

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: P623932

Luminaire Tested: **IFLD-S-SA3A-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623932
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

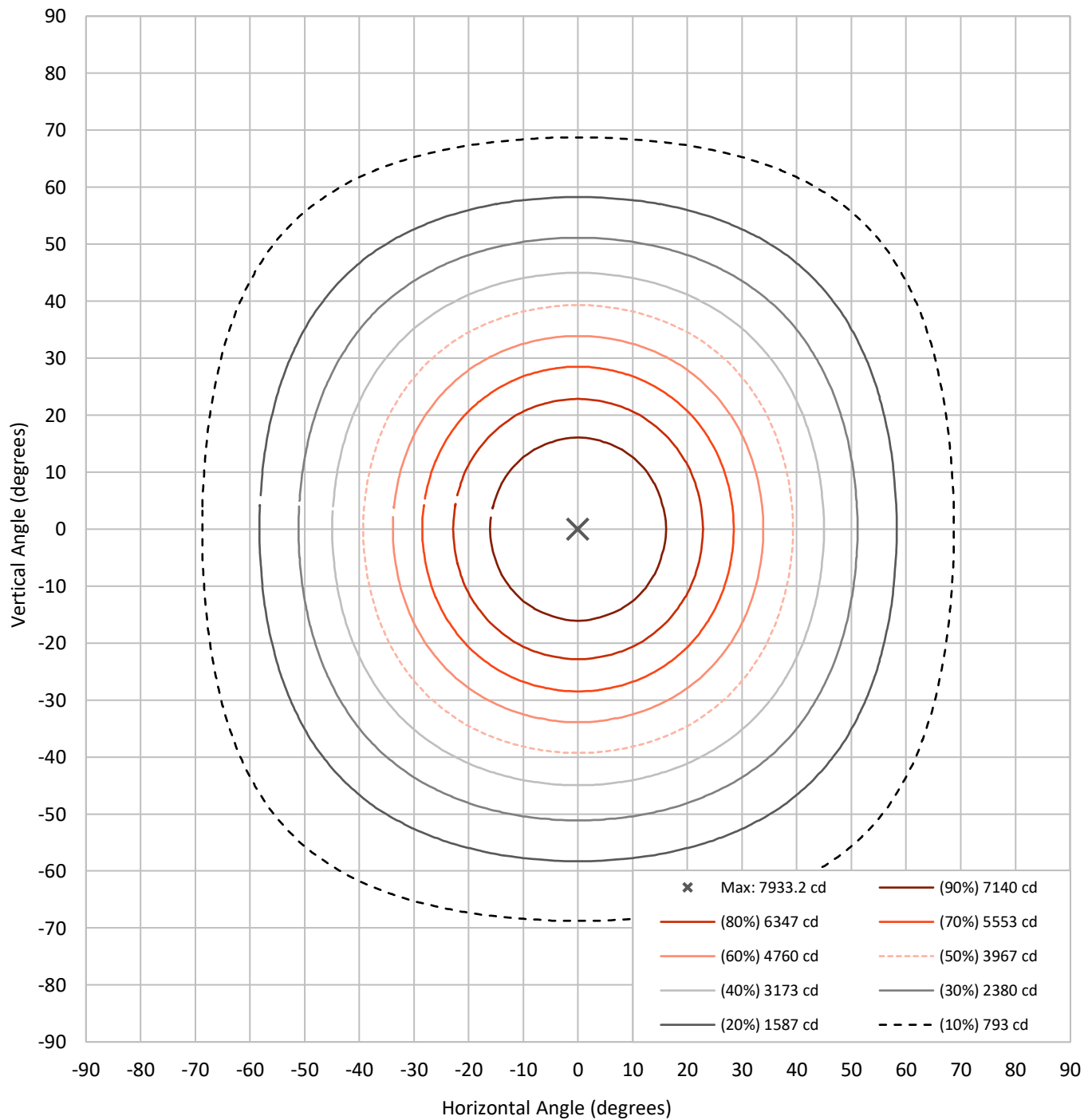
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14284 lumens	Max Intensity:	7933.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	150.7 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:	6180.5 lumens	Field Lumens:	10120.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	94.8		
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		



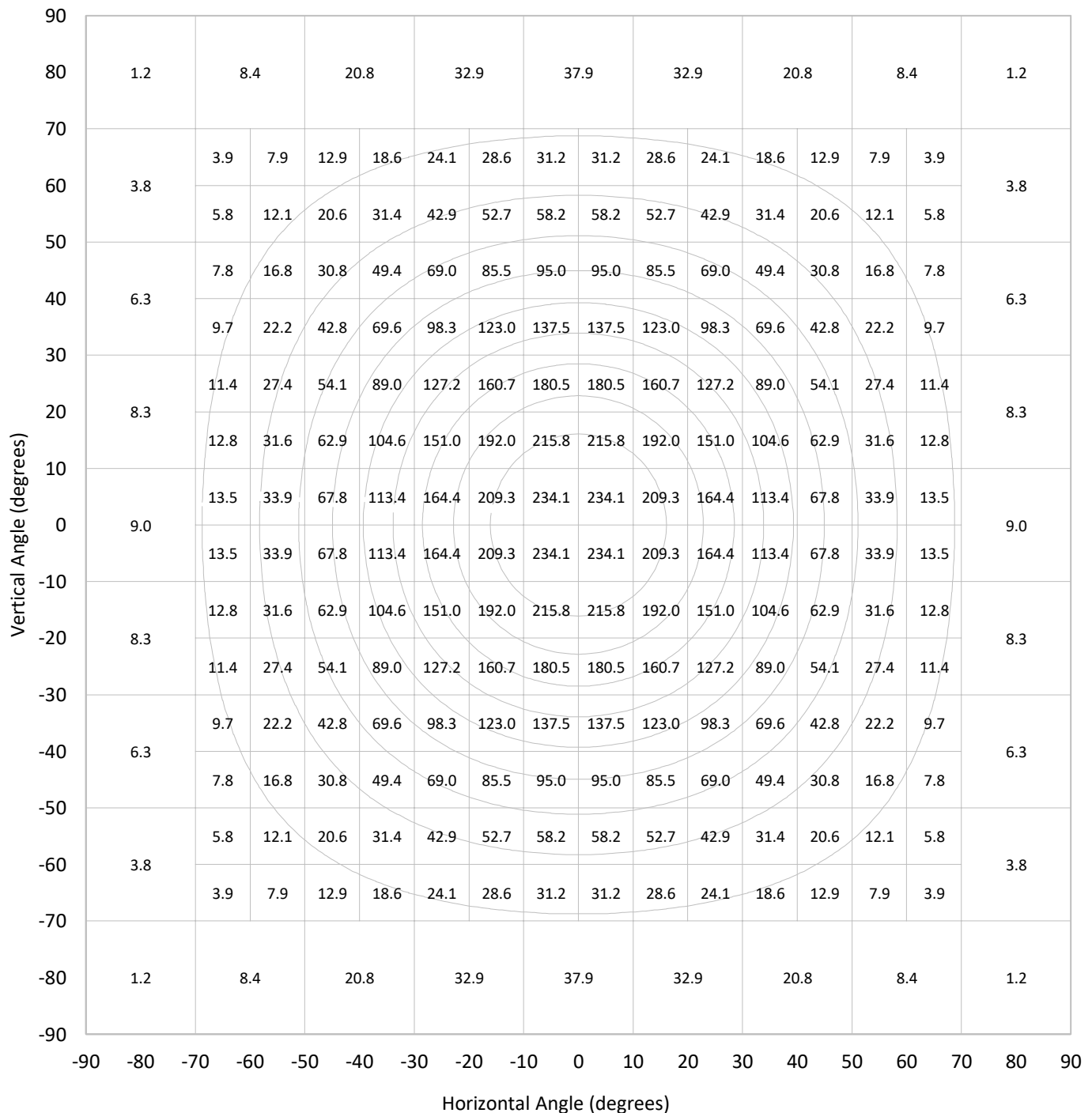
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Iso-Candela Plot



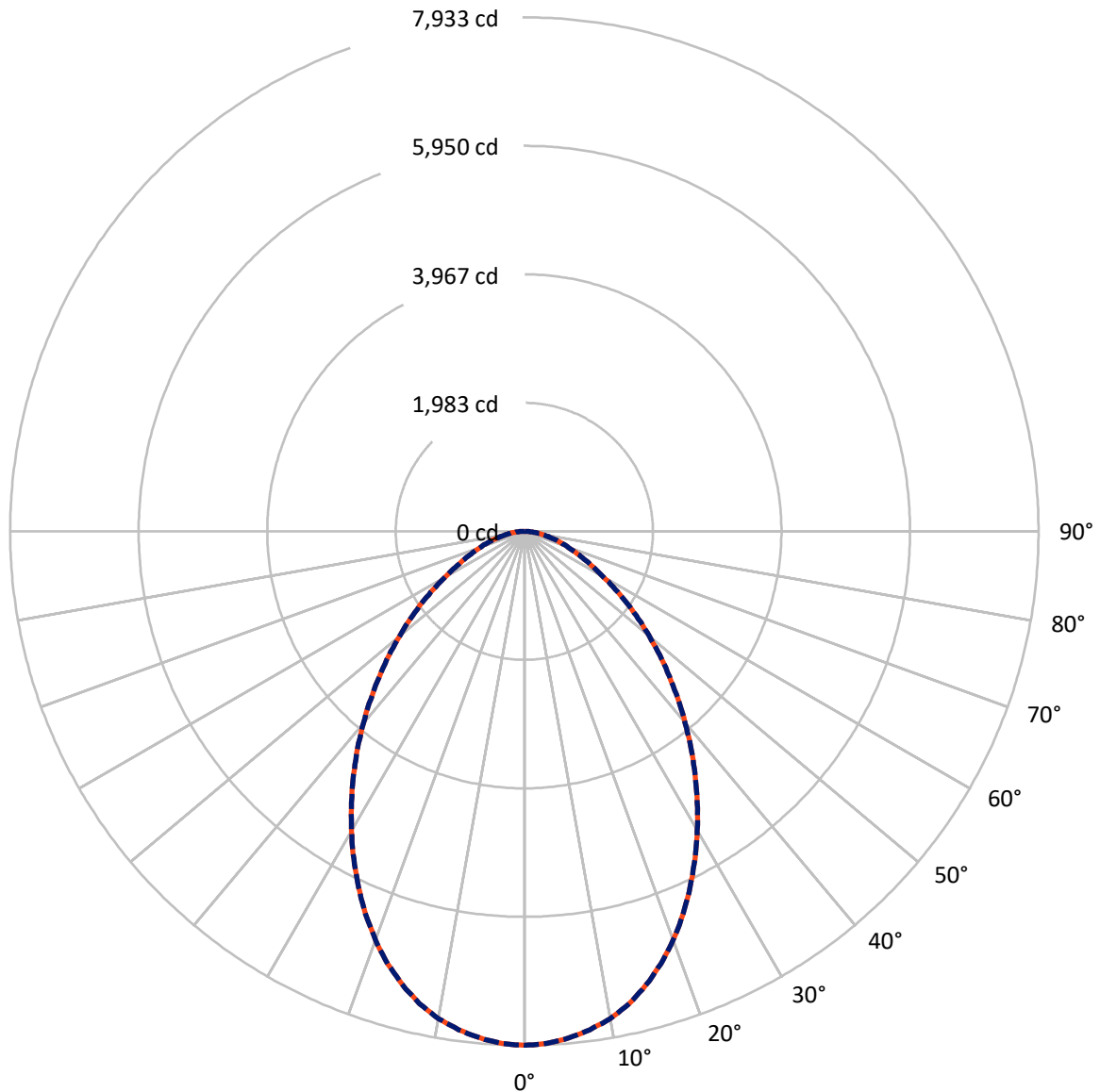
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Lumen Table



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Luminous Intensity Polar Plot

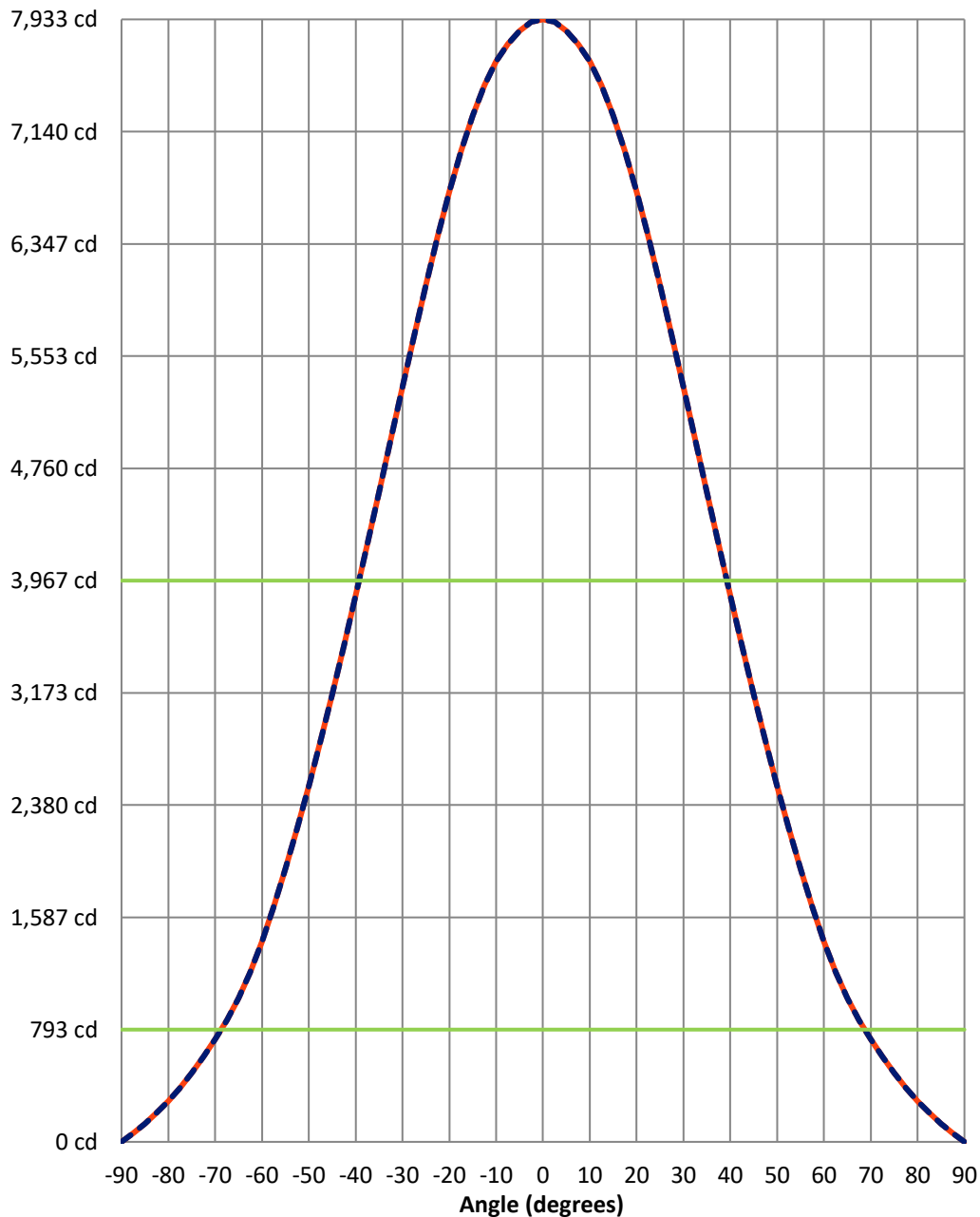


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6180.5
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 10120.4
Efficiency: 70.9%

Spill:

Lumens: 4163.6
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°	61.1	61.1	61.1	61.1	61.1	61.1	61.1	58.1	58.1	56.6	55.1
85°	128.1	128.1	128.1	128.1	128.1	125.1	123.6	122.1	120.6	117.7	116.2
82.5°	205.5	205.5	205.5	205.5	202.5	199.6	198.1	195.1	192.1	187.6	183.2
80°	287.4	287.4	287.4	287.4	283.0	280.0	275.5	272.5	268.1	262.1	256.2
77.5°	381.2	381.2	381.2	376.8	373.8	369.3	364.9	358.9	353.0	345.5	336.6
75°	487.0	487.0	487.0	481.0	476.6	472.1	464.6	457.2	448.3	437.8	425.9
72.5°	601.7	601.7	601.7	594.2	589.7	582.3	573.4	562.9	552.5	539.1	524.2
70°	725.3	725.3	725.3	716.3	708.9	701.4	689.5	677.6	662.7	647.8	630.0
67.5°	859.3	859.3	859.3	848.9	839.9	829.5	816.1	801.2	783.3	762.5	741.6
65°	1015.7	1015.7	1009.7	1000.8	990.4	975.5	959.1	938.2	915.9	889.1	860.8
62.5°	1200.3	1200.3	1191.4	1181.0	1167.6	1148.2	1125.9	1099.1	1067.8	1033.5	999.3
60°	1414.8	1414.8	1404.4	1391.0	1371.6	1347.8	1318.0	1283.7	1245.0	1201.8	1160.1
57.5°	1662.0	1662.0	1648.6	1630.7	1606.9	1577.1	1539.9	1496.7	1447.6	1393.9	1341.8
55°	1930.1	1930.1	1913.7	1892.8	1864.5	1828.8	1784.1	1733.5	1673.9	1612.9	1545.8
52.5°	2214.5	2214.5	2195.2	2171.3	2138.6	2096.9	2046.2	1986.7	1918.2	1846.7	1767.7
50°	2513.9	2513.9	2491.5	2464.7	2427.5	2378.3	2320.3	2251.7	2175.8	2092.4	2001.6
47.5°	2834.0	2834.0	2808.7	2777.5	2732.8	2676.2	2607.7	2528.7	2442.4	2348.5	2245.8
45°	3163.2	3163.2	3134.9	3099.1	3050.0	2985.9	2910.0	2834.0	2723.8	2615.1	2496.0
42.5°	3505.7	3505.7	3472.9	3432.7	3376.1	3306.1	3219.8	3121.5	3012.8	2890.6	2761.1
40°	3861.6	3861.6	3824.4	3778.2	3715.7	3635.3	3538.5	3428.3	3306.1	3170.6	3027.6
37.5°	4225.0	4225.0	4183.3	4132.7	4062.7	3973.3	3864.6	3742.5	3605.5	3455.1	3297.2
35°	4591.4	4591.4	4545.2	4490.1	4412.6	4314.4	4196.7	4061.2	3909.3	3745.5	3568.2
32.5°	4965.2	4965.2	4914.5	4852.0	4764.1	4655.4	4525.8	4378.4	4225.0	4034.4	3840.8
30°	5334.5	5334.5	5279.4	5210.9	5117.1	4997.9	4856.4	4694.1	4513.9	4318.8	4110.3
27.5°	5697.9	5683.0	5636.8	5563.8	5461.1	5334.5	5181.1	5005.4	4810.3	4595.8	4372.4
25°	6055.3	6038.9	5988.3	5907.9	5797.6	5659.1	5493.8	5306.2	5096.2	4869.8	4625.6
22.5°	6397.8	6379.9	6326.3	6240.0	6122.3	5971.9	5794.7	5593.6	5370.2	5127.5	4869.8
20°	6715.0	6695.7	6640.6	6549.7	6427.6	6268.3	6080.6	5864.7	5626.4	5370.2	5096.2
17.5°	7001.0	6981.6	6923.5	6829.7	6715.0	6537.8	6344.2	6116.3	5864.7	5593.6	5306.2
15°	7252.6	7231.8	7172.2	7078.4	6947.4	6780.6	6576.5	6344.2	6080.6	5794.7	5493.8
12.5°	7467.1	7446.2	7385.2	7291.4	7155.8	6989.0	6780.6	6537.8	6268.3	5971.9	5659.1
10°	7636.9	7616.0	7557.9	7468.6	7328.6	7155.8	6947.4	6715.0	6427.6	6122.3	5797.6
7.5°	7759.0	7739.6	7686.0	7596.7	7468.6	7291.4	7078.4	6829.7	6549.7	6240.0	5907.9
5°	7851.3	7829.0	7775.4	7686.0	7557.9	7385.2	7172.2	6923.5	6640.6	6326.3	5988.3
2.5°	7915.4	7888.6	7829.0	7739.6	7616.0	7446.2	7231.8	6981.6	6695.7	6379.9	6038.9
0°	7933.2	7915.4	7851.3	7759.0	7636.9	7467.1	7252.6	7001.0	6715.0	6397.8	6055.3

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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°	53.6	53.6	52.1	50.6	49.1	46.2	44.7	43.2	41.7	38.7	37.2
85°	113.2	110.2	107.2	104.2	99.8	96.8	92.3	89.4	84.9	80.4	76.0
82.5°	178.7	174.2	168.3	163.8	157.9	150.4	144.5	137.0	129.6	123.6	116.2
80°	250.2	242.7	235.3	227.9	218.9	210.0	201.0	192.1	181.7	171.3	160.8
77.5°	327.6	317.2	306.8	294.9	284.4	272.5	260.6	248.7	235.3	221.9	208.5
75°	414.0	400.6	385.7	370.8	357.4	341.0	324.7	308.3	290.4	274.0	256.2
72.5°	507.8	491.5	473.6	455.7	436.4	415.5	394.7	372.3	351.5	330.6	308.3
70°	609.1	589.7	567.4	545.1	521.2	495.9	470.6	443.8	417.0	390.2	363.4
67.5°	717.8	694.0	667.2	640.4	610.6	580.8	551.0	519.7	487.0	454.2	422.9
65°	834.0	804.2	772.9	738.7	704.4	670.2	634.4	597.2	560.0	521.2	487.0
62.5°	963.5	926.3	886.1	844.4	805.7	764.0	725.3	679.1	634.4	591.2	548.0
60°	1114.0	1064.8	1015.7	963.5	914.4	860.8	813.1	762.5	711.9	662.7	612.1
57.5°	1282.2	1219.7	1160.1	1097.6	1032.1	972.5	911.4	850.4	793.8	735.7	680.6
55°	1472.9	1396.9	1322.5	1245.0	1169.1	1094.6	1017.2	948.7	878.7	813.1	749.1
52.5°	1681.4	1595.0	1502.7	1414.8	1318.0	1225.7	1139.3	1052.9	971.0	892.1	819.1
50°	1904.8	1803.5	1697.7	1590.5	1480.3	1371.6	1267.4	1166.1	1070.8	978.4	892.1
47.5°	2137.1	2022.4	1901.8	1779.7	1662.0	1529.5	1404.4	1289.7	1175.0	1070.8	971.0
45°	2375.4	2245.8	2113.2	1974.7	1836.2	1693.3	1554.8	1414.8	1289.7	1166.1	1052.9
42.5°	2621.1	2475.1	2327.7	2174.3	2020.9	1864.5	1708.2	1554.8	1404.4	1267.4	1139.3
40°	2874.3	2713.4	2545.1	2378.3	2214.5	2035.8	1864.5	1693.3	1529.5	1371.6	1225.7
37.5°	3127.4	2951.7	2770.0	2582.4	2394.7	2214.5	2020.9	1836.2	1662.0	1480.3	1318.0
35°	3382.1	3188.5	2991.9	2787.9	2582.4	2378.3	2174.3	1974.7	1779.7	1590.5	1414.8
32.5°	3638.2	3426.8	3209.3	2991.9	2770.0	2545.1	2327.7	2113.2	1901.8	1697.7	1502.7
30°	3889.9	3660.6	3426.8	3188.5	2951.7	2713.4	2475.1	2245.8	2022.4	1803.5	1595.0
27.5°	4135.6	3889.9	3638.2	3382.1	3127.4	2874.3	2621.1	2375.4	2137.1	1904.8	1681.4
25°	4372.4	4110.3	3840.8	3568.2	3297.2	3027.6	2761.1	2496.0	2245.8	2001.6	1767.7
22.5°	4595.8	4318.8	4034.4	3745.5	3455.1	3170.6	2890.6	2615.1	2348.5	2092.4	1846.7
20°	4810.3	4513.9	4225.0	3909.3	3605.5	3306.1	3012.8	2723.8	2442.4	2175.8	1918.2
17.5°	5005.4	4694.1	4378.4	4061.2	3742.5	3428.3	3121.5	2834.0	2528.7	2251.7	1986.7
15°	5181.1	4856.4	4525.8	4196.7	3864.6	3538.5	3219.8	2910.0	2607.7	2320.3	2046.2
12.5°	5334.5	4997.9	4655.4	4314.4	3973.3	3635.3	3306.1	2985.9	2676.2	2378.3	2096.9
10°	5461.1	5117.1	4764.1	4412.6	4062.7	3715.7	3376.1	3050.0	2732.8	2427.5	2138.6
7.5°	5563.8	5210.9	4852.0	4490.1	4132.7	3778.2	3432.7	3099.1	2777.5	2464.7	2171.3
5°	5636.8	5279.4	4914.5	4545.2	4183.3	3824.4	3472.9	3134.9	2808.7	2491.5	2195.2
2.5°	5683.0	5334.5	4965.2	4591.4	4225.0	3861.6	3505.7	3163.2	2834.0	2513.9	2214.5
0°	5697.9	5334.5	4965.2	4591.4	4225.0	3861.6	3505.7	3163.2	2834.0	2513.9	2214.5

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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°	35.7	32.8	29.8	28.3	25.3	23.8	20.8	17.9	16.4	13.4	10.4
85°	71.5	65.5	61.1	56.6	52.1	46.2	41.7	37.2	31.3	26.8	20.8
82.5°	108.7	101.3	93.8	86.4	78.9	71.5	62.5	55.1	47.7	40.2	31.3
80°	150.4	138.5	128.1	117.7	107.2	96.8	84.9	74.5	62.5	52.1	41.7
77.5°	193.6	180.2	165.3	150.4	135.5	122.1	107.2	93.8	80.4	65.5	52.1
75°	239.8	221.9	205.5	186.2	168.3	148.9	131.1	113.2	96.8	80.4	62.5
72.5°	287.4	265.1	242.7	221.9	199.6	177.2	156.4	134.0	113.2	93.8	74.5
70°	336.6	309.8	283.0	257.6	232.3	205.5	181.7	156.4	131.1	107.2	84.9
67.5°	388.7	357.4	326.1	293.4	265.1	235.3	205.5	177.2	148.9	122.1	96.8
65°	445.3	408.1	369.3	335.1	297.8	265.1	232.3	199.6	168.3	135.5	107.2
62.5°	503.4	460.2	417.0	373.8	335.1	293.4	257.6	221.9	186.2	150.4	117.7
60°	562.9	513.8	464.6	417.0	369.3	326.1	283.0	242.7	205.5	165.3	128.1
57.5°	624.0	568.9	513.8	460.2	408.1	357.4	309.8	265.1	221.9	180.2	138.5
55°	686.5	624.0	562.9	503.4	445.3	388.7	336.6	287.4	239.8	193.6	150.4
52.5°	749.1	680.6	612.1	548.0	487.0	422.9	363.4	308.3	256.2	208.5	160.8
50°	813.1	735.7	662.7	591.2	521.2	454.2	390.2	330.6	274.0	221.9	171.3
47.5°	878.7	793.8	711.9	634.4	560.0	487.0	417.0	351.5	290.4	235.3	181.7
45°	948.7	850.4	762.5	679.1	597.2	519.7	443.8	372.3	308.3	248.7	192.1
42.5°	1017.2	911.4	813.1	725.3	634.4	551.0	470.6	394.7	324.7	260.6	201.0
40°	1094.6	972.5	860.8	764.0	670.2	580.8	495.9	415.5	341.0	272.5	210.0
37.5°	1169.1	1032.1	914.4	805.7	704.4	610.6	521.2	436.4	357.4	284.4	218.9
35°	1245.0	1097.6	963.5	844.4	738.7	640.4	545.1	455.7	370.8	294.9	227.9
32.5°	1322.5	1160.1	1015.7	886.1	772.9	667.2	567.4	473.6	385.7	306.8	235.3
30°	1396.9	1219.7	1064.8	926.3	804.2	694.0	589.7	491.5	400.6	317.2	242.7
27.5°	1472.9	1282.2	1114.0	963.5	834.0	717.8	609.1	507.8	414.0	327.6	250.2
25°	1545.8	1341.8	1160.1	999.3	860.8	741.6	630.0	524.2	425.9	336.6	256.2
22.5°	1612.9	1393.9	1201.8	1033.5	889.1	762.5	647.8	539.1	437.8	345.5	262.1
20°	1673.9	1447.6	1245.0	1067.8	915.9	783.3	662.7	552.5	448.3	353.0	268.1
17.5°	1733.5	1496.7	1283.7	1099.1	938.2	801.2	677.6	562.9	457.2	358.9	272.5
15°	1784.1	1539.9	1318.0	1125.9	959.1	816.1	689.5	573.4	464.6	364.9	275.5
12.5°	1828.8	1577.1	1347.8	1148.2	975.5	829.5	701.4	582.3	472.1	369.3	280.0
10°	1864.5	1606.9	1371.6	1167.6	990.4	839.9	708.9	589.7	476.6	373.8	283.0
7.5°	1892.8	1630.7	1391.0	1181.0	1000.8	848.9	716.3	594.2	481.0	376.8	287.4
5°	1913.7	1648.6	1404.4	1191.4	1009.7	859.3	725.3	601.7	487.0	381.2	287.4
2.5°	1930.1	1662.0	1414.8	1200.3	1015.7	859.3	725.3	601.7	487.0	381.2	287.4
0°	1930.1	1662.0	1414.8	1200.3	1015.7	859.3	725.3	601.7	487.0	381.2	287.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.4	6.0	3.0	0.0
85°	16.4	10.4	6.0	0.0
82.5°	23.8	16.4	7.4	0.0
80°	31.3	20.8	10.4	0.0
77.5°	40.2	26.8	13.4	0.0
75°	47.7	31.3	16.4	0.0
72.5°	55.1	37.2	17.9	0.0
70°	62.5	41.7	20.8	0.0
67.5°	71.5	46.2	23.8	0.0
65°	78.9	52.1	25.3	0.0
62.5°	86.4	56.6	28.3	0.0
60°	93.8	61.1	29.8	0.0
57.5°	101.3	65.5	32.8	0.0
55°	108.7	71.5	35.7	0.0
52.5°	116.2	76.0	37.2	0.0
50°	123.6	80.4	38.7	0.0
47.5°	129.6	84.9	41.7	0.0
45°	137.0	89.4	43.2	0.0
42.5°	144.5	92.3	44.7	0.0
40°	150.4	96.8	46.2	0.0
37.5°	157.9	99.8	49.1	0.0
35°	163.8	104.2	50.6	0.0
32.5°	168.3	107.2	52.1	0.0
30°	174.2	110.2	53.6	0.0
27.5°	178.7	113.2	53.6	0.0
25°	183.2	116.2	55.1	0.0
22.5°	187.6	117.7	56.6	0.0
20°	192.1	120.6	58.1	0.0
17.5°	195.1	122.1	58.1	0.0
15°	198.1	123.6	61.1	0.0
12.5°	199.6	125.1	61.1	0.0
10°	202.5	128.1	61.1	0.0
7.5°	205.5	128.1	61.1	0.0
5°	205.5	128.1	61.1	0.0
2.5°	205.5	128.1	61.1	0.0
0°	205.5	128.1	61.1	0.0

(END OF REPORT)