

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: P623682

Luminaire Tested: **IFLD-M-SA4B-740-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623682
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	23814.2 lumens	Max Intensity:	29101.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	143.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	11836.2 lumens	Field Lumens:	15393.4 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

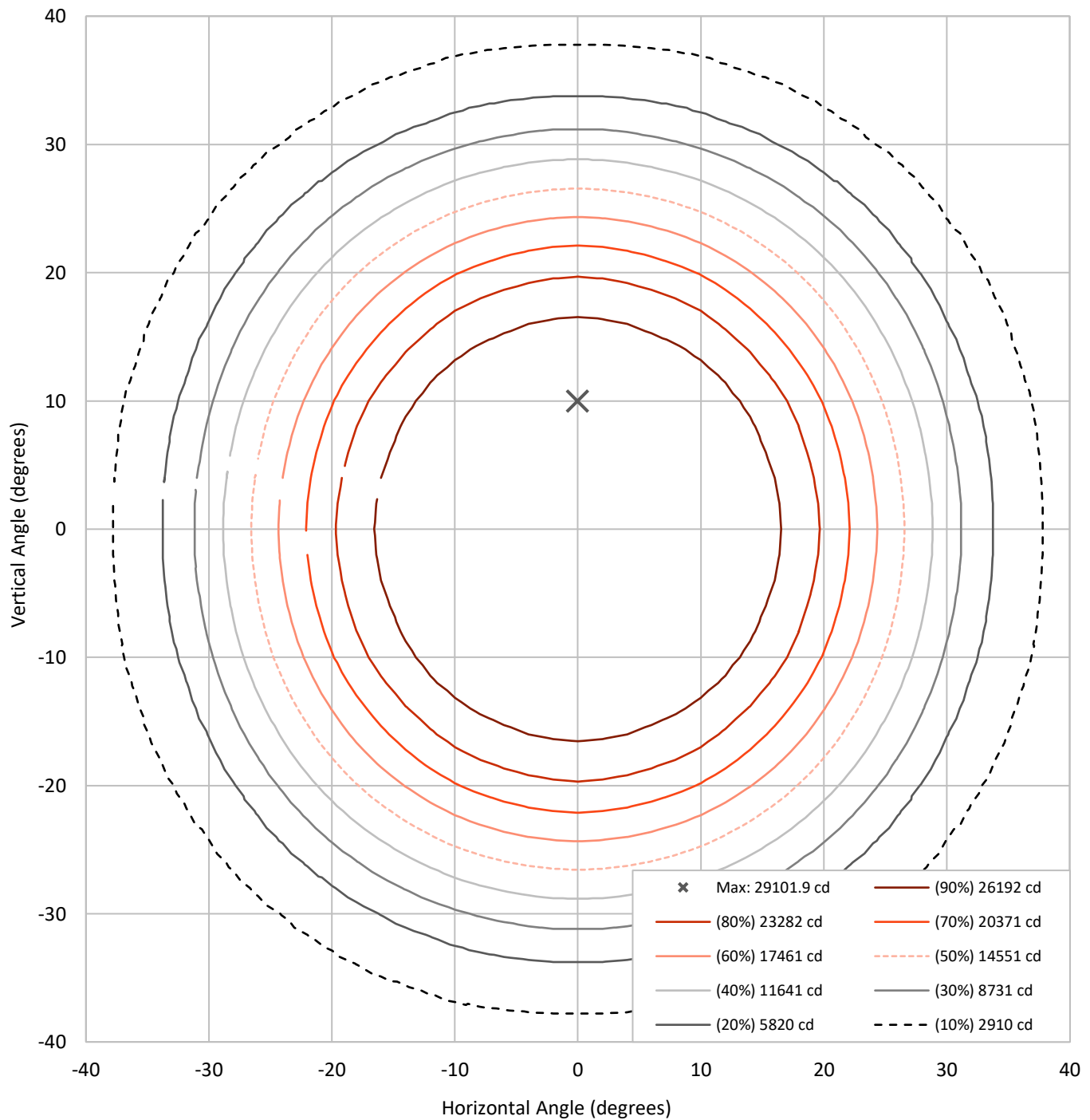
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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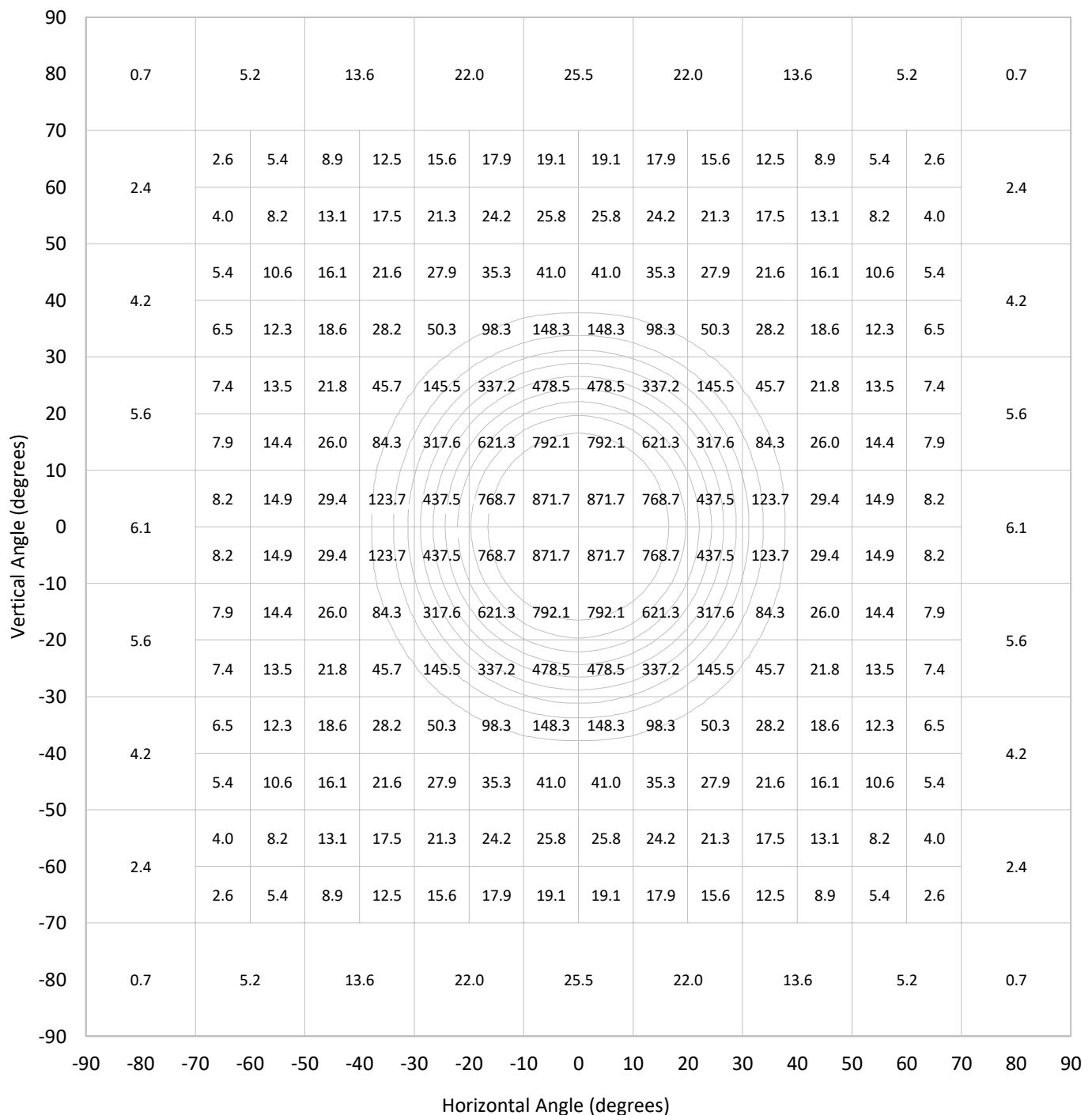
Iso-Candela Plot





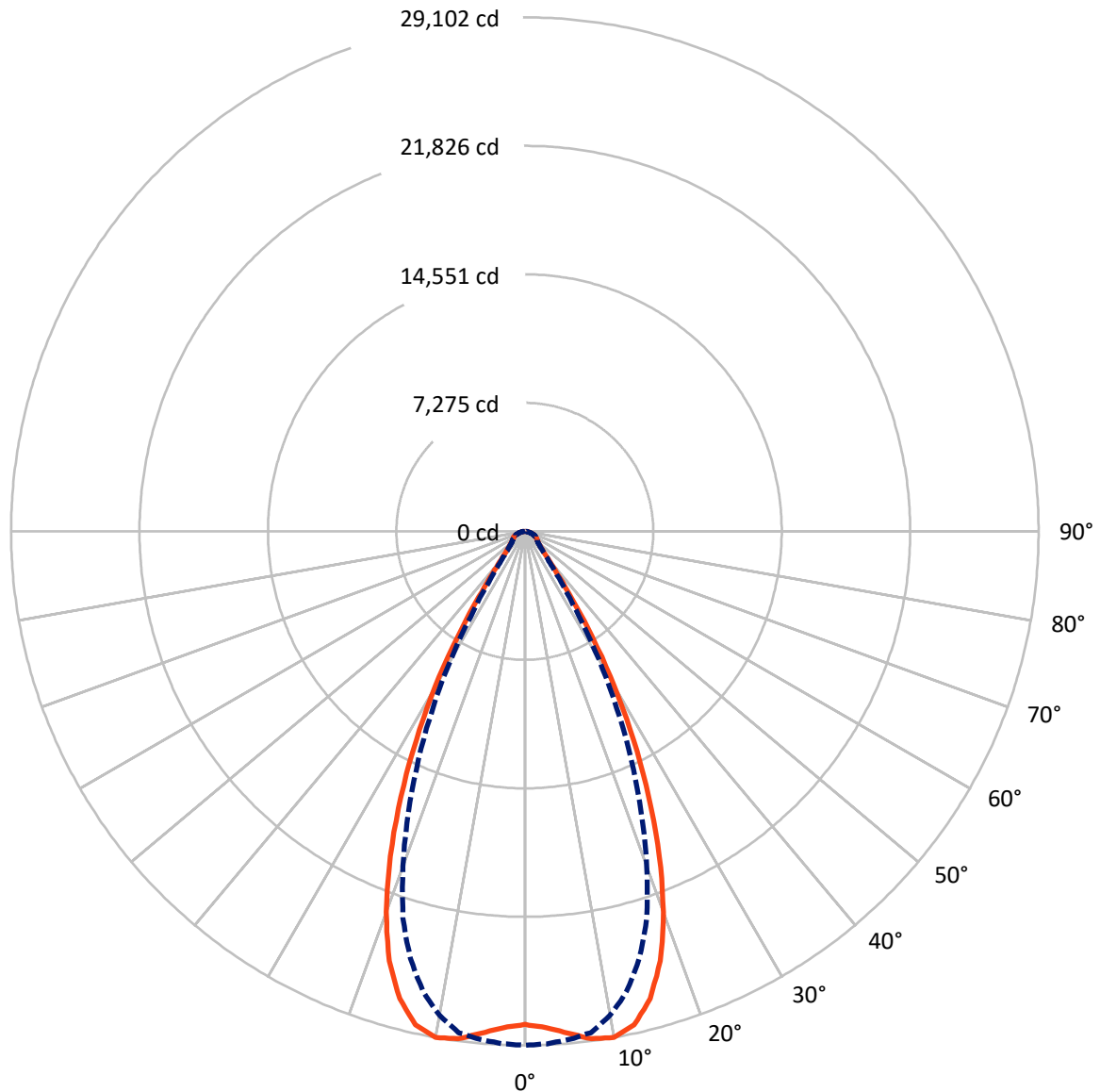
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Lumen Table



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Luminous Intensity Polar Plot

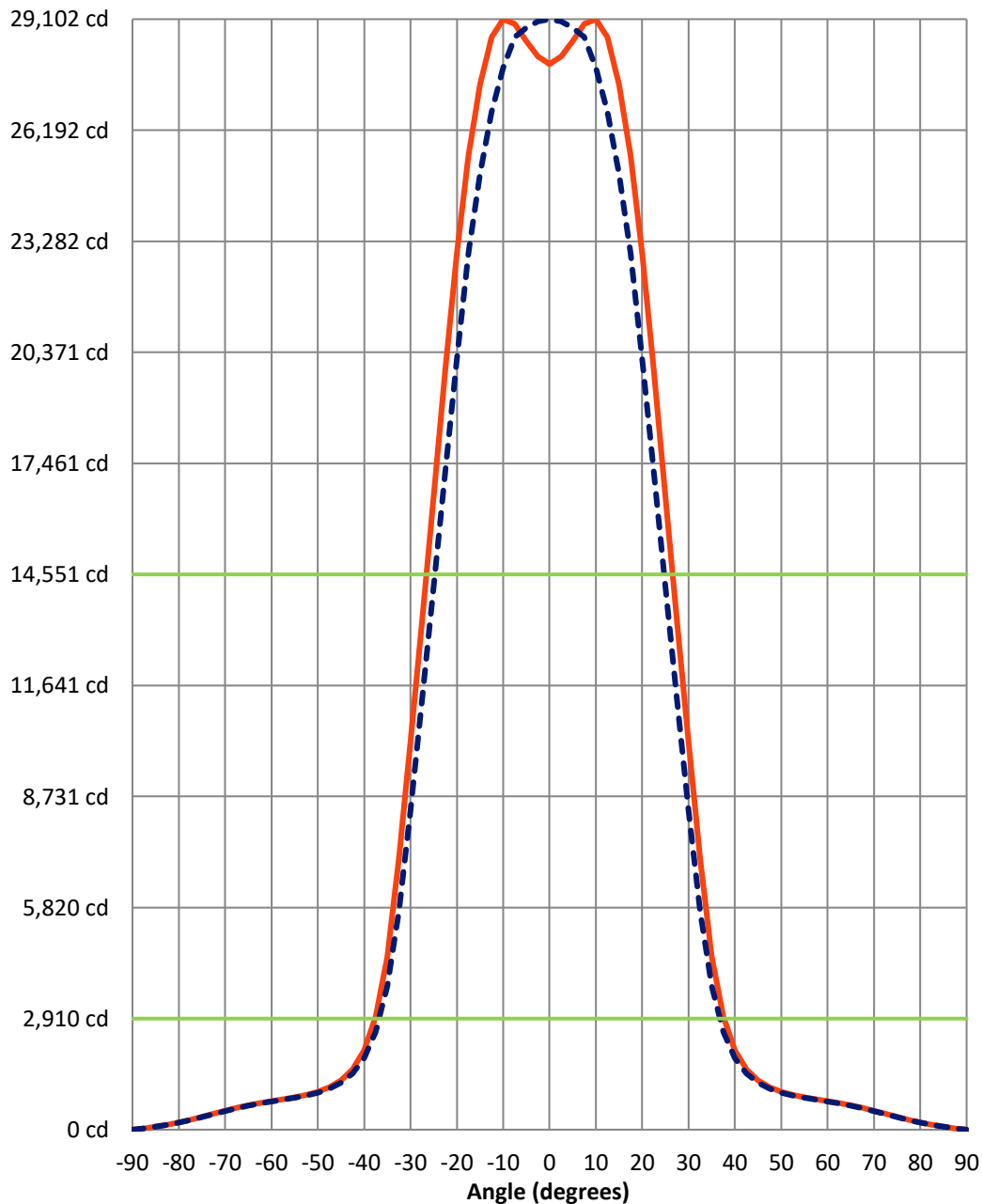


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 11836.2
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 15393.4
Efficiency: 64.6%

Spill:

Lumens: 8420.8
Efficiency: 35.4%

— Vertical Distribution through 0-Deg

- - - Horizontal Distribution through 10-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°	32.2	32.2	32.2	32.2	32.2	32.2	32.2	29.7	29.7	29.7	29.7
85°	79.2	79.2	79.2	79.2	79.2	76.7	76.7	74.2	74.2	71.7	69.3
82.5°	128.6	128.6	128.6	128.6	126.2	126.2	123.7	121.2	118.7	116.3	113.8
80°	188.0	188.0	188.0	188.0	185.5	183.1	180.6	178.1	173.2	170.7	165.7
77.5°	257.3	257.3	257.3	254.8	252.3	249.9	244.9	240.0	235.0	230.1	225.1
75°	336.4	336.4	336.4	331.5	329.0	324.1	319.1	314.2	306.8	299.3	291.9
72.5°	418.1	418.1	418.1	413.1	408.2	403.2	398.3	390.9	383.4	373.5	363.6
70°	494.8	494.8	494.8	489.8	484.9	479.9	472.5	465.1	455.2	445.3	435.4
67.5°	573.9	573.9	573.9	566.5	561.6	556.6	549.2	539.3	529.4	517.0	504.7
65°	638.2	638.2	635.8	633.3	628.3	620.9	616.0	606.1	596.2	586.3	573.9
62.5°	697.6	697.6	695.1	692.7	687.7	680.3	672.9	665.5	655.6	643.2	630.8
60°	747.1	747.1	744.6	742.1	737.2	732.2	724.8	717.4	707.5	697.6	685.2
57.5°	796.6	796.6	794.1	791.6	786.7	779.2	771.8	764.4	754.5	742.1	729.8
55°	848.5	848.5	846.0	841.1	836.1	828.7	821.3	811.4	799.0	786.7	774.3
52.5°	910.4	910.4	905.4	900.5	893.0	885.6	873.3	860.9	846.0	831.2	816.4
50°	992.0	992.0	987.0	979.6	967.3	954.9	940.0	920.3	902.9	883.1	863.4
47.5°	1113.2	1113.2	1103.3	1090.9	1073.6	1053.8	1026.6	996.9	972.2	947.5	917.8
45°	1291.3	1291.3	1276.5	1256.7	1229.5	1194.8	1155.3	1113.2	1071.2	1029.1	987.0
42.5°	1580.8	1580.8	1553.6	1518.9	1471.9	1412.5	1338.3	1269.1	1209.7	1142.9	1086.0
40°	2080.5	2080.5	2028.5	1964.2	1875.1	1761.4	1625.3	1516.4	1412.5	1296.3	1217.1
37.5°	2968.6	2968.6	2867.1	2743.5	2570.3	2352.6	2090.4	1914.7	1721.8	1538.7	1405.1
35°	4537.0	4537.0	4341.5	4101.6	3767.6	3347.1	2899.3	2567.8	2199.2	1917.2	1667.3
32.5°	7109.7	7109.7	6758.4	6325.5	5729.3	4974.8	4257.4	3626.6	2968.6	2501.0	2050.8
30°	10167.4	10167.4	9707.2	9140.7	8363.9	7384.3	6362.6	5242.0	4203.0	3369.3	2689.0
27.5°	13328.9	13197.8	12802.0	12156.3	11270.7	10167.4	8893.3	7446.2	6041.0	4571.6	3599.4
25°	16599.3	16445.9	15993.2	15251.0	14236.8	12987.5	11552.7	9934.8	8200.7	6449.2	4767.0
22.5°	19904.3	19731.1	19216.5	18377.9	17240.0	15839.8	14214.5	12416.0	10479.1	8455.5	6449.2
20°	22959.4	22776.4	22237.1	21363.8	20186.3	18650.0	16844.2	14850.3	12708.0	10479.1	8200.7
17.5°	25517.3	25341.7	24822.2	23988.5	22959.4	21259.9	19382.3	17190.5	14850.3	12416.0	9934.8
15°	27385.1	27234.2	26791.3	26091.3	25042.4	23538.3	21626.0	19382.3	16844.2	14214.5	11552.7
12.5°	28624.4	28503.2	28154.4	27610.2	26670.1	25408.5	23538.3	21259.9	18650.0	15839.8	12987.5
10°	29101.9	29042.5	28879.2	28629.4	27827.9	26670.1	25042.4	22959.4	20186.3	17240.0	14236.8
7.5°	28975.7	28995.5	29052.4	28988.1	28629.4	27610.2	26091.3	23988.5	21363.8	18377.9	15251.0
5°	28525.5	28631.9	28896.6	29052.4	28879.2	28154.4	26791.3	24822.2	22237.1	19216.5	15993.2
2.5°	28124.7	28290.5	28631.9	28995.5	29042.5	28503.2	27234.2	25341.7	22776.4	19731.1	16445.9
0°	27926.8	28124.7	28525.5	28975.7	29101.9	28624.4	27385.1	25517.3	22959.4	19904.3	16599.3

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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°	29.7	27.2	27.2	27.2	24.7	24.7	24.7	22.3	22.3	19.8	19.8
85°	69.3	66.8	64.3	61.8	59.4	56.9	54.4	51.9	49.5	44.5	42.1
82.5°	111.3	108.8	106.4	101.4	99.0	94.0	89.1	84.1	79.2	76.7	71.7
80°	160.8	155.8	150.9	146.0	138.5	131.1	126.2	118.7	113.8	106.4	101.4
77.5°	217.7	210.3	202.9	193.0	185.5	178.1	168.2	160.8	150.9	141.0	131.1
75°	282.0	272.1	259.7	249.9	240.0	227.6	215.2	202.9	190.5	178.1	165.7
72.5°	351.3	338.9	326.5	314.2	299.3	282.0	267.2	249.9	235.0	220.2	202.9
70°	423.0	408.2	393.3	378.5	361.2	341.4	324.1	304.3	284.5	264.7	244.9
67.5°	489.8	475.0	457.7	442.8	423.0	403.2	381.0	358.7	336.4	311.7	287.0
65°	559.1	541.8	522.0	502.2	482.4	460.1	437.9	415.6	388.4	361.2	336.4
62.5°	616.0	601.1	583.8	564.0	541.8	517.0	494.8	465.1	437.9	410.7	378.5
60°	670.4	653.1	638.2	616.0	596.2	573.9	546.7	517.0	487.3	455.2	425.5
57.5°	717.4	702.6	685.2	665.5	643.2	620.9	596.2	569.0	534.3	502.2	467.5
55°	759.5	742.1	724.8	707.5	687.7	663.0	638.2	611.0	581.3	546.7	509.6
52.5°	801.5	784.2	764.4	747.1	724.8	702.6	677.8	650.6	620.9	588.8	549.2
50°	843.6	823.8	804.0	781.7	759.5	737.2	712.5	687.7	655.6	623.4	588.8
47.5°	893.0	868.3	843.6	818.8	796.6	769.4	744.6	717.4	690.2	655.6	620.9
45°	954.9	917.8	888.1	858.4	831.2	804.0	774.3	747.1	717.4	687.7	650.6
42.5°	1031.6	982.1	942.5	902.9	868.3	836.1	806.5	774.3	744.6	712.5	677.8
40°	1135.5	1068.7	1004.4	954.9	910.4	870.8	836.1	804.0	769.4	737.2	702.6
37.5°	1271.5	1177.5	1088.5	1016.7	959.8	910.4	868.3	831.2	796.6	759.5	724.8
35°	1476.9	1313.6	1199.8	1095.9	1016.7	954.9	902.9	858.4	818.8	781.7	747.1
32.5°	1766.3	1514.0	1330.9	1199.8	1088.5	1004.4	942.5	888.1	843.6	804.0	764.4
30°	2147.3	1798.5	1514.0	1313.6	1177.5	1068.7	982.1	917.8	868.3	823.8	784.2
27.5°	2750.9	2147.3	1766.3	1476.9	1271.5	1135.5	1031.6	954.9	893.0	843.6	801.5
25°	3599.4	2689.0	2050.8	1667.3	1405.1	1217.1	1086.0	987.0	917.8	863.4	816.4
22.5°	4571.6	3369.3	2501.0	1917.2	1538.7	1296.3	1142.9	1029.1	947.5	883.1	831.2
20°	6041.0	4203.0	2968.6	2199.2	1721.8	1412.5	1209.7	1071.2	972.2	902.9	846.0
17.5°	7446.2	5242.0	3626.6	2567.8	1914.7	1516.4	1269.1	1113.2	996.9	920.3	860.9
15°	8893.3	6362.6	4257.4	2899.3	2090.4	1625.3	1338.3	1155.3	1026.6	940.0	873.3
12.5°	10167.4	7384.3	4974.8	3347.1	2352.6	1761.4	1412.5	1194.8	1053.8	954.9	885.6
10°	11270.7	8363.9	5729.3	3767.6	2570.3	1875.1	1471.9	1229.5	1073.6	967.3	893.0
7.5°	12156.3	9140.7	6325.5	4101.6	2743.5	1964.2	1518.9	1256.7	1090.9	979.6	900.5
5°	12802.0	9707.2	6758.4	4341.5	2867.1	2028.5	1553.6	1276.5	1103.3	987.0	905.4
2.5°	13197.8	10167.4	7109.7	4537.0	2968.6	2080.5	1580.8	1291.3	1113.2	992.0	910.4
0°	13328.9	10167.4	7109.7	4537.0	2968.6	2080.5	1580.8	1291.3	1113.2	992.0	910.4

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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°	17.3	17.3	14.8	14.8	12.4	12.4	9.9	9.9	7.4	7.4	4.9
85°	39.6	34.6	32.2	29.7	27.2	24.7	22.3	19.8	17.3	14.8	12.4
82.5°	66.8	61.8	54.4	49.5	44.5	39.6	32.2	29.7	24.7	19.8	17.3
80°	94.0	86.6	79.2	71.7	64.3	56.9	49.5	42.1	34.6	27.2	22.3
77.5°	121.2	111.3	103.9	94.0	84.1	74.2	64.3	54.4	44.5	34.6	27.2
75°	153.4	141.0	128.6	116.3	103.9	91.5	81.6	69.3	56.9	44.5	34.6
72.5°	188.0	170.7	155.8	141.0	123.7	111.3	96.5	84.1	69.3	54.4	42.1
70°	225.1	205.3	185.5	165.7	148.4	128.6	113.8	96.5	81.6	64.3	49.5
67.5°	262.2	240.0	217.7	193.0	170.7	150.9	128.6	111.3	91.5	74.2	56.9
65°	306.8	277.1	249.9	222.6	195.4	170.7	148.4	123.7	103.9	84.1	64.3
62.5°	348.8	316.6	284.5	252.3	222.6	193.0	165.7	141.0	116.3	94.0	71.7
60°	390.9	356.2	319.1	284.5	249.9	217.7	185.5	155.8	128.6	103.9	79.2
57.5°	432.9	393.3	356.2	316.6	277.1	240.0	205.3	170.7	141.0	111.3	86.6
55°	470.0	432.9	390.9	348.8	306.8	262.2	225.1	188.0	153.4	121.2	94.0
52.5°	509.6	467.5	425.5	378.5	336.4	287.0	244.9	202.9	165.7	131.1	101.4
50°	546.7	502.2	455.2	410.7	361.2	311.7	264.7	220.2	178.1	141.0	106.4
47.5°	581.3	534.3	487.3	437.9	388.4	336.4	284.5	235.0	190.5	150.9	113.8
45°	611.0	569.0	517.0	465.1	415.6	358.7	304.3	249.9	202.9	160.8	118.7
42.5°	638.2	596.2	546.7	494.8	437.9	381.0	324.1	267.2	215.2	168.2	126.2
40°	663.0	620.9	573.9	517.0	460.1	403.2	341.4	282.0	227.6	178.1	131.1
37.5°	687.7	643.2	596.2	541.8	482.4	423.0	361.2	299.3	240.0	185.5	138.5
35°	707.5	665.5	616.0	564.0	502.2	442.8	378.5	314.2	249.9	193.0	146.0
32.5°	724.8	685.2	638.2	583.8	522.0	457.7	393.3	326.5	259.7	202.9	150.9
30°	742.1	702.6	653.1	601.1	541.8	475.0	408.2	338.9	272.1	210.3	155.8
27.5°	759.5	717.4	670.4	616.0	559.1	489.8	423.0	351.3	282.0	217.7	160.8
25°	774.3	729.8	685.2	630.8	573.9	504.7	435.4	363.6	291.9	225.1	165.7
22.5°	786.7	742.1	697.6	643.2	586.3	517.0	445.3	373.5	299.3	230.1	170.7
20°	799.0	754.5	707.5	655.6	596.2	529.4	455.2	383.4	306.8	235.0	173.2
17.5°	811.4	764.4	717.4	665.5	606.1	539.3	465.1	390.9	314.2	240.0	178.1
15°	821.3	771.8	724.8	672.9	616.0	549.2	472.5	398.3	319.1	244.9	180.6
12.5°	828.7	779.2	732.2	680.3	620.9	556.6	479.9	403.2	324.1	249.9	183.1
10°	836.1	786.7	737.2	687.7	628.3	561.6	484.9	408.2	329.0	252.3	185.5
7.5°	841.1	791.6	742.1	692.7	633.3	566.5	489.8	413.1	331.5	254.8	188.0
5°	846.0	794.1	744.6	695.1	635.8	573.9	494.8	418.1	336.4	257.3	188.0
2.5°	848.5	796.6	747.1	697.6	638.2	573.9	494.8	418.1	336.4	257.3	188.0
0°	848.5	796.6	747.1	697.6	638.2	573.9	494.8	418.1	336.4	257.3	188.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.9	2.5	2.5	0.0
85°	7.4	4.9	2.5	0.0
82.5°	12.4	7.4	4.9	0.0
80°	17.3	12.4	4.9	0.0
77.5°	19.8	14.8	7.4	0.0
75°	24.7	17.3	7.4	0.0
72.5°	29.7	19.8	9.9	0.0
70°	32.2	22.3	9.9	0.0
67.5°	39.6	24.7	12.4	0.0
65°	44.5	27.2	12.4	0.0
62.5°	49.5	29.7	14.8	0.0
60°	54.4	32.2	14.8	0.0
57.5°	61.8	34.6	17.3	0.0
55°	66.8	39.6	17.3	0.0
52.5°	71.7	42.1	19.8	0.0
50°	76.7	44.5	19.8	0.0
47.5°	79.2	49.5	22.3	0.0
45°	84.1	51.9	22.3	0.0
42.5°	89.1	54.4	24.7	0.0
40°	94.0	56.9	24.7	0.0
37.5°	99.0	59.4	24.7	0.0
35°	101.4	61.8	27.2	0.0
32.5°	106.4	64.3	27.2	0.0
30°	108.8	66.8	27.2	0.0
27.5°	111.3	69.3	29.7	0.0
25°	113.8	69.3	29.7	0.0
22.5°	116.3	71.7	29.7	0.0
20°	118.7	74.2	29.7	0.0
17.5°	121.2	74.2	29.7	0.0
15°	123.7	76.7	32.2	0.0
12.5°	126.2	76.7	32.2	0.0
10°	126.2	79.2	32.2	0.0
7.5°	128.6	79.2	32.2	0.0
5°	128.6	79.2	32.2	0.0
2.5°	128.6	79.2	32.2	0.0
0°	128.6	79.2	32.2	0.0

(END OF REPORT)