

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: P624054

Luminaire Tested: **IFLD-S-SA6B-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624054
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

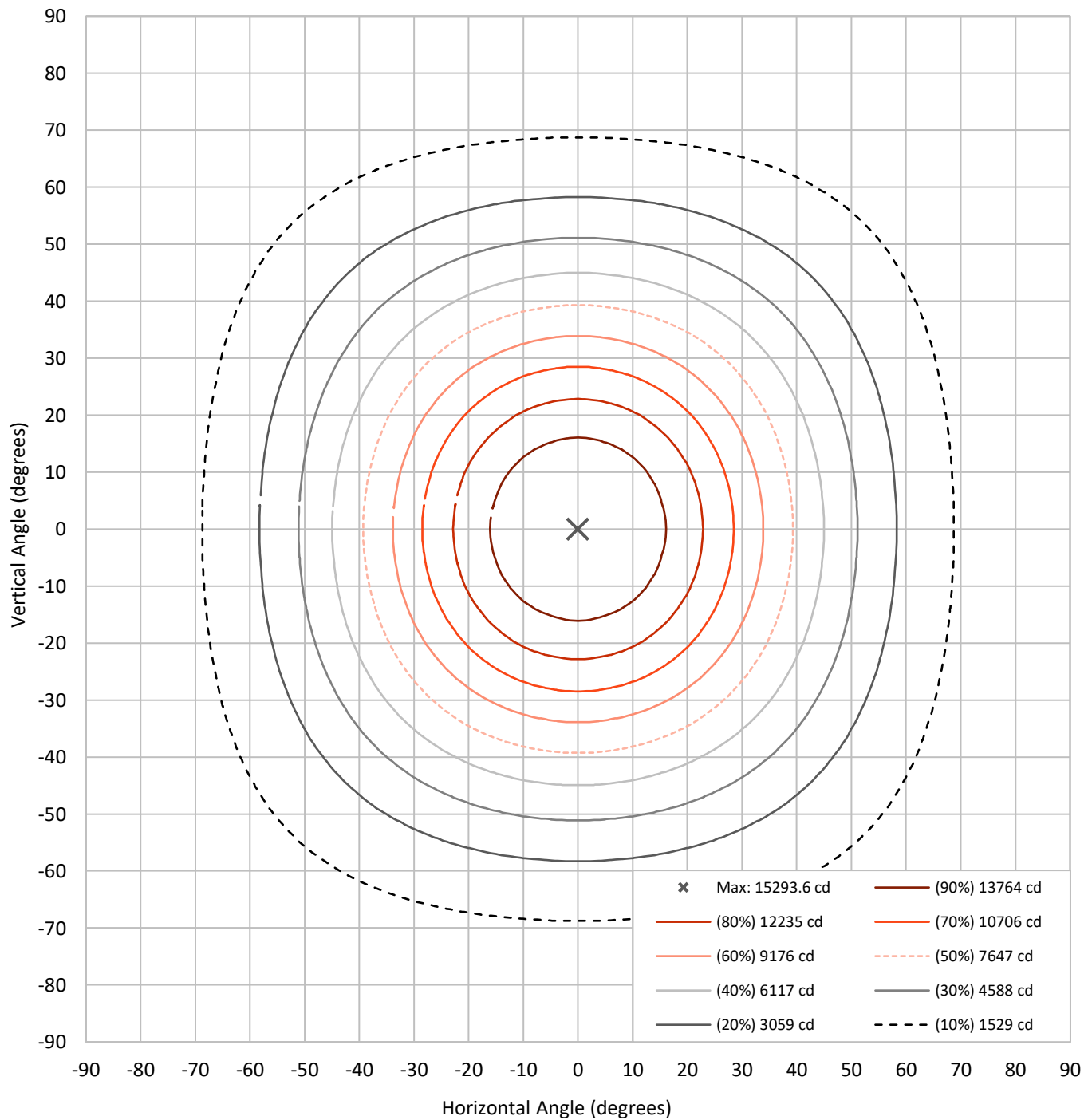
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27536.4 lumens	Max Intensity:	15293.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	112.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	11914.7 lumens	Field Lumens:	19510 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

Input Watts (W): 244.9
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



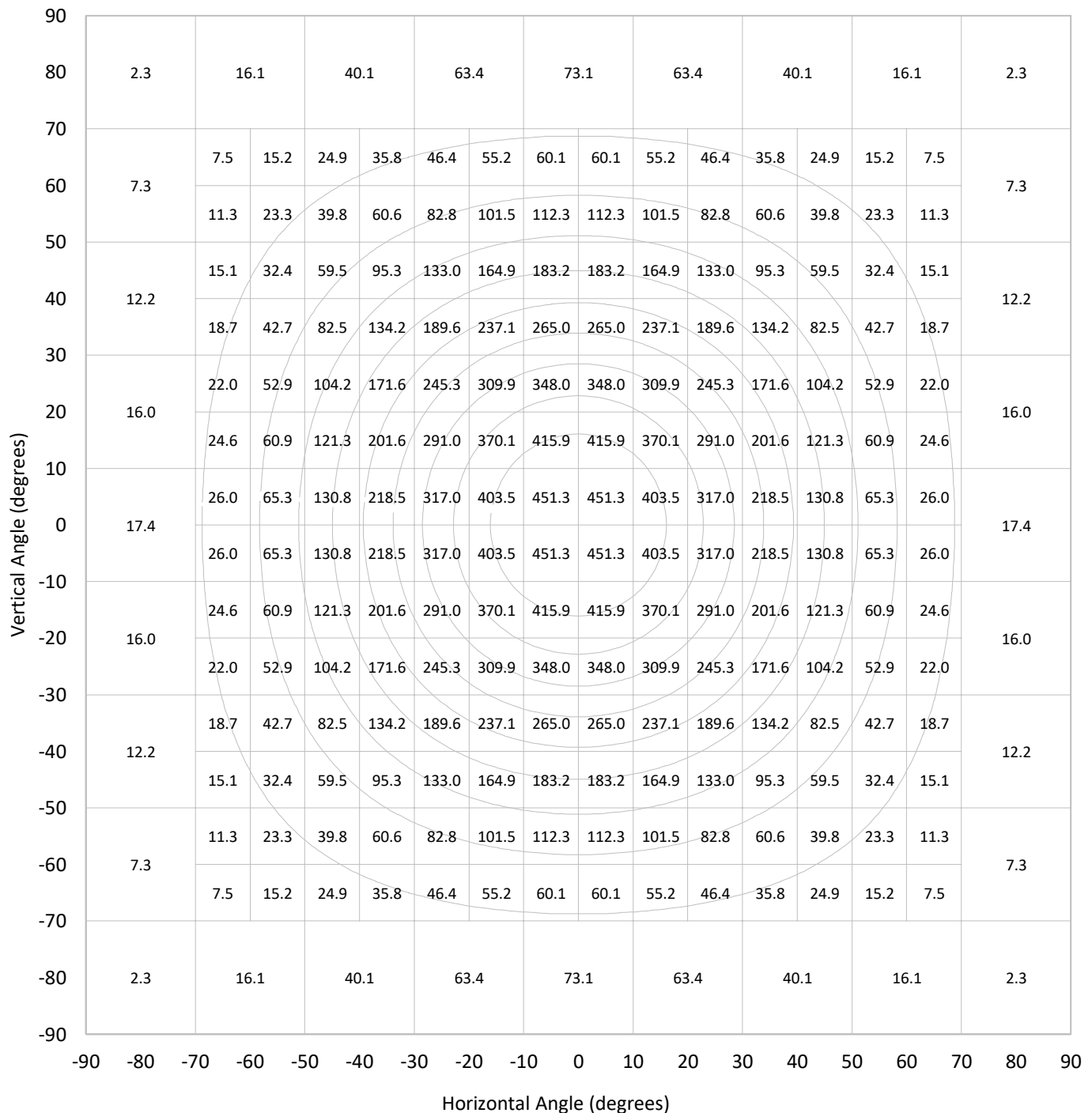
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Iso-Candela Plot



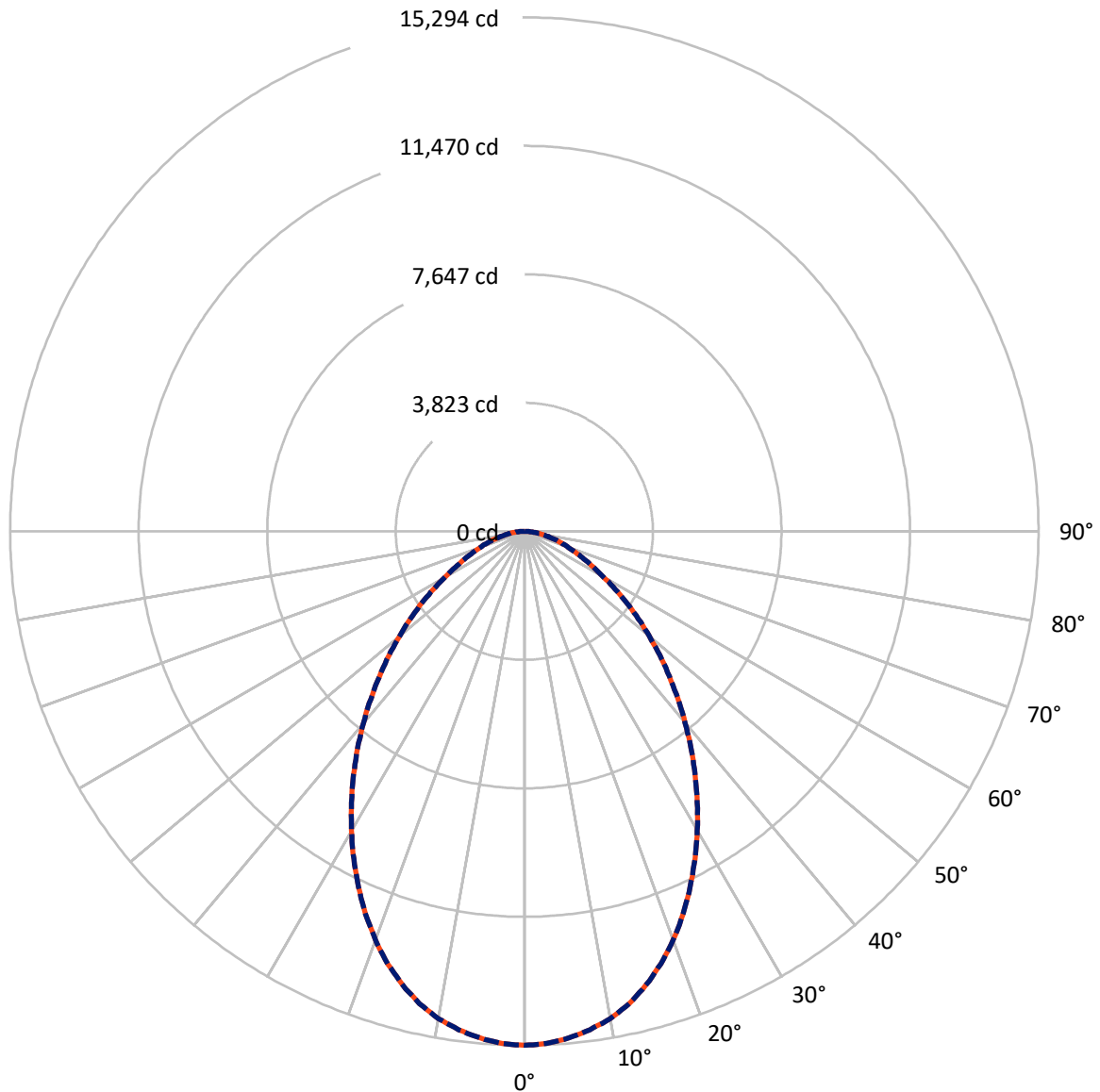
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Lumen Table



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Luminous Intensity Polar Plot

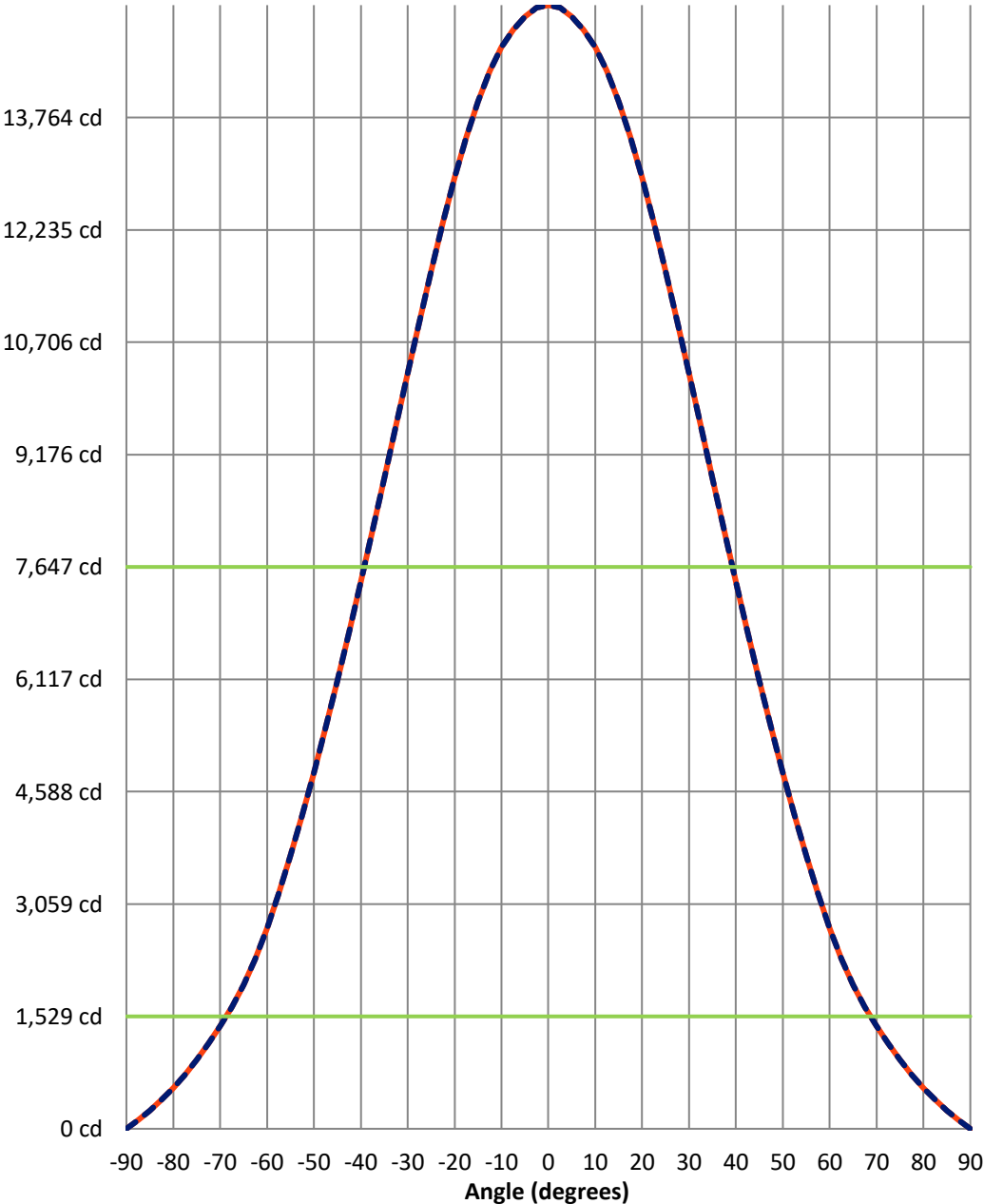


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 11914.7
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 19510
Efficiency: 70.9%

Spill:
Lumens: 8026.5
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°	117.7	117.7	117.7	117.7	117.7	117.7	117.7	112.0	112.0	109.1	106.2
85°	246.9	246.9	246.9	246.9	246.9	241.2	238.3	235.4	232.5	226.8	223.9
82.5°	396.2	396.2	396.2	396.2	390.4	384.7	381.8	376.1	370.4	361.7	353.1
80°	554.1	554.1	554.1	554.1	545.5	539.7	531.1	525.4	516.8	505.3	493.8
77.5°	735.0	735.0	735.0	726.4	720.6	712.0	703.4	691.9	680.4	666.1	648.8
75°	938.8	938.8	938.8	927.3	918.7	910.1	895.7	881.4	864.2	844.1	821.1
72.5°	1159.9	1159.9	1159.9	1145.5	1136.9	1122.5	1105.3	1085.2	1065.1	1039.3	1010.6
70°	1398.2	1398.2	1398.2	1380.9	1366.6	1352.2	1329.3	1306.3	1277.6	1248.9	1214.4
67.5°	1656.5	1656.5	1656.5	1636.4	1619.2	1599.1	1573.3	1544.6	1510.1	1469.9	1429.7
65°	1958.0	1958.0	1946.5	1929.3	1909.2	1880.5	1848.9	1808.7	1765.6	1714.0	1659.4
62.5°	2314.0	2314.0	2296.8	2276.7	2250.8	2213.5	2170.4	2118.8	2058.5	1992.4	1926.4
60°	2727.4	2727.4	2707.3	2681.5	2644.1	2598.2	2540.8	2474.8	2400.1	2316.9	2236.5
57.5°	3204.0	3204.0	3178.1	3143.7	3097.8	3040.3	2968.6	2885.3	2790.6	2687.2	2586.7
55°	3720.8	3720.8	3689.2	3649.0	3594.4	3525.5	3439.4	3341.8	3227.0	3109.2	2980.1
52.5°	4269.1	4269.1	4231.8	4185.9	4122.7	4042.3	3944.7	3829.9	3697.8	3560.0	3407.8
50°	4846.2	4846.2	4803.1	4751.4	4679.7	4584.9	4472.9	4340.9	4194.5	4033.7	3858.6
47.5°	5463.4	5463.4	5414.6	5354.3	5268.2	5159.1	5027.0	4874.9	4708.4	4527.5	4329.4
45°	6097.9	6097.9	6043.4	5974.5	5879.7	5756.3	5609.8	5463.4	5251.0	5041.4	4811.7
42.5°	6758.2	6758.2	6695.1	6617.6	6508.5	6373.5	6207.0	6017.5	5807.9	5572.5	5322.7
40°	7444.4	7444.4	7372.6	7283.6	7163.0	7008.0	6821.4	6608.9	6373.5	6112.3	5836.7
37.5°	8144.9	8144.9	8064.5	7966.9	7832.0	7659.7	7450.1	7214.7	6950.6	6660.6	6356.3
35°	8851.2	8851.2	8762.2	8655.9	8506.6	8317.2	8090.4	7829.1	7536.3	7220.5	6878.8
32.5°	9571.8	9571.8	9474.2	9353.6	9184.2	8974.6	8724.8	8440.6	8144.9	7777.4	7404.2
30°	10283.8	10283.8	10177.5	10045.5	9864.6	9634.9	9362.2	9049.2	8701.9	8325.8	7923.8
27.5°	10984.3	10955.6	10866.6	10725.9	10527.8	10283.8	9988.1	9649.3	9273.2	8859.8	8429.1
25°	11673.3	11641.7	11544.1	11389.1	11176.6	10909.6	10591.0	10229.2	9824.4	9388.0	8917.2
22.5°	12333.6	12299.2	12195.8	12029.3	11802.5	11512.5	11170.9	10783.3	10352.7	9884.7	9388.0
20°	12945.1	12907.8	12801.6	12626.5	12391.0	12083.8	11722.1	11305.8	10846.5	10352.7	9824.4
17.5°	13496.4	13459.0	13347.1	13166.2	12945.1	12603.5	12230.3	11791.0	11305.8	10783.3	10229.2
15°	13981.5	13941.4	13826.5	13645.6	13393.0	13071.5	12678.1	12230.3	11722.1	11170.9	10591.0
12.5°	14395.0	14354.8	14237.1	14056.2	13794.9	13473.4	13071.5	12603.5	12083.8	11512.5	10909.6
10°	14722.3	14682.1	14570.1	14397.8	14128.0	13794.9	13393.0	12945.1	12391.0	11802.5	11176.6
7.5°	14957.7	14920.4	14817.0	14644.7	14397.8	14056.2	13645.6	13166.2	12626.5	12029.3	11389.1
5°	15135.7	15092.6	14989.3	14817.0	14570.1	14237.1	13826.5	13347.1	12801.6	12195.8	11544.1
2.5°	15259.1	15207.4	15092.6	14920.4	14682.1	14354.8	13941.4	13459.0	12907.8	12299.2	11641.7
0°	15293.6	15259.1	15135.7	14957.7	14722.3	14395.0	13981.5	13496.4	12945.1	12333.6	11673.3

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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°	103.4	103.4	100.5	97.6	94.7	89.0	86.1	83.3	80.4	74.6	71.8
85°	218.2	212.5	206.7	201.0	192.4	186.6	178.0	172.3	163.6	155.0	146.4
82.5°	344.5	335.9	324.4	315.8	304.3	290.0	278.5	264.1	249.8	238.3	223.9
80°	482.3	468.0	453.6	439.3	422.0	404.8	387.6	370.4	350.3	330.2	310.1
77.5°	631.6	611.5	591.4	568.4	548.4	525.4	502.4	479.4	453.6	427.8	401.9
75°	798.1	772.3	743.6	714.9	689.0	657.4	625.9	594.3	559.8	528.3	493.8
72.5°	979.0	947.4	913.0	878.5	841.2	801.0	760.8	717.7	677.5	637.4	594.3
70°	1174.2	1136.9	1093.8	1050.8	1004.8	956.0	907.2	855.5	803.9	752.2	700.5
67.5°	1383.8	1337.9	1286.2	1234.5	1177.1	1119.7	1062.3	1002.0	938.8	875.6	815.4
65°	1607.7	1550.3	1490.0	1424.0	1358.0	1291.9	1223.0	1151.3	1079.5	1004.8	938.8
62.5°	1857.5	1785.7	1708.2	1627.8	1553.2	1472.8	1398.2	1309.2	1223.0	1139.8	1056.5
60°	2147.5	2052.7	1958.0	1857.5	1762.8	1659.4	1567.5	1469.9	1372.3	1277.6	1180.0
57.5°	2471.9	2351.3	2236.5	2115.9	1989.6	1874.7	1757.0	1639.3	1530.2	1418.3	1312.0
55°	2839.4	2693.0	2549.4	2400.1	2253.7	2110.2	1960.9	1828.8	1693.9	1567.5	1444.1
52.5°	3241.3	3074.8	2896.8	2727.4	2540.8	2362.8	2196.3	2029.8	1871.9	1719.7	1579.0
50°	3672.0	3476.7	3272.9	3066.2	2853.7	2644.1	2443.2	2248.0	2064.2	1886.2	1719.7
47.5°	4119.8	3898.8	3666.2	3430.8	3204.0	2948.5	2707.3	2486.2	2265.2	2064.2	1871.9
45°	4579.2	4329.4	4073.9	3806.9	3539.9	3264.3	2997.3	2727.4	2486.2	2248.0	2029.8
42.5°	5052.9	4771.5	4487.3	4191.6	3895.9	3594.4	3293.0	2997.3	2707.3	2443.2	2196.3
40°	5540.9	5230.9	4906.5	4584.9	4269.1	3924.6	3594.4	3264.3	2948.5	2644.1	2362.8
37.5°	6029.0	5690.2	5340.0	4978.2	4616.5	4269.1	3895.9	3539.9	3204.0	2853.7	2540.8
35°	6519.9	6146.7	5767.7	5374.4	4978.2	4584.9	4191.6	3806.9	3430.8	3066.2	2727.4
32.5°	7013.7	6606.1	6186.9	5767.7	5340.0	4906.5	4487.3	4073.9	3666.2	3272.9	2896.8
30°	7498.9	7056.8	6606.1	6146.7	5690.2	5230.9	4771.5	4329.4	3898.8	3476.7	3074.8
27.5°	7972.6	7498.9	7013.7	6519.9	6029.0	5540.9	5052.9	4579.2	4119.8	3672.0	3241.3
25°	8429.1	7923.8	7404.2	6878.8	6356.3	5836.7	5322.7	4811.7	4329.4	3858.6	3407.8
22.5°	8859.8	8325.8	7777.4	7220.5	6660.6	6112.3	5572.5	5041.4	4527.5	4033.7	3560.0
20°	9273.2	8701.9	8144.9	7536.3	6950.6	6373.5	5807.9	5251.0	4708.4	4194.5	3697.8
17.5°	9649.3	9049.2	8440.6	7829.1	7214.7	6608.9	6017.5	5463.4	4874.9	4340.9	3829.9
15°	9988.1	9362.2	8724.8	8090.4	7450.1	6821.4	6207.0	5609.8	5027.0	4472.9	3944.7
12.5°	10283.8	9634.9	8974.6	8317.2	7659.7	7008.0	6373.5	5756.3	5159.1	4584.9	4042.3
10°	10527.8	9864.6	9184.2	8506.6	7832.0	7163.0	6508.5	5879.7	5268.2	4679.7	4122.7
7.5°	10725.9	10045.5	9353.6	8655.9	7966.9	7283.6	6617.6	5974.5	5354.3	4751.4	4185.9
5°	10866.6	10177.5	9474.2	8762.2	8064.5	7372.6	6695.1	6043.4	5414.6	4803.1	4231.8
2.5°	10955.6	10283.8	9571.8	8851.2	8144.9	7444.4	6758.2	6097.9	5463.4	4846.2	4269.1
0°	10984.3	10283.8	9571.8	8851.2	8144.9	7444.4	6758.2	6097.9	5463.4	4846.2	4269.1

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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°	68.9	63.2	57.4	54.5	48.8	45.9	40.2	34.5	31.6	25.8	20.1
85°	137.8	126.3	117.7	109.1	100.5	89.0	80.4	71.8	60.3	51.7	40.2
82.5°	209.6	195.2	180.9	166.5	152.2	137.8	120.6	106.2	91.9	77.5	60.3
80°	290.0	267.0	246.9	226.8	206.7	186.6	163.6	143.5	120.6	100.5	80.4
77.5°	373.2	347.4	318.7	290.0	261.3	235.4	206.7	180.9	155.0	126.3	100.5
75°	462.2	427.8	396.2	358.9	324.4	287.1	252.6	218.2	186.6	155.0	120.6
72.5°	554.1	511.0	468.0	427.8	384.7	341.6	301.5	258.4	218.2	180.9	143.5
70°	648.8	597.2	545.5	496.7	447.9	396.2	350.3	301.5	252.6	206.7	163.6
67.5°	749.3	689.0	628.7	565.6	511.0	453.6	396.2	341.6	287.1	235.4	186.6
65°	858.4	786.6	712.0	646.0	574.2	511.0	447.9	384.7	324.4	261.3	206.7
62.5°	970.4	887.1	803.9	720.6	646.0	565.6	496.7	427.8	358.9	290.0	226.8
60°	1085.2	990.5	895.7	803.9	712.0	628.7	545.5	468.0	396.2	318.7	246.9
57.5°	1202.9	1096.7	990.5	887.1	786.6	689.0	597.2	511.0	427.8	347.4	267.0
55°	1323.5	1202.9	1085.2	970.4	858.4	749.3	648.8	554.1	462.2	373.2	290.0
52.5°	1444.1	1312.0	1180.0	1056.5	938.8	815.4	700.5	594.3	493.8	401.9	310.1
50°	1567.5	1418.3	1277.6	1139.8	1004.8	875.6	752.2	637.4	528.3	427.8	330.2
47.5°	1693.9	1530.2	1372.3	1223.0	1079.5	938.8	803.9	677.5	559.8	453.6	350.3
45°	1828.8	1639.3	1469.9	1309.2	1151.3	1002.0	855.5	717.7	594.3	479.4	370.4
42.5°	1960.9	1757.0	1567.5	1398.2	1223.0	1062.3	907.2	760.8	625.9	502.4	387.6
40°	2110.2	1874.7	1659.4	1472.8	1291.9	1119.7	956.0	801.0	657.4	525.4	404.8
37.5°	2253.7	1989.6	1762.8	1553.2	1358.0	1177.1	1004.8	841.2	689.0	548.4	422.0
35°	2400.1	2115.9	1857.5	1627.8	1424.0	1234.5	1050.8	878.5	714.9	568.4	439.3
32.5°	2549.4	2236.5	1958.0	1708.2	1490.0	1286.2	1093.8	913.0	743.6	591.4	453.6
30°	2693.0	2351.3	2052.7	1785.7	1550.3	1337.9	1136.9	947.4	772.3	611.5	468.0
27.5°	2839.4	2471.9	2147.5	1857.5	1607.7	1383.8	1174.2	979.0	798.1	631.6	482.3
25°	2980.1	2586.7	2236.5	1926.4	1659.4	1429.7	1214.4	1010.6	821.1	648.8	493.8
22.5°	3109.2	2687.2	2316.9	1992.4	1714.0	1469.9	1248.9	1039.3	844.1	666.1	505.3
20°	3227.0	2790.6	2400.1	2058.5	1765.6	1510.1	1277.6	1065.1	864.2	680.4	516.8
17.5°	3341.8	2885.3	2474.8	2118.8	1808.7	1544.6	1306.3	1085.2	881.4	691.9	525.4
15°	3439.4	2968.6	2540.8	2170.4	1848.9	1573.3	1329.3	1105.3	895.7	703.4	531.1
12.5°	3525.5	3040.3	2598.2	2213.5	1880.5	1599.1	1352.2	1122.5	910.1	712.0	539.7
10°	3594.4	3097.8	2644.1	2250.8	1909.2	1619.2	1366.6	1136.9	918.7	720.6	545.5
7.5°	3649.0	3143.7	2681.5	2276.7	1929.3	1636.4	1380.9	1145.5	927.3	726.4	554.1
5°	3689.2	3178.1	2707.3	2296.8	1946.5	1656.5	1398.2	1159.9	938.8	735.0	554.1
2.5°	3720.8	3204.0	2727.4	2314.0	1958.0	1656.5	1398.2	1159.9	938.8	735.0	554.1
0°	3720.8	3204.0	2727.4	2314.0	1958.0	1656.5	1398.2	1159.9	938.8	735.0	554.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.4	11.5	5.7	0.0
85°	31.6	20.1	11.5	0.0
82.5°	45.9	31.6	14.4	0.0
80°	60.3	40.2	20.1	0.0
77.5°	77.5	51.7	25.8	0.0
75°	91.9	60.3	31.6	0.0
72.5°	106.2	71.8	34.5	0.0
70°	120.6	80.4	40.2	0.0
67.5°	137.8	89.0	45.9	0.0
65°	152.2	100.5	48.8	0.0
62.5°	166.5	109.1	54.5	0.0
60°	180.9	117.7	57.4	0.0
57.5°	195.2	126.3	63.2	0.0
55°	209.6	137.8	68.9	0.0
52.5°	223.9	146.4	71.8	0.0
50°	238.3	155.0	74.6	0.0
47.5°	249.8	163.6	80.4	0.0
45°	264.1	172.3	83.3	0.0
42.5°	278.5	178.0	86.1	0.0
40°	290.0	186.6	89.0	0.0
37.5°	304.3	192.4	94.7	0.0
35°	315.8	201.0	97.6	0.0
32.5°	324.4	206.7	100.5	0.0
30°	335.9	212.5	103.4	0.0
27.5°	344.5	218.2	103.4	0.0
25°	353.1	223.9	106.2	0.0
22.5°	361.7	226.8	109.1	0.0
20°	370.4	232.5	112.0	0.0
17.5°	376.1	235.4	112.0	0.0
15°	381.8	238.3	117.7	0.0
12.5°	384.7	241.2	117.7	0.0
10°	390.4	246.9	117.7	0.0
7.5°	396.2	246.9	117.7	0.0
5°	396.2	246.9	117.7	0.0
2.5°	396.2	246.9	117.7	0.0
0°	396.2	246.9	117.7	0.0

(END OF REPORT)