

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: P623915

Luminaire Tested: **IFLD-M-SA4C-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623915
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

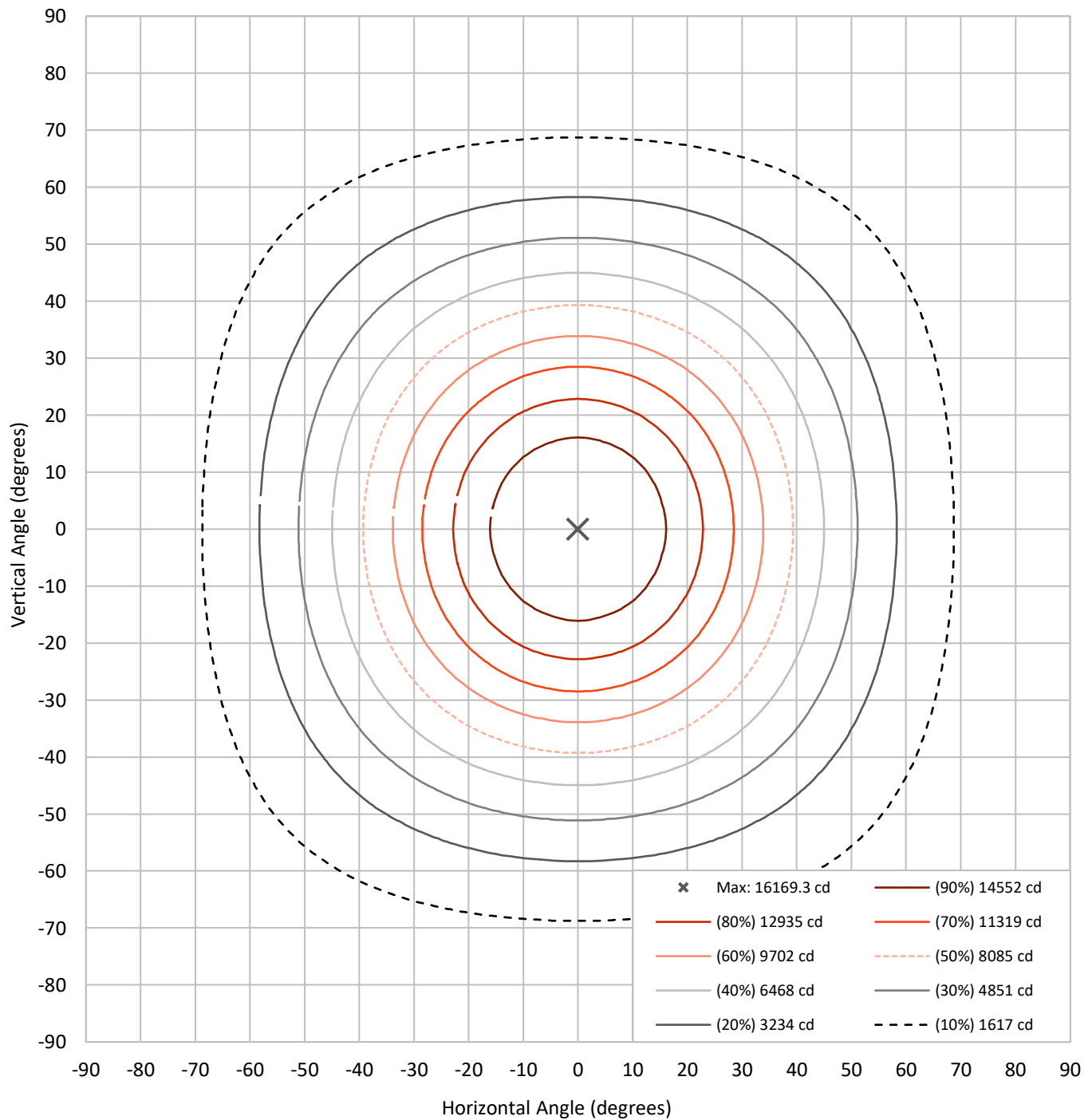
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29113.1 lumens	Max Intensity:	16169.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	133.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	12597 lumens	Field Lumens:	20627.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	218.1		
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		



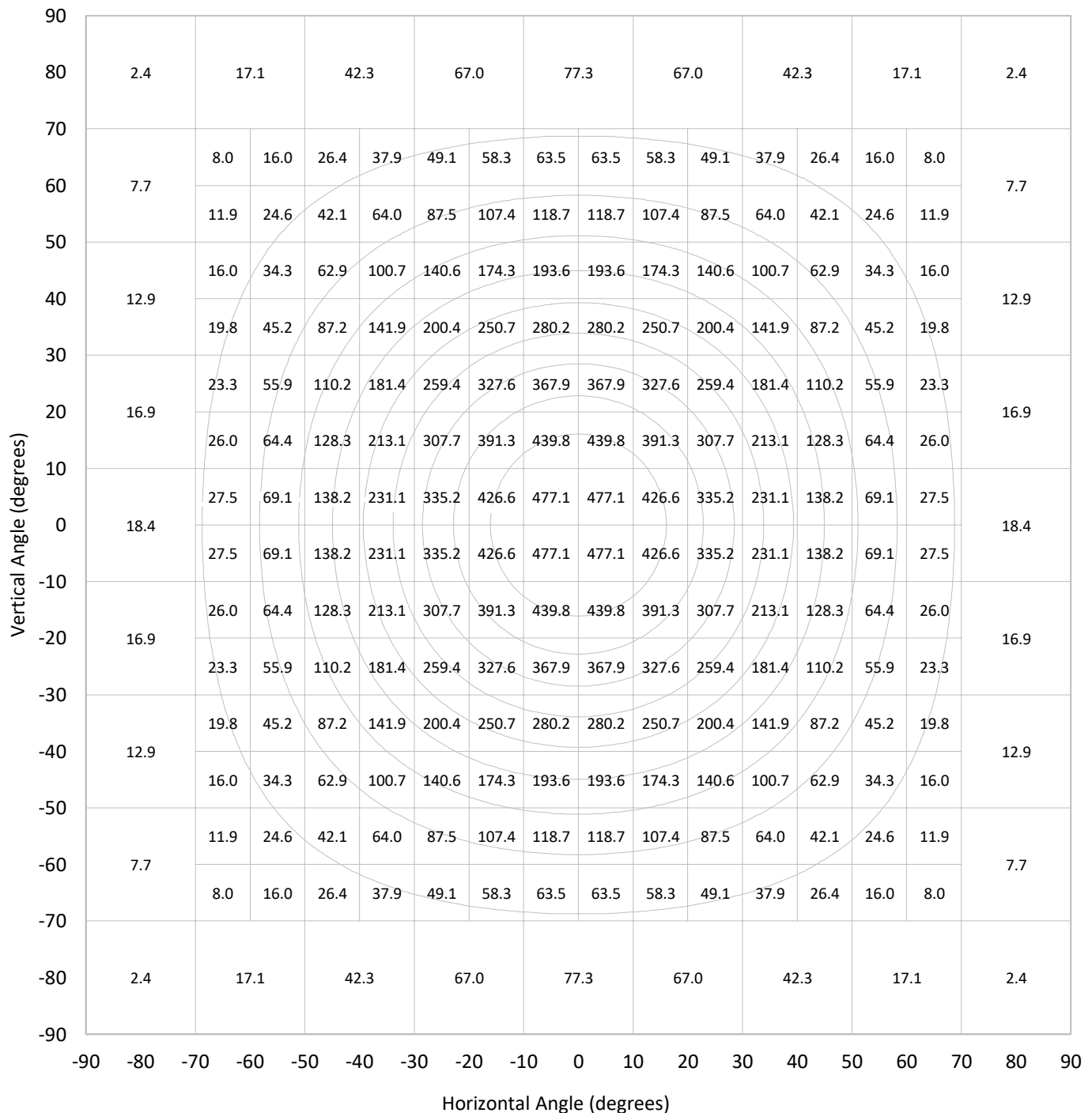
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Iso-Candela Plot



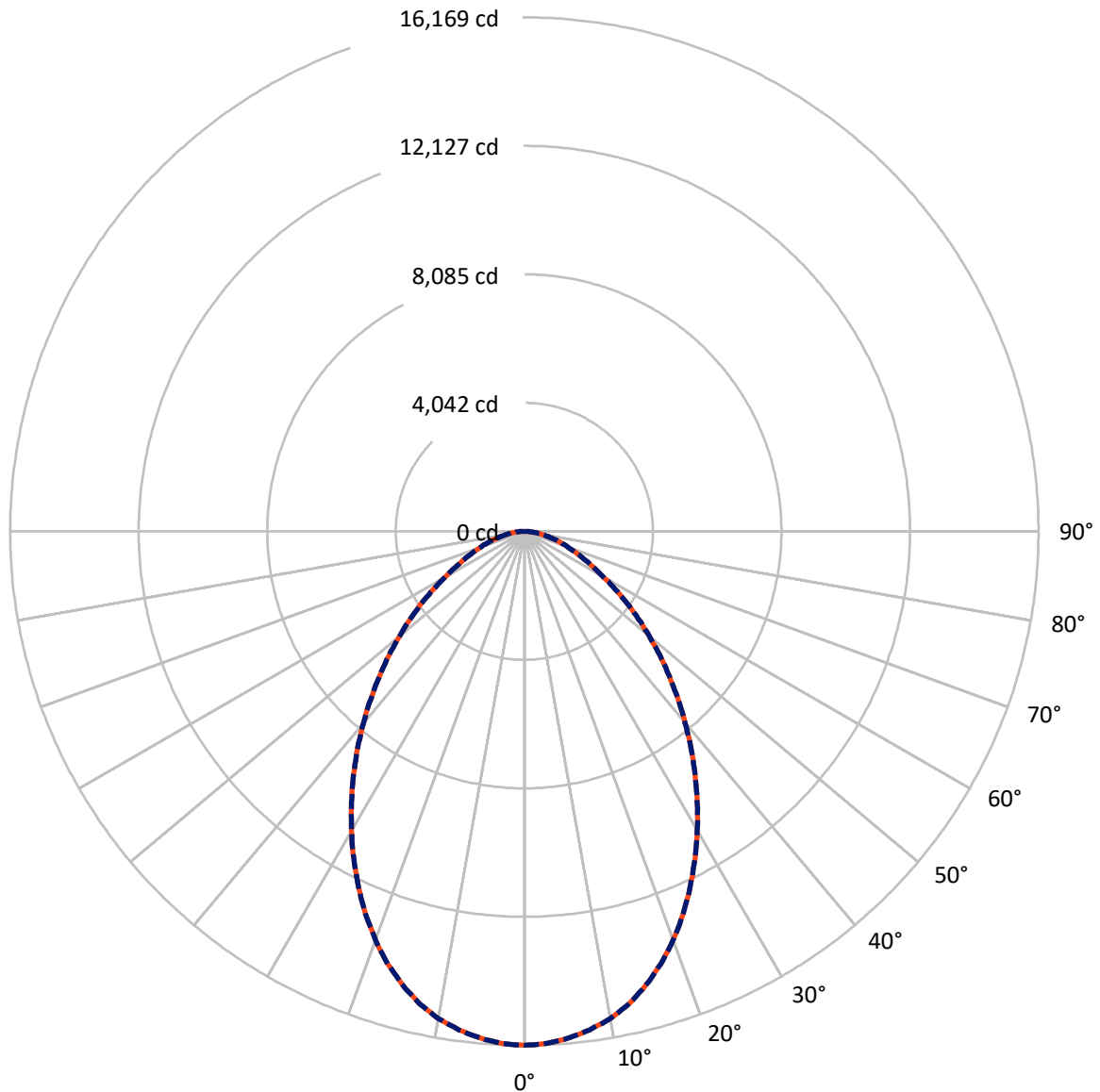
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Lumen Table



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Luminous Intensity Polar Plot

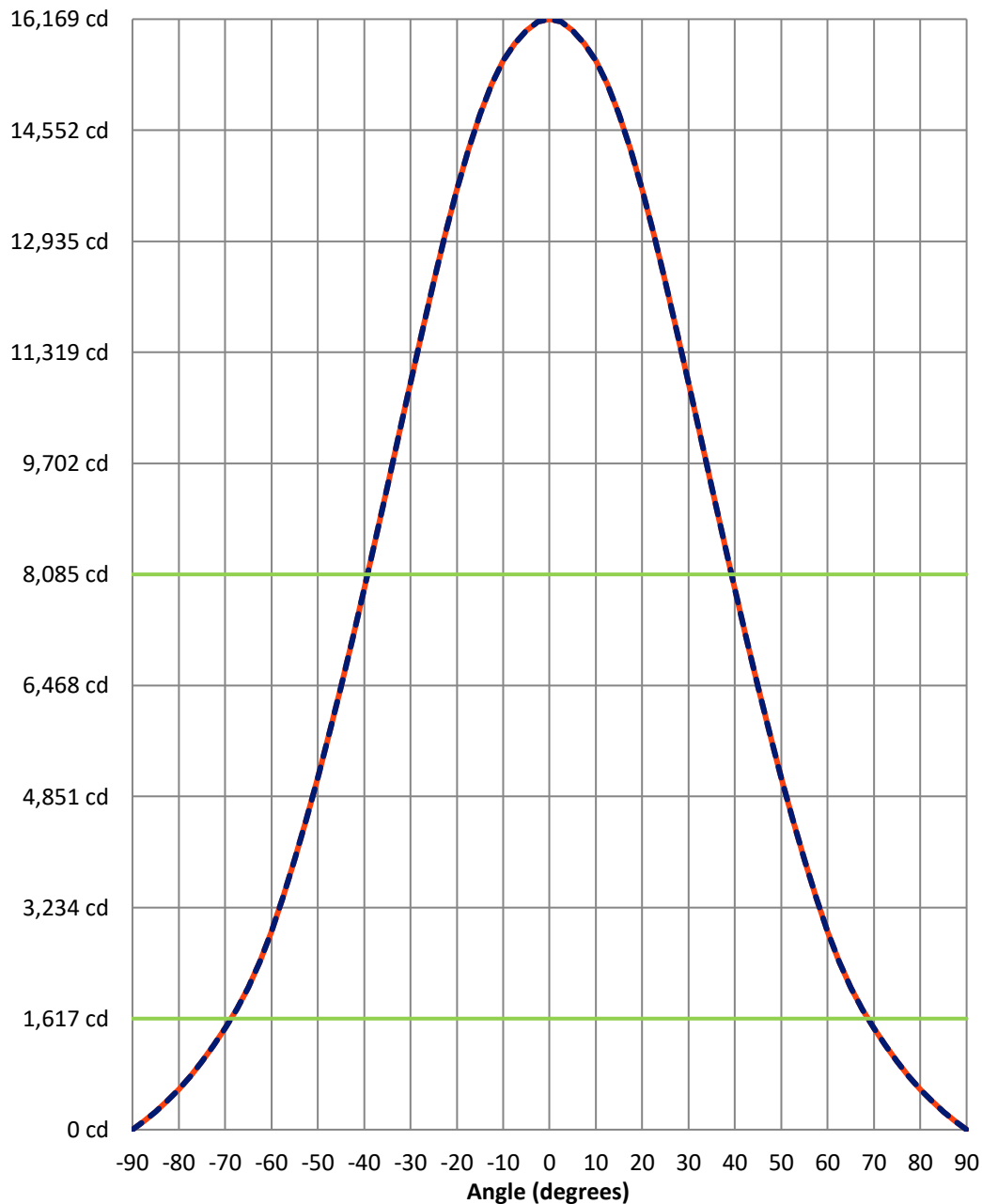


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 12597
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 20627.1
Efficiency: 70.9%

Spill:

Lumens: 8486
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°	124.4	124.4	124.4	124.4	124.4	124.4	124.4	118.4	118.4	115.3	112.3
85°	261.0	261.0	261.0	261.0	261.0	255.0	251.9	248.9	245.9	239.8	236.8
82.5°	418.9	418.9	418.9	418.9	412.8	406.7	403.7	397.6	391.6	382.5	373.3
80°	585.8	585.8	585.8	585.8	576.7	570.6	561.5	555.5	546.4	534.2	522.1
77.5°	777.0	777.0	777.0	767.9	761.9	752.8	743.7	731.5	719.4	704.2	686.0
75°	992.6	992.6	992.6	980.4	971.3	962.2	947.0	931.8	913.6	892.4	868.1
72.5°	1226.3	1226.3	1226.3	1211.1	1202.0	1186.8	1168.6	1147.4	1126.1	1098.8	1068.4
70°	1478.2	1478.2	1478.2	1460.0	1444.8	1429.6	1405.4	1381.1	1350.7	1320.4	1283.9
67.5°	1751.4	1751.4	1751.4	1730.1	1711.9	1690.7	1663.4	1633.0	1596.6	1554.1	1511.6
65°	2070.1	2070.1	2058.0	2039.7	2018.5	1988.1	1954.8	1912.3	1866.7	1812.1	1754.4
62.5°	2446.5	2446.5	2428.3	2407.0	2379.7	2340.2	2294.7	2240.1	2176.3	2106.5	2036.7
60°	2883.6	2883.6	2862.3	2835.0	2795.5	2747.0	2686.3	2616.5	2537.5	2449.5	2364.5
57.5°	3387.4	3387.4	3360.1	3323.7	3275.1	3214.4	3138.5	3050.5	2950.3	2841.1	2734.8
55°	3933.8	3933.8	3900.4	3857.9	3800.2	3727.4	3636.3	3533.1	3411.7	3287.3	3150.7
52.5°	4513.5	4513.5	4474.1	4425.5	4358.7	4273.8	4170.6	4049.1	3909.5	3763.8	3602.9
50°	5123.7	5123.7	5078.1	5023.5	4947.6	4847.4	4729.1	4589.4	4434.6	4264.7	4079.5
47.5°	5776.3	5776.3	5724.6	5660.9	5569.8	5454.5	5314.9	5154.0	4978.0	4786.7	4577.3
45°	6447.1	6447.1	6389.4	6316.5	6216.4	6085.9	5931.1	5776.3	5551.6	5330.1	5087.2
42.5°	7145.2	7145.2	7078.4	6996.5	6881.1	6738.5	6562.4	6362.1	6140.5	5891.6	5627.5
40°	7870.6	7870.6	7794.8	7700.7	7573.2	7409.3	7212.0	6987.4	6738.5	6462.2	6170.8
37.5°	8611.3	8611.3	8526.3	8423.1	8280.4	8098.3	7876.7	7627.8	7348.6	7042.0	6720.2
35°	9358.0	9358.0	9263.9	9151.5	8993.7	8793.4	8553.6	8277.4	7967.8	7633.9	7272.7
32.5°	10119.8	10119.8	10016.6	9889.1	9710.1	9488.5	9224.4	8923.9	8611.3	8222.7	7828.1
30°	10872.6	10872.6	10760.3	10620.7	10429.4	10186.6	9898.2	9567.4	9200.1	8802.5	8377.5
27.5°	11613.2	11582.9	11488.8	11340.0	11130.6	10872.6	10559.9	10201.8	9804.1	9367.1	8911.8
25°	12341.7	12308.3	12205.1	12041.2	11816.6	11534.3	11197.4	10814.9	10386.9	9925.6	9427.8
22.5°	13039.8	13003.4	12894.1	12718.1	12478.3	12171.7	11810.5	11400.7	10945.4	10450.7	9925.6
20°	13686.3	13646.9	13534.6	13349.4	13100.5	12775.7	12393.3	11953.2	11467.5	10945.4	10386.9
17.5°	14269.1	14229.7	14111.3	13920.1	13686.3	13325.1	12930.5	12466.1	11953.2	11400.7	10814.9
15°	14782.1	14739.6	14618.2	14427.0	14159.9	13819.9	13404.1	12930.5	12393.3	11810.5	11197.4
12.5°	15219.2	15176.7	15052.2	14861.0	14584.8	14244.8	13819.9	13325.1	12775.7	12171.7	11534.3
10°	15565.2	15522.7	15404.3	15222.2	14936.9	14584.8	14159.9	13686.3	13100.5	12478.3	11816.6
7.5°	15814.1	15774.7	15665.4	15483.3	15222.2	14861.0	14427.0	13920.1	13349.4	12718.1	12041.2
5°	16002.3	15956.8	15847.5	15665.4	15404.3	15052.2	14618.2	14111.3	13534.6	12894.1	12205.1
2.5°	16132.8	16078.2	15956.8	15774.7	15522.7	15176.7	14739.6	14229.7	13646.9	13003.4	12308.3
0°	16169.3	16132.8	16002.3	15814.1	15565.2	15219.2	14782.1	14269.1	13686.3	13039.8	12341.7

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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°	109.3	109.3	106.2	103.2	100.2	94.1	91.1	88.0	85.0	78.9	75.9
85°	230.7	224.6	218.5	212.5	203.4	197.3	188.2	182.1	173.0	163.9	154.8
82.5°	364.2	355.1	343.0	333.9	321.7	306.6	294.4	279.3	264.1	251.9	236.8
80°	509.9	494.8	479.6	464.4	446.2	428.0	409.8	391.6	370.3	349.1	327.8
77.5°	667.8	646.5	625.3	601.0	579.7	555.5	531.2	506.9	479.6	452.3	424.9
75°	843.8	816.5	786.2	755.8	728.5	695.1	661.7	628.3	591.9	558.5	522.1
72.5°	1035.1	1001.7	965.2	928.8	889.4	846.9	804.4	758.8	716.3	673.8	628.3
70°	1241.5	1202.0	1156.5	1110.9	1062.4	1010.8	959.2	904.5	849.9	795.3	740.6
67.5°	1463.0	1414.5	1359.8	1305.2	1244.5	1183.8	1123.1	1059.3	992.6	925.8	862.0
65°	1699.8	1639.1	1575.3	1505.5	1435.7	1365.9	1293.1	1217.2	1141.3	1062.4	992.6
62.5°	1963.9	1888.0	1806.0	1721.0	1642.1	1557.1	1478.2	1384.1	1293.1	1205.0	1117.0
60°	2270.4	2170.3	2070.1	1963.9	1863.7	1754.4	1657.3	1554.1	1450.9	1350.7	1247.5
57.5°	2613.4	2485.9	2364.5	2237.0	2103.5	1982.1	1857.6	1733.2	1617.8	1499.5	1387.2
55°	3002.0	2847.1	2695.4	2537.5	2382.7	2231.0	2073.1	1933.5	1790.9	1657.3	1526.8
52.5°	3426.9	3250.8	3062.7	2883.6	2686.3	2498.1	2322.0	2146.0	1979.0	1818.2	1669.4
50°	3882.2	3675.8	3460.3	3241.7	3017.1	2795.5	2583.1	2376.7	2182.4	1994.2	1818.2
47.5°	4355.7	4122.0	3876.1	3627.2	3387.4	3117.3	2862.3	2628.6	2394.9	2182.4	1979.0
45°	4841.4	4577.3	4307.1	4024.9	3742.6	3451.2	3168.9	2883.6	2628.6	2376.7	2146.0
42.5°	5342.2	5044.7	4744.2	4431.6	4119.0	3800.2	3481.5	3168.9	2862.3	2583.1	2322.0
40°	5858.2	5530.4	5187.4	4847.4	4513.5	4149.3	3800.2	3451.2	3117.3	2795.5	2498.1
37.5°	6374.2	6016.0	5645.7	5263.3	4880.8	4513.5	4119.0	3742.6	3387.4	3017.1	2686.3
35°	6893.3	6498.7	6098.0	5682.2	5263.3	4847.4	4431.6	4024.9	3627.2	3241.7	2883.6
32.5°	7415.3	6984.3	6541.2	6098.0	5645.7	5187.4	4744.2	4307.1	3876.1	3460.3	3062.7
30°	7928.3	7460.9	6984.3	6498.7	6016.0	5530.4	5044.7	4577.3	4122.0	3675.8	3250.8
27.5°	8429.1	7928.3	7415.3	6893.3	6374.2	5858.2	5342.2	4841.4	4355.7	3882.2	3426.9
25°	8911.8	8377.5	7828.1	7272.7	6720.2	6170.8	5627.5	5087.2	4577.3	4079.5	3602.9
22.5°	9367.1	8802.5	8222.7	7633.9	7042.0	6462.2	5891.6	5330.1	4786.7	4264.7	3763.8
20°	9804.1	9200.1	8611.3	7967.8	7348.6	6738.5	6140.5	5551.6	4978.0	4434.6	3909.5
17.5°	10201.8	9567.4	8923.9	8277.4	7627.8	6987.4	6362.1	5776.3	5154.0	4589.4	4049.1
15°	10559.9	9898.2	9224.4	8553.6	7876.7	7212.0	6562.4	5931.1	5314.9	4729.1	4170.6
12.5°	10872.6	10186.6	9488.5	8793.4	8098.3	7409.3	6738.5	6085.9	5454.5	4847.4	4273.8
10°	11130.6	10429.4	9710.1	8993.7	8280.4	7573.2	6881.1	6216.4	5569.8	4947.6	4358.7
7.5°	11340.0	10620.7	9889.1	9151.5	8423.1	7700.7	6996.5	6316.5	5660.9	5023.5	4425.5
5°	11488.8	10760.3	10016.6	9263.9	8526.3	7794.8	7078.4	6389.4	5724.6	5078.1	4474.1
2.5°	11582.9	10872.6	10119.8	9358.0	8611.3	7870.6	7145.2	6447.1	5776.3	5123.7	4513.5
0°	11613.2	10872.6	10119.8	9358.0	8611.3	7870.6	7145.2	6447.1	5776.3	5123.7	4513.5

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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°	72.8	66.8	60.7	57.7	51.6	48.6	42.5	36.4	33.4	27.3	21.2
85°	145.7	133.6	124.4	115.3	106.2	94.1	85.0	75.9	63.7	54.6	42.5
82.5°	221.6	206.4	191.2	176.0	160.9	145.7	127.5	112.3	97.1	82.0	63.7
80°	306.6	282.3	261.0	239.8	218.5	197.3	173.0	151.8	127.5	106.2	85.0
77.5°	394.6	367.3	336.9	306.6	276.2	248.9	218.5	191.2	163.9	133.6	106.2
75°	488.7	452.3	418.9	379.4	343.0	303.5	267.1	230.7	197.3	163.9	127.5
72.5°	585.8	540.3	494.8	452.3	406.7	361.2	318.7	273.2	230.7	191.2	151.8
70°	686.0	631.4	576.7	525.1	473.5	418.9	370.3	318.7	267.1	218.5	173.0
67.5°	792.2	728.5	664.7	598.0	540.3	479.6	418.9	361.2	303.5	248.9	197.3
65°	907.6	831.7	752.8	683.0	607.1	540.3	473.5	406.7	343.0	276.2	218.5
62.5°	1025.9	937.9	849.9	761.9	683.0	598.0	525.1	452.3	379.4	306.6	239.8
60°	1147.4	1047.2	947.0	849.9	752.8	664.7	576.7	494.8	418.9	336.9	261.0
57.5°	1271.8	1159.5	1047.2	937.9	831.7	728.5	631.4	540.3	452.3	367.3	282.3
55°	1399.3	1271.8	1147.4	1025.9	907.6	792.2	686.0	585.8	488.7	394.6	306.6
52.5°	1526.8	1387.2	1247.5	1117.0	992.6	862.0	740.6	628.3	522.1	424.9	327.8
50°	1657.3	1499.5	1350.7	1205.0	1062.4	925.8	795.3	673.8	558.5	452.3	349.1
47.5°	1790.9	1617.8	1450.9	1293.1	1141.3	992.6	849.9	716.3	591.9	479.6	370.3
45°	1933.5	1733.2	1554.1	1384.1	1217.2	1059.3	904.5	758.8	628.3	506.9	391.6
42.5°	2073.1	1857.6	1657.3	1478.2	1293.1	1123.1	959.2	804.4	661.7	531.2	409.8
40°	2231.0	1982.1	1754.4	1557.1	1365.9	1183.8	1010.8	846.9	695.1	555.5	428.0
37.5°	2382.7	2103.5	1863.7	1642.1	1435.7	1244.5	1062.4	889.4	728.5	579.7	446.2
35°	2537.5	2237.0	1963.9	1721.0	1505.5	1305.2	1110.9	928.8	755.8	601.0	464.4
32.5°	2695.4	2364.5	2070.1	1806.0	1575.3	1359.8	1156.5	965.2	786.2	625.3	479.6
30°	2847.1	2485.9	2170.3	1888.0	1639.1	1414.5	1202.0	1001.7	816.5	646.5	494.8
27.5°	3002.0	2613.4	2270.4	1963.9	1699.8	1463.0	1241.5	1035.1	843.8	667.8	509.9
25°	3150.7	2734.8	2364.5	2036.7	1754.4	1511.6	1283.9	1068.4	868.1	686.0	522.1
22.5°	3287.3	2841.1	2449.5	2106.5	1812.1	1554.1	1320.4	1098.8	892.4	704.2	534.2
20°	3411.7	2950.3	2537.5	2176.3	1866.7	1596.6	1350.7	1126.1	913.6	719.4	546.4
17.5°	3533.1	3050.5	2616.5	2240.1	1912.3	1633.0	1381.1	1147.4	931.8	731.5	555.5
15°	3636.3	3138.5	2686.3	2294.7	1954.8	1663.4	1405.4	1168.6	947.0	743.7	561.5
12.5°	3727.4	3214.4	2747.0	2340.2	1988.1	1690.7	1429.6	1186.8	962.2	752.8	570.6
10°	3800.2	3275.1	2795.5	2379.7	2018.5	1711.9	1444.8	1202.0	971.3	761.9	576.7
7.5°	3857.9	3323.7	2835.0	2407.0	2039.7	1730.1	1460.0	1211.1	980.4	767.9	585.8
5°	3900.4	3360.1	2862.3	2428.3	2058.0	1751.4	1478.2	1226.3	992.6	777.0	585.8
2.5°	3933.8	3387.4	2883.6	2446.5	2070.1	1751.4	1478.2	1226.3	992.6	777.0	585.8
0°	3933.8	3387.4	2883.6	2446.5	2070.1	1751.4	1478.2	1226.3	992.6	777.0	585.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.2	12.1	6.1	0.0
85°	33.4	21.2	12.1	0.0
82.5°	48.6	33.4	15.2	0.0
80°	63.7	42.5	21.2	0.0
77.5°	82.0	54.6	27.3	0.0
75°	97.1	63.7	33.4	0.0
72.5°	112.3	75.9	36.4	0.0
70°	127.5	85.0	42.5	0.0
67.5°	145.7	94.1	48.6	0.0
65°	160.9	106.2	51.6	0.0
62.5°	176.0	115.3	57.7	0.0
60°	191.2	124.4	60.7	0.0
57.5°	206.4	133.6	66.8	0.0
55°	221.6	145.7	72.8	0.0
52.5°	236.8	154.8	75.9	0.0
50°	251.9	163.9	78.9	0.0
47.5°	264.1	173.0	85.0	0.0
45°	279.3	182.1	88.0	0.0
42.5°	294.4	188.2	91.1	0.0
40°	306.6	197.3	94.1	0.0
37.5°	321.7	203.4	100.2	0.0
35°	333.9	212.5	103.2	0.0
32.5°	343.0	218.5	106.2	0.0
30°	355.1	224.6	109.3	0.0
27.5°	364.2	230.7	109.3	0.0
25°	373.3	236.8	112.3	0.0
22.5°	382.5	239.8	115.3	0.0
20°	391.6	245.9	118.4	0.0
17.5°	397.6	248.9	118.4	0.0
15°	403.7	251.9	124.4	0.0
12.5°	406.7	255.0	124.4	0.0
10°	412.8	261.0	124.4	0.0
7.5°	418.9	261.0	124.4	0.0
5°	418.9	261.0	124.4	0.0
2.5°	418.9	261.0	124.4	0.0
0°	418.9	261.0	124.4	0.0

(END OF REPORT)