

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: P624560

Luminaire Tested: **IFLD-S-SA3C-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624560
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

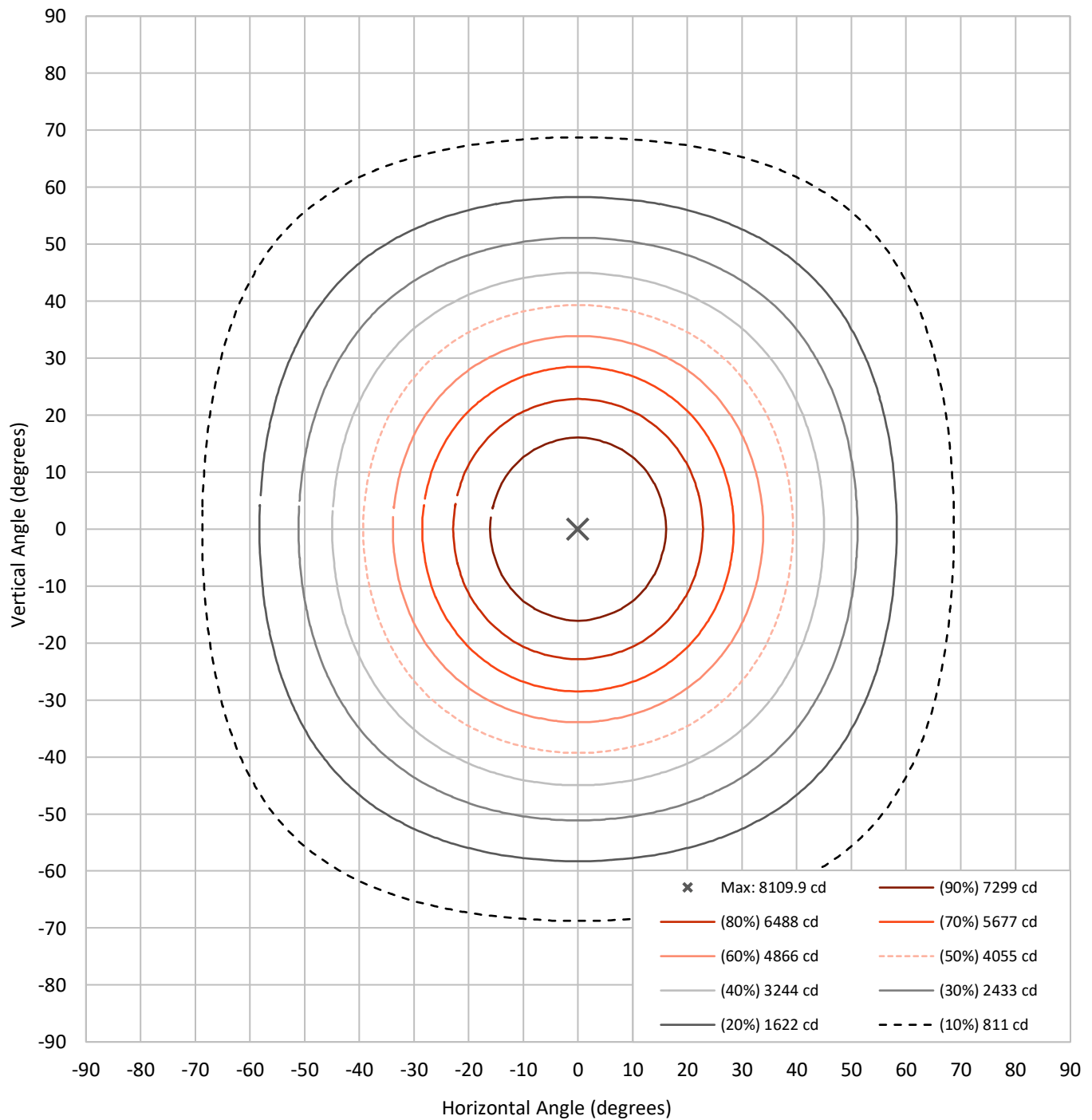
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14602 lumens	Max Intensity:	8109.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	90.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6318.1 lumens	Field Lumens:	10345.7 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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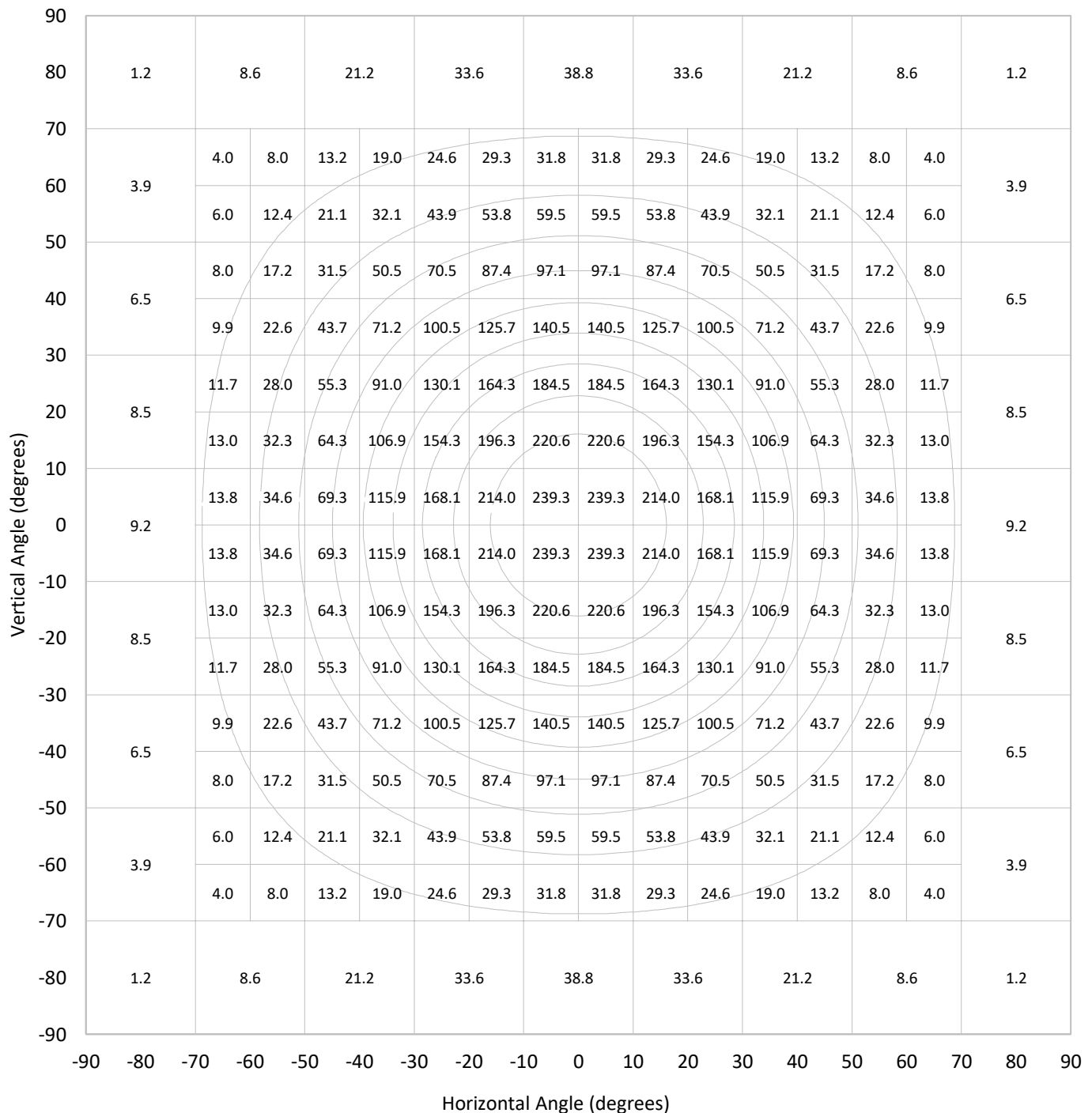
CATALOG NUMBER: IFLD-S-SA3C-935-U-77

Iso-Candela Plot



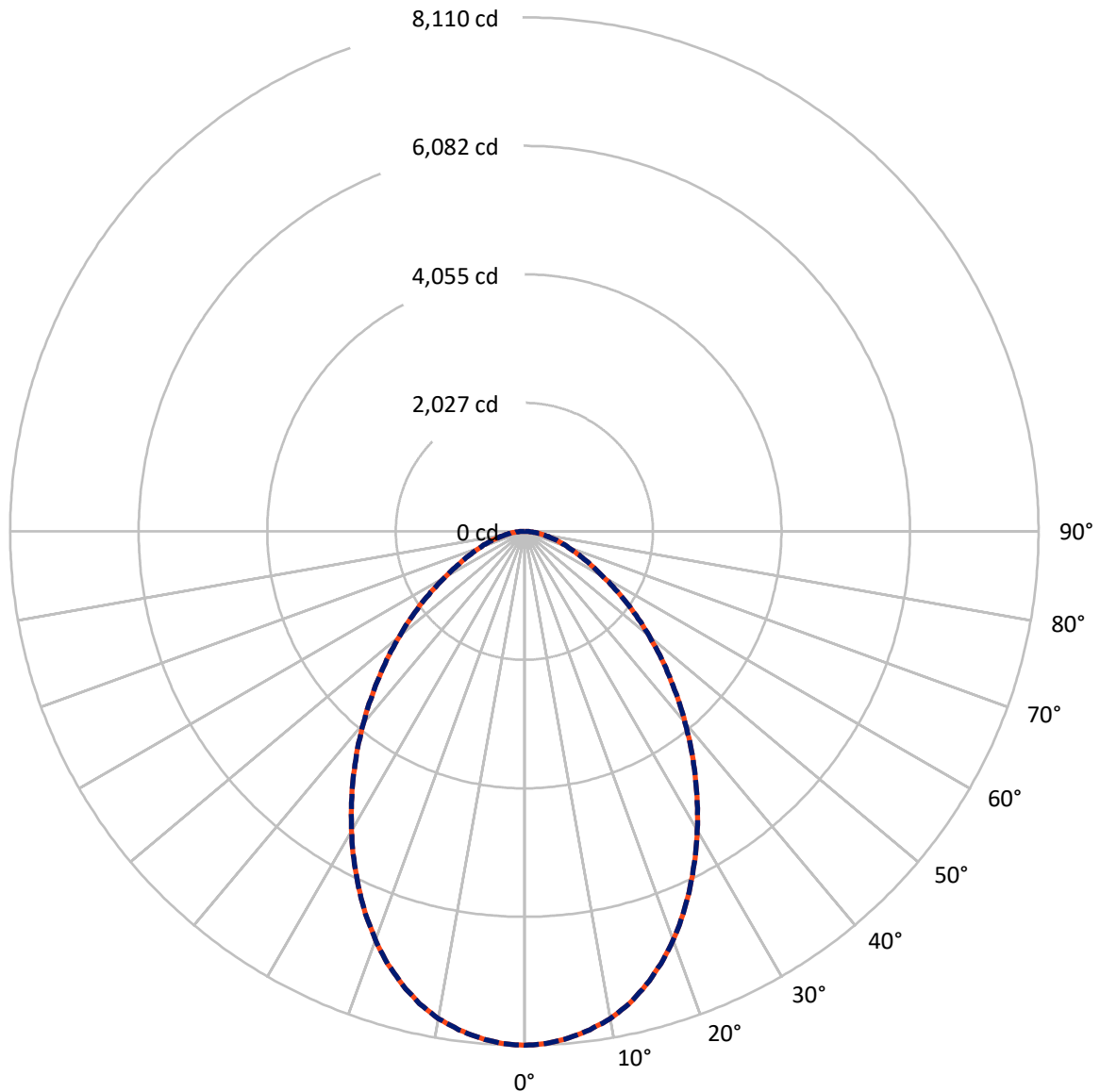
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Lumen Table



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Luminous Intensity Polar Plot

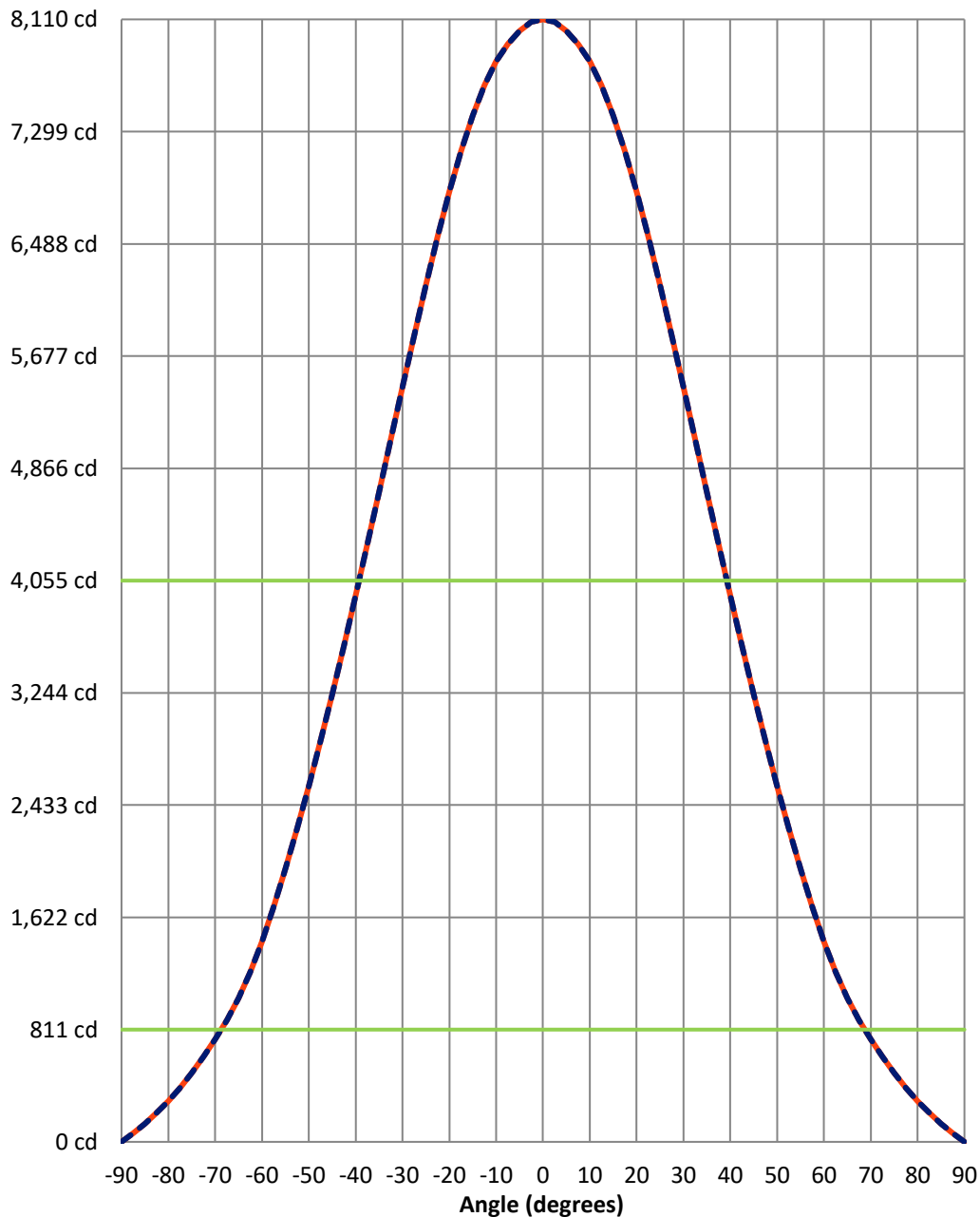


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6318.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 10345.7
Efficiency: 70.9%

Spill:

Lumens: 4256.2
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°	62.4	62.4	62.4	62.4	62.4	62.4	62.4	59.4	59.4	57.9	56.3
85°	130.9	130.9	130.9	130.9	130.9	127.9	126.4	124.8	123.3	120.3	118.7
82.5°	210.1	210.1	210.1	210.1	207.0	204.0	202.5	199.4	196.4	191.8	187.3
80°	293.8	293.8	293.8	293.8	289.3	286.2	281.6	278.6	274.0	267.9	261.9
77.5°	389.7	389.7	389.7	385.2	382.1	377.6	373.0	366.9	360.8	353.2	344.1
75°	497.8	497.8	497.8	491.7	487.2	482.6	475.0	467.4	458.2	447.6	435.4
72.5°	615.1	615.1	615.1	607.4	602.9	595.3	586.1	575.5	564.8	551.1	535.9
70°	741.4	741.4	741.4	732.3	724.7	717.1	704.9	692.7	677.5	662.2	644.0
67.5°	878.4	878.4	878.4	867.8	858.6	848.0	834.3	819.1	800.8	779.5	758.2
65°	1038.3	1038.3	1032.2	1023.1	1012.4	997.2	980.4	959.1	936.3	908.9	880.0
62.5°	1227.1	1227.1	1217.9	1207.3	1193.6	1173.8	1150.9	1123.5	1091.6	1056.5	1021.5
60°	1446.3	1446.3	1435.6	1421.9	1402.1	1377.8	1347.3	1312.3	1272.7	1228.6	1186.0
57.5°	1699.0	1699.0	1685.3	1667.0	1642.7	1612.2	1574.2	1530.0	1479.8	1425.0	1371.7
55°	1973.0	1973.0	1956.3	1935.0	1906.1	1869.5	1823.8	1772.1	1711.2	1648.8	1580.3
52.5°	2263.8	2263.8	2244.0	2219.7	2186.2	2143.5	2091.8	2030.9	1960.9	1887.8	1807.1
50°	2569.8	2569.8	2547.0	2519.6	2481.5	2431.3	2371.9	2301.9	2224.2	2139.0	2046.1
47.5°	2897.1	2897.1	2871.3	2839.3	2793.6	2735.8	2665.7	2585.0	2496.7	2400.8	2295.8
45°	3233.6	3233.6	3204.7	3168.1	3117.9	3052.4	2974.8	2897.1	2784.5	2673.3	2551.6
42.5°	3583.7	3583.7	3550.2	3509.1	3451.3	3379.7	3291.4	3191.0	3079.8	2955.0	2822.5
40°	3947.6	3947.6	3909.5	3862.3	3798.4	3716.2	3617.2	3504.6	3379.7	3241.2	3095.0
37.5°	4319.1	4319.1	4276.4	4224.7	4153.1	4061.8	3950.6	3825.8	3685.7	3532.0	3370.6
35°	4693.6	4693.6	4646.4	4590.1	4510.9	4410.4	4290.1	4151.6	3996.3	3828.8	3647.7
32.5°	5075.7	5075.7	5023.9	4960.0	4870.2	4759.0	4626.6	4475.9	4319.1	4124.2	3926.3
30°	5453.3	5453.3	5396.9	5326.9	5231.0	5109.2	4964.6	4798.6	4614.4	4415.0	4201.8
27.5°	5824.7	5809.5	5762.3	5687.7	5582.7	5453.3	5296.4	5116.8	4917.4	4698.1	4469.8
25°	6190.1	6173.4	6121.6	6039.4	5926.7	5785.1	5616.2	5424.3	5209.7	4978.3	4728.6
22.5°	6540.3	6522.0	6467.2	6378.9	6258.6	6104.8	5923.7	5718.2	5489.8	5241.6	4978.3
20°	6864.5	6844.7	6788.4	6695.5	6570.7	6407.8	6216.0	5995.2	5751.6	5489.8	5209.7
17.5°	7156.8	7137.0	7077.7	6981.8	6864.5	6683.4	6485.4	6252.5	5995.2	5718.2	5424.3
15°	7414.1	7392.8	7331.9	7236.0	7102.0	6931.5	6722.9	6485.4	6216.0	5923.7	5616.2
12.5°	7633.3	7612.0	7549.6	7453.7	7315.2	7144.6	6931.5	6683.4	6407.8	6104.8	5785.1
10°	7806.9	7785.6	7726.2	7634.9	7491.8	7315.2	7102.0	6864.5	6570.7	6258.6	5926.7
7.5°	7931.7	7911.9	7857.1	7765.8	7634.9	7453.7	7236.0	6981.8	6695.5	6378.9	6039.4
5°	8026.1	8003.3	7948.5	7857.1	7726.2	7549.6	7331.9	7077.7	6788.4	6467.2	6121.6
2.5°	8091.6	8064.2	8003.3	7911.9	7785.6	7612.0	7392.8	7137.0	6844.7	6522.0	6173.4
0°	8109.9	8091.6	8026.1	7931.7	7806.9	7633.3	7414.1	7156.8	6864.5	6540.3	6190.1

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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°	54.8	54.8	53.3	51.8	50.2	47.2	45.7	44.1	42.6	39.6	38.1
85°	115.7	112.7	109.6	106.6	102.0	99.0	94.4	91.3	86.8	82.2	77.6
82.5°	182.7	178.1	172.0	167.5	161.4	153.8	147.7	140.1	132.4	126.4	118.7
80°	255.8	248.2	240.5	232.9	223.8	214.7	205.5	196.4	185.7	175.1	164.4
77.5°	334.9	324.3	313.6	301.4	290.8	278.6	266.4	254.2	240.5	226.8	213.1
75°	423.2	409.5	394.3	379.1	365.4	348.6	331.9	315.1	296.9	280.1	261.9
72.5°	519.1	502.4	484.1	465.9	446.1	424.8	403.4	380.6	359.3	338.0	315.1
70°	622.7	602.9	580.0	557.2	532.8	507.0	481.1	453.7	426.3	398.9	371.5
67.5°	733.8	709.4	682.0	654.6	624.2	593.7	563.3	531.3	497.8	464.3	432.4
65°	852.5	822.1	790.1	755.1	720.1	685.1	648.5	610.5	572.4	532.8	497.8
62.5°	985.0	946.9	905.8	863.2	823.6	781.0	741.4	694.2	648.5	604.4	560.2
60°	1138.8	1088.5	1038.3	985.0	934.8	880.0	831.2	779.5	727.7	677.5	625.7
57.5°	1310.8	1246.8	1186.0	1122.0	1055.0	994.1	931.7	869.3	811.4	752.1	695.7
55°	1505.7	1428.0	1351.9	1272.7	1195.1	1119.0	1039.8	969.8	898.2	831.2	765.8
52.5°	1718.8	1630.5	1536.1	1446.3	1347.3	1252.9	1164.6	1076.3	992.6	911.9	837.3
50°	1947.2	1843.6	1735.5	1625.9	1513.3	1402.1	1295.6	1192.0	1094.6	1000.2	911.9
47.5°	2184.7	2067.4	1944.1	1819.3	1699.0	1563.5	1435.6	1318.4	1201.2	1094.6	992.6
45°	2428.2	2295.8	2160.3	2018.7	1877.1	1731.0	1589.4	1446.3	1318.4	1192.0	1076.3
42.5°	2679.4	2530.2	2379.5	2222.7	2065.9	1906.1	1746.2	1589.4	1435.6	1295.6	1164.6
40°	2938.2	2773.8	2601.8	2431.3	2263.8	2081.1	1906.1	1731.0	1563.5	1402.1	1252.9
37.5°	3197.1	3017.4	2831.7	2639.9	2448.0	2263.8	2065.9	1877.1	1699.0	1513.3	1347.3
35°	3457.4	3259.5	3058.5	2849.9	2639.9	2431.3	2222.7	2018.7	1819.3	1625.9	1446.3
32.5°	3719.2	3503.1	3280.8	3058.5	2831.7	2601.8	2379.5	2160.3	1944.1	1735.5	1536.1
30°	3976.5	3742.1	3503.1	3259.5	3017.4	2773.8	2530.2	2295.8	2067.4	1843.6	1630.5
27.5°	4227.7	3976.5	3719.2	3457.4	3197.1	2938.2	2679.4	2428.2	2184.7	1947.2	1718.8
25°	4469.8	4201.8	3926.3	3647.7	3370.6	3095.0	2822.5	2551.6	2295.8	2046.1	1807.1
22.5°	4698.1	4415.0	4124.2	3828.8	3532.0	3241.2	2955.0	2673.3	2400.8	2139.0	1887.8
20°	4917.4	4614.4	4319.1	3996.3	3685.7	3379.7	3079.8	2784.5	2496.7	2224.2	1960.9
17.5°	5116.8	4798.6	4475.9	4151.6	3825.8	3504.6	3191.0	2897.1	2585.0	2301.9	2030.9
15°	5296.4	4964.6	4626.6	4290.1	3950.6	3617.2	3291.4	2974.8	2665.7	2371.9	2091.8
12.5°	5453.3	5109.2	4759.0	4410.4	4061.8	3716.2	3379.7	3052.4	2735.8	2431.3	2143.5
10°	5582.7	5231.0	4870.2	4510.9	4153.1	3798.4	3451.3	3117.9	2793.6	2481.5	2186.2
7.5°	5687.7	5326.9	4960.0	4590.1	4224.7	3862.3	3509.1	3168.1	2839.3	2519.6	2219.7
5°	5762.3	5396.9	5023.9	4646.4	4276.4	3909.5	3550.2	3204.7	2871.3	2547.0	2244.0
2.5°	5809.5	5453.3	5075.7	4693.6	4319.1	3947.6	3583.7	3233.6	2897.1	2569.8	2263.8
0°	5824.7	5453.3	5075.7	4693.6	4319.1	3947.6	3583.7	3233.6	2897.1	2569.8	2263.8

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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°	36.5	33.5	30.4	28.9	25.9	24.4	21.3	18.3	16.7	13.7	10.7
85°	73.1	67.0	62.4	57.9	53.3	47.2	42.6	38.1	32.0	27.4	21.3
82.5°	111.1	103.5	95.9	88.3	80.7	73.1	63.9	56.3	48.7	41.1	32.0
80°	153.8	141.6	130.9	120.3	109.6	99.0	86.8	76.1	63.9	53.3	42.6
77.5°	197.9	184.2	169.0	153.8	138.5	124.8	109.6	95.9	82.2	67.0	53.3
75°	245.1	226.8	210.1	190.3	172.0	152.2	134.0	115.7	99.0	82.2	63.9
72.5°	293.8	271.0	248.2	226.8	204.0	181.2	159.9	137.0	115.7	95.9	76.1
70°	344.1	316.7	289.3	263.4	237.5	210.1	185.7	159.9	134.0	109.6	86.8
67.5°	397.3	365.4	333.4	299.9	271.0	240.5	210.1	181.2	152.2	124.8	99.0
65°	455.2	417.1	377.6	342.5	304.5	271.0	237.5	204.0	172.0	138.5	109.6
62.5°	514.6	470.4	426.3	382.1	342.5	299.9	263.4	226.8	190.3	153.8	120.3
60°	575.5	525.2	475.0	426.3	377.6	333.4	289.3	248.2	210.1	169.0	130.9
57.5°	637.9	581.6	525.2	470.4	417.1	365.4	316.7	271.0	226.8	184.2	141.6
55°	701.8	637.9	575.5	514.6	455.2	397.3	344.1	293.8	245.1	197.9	153.8
52.5°	765.8	695.7	625.7	560.2	497.8	432.4	371.5	315.1	261.9	213.1	164.4
50°	831.2	752.1	677.5	604.4	532.8	464.3	398.9	338.0	280.1	226.8	175.1
47.5°	898.2	811.4	727.7	648.5	572.4	497.8	426.3	359.3	296.9	240.5	185.7
45°	969.8	869.3	779.5	694.2	610.5	531.3	453.7	380.6	315.1	254.2	196.4
42.5°	1039.8	931.7	831.2	741.4	648.5	563.3	481.1	403.4	331.9	266.4	205.5
40°	1119.0	994.1	880.0	781.0	685.1	593.7	507.0	424.8	348.6	278.6	214.7
37.5°	1195.1	1055.0	934.8	823.6	720.1	624.2	532.8	446.1	365.4	290.8	223.8
35°	1272.7	1122.0	985.0	863.2	755.1	654.6	557.2	465.9	379.1	301.4	232.9
32.5°	1351.9	1186.0	1038.3	905.8	790.1	682.0	580.0	484.1	394.3	313.6	240.5
30°	1428.0	1246.8	1088.5	946.9	822.1	709.4	602.9	502.4	409.5	324.3	248.2
27.5°	1505.7	1310.8	1138.8	985.0	852.5	733.8	622.7	519.1	423.2	334.9	255.8
25°	1580.3	1371.7	1186.0	1021.5	880.0	758.2	644.0	535.9	435.4	344.1	261.9
22.5°	1648.8	1425.0	1228.6	1056.5	908.9	779.5	662.2	551.1	447.6	353.2	267.9
20°	1711.2	1479.8	1272.7	1091.6	936.3	800.8	677.5	564.8	458.2	360.8	274.0
17.5°	1772.1	1530.0	1312.3	1123.5	959.1	819.1	692.7	575.5	467.4	366.9	278.6
15°	1823.8	1574.2	1347.3	1150.9	980.4	834.3	704.9	586.1	475.0	373.0	281.6
12.5°	1869.5	1612.2	1377.8	1173.8	997.2	848.0	717.1	595.3	482.6	377.6	286.2
10°	1906.1	1642.7	1402.1	1193.6	1012.4	858.6	724.7	602.9	487.2	382.1	289.3
7.5°	1935.0	1667.0	1421.9	1207.3	1023.1	867.8	732.3	607.4	491.7	385.2	293.8
5°	1956.3	1685.3	1435.6	1217.9	1032.2	878.4	741.4	615.1	497.8	389.7	293.8
2.5°	1973.0	1699.0	1446.3	1227.1	1038.3	878.4	741.4	615.1	497.8	389.7	293.8
0°	1973.0	1699.0	1446.3	1227.1	1038.3	878.4	741.4	615.1	497.8	389.7	293.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.6	6.1	3.0	0.0
85°	16.7	10.7	6.1	0.0
82.5°	24.4	16.7	7.6	0.0
80°	32.0	21.3	10.7	0.0
77.5°	41.1	27.4	13.7	0.0
75°	48.7	32.0	16.7	0.0
72.5°	56.3	38.1	18.3	0.0
70°	63.9	42.6	21.3	0.0
67.5°	73.1	47.2	24.4	0.0
65°	80.7	53.3	25.9	0.0
62.5°	88.3	57.9	28.9	0.0
60°	95.9	62.4	30.4	0.0
57.5°	103.5	67.0	33.5	0.0
55°	111.1	73.1	36.5	0.0
52.5°	118.7	77.6	38.1	0.0
50°	126.4	82.2	39.6	0.0
47.5°	132.4	86.8	42.6	0.0
45°	140.1	91.3	44.1	0.0
42.5°	147.7	94.4	45.7	0.0
40°	153.8	99.0	47.2	0.0
37.5°	161.4	102.0	50.2	0.0
35°	167.5	106.6	51.8	0.0
32.5°	172.0	109.6	53.3	0.0
30°	178.1	112.7	54.8	0.0
27.5°	182.7	115.7	54.8	0.0
25°	187.3	118.7	56.3	0.0
22.5°	191.8	120.3	57.9	0.0
20°	196.4	123.3	59.4	0.0
17.5°	199.4	124.8	59.4	0.0
15°	202.5	126.4	62.4	0.0
12.5°	204.0	127.9	62.4	0.0
10°	207.0	130.9	62.4	0.0
7.5°	210.1	130.9	62.4	0.0
5°	210.1	130.9	62.4	0.0
2.5°	210.1	130.9	62.4	0.0
0°	210.1	130.9	62.4	0.0

(END OF REPORT)