

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: P623811

Luminaire Tested: **IFLD-S-SA2A-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623811
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-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

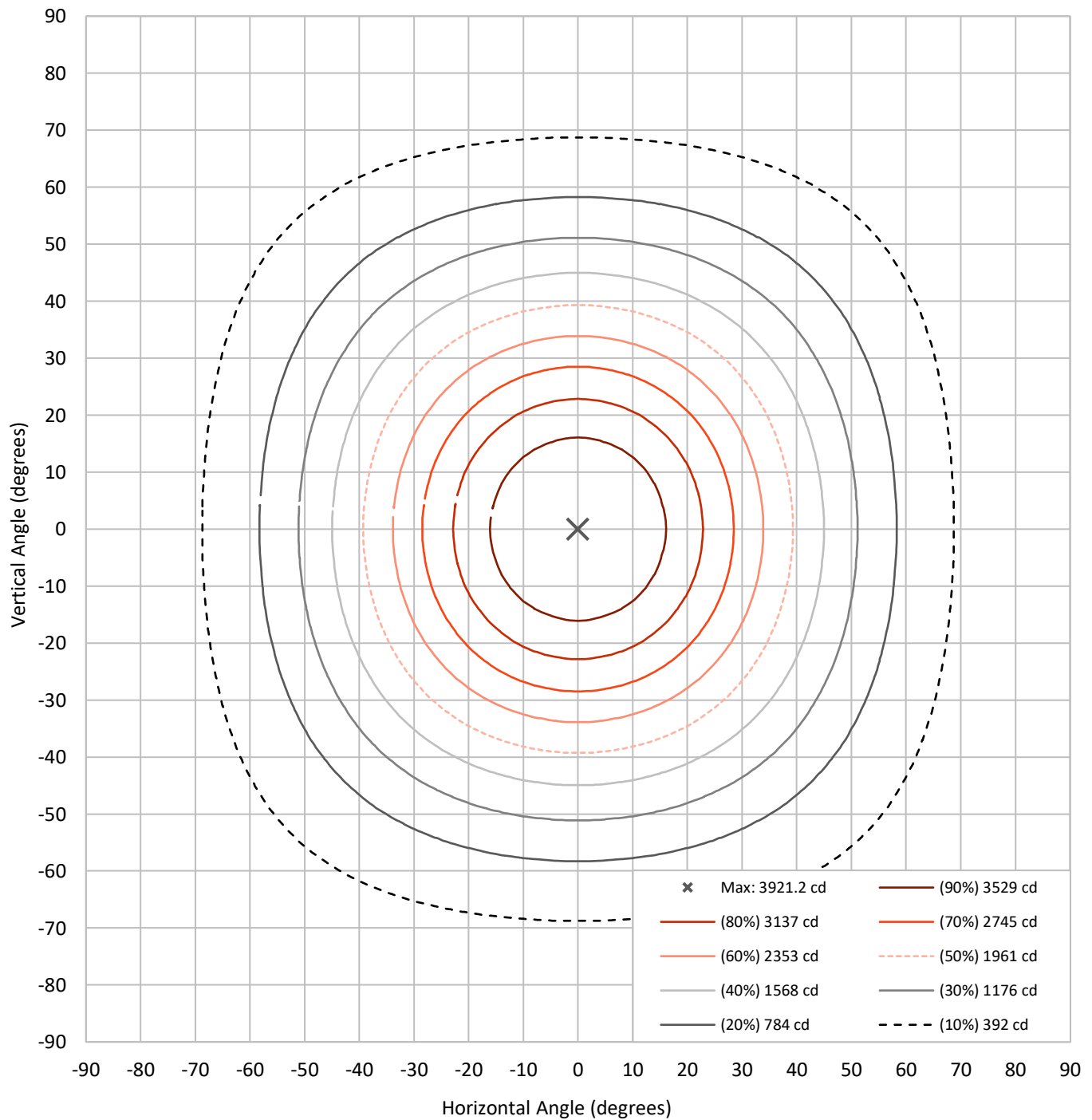
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7060.2 lumens	Max Intensity:	3921.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	110.7 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:	3054.9 lumens	Field Lumens:	5002.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	63.8		
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		



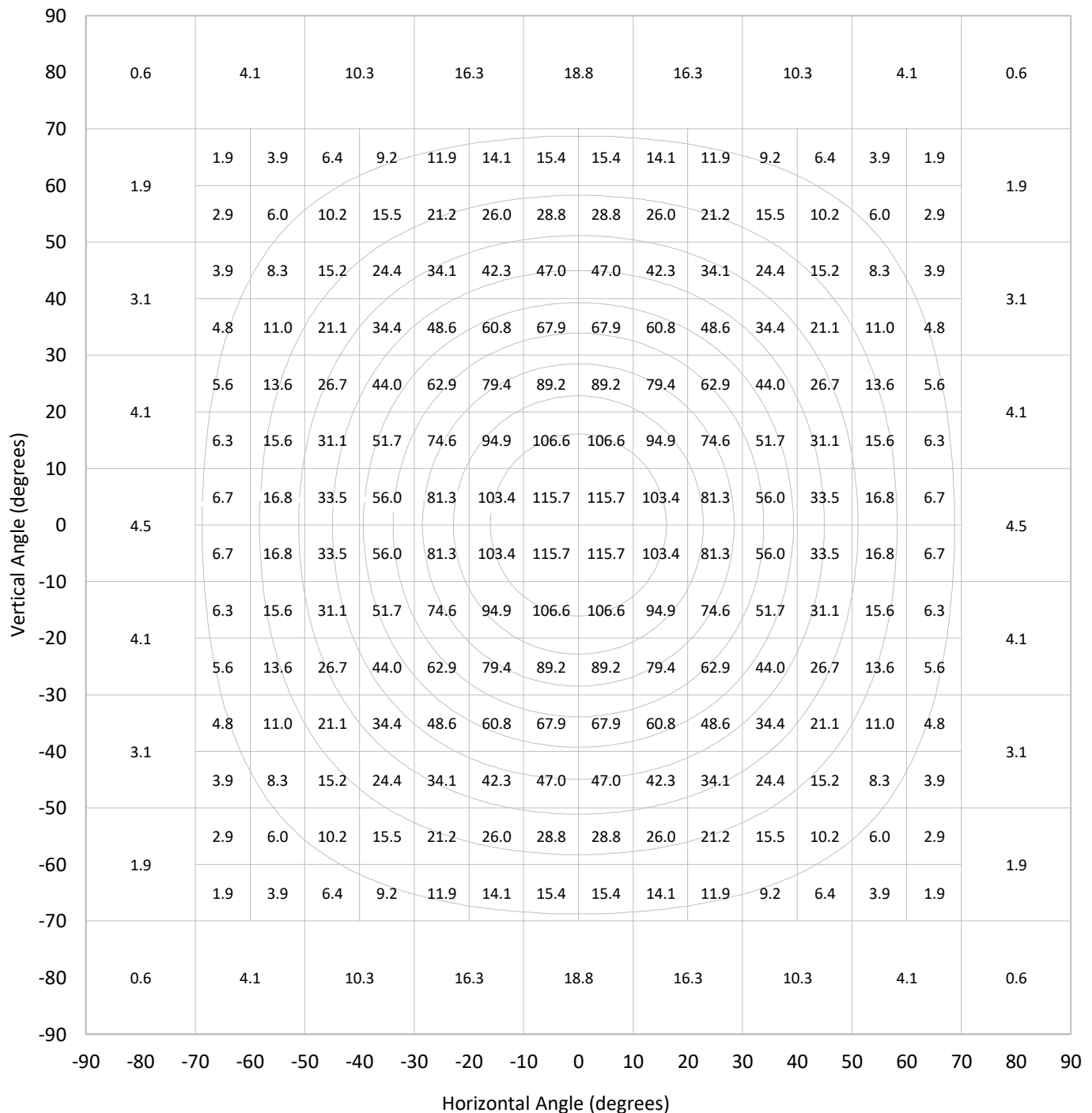
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Iso-Candela Plot



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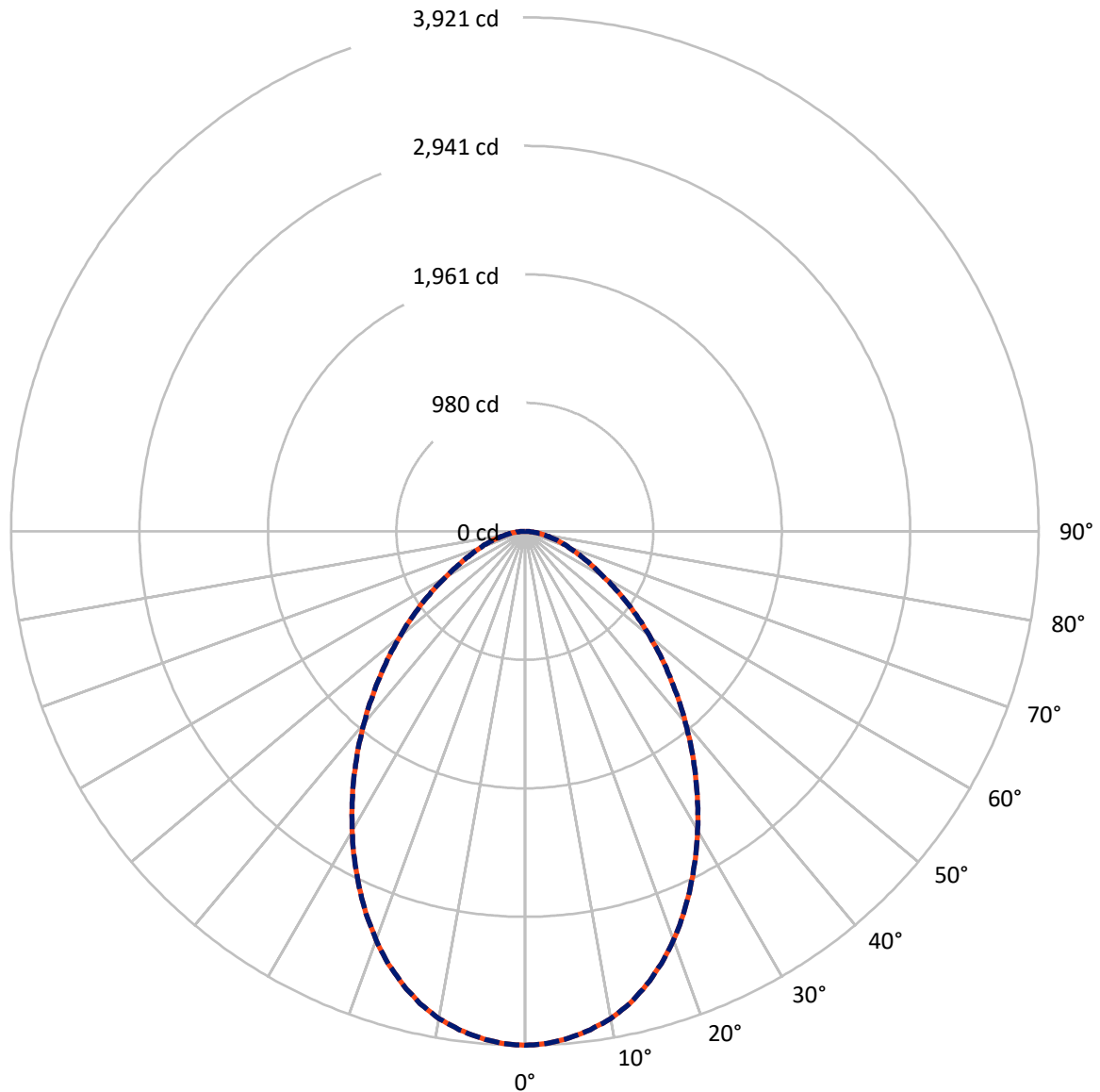
Lumen Table



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Luminous Intensity Polar Plot

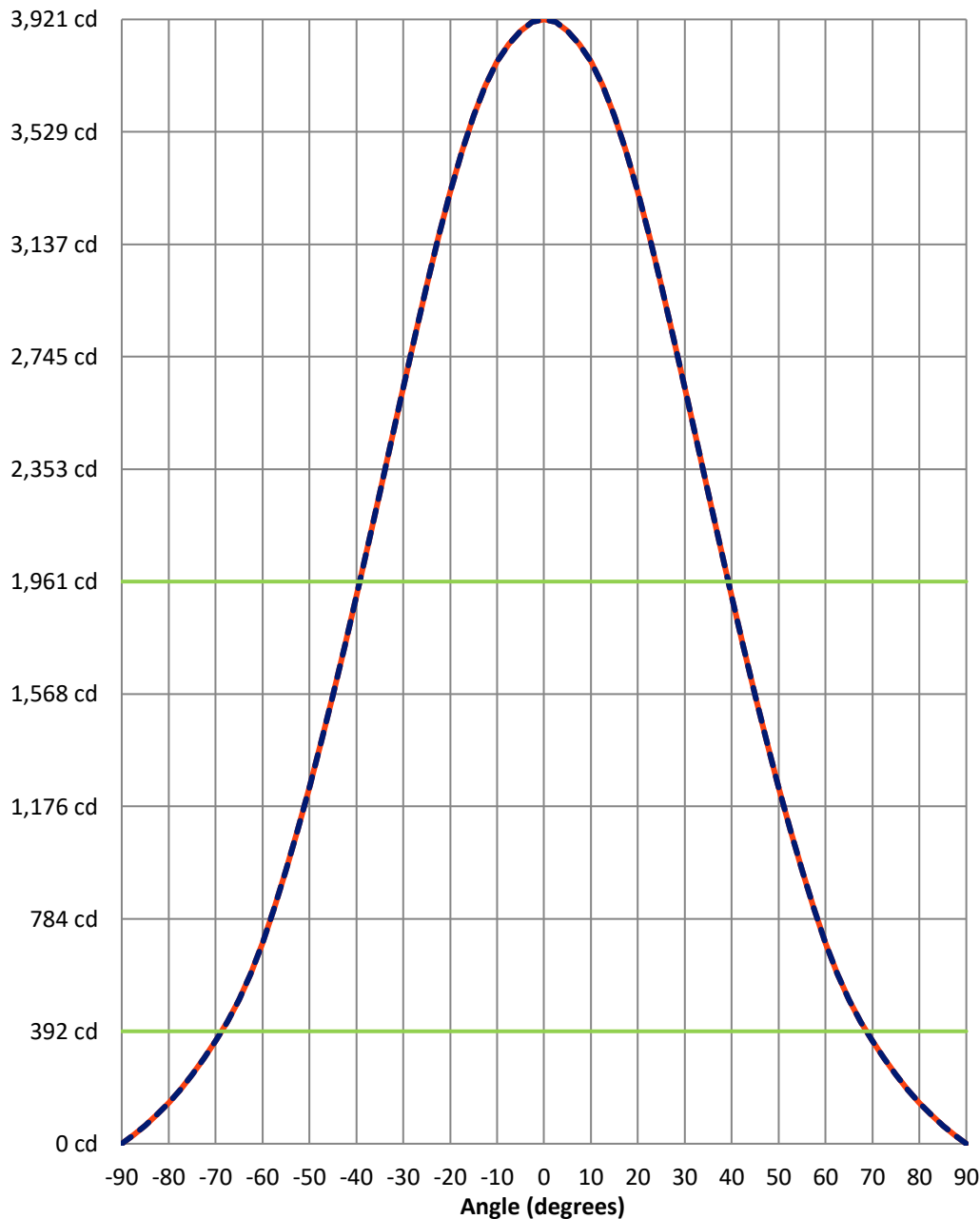


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 3054.9
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 5002.2
Efficiency: 70.9%

Spill:

Lumens: 2057.9
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°	30.2	30.2	30.2	30.2	30.2	30.2	30.2	28.7	28.7	28.0	27.2
85°	63.3	63.3	63.3	63.3	63.3	61.8	61.1	60.4	59.6	58.2	57.4
82.5°	101.6	101.6	101.6	101.6	100.1	98.6	97.9	96.4	95.0	92.7	90.5
80°	142.1	142.1	142.1	142.1	139.9	138.4	136.2	134.7	132.5	129.6	126.6
77.5°	188.4	188.4	188.4	186.2	184.8	182.6	180.3	177.4	174.5	170.8	166.4
75°	240.7	240.7	240.7	237.8	235.6	233.3	229.7	226.0	221.6	216.4	210.5
72.5°	297.4	297.4	297.4	293.7	291.5	287.8	283.4	278.2	273.1	266.5	259.1
70°	358.5	358.5	358.5	354.1	350.4	346.7	340.8	334.9	327.6	320.2	311.4
67.5°	424.7	424.7	424.7	419.6	415.2	410.0	403.4	396.0	387.2	376.9	366.6
65°	502.0	502.0	499.1	494.7	489.5	482.1	474.0	463.7	452.7	439.4	425.5
62.5°	593.3	593.3	588.9	583.7	577.1	567.5	556.5	543.2	527.8	510.8	493.9
60°	699.3	699.3	694.1	687.5	677.9	666.2	651.4	634.5	615.4	594.0	573.4
57.5°	821.5	821.5	814.9	806.0	794.2	779.5	761.1	739.8	715.5	689.0	663.2
55°	954.0	954.0	945.9	935.6	921.6	903.9	881.8	856.8	827.4	797.2	764.1
52.5°	1094.6	1094.6	1085.0	1073.2	1057.0	1036.4	1011.4	981.9	948.1	912.8	873.7
50°	1242.5	1242.5	1231.5	1218.2	1199.8	1175.5	1146.8	1113.0	1075.4	1034.2	989.3
47.5°	1400.8	1400.8	1388.3	1372.8	1350.7	1322.8	1288.9	1249.9	1207.2	1160.8	1110.0
45°	1563.5	1563.5	1549.5	1531.8	1507.5	1475.9	1438.3	1400.8	1346.3	1292.6	1233.7
42.5°	1732.8	1732.8	1716.6	1696.7	1668.7	1634.1	1591.4	1542.9	1489.1	1428.8	1364.7
40°	1908.7	1908.7	1890.3	1867.5	1836.6	1796.8	1749.0	1694.5	1634.1	1567.1	1496.5
37.5°	2088.3	2088.3	2067.7	2042.7	2008.1	1963.9	1910.2	1849.8	1782.1	1707.7	1629.7
35°	2269.4	2269.4	2246.6	2219.3	2181.0	2132.5	2074.3	2007.3	1932.2	1851.3	1763.7
32.5°	2454.1	2454.1	2429.1	2398.2	2354.8	2301.0	2237.0	2164.1	2088.3	1994.1	1898.4
30°	2636.7	2636.7	2609.5	2575.6	2529.2	2470.3	2400.4	2320.2	2231.1	2134.7	2031.6
27.5°	2816.3	2808.9	2786.1	2750.0	2699.3	2636.7	2560.9	2474.0	2377.6	2271.6	2161.2
25°	2993.0	2984.9	2959.8	2920.1	2865.6	2797.2	2715.5	2622.7	2518.9	2407.0	2286.3
22.5°	3162.3	3153.4	3126.9	3084.2	3026.1	2951.7	2864.1	2764.8	2654.4	2534.4	2407.0
20°	3319.0	3309.5	3282.2	3237.3	3177.0	3098.2	3005.5	2898.7	2781.0	2654.4	2518.9
17.5°	3460.4	3450.8	3422.1	3375.7	3319.0	3231.5	3135.8	3023.1	2898.7	2764.8	2622.7
15°	3584.8	3574.5	3545.0	3498.7	3433.9	3351.4	3250.6	3135.8	3005.5	2864.1	2715.5
12.5°	3690.8	3680.5	3650.3	3603.9	3536.9	3454.5	3351.4	3231.5	3098.2	2951.7	2797.2
10°	3774.7	3764.4	3735.7	3691.5	3622.3	3536.9	3433.9	3319.0	3177.0	3026.1	2865.6
7.5°	3835.1	3825.5	3799.0	3754.8	3691.5	3603.9	3498.7	3375.7	3237.3	3084.2	2920.1
5°	3880.7	3869.6	3843.1	3799.0	3735.7	3650.3	3545.0	3422.1	3282.2	3126.9	2959.8
2.5°	3912.3	3899.1	3869.6	3825.5	3764.4	3680.5	3574.5	3450.8	3309.5	3153.4	2984.9
0°	3921.2	3912.3	3880.7	3835.1	3774.7	3690.8	3584.8	3460.4	3319.0	3162.3	2993.0

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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°	26.5	26.5	25.8	25.0	24.3	22.8	22.1	21.3	20.6	19.1	18.4
85°	55.9	54.5	53.0	51.5	49.3	47.8	45.6	44.2	42.0	39.7	37.5
82.5°	88.3	86.1	83.2	81.0	78.0	74.3	71.4	67.7	64.0	61.1	57.4
80°	123.7	120.0	116.3	112.6	108.2	103.8	99.4	95.0	89.8	84.7	79.5
77.5°	161.9	156.8	151.6	145.7	140.6	134.7	128.8	122.9	116.3	109.7	103.1
75°	204.6	198.0	190.6	183.3	176.7	168.6	160.5	152.4	143.5	135.4	126.6
72.5°	251.0	242.9	234.1	225.2	215.7	205.4	195.1	184.0	173.7	163.4	152.4
70°	301.1	291.5	280.5	269.4	257.6	245.1	232.6	219.4	206.1	192.9	179.6
67.5°	354.8	343.0	329.8	316.5	301.8	287.1	272.4	256.9	240.7	224.5	209.1
65°	412.2	397.5	382.0	365.1	348.2	331.2	313.6	295.2	276.8	257.6	240.7
62.5°	476.3	457.9	438.0	417.4	398.2	377.6	358.5	335.7	313.6	292.2	270.9
60°	550.6	526.3	502.0	476.3	452.0	425.5	401.9	376.9	351.9	327.6	302.5
57.5°	633.8	602.9	573.4	542.5	510.1	480.7	450.5	420.3	392.3	363.6	336.4
55°	728.0	690.5	653.7	615.4	577.8	541.0	502.8	468.9	434.3	401.9	370.3
52.5°	831.1	788.4	742.7	699.3	651.4	605.8	563.1	520.4	479.9	440.9	404.9
50°	941.5	891.4	839.1	786.1	731.7	677.9	626.4	576.4	529.3	483.6	440.9
47.5°	1056.3	999.6	940.0	879.6	821.5	756.0	694.1	637.5	580.8	529.3	479.9
45°	1174.1	1110.0	1044.5	976.1	907.6	836.9	768.5	699.3	637.5	576.4	520.4
42.5°	1295.5	1223.4	1150.5	1074.7	998.9	921.6	844.3	768.5	694.1	626.4	563.1
40°	1420.7	1341.2	1258.0	1175.5	1094.6	1006.2	921.6	836.9	756.0	677.9	605.8
37.5°	1545.8	1458.9	1369.1	1276.4	1183.6	1094.6	998.9	907.6	821.5	731.7	651.4
35°	1671.7	1576.0	1478.8	1378.0	1276.4	1175.5	1074.7	976.1	879.6	786.1	699.3
32.5°	1798.3	1693.8	1586.3	1478.8	1369.1	1258.0	1150.5	1044.5	940.0	839.1	742.7
30°	1922.7	1809.3	1693.8	1576.0	1458.9	1341.2	1223.4	1110.0	999.6	891.4	788.4
27.5°	2044.1	1922.7	1798.3	1671.7	1545.8	1420.7	1295.5	1174.1	1056.3	941.5	831.1
25°	2161.2	2031.6	1898.4	1763.7	1629.7	1496.5	1364.7	1233.7	1110.0	989.3	873.7
22.5°	2271.6	2134.7	1994.1	1851.3	1707.7	1567.1	1428.8	1292.6	1160.8	1034.2	912.8
20°	2377.6	2231.1	2088.3	1932.2	1782.1	1634.1	1489.1	1346.3	1207.2	1075.4	948.1
17.5°	2474.0	2320.2	2164.1	2007.3	1849.8	1694.5	1542.9	1400.8	1249.9	1113.0	981.9
15°	2560.9	2400.4	2237.0	2074.3	1910.2	1749.0	1591.4	1438.3	1288.9	1146.8	1011.4
12.5°	2636.7	2470.3	2301.0	2132.5	1963.9	1796.8	1634.1	1475.9	1322.8	1175.5	1036.4
10°	2699.3	2529.2	2354.8	2181.0	2008.1	1836.6	1668.7	1507.5	1350.7	1199.8	1057.0
7.5°	2750.0	2575.6	2398.2	2219.3	2042.7	1867.5	1696.7	1531.8	1372.8	1218.2	1073.2
5°	2786.1	2609.5	2429.1	2246.6	2067.7	1890.3	1716.6	1549.5	1388.3	1231.5	1085.0
2.5°	2808.9	2636.7	2454.1	2269.4	2088.3	1908.7	1732.8	1563.5	1400.8	1242.5	1094.6
0°	2816.3	2636.7	2454.1	2269.4	2088.3	1908.7	1732.8	1563.5	1400.8	1242.5	1094.6

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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°	17.7	16.2	14.7	14.0	12.5	11.8	10.3	8.8	8.1	6.6	5.2
85°	35.3	32.4	30.2	28.0	25.8	22.8	20.6	18.4	15.5	13.2	10.3
82.5°	53.7	50.1	46.4	42.7	39.0	35.3	30.9	27.2	23.6	19.9	15.5
80°	74.3	68.5	63.3	58.2	53.0	47.8	42.0	36.8	30.9	25.8	20.6
77.5°	95.7	89.1	81.7	74.3	67.0	60.4	53.0	46.4	39.7	32.4	25.8
75°	118.5	109.7	101.6	92.0	83.2	73.6	64.8	55.9	47.8	39.7	30.9
72.5°	142.1	131.0	120.0	109.7	98.6	87.6	77.3	66.2	55.9	46.4	36.8
70°	166.4	153.1	139.9	127.3	114.8	101.6	89.8	77.3	64.8	53.0	42.0
67.5°	192.1	176.7	161.2	145.0	131.0	116.3	101.6	87.6	73.6	60.4	47.8
65°	220.1	201.7	182.6	165.6	147.2	131.0	114.8	98.6	83.2	67.0	53.0
62.5°	248.8	227.5	206.1	184.8	165.6	145.0	127.3	109.7	92.0	74.3	58.2
60°	278.2	254.0	229.7	206.1	182.6	161.2	139.9	120.0	101.6	81.7	63.3
57.5°	308.4	281.2	254.0	227.5	201.7	176.7	153.1	131.0	109.7	89.1	68.5
55°	339.3	308.4	278.2	248.8	220.1	192.1	166.4	142.1	118.5	95.7	74.3
52.5°	370.3	336.4	302.5	270.9	240.7	209.1	179.6	152.4	126.6	103.1	79.5
50°	401.9	363.6	327.6	292.2	257.6	224.5	192.9	163.4	135.4	109.7	84.7
47.5°	434.3	392.3	351.9	313.6	276.8	240.7	206.1	173.7	143.5	116.3	89.8
45°	468.9	420.3	376.9	335.7	295.2	256.9	219.4	184.0	152.4	122.9	95.0
42.5°	502.8	450.5	401.9	358.5	313.6	272.4	232.6	195.1	160.5	128.8	99.4
40°	541.0	480.7	425.5	377.6	331.2	287.1	245.1	205.4	168.6	134.7	103.8
37.5°	577.8	510.1	452.0	398.2	348.2	301.8	257.6	215.7	176.7	140.6	108.2
35°	615.4	542.5	476.3	417.4	365.1	316.5	269.4	225.2	183.3	145.7	112.6
32.5°	653.7	573.4	502.0	438.0	382.0	329.8	280.5	234.1	190.6	151.6	116.3
30°	690.5	602.9	526.3	457.9	397.5	343.0	291.5	242.9	198.0	156.8	120.0
27.5°	728.0	633.8	550.6	476.3	412.2	354.8	301.1	251.0	204.6	161.9	123.7
25°	764.1	663.2	573.4	493.9	425.5	366.6	311.4	259.1	210.5	166.4	126.6
22.5°	797.2	689.0	594.0	510.8	439.4	376.9	320.2	266.5	216.4	170.8	129.6
20°	827.4	715.5	615.4	527.8	452.7	387.2	327.6	273.1	221.6	174.5	132.5
17.5°	856.8	739.8	634.5	543.2	463.7	396.0	334.9	278.2	226.0	177.4	134.7
15°	881.8	761.1	651.4	556.5	474.0	403.4	340.8	283.4	229.7	180.3	136.2
12.5°	903.9	779.5	666.2	567.5	482.1	410.0	346.7	287.8	233.3	182.6	138.4
10°	921.6	794.2	677.9	577.1	489.5	415.2	350.4	291.5	235.6	184.8	139.9
7.5°	935.6	806.0	687.5	583.7	494.7	419.6	354.1	293.7	237.8	186.2	142.1
5°	945.9	814.9	694.1	588.9	499.1	424.7	358.5	297.4	240.7	188.4	142.1
2.5°	954.0	821.5	699.3	593.3	502.0	424.7	358.5	297.4	240.7	188.4	142.1
0°	954.0	821.5	699.3	593.3	502.0	424.7	358.5	297.4	240.7	188.4	142.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.7	2.9	1.5	0.0
85°	8.1	5.2	2.9	0.0
82.5°	11.8	8.1	3.7	0.0
80°	15.5	10.3	5.2	0.0
77.5°	19.9	13.2	6.6	0.0
75°	23.6	15.5	8.1	0.0
72.5°	27.2	18.4	8.8	0.0
70°	30.9	20.6	10.3	0.0
67.5°	35.3	22.8	11.8	0.0
65°	39.0	25.8	12.5	0.0
62.5°	42.7	28.0	14.0	0.0
60°	46.4	30.2	14.7	0.0
57.5°	50.1	32.4	16.2	0.0
55°	53.7	35.3	17.7	0.0
52.5°	57.4	37.5	18.4	0.0
50°	61.1	39.7	19.1	0.0
47.5°	64.0	42.0	20.6	0.0
45°	67.7	44.2	21.3	0.0
42.5°	71.4	45.6	22.1	0.0
40°	74.3	47.8	22.8	0.0
37.5°	78.0	49.3	24.3	0.0
35°	81.0	51.5	25.0	0.0
32.5°	83.2	53.0	25.8	0.0
30°	86.1	54.5	26.5	0.0
27.5°	88.3	55.9	26.5	0.0
25°	90.5	57.4	27.2	0.0
22.5°	92.7	58.2	28.0	0.0
20°	95.0	59.6	28.7	0.0
17.5°	96.4	60.4	28.7	0.0
15°	97.9	61.1	30.2	0.0
12.5°	98.6	61.8	30.2	0.0
10°	100.1	63.3	30.2	0.0
7.5°	101.6	63.3	30.2	0.0
5°	101.6	63.3	30.2	0.0
2.5°	101.6	63.3	30.2	0.0
0°	101.6	63.3	30.2	0.0

(END OF REPORT)