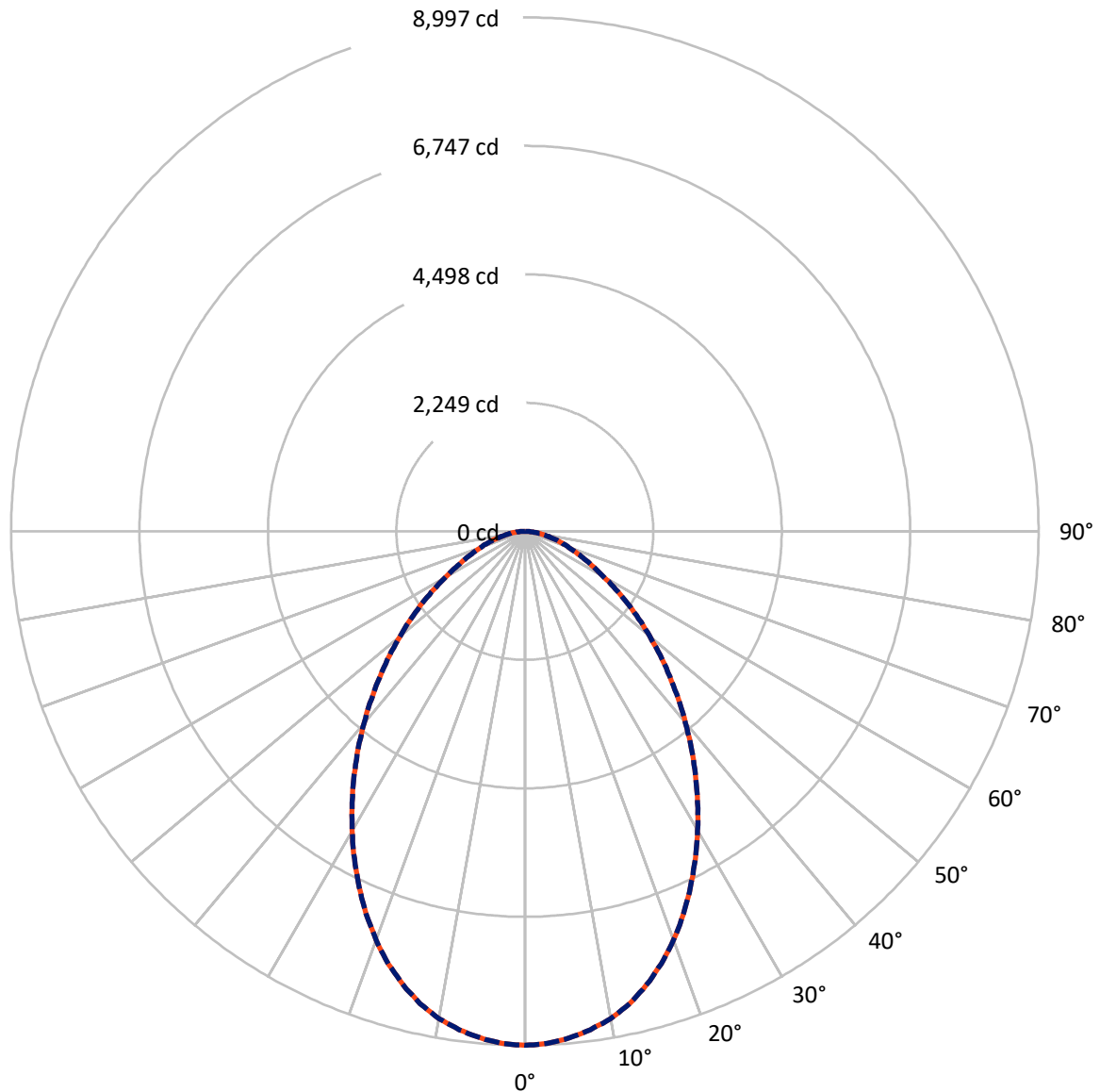
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Lumen Table



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Luminous Intensity Polar Plot

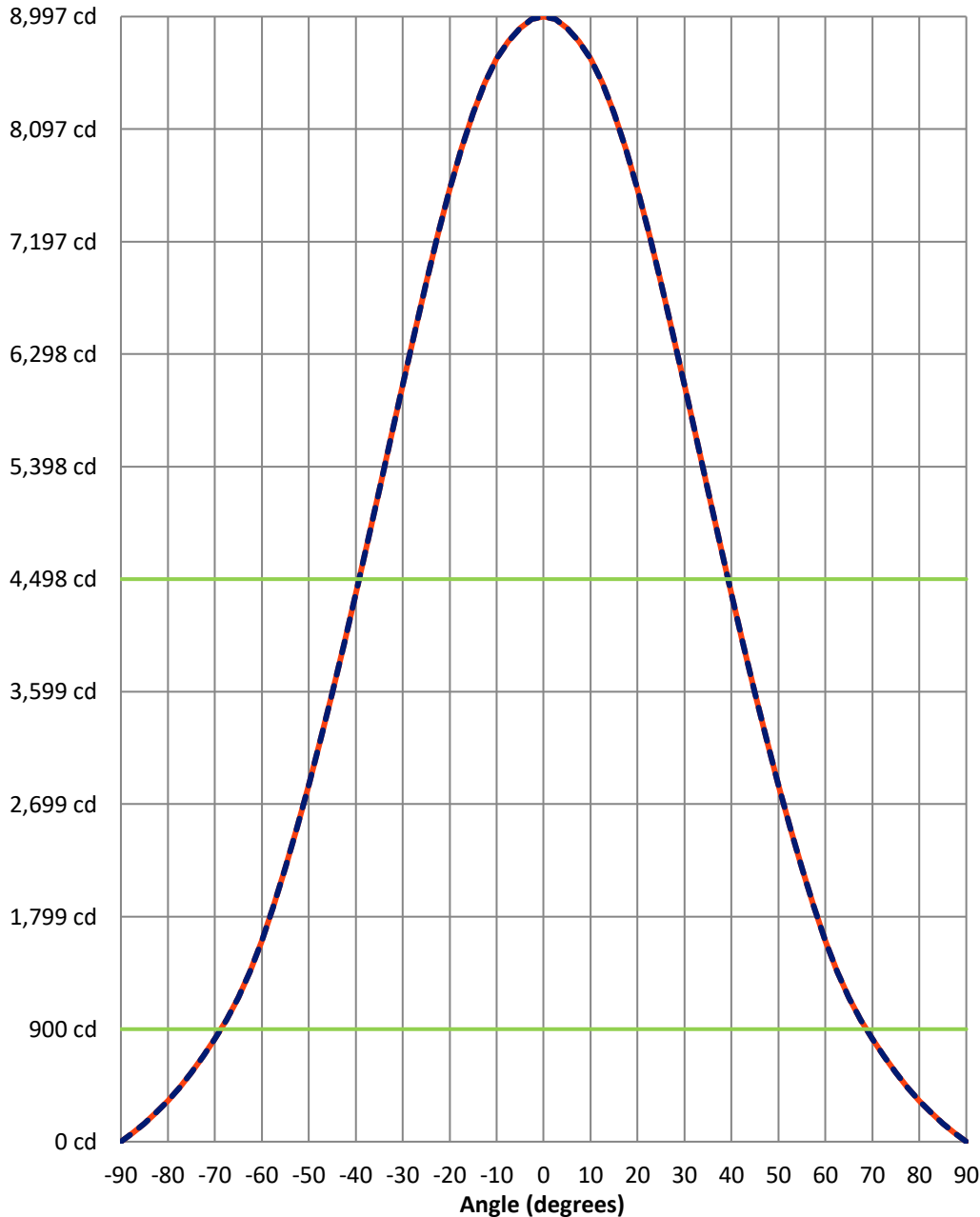


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 7008.9
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 11476.9
Efficiency: 70.9%

Spill:
Lumens: 4721.6
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°	69.2	69.2	69.2	69.2	69.2	69.2	69.2	65.9	65.9	64.2	62.5
85°	145.2	145.2	145.2	145.2	145.2	141.9	140.2	138.5	136.8	133.4	131.7
82.5°	233.1	233.1	233.1	233.1	229.7	226.3	224.6	221.2	217.9	212.8	207.7
80°	326.0	326.0	326.0	326.0	320.9	317.5	312.4	309.1	304.0	297.2	290.5
77.5°	432.3	432.3	432.3	427.3	423.9	418.8	413.8	407.0	400.3	391.8	381.7
75°	552.3	552.3	552.3	545.5	540.4	535.4	526.9	518.5	508.3	496.5	483.0
72.5°	682.3	682.3	682.3	673.9	668.8	660.3	650.2	638.4	626.6	611.4	594.5
70°	822.5	822.5	822.5	812.3	803.9	795.5	781.9	768.4	751.5	734.7	714.4
67.5°	974.5	974.5	974.5	962.7	952.5	940.7	925.5	908.6	888.3	864.7	841.1
65°	1151.8	1151.8	1145.0	1134.9	1123.1	1106.2	1087.6	1064.0	1038.6	1008.3	976.2
62.5°	1361.2	1361.2	1351.1	1339.3	1324.1	1302.1	1276.8	1246.4	1210.9	1172.1	1133.2
60°	1604.4	1604.4	1592.6	1577.4	1555.4	1528.4	1494.6	1455.8	1411.9	1362.9	1315.6
57.5°	1884.8	1884.8	1869.6	1849.3	1822.3	1788.5	1746.3	1697.3	1641.6	1580.8	1521.7
55°	2188.8	2188.8	2170.2	2146.5	2114.5	2073.9	2023.3	1965.8	1898.3	1829.0	1753.0
52.5°	2511.3	2511.3	2489.4	2462.4	2425.2	2377.9	2320.5	2252.9	2175.3	2094.2	2004.7
50°	2850.8	2850.8	2825.5	2795.1	2752.8	2697.1	2631.2	2553.6	2467.4	2372.8	2269.8
47.5°	3213.9	3213.9	3185.2	3149.7	3099.1	3034.9	2957.2	2867.7	2769.7	2663.3	2546.8
45°	3587.1	3587.1	3555.1	3514.5	3458.8	3386.2	3300.0	3213.9	3088.9	2965.6	2830.5
42.5°	3975.6	3975.6	3938.4	3892.8	3828.6	3749.3	3651.3	3539.9	3416.6	3278.1	3131.1
40°	4379.2	4379.2	4337.0	4284.6	4213.7	4122.5	4012.7	3887.8	3749.3	3595.6	3433.5
37.5°	4791.3	4791.3	4744.0	4686.6	4607.2	4505.9	4382.6	4244.1	4088.7	3918.2	3739.1
35°	5206.8	5206.8	5154.4	5091.9	5004.1	4892.6	4759.2	4605.5	4433.3	4247.5	4046.5
32.5°	5630.7	5630.7	5573.2	5502.3	5402.7	5279.4	5132.4	4965.3	4791.3	4575.1	4355.6
30°	6049.5	6049.5	5987.0	5909.3	5802.9	5667.8	5507.4	5323.3	5118.9	4897.7	4661.3
27.5°	6461.6	6444.7	6392.3	6309.6	6193.1	6049.5	5875.5	5676.3	5455.0	5211.8	4958.5
25°	6866.9	6848.3	6790.9	6699.7	6574.7	6417.7	6230.2	6017.4	5779.3	5522.6	5245.6
22.5°	7255.3	7235.1	7174.3	7076.3	6942.9	6772.3	6571.4	6343.4	6090.0	5814.7	5522.6
20°	7615.1	7593.1	7530.6	7427.6	7289.1	7108.4	6895.6	6650.7	6380.5	6090.0	5779.3
17.5°	7939.3	7917.4	7851.5	7745.1	7615.1	7414.1	7194.5	6936.2	6650.7	6343.4	6017.4
15°	8224.8	8201.1	8133.6	8027.2	7878.5	7689.4	7458.0	7194.5	6895.6	6571.4	6230.2
12.5°	8467.9	8444.3	8375.1	8268.7	8115.0	7925.8	7689.4	7414.1	7108.4	6772.3	6417.7
10°	8660.5	8636.8	8571.0	8469.6	8310.9	8115.0	7878.5	7615.1	7289.1	6942.9	6574.7
7.5°	8799.0	8777.0	8716.2	8614.9	8469.6	8268.7	8027.2	7745.1	7427.6	7076.3	6699.7
5°	8903.7	8878.3	8817.5	8716.2	8571.0	8375.1	8133.6	7851.5	7530.6	7174.3	6790.9
2.5°	8976.3	8945.9	8878.3	8777.0	8636.8	8444.3	8201.1	7917.4	7593.1	7235.1	6848.3
0°	8996.6	8976.3	8903.7	8799.0	8660.5	8467.9	8224.8	7939.3	7615.1	7255.3	6866.9

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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°	60.8	60.8	59.1	57.4	55.7	52.4	50.7	49.0	47.3	43.9	42.2
85°	128.4	125.0	121.6	118.2	113.2	109.8	104.7	101.3	96.3	91.2	86.1
82.5°	202.7	197.6	190.8	185.8	179.0	170.6	163.8	155.4	146.9	140.2	131.7
80°	283.7	275.3	266.8	258.4	248.3	238.1	228.0	217.9	206.0	194.2	182.4
77.5°	371.5	359.7	347.9	334.4	322.6	309.1	295.6	282.0	266.8	251.6	236.4
75°	469.5	454.3	437.4	420.5	405.3	386.7	368.2	349.6	329.3	310.8	290.5
72.5°	575.9	557.3	537.1	516.8	494.8	471.2	447.5	422.2	398.6	374.9	349.6
70°	690.7	668.8	643.5	618.1	591.1	562.4	533.7	503.3	472.9	442.5	412.1
67.5°	814.0	787.0	756.6	726.2	692.4	658.7	624.9	589.4	552.3	515.1	479.6
65°	945.8	912.0	876.5	837.7	798.8	760.0	719.5	677.2	635.0	591.1	552.3
62.5°	1092.7	1050.5	1004.9	957.6	913.7	866.4	822.5	770.1	719.5	670.5	621.5
60°	1263.3	1207.5	1151.8	1092.7	1037.0	976.2	922.1	864.7	807.3	751.5	694.1
57.5°	1454.1	1383.2	1315.6	1244.7	1170.4	1102.8	1033.6	964.3	900.2	834.3	771.8
55°	1670.3	1584.2	1499.7	1411.9	1325.8	1241.3	1153.5	1075.8	996.4	922.1	849.5
52.5°	1906.7	1808.8	1704.1	1604.4	1494.6	1389.9	1292.0	1194.0	1101.1	1011.6	928.9
50°	2160.1	2045.2	1925.3	1803.7	1678.7	1555.4	1437.2	1322.4	1214.3	1109.6	1011.6
47.5°	2423.5	2293.5	2156.7	2018.2	1884.8	1734.5	1592.6	1462.6	1332.5	1214.3	1101.1
45°	2693.7	2546.8	2396.5	2239.4	2082.4	1920.2	1763.2	1604.4	1462.6	1322.4	1194.0
42.5°	2972.4	2806.9	2639.7	2465.7	2291.8	2114.5	1937.1	1763.2	1592.6	1437.2	1292.0
40°	3259.5	3077.1	2886.3	2697.1	2511.3	2308.7	2114.5	1920.2	1734.5	1555.4	1389.9
37.5°	3546.6	3347.3	3141.3	2928.5	2715.7	2511.3	2291.8	2082.4	1884.8	1678.7	1494.6
35°	3835.4	3615.9	3392.9	3161.5	2928.5	2697.1	2465.7	2239.4	2018.2	1803.7	1604.4
32.5°	4125.9	3886.1	3639.5	3392.9	3141.3	2886.3	2639.7	2396.5	2156.7	1925.3	1704.1
30°	4411.3	4151.2	3886.1	3615.9	3347.3	3077.1	2806.9	2546.8	2293.5	2045.2	1808.8
27.5°	4690.0	4411.3	4125.9	3835.4	3546.6	3259.5	2972.4	2693.7	2423.5	2160.1	1906.7
25°	4958.5	4661.3	4355.6	4046.5	3739.1	3433.5	3131.1	2830.5	2546.8	2269.8	2004.7
22.5°	5211.8	4897.7	4575.1	4247.5	3918.2	3595.6	3278.1	2965.6	2663.3	2372.8	2094.2
20°	5455.0	5118.9	4791.3	4433.3	4088.7	3749.3	3416.6	3088.9	2769.7	2467.4	2175.3
17.5°	5676.3	5323.3	4965.3	4605.5	4244.1	3887.8	3539.9	3213.9	2867.7	2553.6	2252.9
15°	5875.5	5507.4	5132.4	4759.2	4382.6	4012.7	3651.3	3300.0	2957.2	2631.2	2320.5
12.5°	6049.5	5667.8	5279.4	4892.6	4505.9	4122.5	3749.3	3386.2	3034.9	2697.1	2377.9
10°	6193.1	5802.9	5402.7	5004.1	4607.2	4213.7	3828.6	3458.8	3099.1	2752.8	2425.2
7.5°	6309.6	5909.3	5502.3	5091.9	4686.6	4284.6	3892.8	3514.5	3149.7	2795.1	2462.4
5°	6392.3	5987.0	5573.2	5154.4	4744.0	4337.0	3938.4	3555.1	3185.2	2825.5	2489.4
2.5°	6444.7	6049.5	5630.7	5206.8	4791.3	4379.2	3975.6	3587.1	3213.9	2850.8	2511.3
0°	6461.6	6049.5	5630.7	5206.8	4791.3	4379.2	3975.6	3587.1	3213.9	2850.8	2511.3

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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°	40.5	37.2	33.8	32.1	28.7	27.0	23.6	20.3	18.6	15.2	11.8
85°	81.1	74.3	69.2	64.2	59.1	52.4	47.3	42.2	35.5	30.4	23.6
82.5°	123.3	114.8	106.4	98.0	89.5	81.1	70.9	62.5	54.0	45.6	35.5
80°	170.6	157.1	145.2	133.4	121.6	109.8	96.3	84.4	70.9	59.1	47.3
77.5°	219.6	204.4	187.5	170.6	153.7	138.5	121.6	106.4	91.2	74.3	59.1
75°	271.9	251.6	233.1	211.1	190.8	168.9	148.6	128.4	109.8	91.2	70.9
72.5°	326.0	300.6	275.3	251.6	226.3	201.0	177.3	152.0	128.4	106.4	84.4
70°	381.7	351.3	320.9	292.2	263.5	233.1	206.0	177.3	148.6	121.6	96.3
67.5°	440.8	405.3	369.9	332.7	300.6	266.8	233.1	201.0	168.9	138.5	109.8
65°	505.0	462.7	418.8	380.0	337.8	300.6	263.5	226.3	190.8	153.7	121.6
62.5°	570.8	521.9	472.9	423.9	380.0	332.7	292.2	251.6	211.1	170.6	133.4
60°	638.4	582.7	526.9	472.9	418.8	369.9	320.9	275.3	233.1	187.5	145.2
57.5°	707.6	645.1	582.7	521.9	462.7	405.3	351.3	300.6	251.6	204.4	157.1
55°	778.6	707.6	638.4	570.8	505.0	440.8	381.7	326.0	271.9	219.6	170.6
52.5°	849.5	771.8	694.1	621.5	552.3	479.6	412.1	349.6	290.5	236.4	182.4
50°	922.1	834.3	751.5	670.5	591.1	515.1	442.5	374.9	310.8	251.6	194.2
47.5°	996.4	900.2	807.3	719.5	635.0	552.3	472.9	398.6	329.3	266.8	206.0
45°	1075.8	964.3	864.7	770.1	677.2	589.4	503.3	422.2	349.6	282.0	217.9
42.5°	1153.5	1033.6	922.1	822.5	719.5	624.9	533.7	447.5	368.2	295.6	228.0
40°	1241.3	1102.8	976.2	866.4	760.0	658.7	562.4	471.2	386.7	309.1	238.1
37.5°	1325.8	1170.4	1037.0	913.7	798.8	692.4	591.1	494.8	405.3	322.6	248.3
35°	1411.9	1244.7	1092.7	957.6	837.7	726.2	618.1	516.8	420.5	334.4	258.4
32.5°	1499.7	1315.6	1151.8	1004.9	876.5	756.6	643.5	537.1	437.4	347.9	266.8
30°	1584.2	1383.2	1207.5	1050.5	912.0	787.0	668.8	557.3	454.3	359.7	275.3
27.5°	1670.3	1454.1	1263.3	1092.7	945.8	814.0	690.7	575.9	469.5	371.5	283.7
25°	1753.0	1521.7	1315.6	1133.2	976.2	841.1	714.4	594.5	483.0	381.7	290.5
22.5°	1829.0	1580.8	1362.9	1172.1	1008.3	864.7	734.7	611.4	496.5	391.8	297.2
20°	1898.3	1641.6	1411.9	1210.9	1038.6	888.3	751.5	626.6	508.3	400.3	304.0
17.5°	1965.8	1697.3	1455.8	1246.4	1064.0	908.6	768.4	638.4	518.5	407.0	309.1
15°	2023.3	1746.3	1494.6	1276.8	1087.6	925.5	781.9	650.2	526.9	413.8	312.4
12.5°	2073.9	1788.5	1528.4	1302.1	1106.2	940.7	795.5	660.3	535.4	418.8	317.5
10°	2114.5	1822.3	1555.4	1324.1	1123.1	952.5	803.9	668.8	540.4	423.9	320.9
7.5°	2146.5	1849.3	1577.4	1339.3	1134.9	962.7	812.3	673.9	545.5	427.3	326.0
5°	2170.2	1869.6	1592.6	1351.1	1145.0	974.5	822.5	682.3	552.3	432.3	326.0
2.5°	2188.8	1884.8	1604.4	1361.2	1151.8	974.5	822.5	682.3	552.3	432.3	326.0
0°	2188.8	1884.8	1604.4	1361.2	1151.8	974.5	822.5	682.3	552.3	432.3	326.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.4	6.8	3.4	0.0
85°	18.6	11.8	6.8	0.0
82.5°	27.0	18.6	8.4	0.0
80°	35.5	23.6	11.8	0.0
77.5°	45.6	30.4	15.2	0.0
75°	54.0	35.5	18.6	0.0
72.5°	62.5	42.2	20.3	0.0
70°	70.9	47.3	23.6	0.0
67.5°	81.1	52.4	27.0	0.0
65°	89.5	59.1	28.7	0.0
62.5°	98.0	64.2	32.1	0.0
60°	106.4	69.2	33.8	0.0
57.5°	114.8	74.3	37.2	0.0
55°	123.3	81.1	40.5	0.0
52.5°	131.7	86.1	42.2	0.0
50°	140.2	91.2	43.9	0.0
47.5°	146.9	96.3	47.3	0.0
45°	155.4	101.3	49.0	0.0
42.5°	163.8	104.7	50.7	0.0
40°	170.6	109.8	52.4	0.0
37.5°	179.0	113.2	55.7	0.0
35°	185.8	118.2	57.4	0.0
32.5°	190.8	121.6	59.1	0.0
30°	197.6	125.0	60.8	0.0
27.5°	202.7	128.4	60.8	0.0
25°	207.7	131.7	62.5	0.0
22.5°	212.8	133.4	64.2	0.0
20°	217.9	136.8	65.9	0.0
17.5°	221.2	138.5	65.9	0.0
15°	224.6	140.2	69.2	0.0
12.5°	226.3	141.9	69.2	0.0
10°	229.7	145.2	69.2	0.0
7.5°	233.1	145.2	69.2	0.0
5°	233.1	145.2	69.2	0.0
2.5°	233.1	145.2	69.2	0.0
0°	233.1	145.2	69.2	0.0

(END OF REPORT)