

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: P623567

Luminaire Tested: **IFLD-M-SA4C-722-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623567
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	21836.5 lumens	Max Intensity:	26685.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	100.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

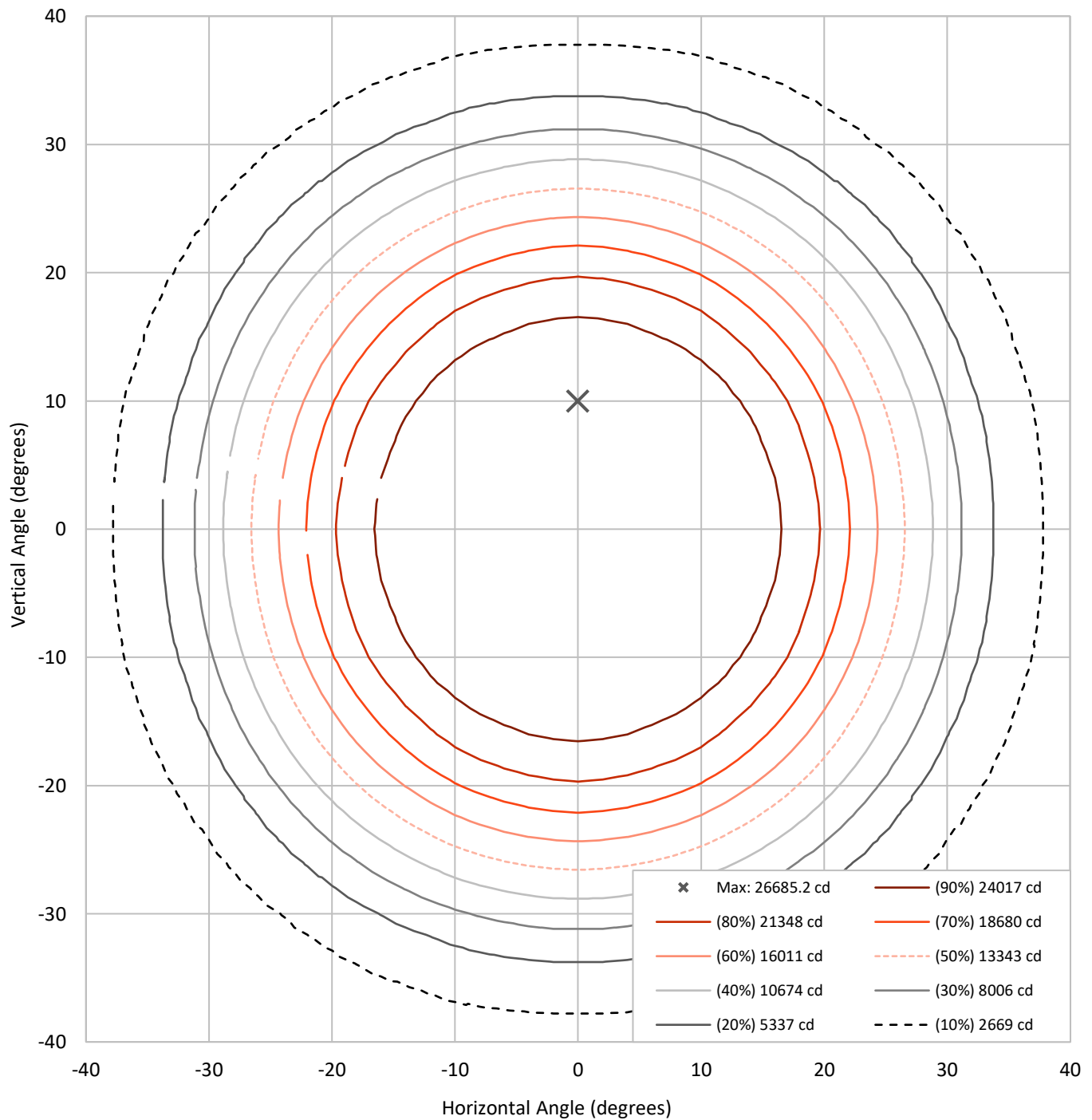
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	10853.3 lumens	Field Lumens:	14115.1 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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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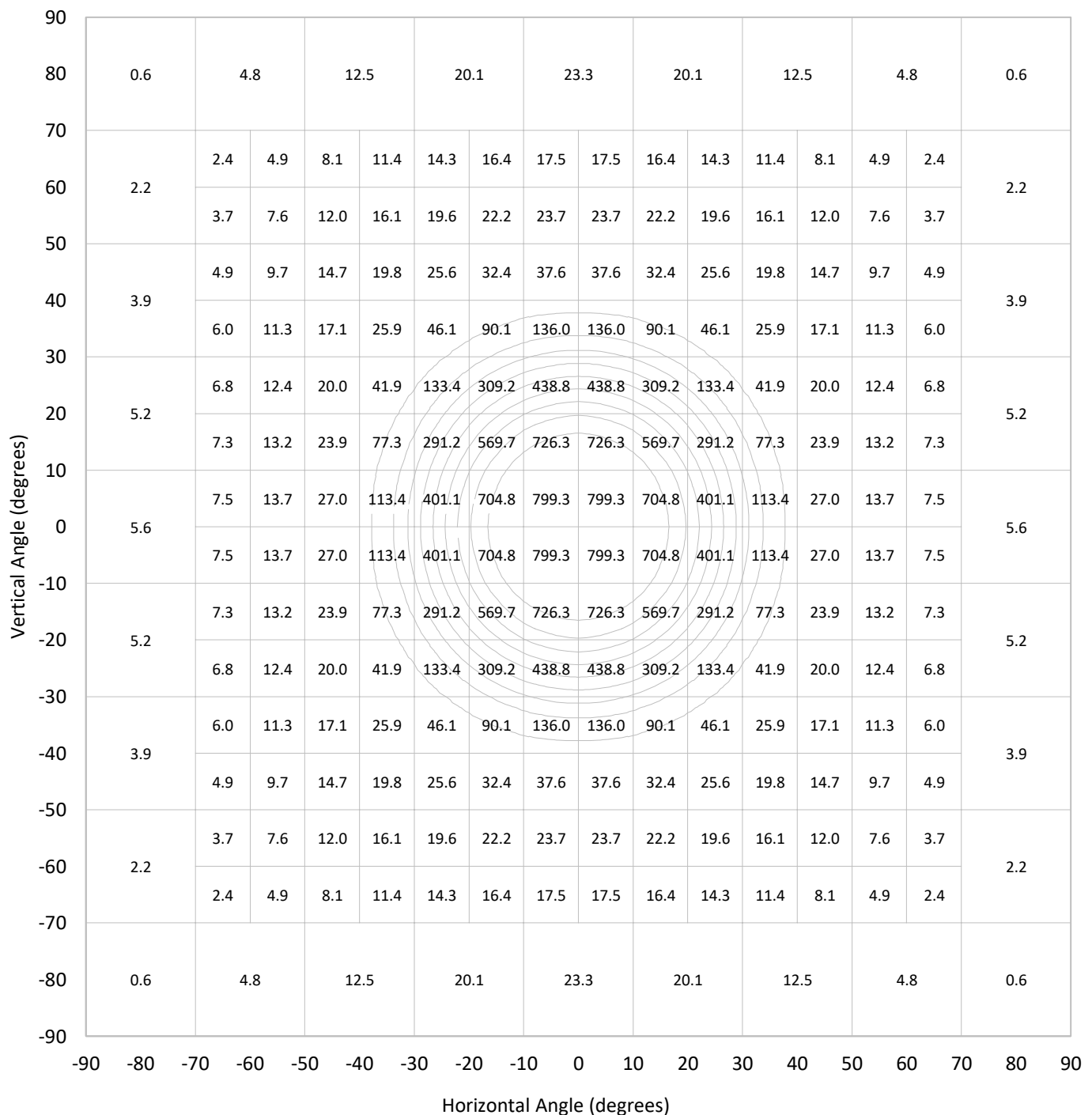
Iso-Candela Plot





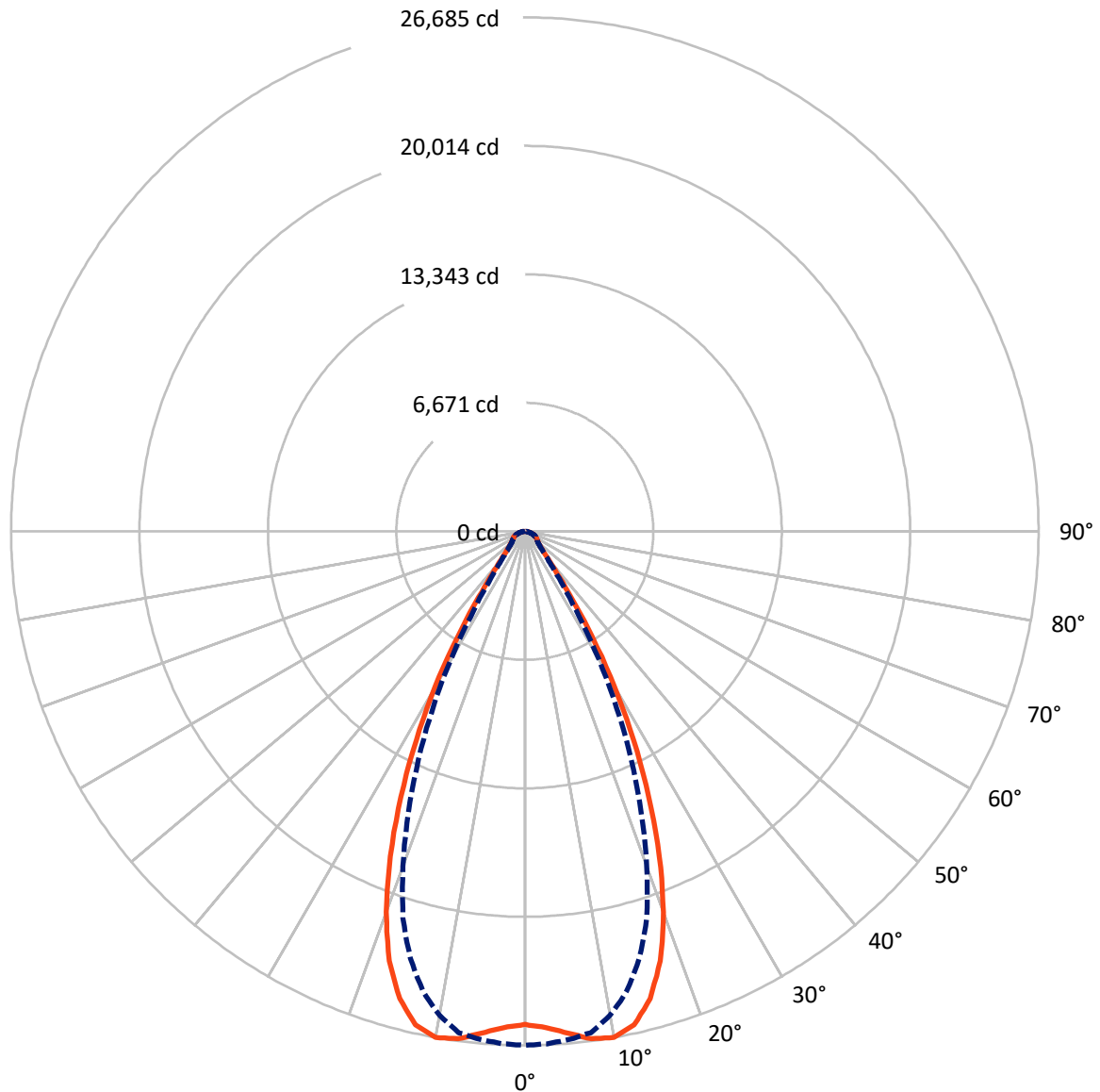
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Lumen Table



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Luminous Intensity Polar Plot

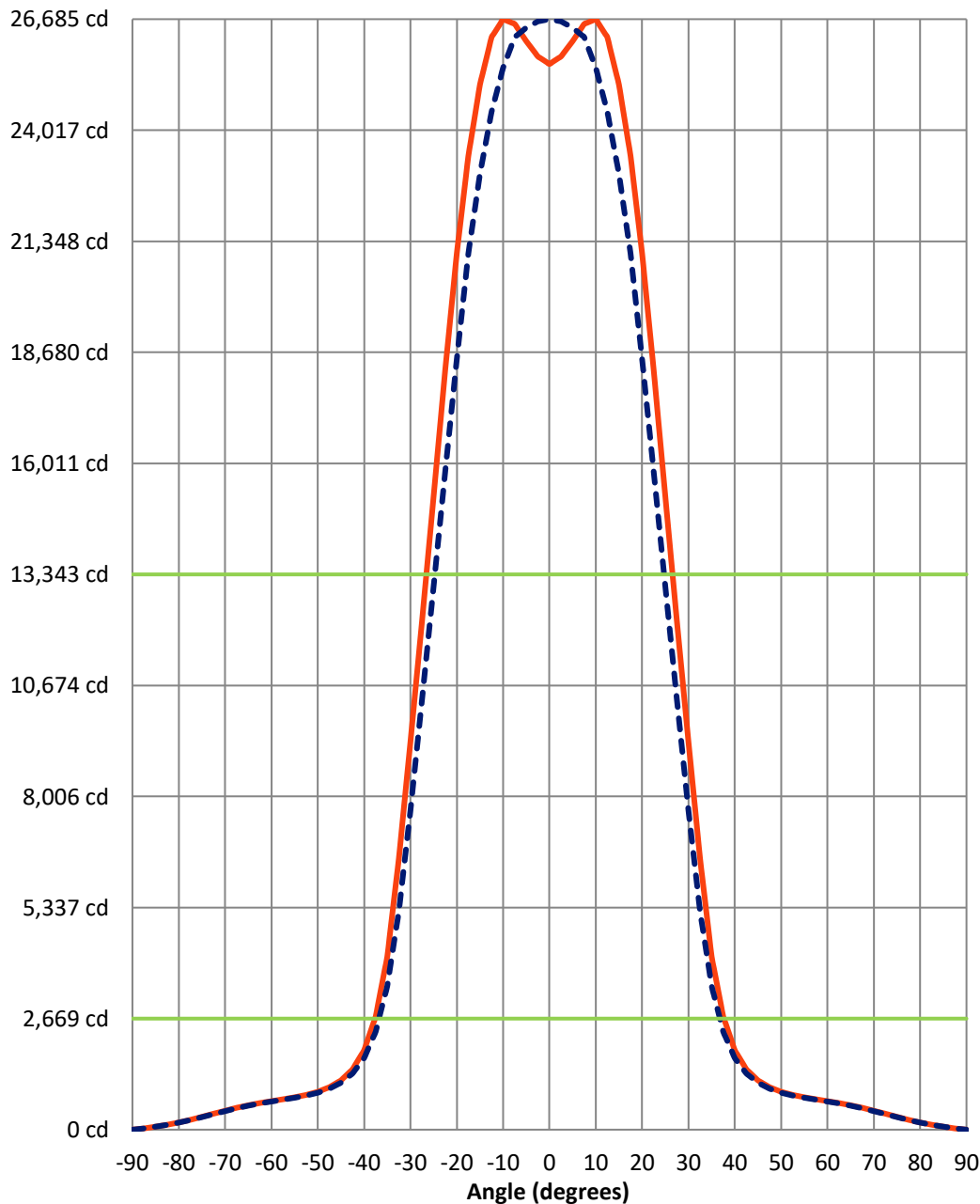


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 10853.3
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 14115.1
Efficiency: 64.6%

Spill:

Lumens: 7721.5
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°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	27.2	27.2	27.2	27.2
85°	72.6	72.6	72.6	72.6	72.6	70.3	70.3	68.1	68.1	65.8	63.5
82.5°	118.0	118.0	118.0	118.0	115.7	115.7	113.4	111.2	108.9	106.6	104.3
80°	172.4	172.4	172.4	172.4	170.1	167.9	165.6	163.3	158.8	156.5	152.0
77.5°	235.9	235.9	235.9	233.6	231.4	229.1	224.6	220.0	215.5	211.0	206.4
75°	308.5	308.5	308.5	304.0	301.7	297.2	292.6	288.1	281.3	274.5	267.7
72.5°	383.4	383.4	383.4	378.8	374.3	369.7	365.2	358.4	351.6	342.5	333.5
70°	453.7	453.7	453.7	449.1	444.6	440.1	433.3	426.5	417.4	408.3	399.2
67.5°	526.3	526.3	526.3	519.5	514.9	510.4	503.6	494.5	485.4	474.1	462.7
65°	585.2	585.2	583.0	580.7	576.2	569.4	564.8	555.8	546.7	537.6	526.3
62.5°	639.7	639.7	637.4	635.1	630.6	623.8	617.0	610.2	601.1	589.8	578.4
60°	685.0	685.0	682.8	680.5	676.0	671.4	664.6	657.8	648.8	639.7	628.3
57.5°	730.4	730.4	728.1	725.9	721.3	714.5	707.7	700.9	691.9	680.5	669.2
55°	778.1	778.1	775.8	771.2	766.7	759.9	753.1	744.0	732.7	721.3	710.0
52.5°	834.8	834.8	830.2	825.7	818.9	812.1	800.7	789.4	775.8	762.2	748.6
50°	909.6	909.6	905.1	898.3	886.9	875.6	862.0	843.8	828.0	809.8	791.7
47.5°	1020.8	1020.8	1011.7	1000.4	984.5	966.3	941.4	914.2	891.5	868.8	841.6
45°	1184.1	1184.1	1170.5	1152.3	1127.4	1095.6	1059.3	1020.8	982.2	943.6	905.1
42.5°	1449.5	1449.5	1424.5	1392.8	1349.7	1295.2	1227.2	1163.7	1109.2	1048.0	995.8
40°	1907.7	1907.7	1860.1	1801.1	1719.4	1615.1	1490.3	1390.5	1295.2	1188.6	1116.0
37.5°	2722.0	2722.0	2629.0	2515.6	2356.8	2157.2	1916.8	1755.7	1578.8	1410.9	1288.4
35°	4160.2	4160.2	3981.0	3761.0	3454.7	3069.1	2658.5	2354.6	2016.6	1758.0	1528.9
32.5°	6519.3	6519.3	6197.2	5800.2	5253.6	4561.7	3903.9	3325.4	2722.0	2293.3	1880.5
30°	9323.0	9323.0	8901.1	8381.6	7669.4	6771.1	5834.3	4806.7	3854.0	3089.5	2465.7
27.5°	12222.0	12101.8	11738.8	11146.8	10334.7	9323.0	8154.8	6827.8	5539.4	4192.0	3300.5
25°	15220.8	15080.2	14665.0	13984.5	13054.5	11909.0	10593.3	9109.8	7519.7	5913.7	4371.2
22.5°	18251.3	18092.6	17620.7	16851.8	15808.3	14524.4	13034.1	11385.0	9608.8	7753.3	5913.7
20°	21052.8	20884.9	20390.4	19589.7	18509.9	17101.3	15445.4	13617.1	11652.6	9608.8	7519.7
17.5°	23398.3	23237.2	22760.9	21996.4	21052.8	19494.4	17772.7	15762.9	13617.1	11385.0	9109.8
15°	25110.9	24972.5	24566.5	23924.5	22962.8	21583.6	19830.1	17772.7	15445.4	13034.1	10593.3
12.5°	26247.4	26136.2	25816.4	25317.3	24455.3	23298.5	21583.6	19494.4	17101.3	14524.4	11909.0
10°	26685.2	26630.7	26481.0	26251.9	25516.9	24455.3	22962.8	21052.8	18509.9	15808.3	13054.5
7.5°	26569.5	26587.6	26639.8	26580.8	26251.9	25317.3	23924.5	21996.4	19589.7	16851.8	13984.5
5°	26156.6	26254.2	26496.9	26639.8	26481.0	25816.4	24566.5	22760.9	20390.4	17620.7	14665.0
2.5°	25789.1	25941.1	26254.2	26587.6	26630.7	26136.2	24972.5	23237.2	20884.9	18092.6	15080.2
0°	25607.7	25789.1	26156.6	26569.5	26685.2	26247.4	25110.9	23398.3	21052.8	18251.3	15220.8

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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°	27.2	25.0	25.0	25.0	22.7	22.7	22.7	20.4	20.4	18.1	18.1
85°	63.5	61.2	59.0	56.7	54.4	52.2	49.9	47.6	45.4	40.8	38.6
82.5°	102.1	99.8	97.5	93.0	90.7	86.2	81.7	77.1	72.6	70.3	65.8
80°	147.4	142.9	138.4	133.8	127.0	120.2	115.7	108.9	104.3	97.5	93.0
77.5°	199.6	192.8	186.0	176.9	170.1	163.3	154.2	147.4	138.4	129.3	120.2
75°	258.6	249.5	238.2	229.1	220.0	208.7	197.3	186.0	174.7	163.3	152.0
72.5°	322.1	310.8	299.4	288.1	274.5	258.6	245.0	229.1	215.5	201.9	186.0
70°	387.9	374.3	360.7	347.1	331.2	313.0	297.2	279.0	260.9	242.7	224.6
67.5°	449.1	435.5	419.6	406.0	387.9	369.7	349.3	328.9	308.5	285.8	263.1
65°	512.7	496.8	478.6	460.5	442.3	421.9	401.5	381.1	356.1	331.2	308.5
62.5°	564.8	551.2	535.3	517.2	496.8	474.1	453.7	426.5	401.5	376.6	347.1
60°	614.7	598.9	585.2	564.8	546.7	526.3	501.3	474.1	446.9	417.4	390.2
57.5°	657.8	644.2	628.3	610.2	589.8	569.4	546.7	521.7	490.0	460.5	428.7
55°	696.4	680.5	664.6	648.8	630.6	607.9	585.2	560.3	533.1	501.3	467.3
52.5°	735.0	719.1	700.9	685.0	664.6	644.2	621.5	596.6	569.4	539.9	503.6
50°	773.5	755.4	737.2	716.8	696.4	676.0	653.3	630.6	601.1	571.6	539.9
47.5°	818.9	796.2	773.5	750.8	730.4	705.5	682.8	657.8	632.9	601.1	569.4
45°	875.6	841.6	814.3	787.1	762.2	737.2	710.0	685.0	657.8	630.6	596.6
42.5°	945.9	900.5	864.3	828.0	796.2	766.7	739.5	710.0	682.8	653.3	621.5
40°	1041.2	979.9	921.0	875.6	834.8	798.5	766.7	737.2	705.5	676.0	644.2
37.5°	1165.9	1079.7	998.1	932.3	880.1	834.8	796.2	762.2	730.4	696.4	664.6
35°	1354.2	1204.5	1100.2	1004.9	932.3	875.6	828.0	787.1	750.8	716.8	685.0
32.5°	1619.6	1388.2	1220.4	1100.2	998.1	921.0	864.3	814.3	773.5	737.2	700.9
30°	1968.9	1649.1	1388.2	1204.5	1079.7	979.9	900.5	841.6	796.2	755.4	719.1
27.5°	2522.4	1968.9	1619.6	1354.2	1165.9	1041.2	945.9	875.6	818.9	773.5	735.0
25°	3300.5	2465.7	1880.5	1528.9	1288.4	1116.0	995.8	905.1	841.6	791.7	748.6
22.5°	4192.0	3089.5	2293.3	1758.0	1410.9	1188.6	1048.0	943.6	868.8	809.8	762.2
20°	5539.4	3854.0	2722.0	2016.6	1578.8	1295.2	1109.2	982.2	891.5	828.0	775.8
17.5°	6827.8	4806.7	3325.4	2354.6	1755.7	1390.5	1163.7	1020.8	914.2	843.8	789.4
15°	8154.8	5834.3	3903.9	2658.5	1916.8	1490.3	1227.2	1059.3	941.4	862.0	800.7
12.5°	9323.0	6771.1	4561.7	3069.1	2157.2	1615.1	1295.2	1095.6	966.3	875.6	812.1
10°	10334.7	7669.4	5253.6	3454.7	2356.8	1719.4	1349.7	1127.4	984.5	886.9	818.9
7.5°	11146.8	8381.6	5800.2	3761.0	2515.6	1801.1	1392.8	1152.3	1000.4	898.3	825.7
5°	11738.8	8901.1	6197.2	3981.0	2629.0	1860.1	1424.5	1170.5	1011.7	905.1	830.2
2.5°	12101.8	9323.0	6519.3	4160.2	2722.0	1907.7	1449.5	1184.1	1020.8	909.6	834.8
0°	12222.0	9323.0	6519.3	4160.2	2722.0	1907.7	1449.5	1184.1	1020.8	909.6	834.8

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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°	15.9	15.9	13.6	13.6	11.3	11.3	9.1	9.1	6.8	6.8	4.5
85°	36.3	31.8	29.5	27.2	25.0	22.7	20.4	18.1	15.9	13.6	11.3
82.5°	61.2	56.7	49.9	45.4	40.8	36.3	29.5	27.2	22.7	18.1	15.9
80°	86.2	79.4	72.6	65.8	59.0	52.2	45.4	38.6	31.8	25.0	20.4
77.5°	111.2	102.1	95.3	86.2	77.1	68.1	59.0	49.9	40.8	31.8	25.0
75°	140.6	129.3	118.0	106.6	95.3	83.9	74.9	63.5	52.2	40.8	31.8
72.5°	172.4	156.5	142.9	129.3	113.4	102.1	88.5	77.1	63.5	49.9	38.6
70°	206.4	188.3	170.1	152.0	136.1	118.0	104.3	88.5	74.9	59.0	45.4
67.5°	240.4	220.0	199.6	176.9	156.5	138.4	118.0	102.1	83.9	68.1	52.2
65°	281.3	254.1	229.1	204.2	179.2	156.5	136.1	113.4	95.3	77.1	59.0
62.5°	319.8	290.4	260.9	231.4	204.2	176.9	152.0	129.3	106.6	86.2	65.8
60°	358.4	326.6	292.6	260.9	229.1	199.6	170.1	142.9	118.0	95.3	72.6
57.5°	397.0	360.7	326.6	290.4	254.1	220.0	188.3	156.5	129.3	102.1	79.4
55°	431.0	397.0	358.4	319.8	281.3	240.4	206.4	172.4	140.6	111.2	86.2
52.5°	467.3	428.7	390.2	347.1	308.5	263.1	224.6	186.0	152.0	120.2	93.0
50°	501.3	460.5	417.4	376.6	331.2	285.8	242.7	201.9	163.3	129.3	97.5
47.5°	533.1	490.0	446.9	401.5	356.1	308.5	260.9	215.5	174.7	138.4	104.3
45°	560.3	521.7	474.1	426.5	381.1	328.9	279.0	229.1	186.0	147.4	108.9
42.5°	585.2	546.7	501.3	453.7	401.5	349.3	297.2	245.0	197.3	154.2	115.7
40°	607.9	569.4	526.3	474.1	421.9	369.7	313.0	258.6	208.7	163.3	120.2
37.5°	630.6	589.8	546.7	496.8	442.3	387.9	331.2	274.5	220.0	170.1	127.0
35°	648.8	610.2	564.8	517.2	460.5	406.0	347.1	288.1	229.1	176.9	133.8
32.5°	664.6	628.3	585.2	535.3	478.6	419.6	360.7	299.4	238.2	186.0	138.4
30°	680.5	644.2	598.9	551.2	496.8	435.5	374.3	310.8	249.5	192.8	142.9
27.5°	696.4	657.8	614.7	564.8	512.7	449.1	387.9	322.1	258.6	199.6	147.4
25°	710.0	669.2	628.3	578.4	526.3	462.7	399.2	333.5	267.7	206.4	152.0
22.5°	721.3	680.5	639.7	589.8	537.6	474.1	408.3	342.5	274.5	211.0	156.5
20°	732.7	691.9	648.8	601.1	546.7	485.4	417.4	351.6	281.3	215.5	158.8
17.5°	744.0	700.9	657.8	610.2	555.8	494.5	426.5	358.4	288.1	220.0	163.3
15°	753.1	707.7	664.6	617.0	564.8	503.6	433.3	365.2	292.6	224.6	165.6
12.5°	759.9	714.5	671.4	623.8	569.4	510.4	440.1	369.7	297.2	229.1	167.9
10°	766.7	721.3	676.0	630.6	576.2	514.9	444.6	374.3	301.7	231.4	170.1
7.5°	771.2	725.9	680.5	635.1	580.7	519.5	449.1	378.8	304.0	233.6	172.4
5°	775.8	728.1	682.8	637.4	583.0	526.3	453.7	383.4	308.5	235.9	172.4
2.5°	778.1	730.4	685.0	639.7	585.2	526.3	453.7	383.4	308.5	235.9	172.4
0°	778.1	730.4	685.0	639.7	585.2	526.3	453.7	383.4	308.5	235.9	172.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.5	2.3	2.3	0.0
85°	6.8	4.5	2.3	0.0
82.5°	11.3	6.8	4.5	0.0
80°	15.9	11.3	4.5	0.0
77.5°	18.1	13.6	6.8	0.0
75°	22.7	15.9	6.8	0.0
72.5°	27.2	18.1	9.1	0.0
70°	29.5	20.4	9.1	0.0
67.5°	36.3	22.7	11.3	0.0
65°	40.8	25.0	11.3	0.0
62.5°	45.4	27.2	13.6	0.0
60°	49.9	29.5	13.6	0.0
57.5°	56.7	31.8	15.9	0.0
55°	61.2	36.3	15.9	0.0
52.5°	65.8	38.6	18.1	0.0
50°	70.3	40.8	18.1	0.0
47.5°	72.6	45.4	20.4	0.0
45°	77.1	47.6	20.4	0.0
42.5°	81.7	49.9	22.7	0.0
40°	86.2	52.2	22.7	0.0
37.5°	90.7	54.4	22.7	0.0
35°	93.0	56.7	25.0	0.0
32.5°	97.5	59.0	25.0	0.0
30°	99.8	61.2	25.0	0.0
27.5°	102.1	63.5	27.2	0.0
25°	104.3	63.5	27.2	0.0
22.5°	106.6	65.8	27.2	0.0
20°	108.9	68.1	27.2	0.0
17.5°	111.2	68.1	27.2	0.0
15°	113.4	70.3	29.5	0.0
12.5°	115.7	70.3	29.5	0.0
10°	115.7	72.6	29.5	0.0
7.5°	118.0	72.6	29.5	0.0
5°	118.0	72.6	29.5	0.0
2.5°	118.0	72.6	29.5	0.0
0°	118.0	72.6	29.5	0.0

(END OF REPORT)