

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: P623710

Luminaire Tested: **IFLD-M-SA4A-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623710
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	19696.5 lumens	Max Intensity:	24069.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	153.2 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:	9789.6 lumens	Field Lumens:	12731.7 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

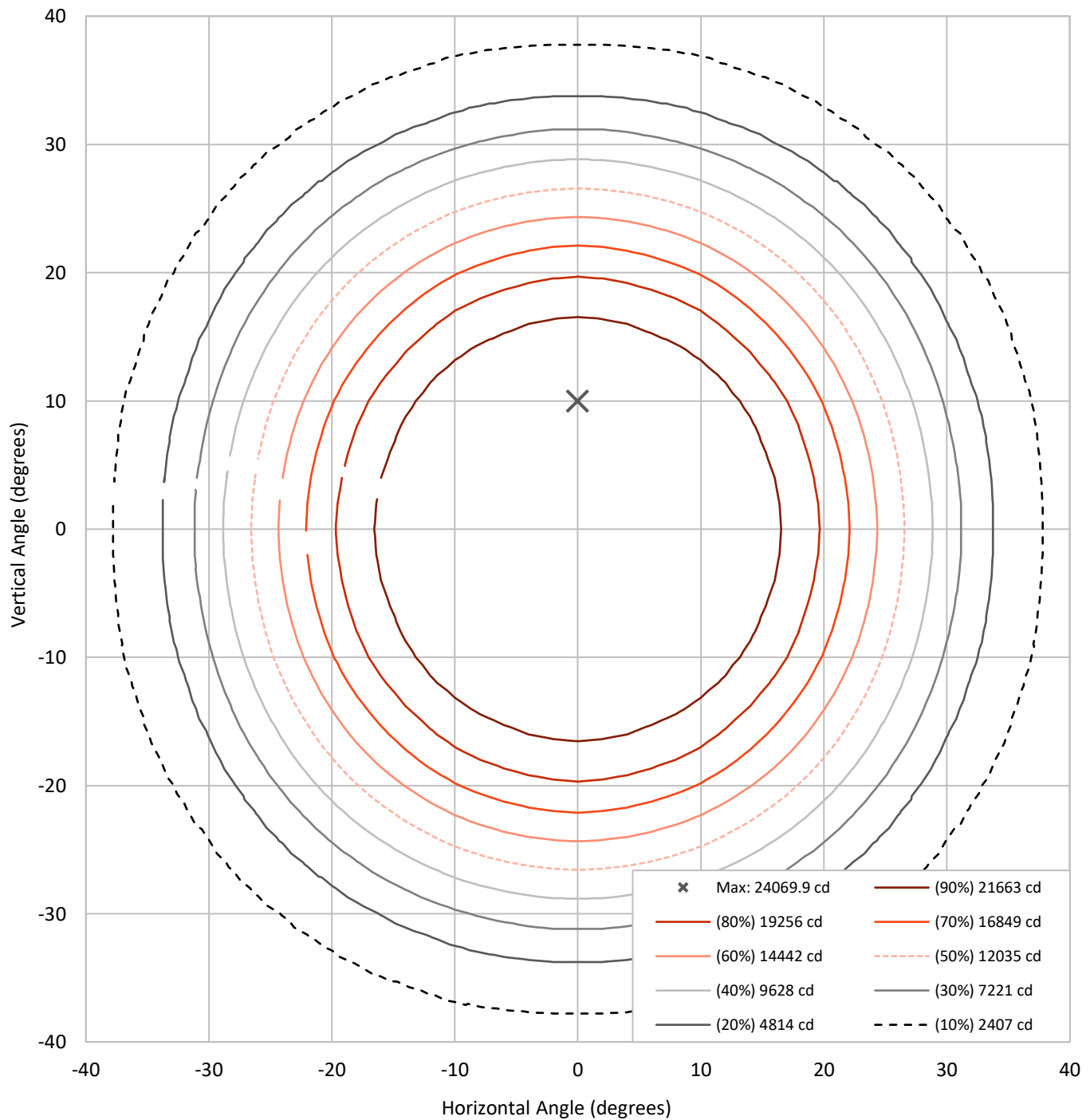
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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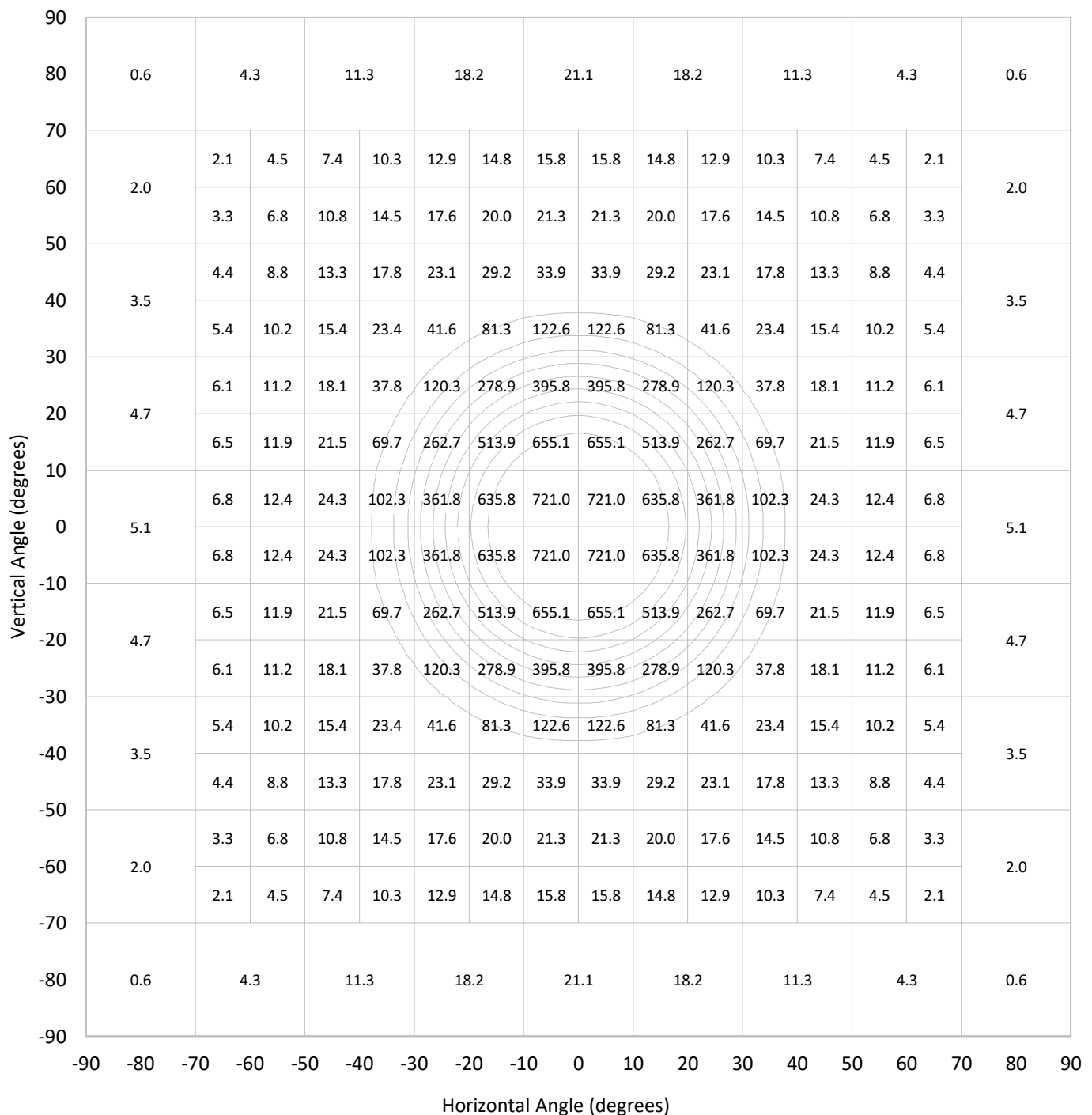
Iso-Candela Plot





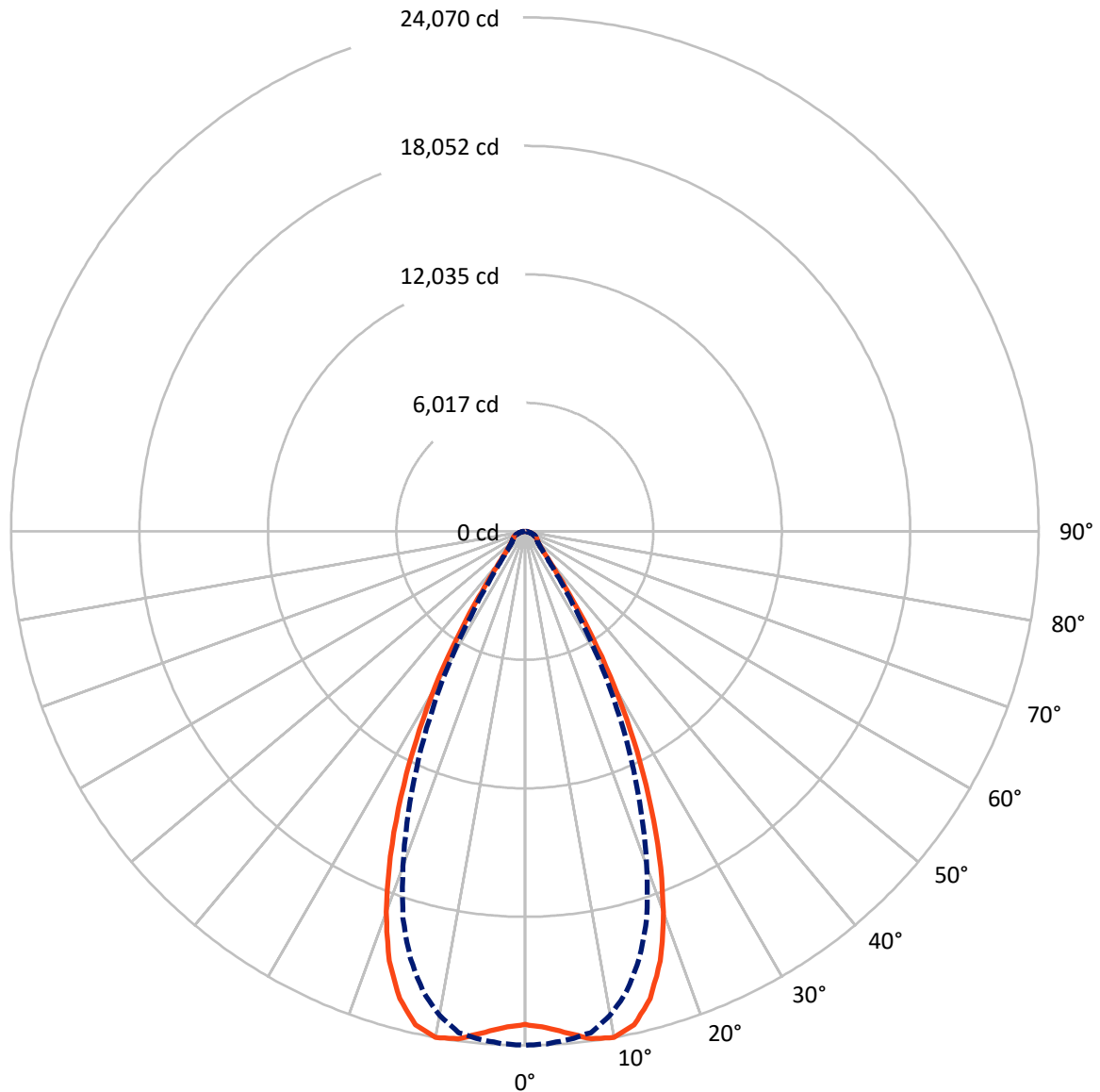
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Lumen Table



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Luminous Intensity Polar Plot

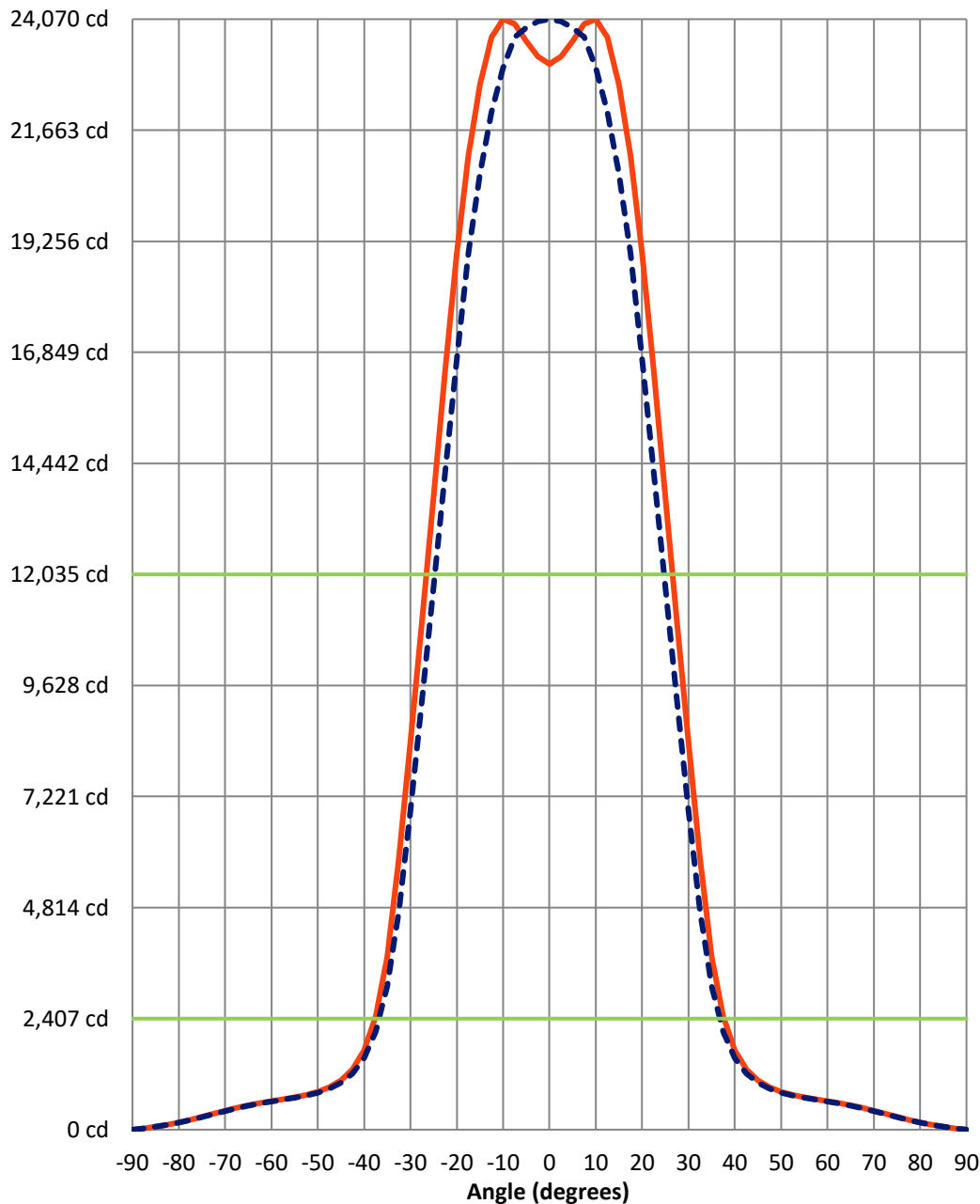


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 9789.6
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 12731.7
Efficiency: 64.6%

Spill:

Lumens: 6964.8
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°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	24.6	24.6	24.6	24.6
85°	65.5	65.5	65.5	65.5	65.5	63.4	63.4	61.4	61.4	59.3	57.3
82.5°	106.4	106.4	106.4	106.4	104.3	104.3	102.3	100.3	98.2	96.2	94.1
80°	155.5	155.5	155.5	155.5	153.5	151.4	149.4	147.3	143.2	141.2	137.1
77.5°	212.8	212.8	212.8	210.7	208.7	206.7	202.6	198.5	194.4	190.3	186.2
75°	278.3	278.3	278.3	274.2	272.1	268.0	263.9	259.8	253.7	247.6	241.4
72.5°	345.8	345.8	345.8	341.7	337.6	333.5	329.4	323.3	317.1	309.0	300.8
70°	409.2	409.2	409.2	405.1	401.0	396.9	390.8	384.7	376.5	368.3	360.1
67.5°	474.7	474.7	474.7	468.5	464.5	460.4	454.2	446.0	437.9	427.6	417.4
65°	527.9	527.9	525.8	523.8	519.7	513.6	509.5	501.3	493.1	484.9	474.7
62.5°	577.0	577.0	574.9	572.9	568.8	562.7	556.5	550.4	542.2	532.0	521.7
60°	617.9	617.9	615.9	613.8	609.7	605.6	599.5	593.4	585.2	577.0	566.8
57.5°	658.8	658.8	656.8	654.7	650.6	644.5	638.4	632.2	624.0	613.8	603.6
55°	701.8	701.8	699.8	695.7	691.6	685.4	679.3	671.1	660.9	650.6	640.4
52.5°	753.0	753.0	748.9	744.8	738.6	732.5	722.3	712.0	699.8	687.5	675.2
50°	820.5	820.5	816.4	810.2	800.0	789.8	777.5	761.1	746.8	730.4	714.1
47.5°	920.7	920.7	912.5	902.3	888.0	871.6	849.1	824.6	804.1	783.6	759.1
45°	1068.0	1068.0	1055.8	1039.4	1016.9	988.2	955.5	920.7	885.9	851.2	816.4
42.5°	1307.4	1307.4	1284.9	1256.3	1217.4	1168.3	1106.9	1049.6	1000.5	945.3	898.2
40°	1720.7	1720.7	1677.8	1624.6	1550.9	1456.8	1344.3	1254.2	1168.3	1072.1	1006.7
37.5°	2455.3	2455.3	2371.4	2269.1	2125.9	1945.8	1728.9	1583.7	1424.1	1272.7	1162.2
35°	3752.5	3752.5	3590.8	3392.4	3116.2	2768.3	2398.0	2123.8	1818.9	1585.7	1379.0
32.5°	5880.4	5880.4	5589.8	5231.8	4738.7	4114.6	3521.3	2999.5	2455.3	2068.6	1696.2
30°	8409.3	8409.3	8028.7	7560.2	6917.7	6107.5	5262.5	4335.6	3476.3	2786.7	2224.1
27.5°	11024.2	10915.7	10588.4	10054.3	9321.9	8409.3	7355.6	6158.6	4996.5	3781.1	2977.0
25°	13729.1	13602.2	13227.8	12614.0	11775.1	10741.8	9555.1	8217.0	6782.7	5334.1	3942.8
22.5°	16462.6	16319.4	15893.8	15200.2	14259.0	13100.9	11756.7	10269.2	8667.1	6993.4	5334.1
20°	18989.5	18838.1	18392.0	17669.8	16695.9	15425.3	13931.6	12282.5	10510.6	8667.1	6782.7
17.5°	21105.1	20959.9	20530.2	19840.7	18989.5	17583.8	16030.9	14218.1	12282.5	10269.2	8217.0
15°	22649.9	22525.1	22158.8	21579.8	20712.3	19468.3	17886.7	16030.9	13931.6	11756.7	9555.1
12.5°	23675.0	23574.7	23286.2	22836.1	22058.6	21015.1	19468.3	17583.8	15425.3	13100.9	10741.8
10°	24069.9	24020.8	23885.7	23679.1	23016.1	22058.6	20712.3	18989.5	16695.9	14259.0	11775.1
7.5°	23965.5	23981.9	24028.9	23975.7	23679.1	22836.1	21579.8	19840.7	17669.8	15200.2	12614.0
5°	23593.1	23681.1	23900.0	24028.9	23885.7	23286.2	22158.8	20530.2	18392.0	15893.8	13227.8
2.5°	23261.7	23398.8	23681.1	23981.9	24020.8	23574.7	22525.1	20959.9	18838.1	16319.4	13602.2
0°	23098.0	23261.7	23593.1	23965.5	24069.9	23675.0	22649.9	21105.1	18989.5	16462.6	13729.1

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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°	24.6	22.5	22.5	22.5	20.5	20.5	20.5	18.4	18.4	16.4	16.4
85°	57.3	55.2	53.2	51.2	49.1	47.1	45.0	43.0	40.9	36.8	34.8
82.5°	92.1	90.0	88.0	83.9	81.8	77.8	73.7	69.6	65.5	63.4	59.3
80°	133.0	128.9	124.8	120.7	114.6	108.4	104.3	98.2	94.1	88.0	83.9
77.5°	180.1	173.9	167.8	159.6	153.5	147.3	139.1	133.0	124.8	116.6	108.4
75°	233.3	225.1	214.8	206.7	198.5	188.2	178.0	167.8	157.5	147.3	137.1
72.5°	290.5	280.3	270.1	259.8	247.6	233.3	221.0	206.7	194.4	182.1	167.8
70°	349.9	337.6	325.3	313.0	298.7	282.4	268.0	251.7	235.3	218.9	202.6
67.5°	405.1	392.8	378.5	366.2	349.9	333.5	315.1	296.7	278.3	257.8	237.3
65°	462.4	448.1	431.7	415.4	399.0	380.6	362.2	343.7	321.2	298.7	278.3
62.5°	509.5	497.2	482.9	466.5	448.1	427.6	409.2	384.7	362.2	339.6	313.0
60°	554.5	540.2	527.9	509.5	493.1	474.7	452.2	427.6	403.1	376.5	351.9
57.5°	593.4	581.1	566.8	550.4	532.0	513.6	493.1	470.6	441.9	415.4	386.7
55°	628.1	613.8	599.5	585.2	568.8	548.3	527.9	505.4	480.8	452.2	421.5
52.5°	662.9	648.6	632.2	617.9	599.5	581.1	560.6	538.1	513.6	487.0	454.2
50°	697.7	681.3	665.0	646.6	628.1	609.7	589.3	568.8	542.2	515.6	487.0
47.5°	738.6	718.2	697.7	677.2	658.8	636.3	615.9	593.4	570.9	542.2	513.6
45°	789.8	759.1	734.5	710.0	687.5	665.0	640.4	617.9	593.4	568.8	538.1
42.5°	853.2	812.3	779.5	746.8	718.2	691.6	667.0	640.4	615.9	589.3	560.6
40°	939.1	883.9	830.7	789.8	753.0	720.2	691.6	665.0	636.3	609.7	581.1
37.5°	1051.7	973.9	900.3	840.9	793.9	753.0	718.2	687.5	658.8	628.1	599.5
35°	1221.5	1086.5	992.3	906.4	840.9	789.8	746.8	710.0	677.2	646.6	617.9
32.5°	1460.9	1252.2	1100.8	992.3	900.3	830.7	779.5	734.5	697.7	665.0	632.2
30°	1776.0	1487.5	1252.2	1086.5	973.9	883.9	812.3	759.1	718.2	681.3	648.6
27.5°	2275.2	1776.0	1460.9	1221.5	1051.7	939.1	853.2	789.8	738.6	697.7	662.9
25°	2977.0	2224.1	1696.2	1379.0	1162.2	1006.7	898.2	816.4	759.1	714.1	675.2
22.5°	3781.1	2786.7	2068.6	1585.7	1272.7	1072.1	945.3	851.2	783.6	730.4	687.5
20°	4996.5	3476.3	2455.3	1818.9	1424.1	1168.3	1000.5	885.9	804.1	746.8	699.8
17.5°	6158.6	4335.6	2999.5	2123.8	1583.7	1254.2	1049.6	920.7	824.6	761.1	712.0
15°	7355.6	5262.5	3521.3	2398.0	1728.9	1344.3	1106.9	955.5	849.1	777.5	722.3
12.5°	8409.3	6107.5	4114.6	2768.3	1945.8	1456.8	1168.3	988.2	871.6	789.8	732.5
10°	9321.9	6917.7	4738.7	3116.2	2125.9	1550.9	1217.4	1016.9	888.0	800.0	738.6
7.5°	10054.3	7560.2	5231.8	3392.4	2269.1	1624.6	1256.3	1039.4	902.3	810.2	744.8
5°	10588.4	8028.7	5589.8	3590.8	2371.4	1677.8	1284.9	1055.8	912.5	816.4	748.9
2.5°	10915.7	8409.3	5880.4	3752.5	2455.3	1720.7	1307.4	1068.0	920.7	820.5	753.0
0°	11024.2	8409.3	5880.4	3752.5	2455.3	1720.7	1307.4	1068.0	920.7	820.5	753.0

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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°	14.3	14.3	12.3	12.3	10.2	10.2	8.2	8.2	6.1	6.1	4.1
85°	32.7	28.6	26.6	24.6	22.5	20.5	18.4	16.4	14.3	12.3	10.2
82.5°	55.2	51.2	45.0	40.9	36.8	32.7	26.6	24.6	20.5	16.4	14.3
80°	77.8	71.6	65.5	59.3	53.2	47.1	40.9	34.8	28.6	22.5	18.4
77.5°	100.3	92.1	85.9	77.8	69.6	61.4	53.2	45.0	36.8	28.6	22.5
75°	126.9	116.6	106.4	96.2	85.9	75.7	67.5	57.3	47.1	36.8	28.6
72.5°	155.5	141.2	128.9	116.6	102.3	92.1	79.8	69.6	57.3	45.0	34.8
70°	186.2	169.8	153.5	137.1	122.8	106.4	94.1	79.8	67.5	53.2	40.9
67.5°	216.9	198.5	180.1	159.6	141.2	124.8	106.4	92.1	75.7	61.4	47.1
65°	253.7	229.2	206.7	184.1	161.6	141.2	122.8	102.3	85.9	69.6	53.2
62.5°	288.5	261.9	235.3	208.7	184.1	159.6	137.1	116.6	96.2	77.8	59.3
60°	323.3	294.6	263.9	235.3	206.7	180.1	153.5	128.9	106.4	85.9	65.5
57.5°	358.1	325.3	294.6	261.9	229.2	198.5	169.8	141.2	116.6	92.1	71.6
55°	388.8	358.1	323.3	288.5	253.7	216.9	186.2	155.5	126.9	100.3	77.8
52.5°	421.5	386.7	351.9	313.0	278.3	237.3	202.6	167.8	137.1	108.4	83.9
50°	452.2	415.4	376.5	339.6	298.7	257.8	218.9	182.1	147.3	116.6	88.0
47.5°	480.8	441.9	403.1	362.2	321.2	278.3	235.3	194.4	157.5	124.8	94.1
45°	505.4	470.6	427.6	384.7	343.7	296.7	251.7	206.7	167.8	133.0	98.2
42.5°	527.9	493.1	452.2	409.2	362.2	315.1	268.0	221.0	178.0	139.1	104.3
40°	548.3	513.6	474.7	427.6	380.6	333.5	282.4	233.3	188.2	147.3	108.4
37.5°	568.8	532.0	493.1	448.1	399.0	349.9	298.7	247.6	198.5	153.5	114.6
35°	585.2	550.4	509.5	466.5	415.4	366.2	313.0	259.8	206.7	159.6	120.7
32.5°	599.5	566.8	527.9	482.9	431.7	378.5	325.3	270.1	214.8	167.8	124.8
30°	613.8	581.1	540.2	497.2	448.1	392.8	337.6	280.3	225.1	173.9	128.9
27.5°	628.1	593.4	554.5	509.5	462.4	405.1	349.9	290.5	233.3	180.1	133.0
25°	640.4	603.6	566.8	521.7	474.7	417.4	360.1	300.8	241.4	186.2	137.1
22.5°	650.6	613.8	577.0	532.0	484.9	427.6	368.3	309.0	247.6	190.3	141.2
20°	660.9	624.0	585.2	542.2	493.1	437.9	376.5	317.1	253.7	194.4	143.2
17.5°	671.1	632.2	593.4	550.4	501.3	446.0	384.7	323.3	259.8	198.5	147.3
15°	679.3	638.4	599.5	556.5	509.5	454.2	390.8	329.4	263.9	202.6	149.4
12.5°	685.4	644.5	605.6	562.7	513.6	460.4	396.9	333.5	268.0	206.7	151.4
10°	691.6	650.6	609.7	568.8	519.7	464.5	401.0	337.6	272.1	208.7	153.5
7.5°	695.7	654.7	613.8	572.9	523.8	468.5	405.1	341.7	274.2	210.7	155.5
5°	699.8	656.8	615.9	574.9	525.8	474.7	409.2	345.8	278.3	212.8	155.5
2.5°	701.8	658.8	617.9	577.0	527.9	474.7	409.2	345.8	278.3	212.8	155.5
0°	701.8	658.8	617.9	577.0	527.9	474.7	409.2	345.8	278.3	212.8	155.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.1	2.0	2.0	0.0
85°	6.1	4.1	2.0	0.0
82.5°	10.2	6.1	4.1	0.0
80°	14.3	10.2	4.1	0.0
77.5°	16.4	12.3	6.1	0.0
75°	20.5	14.3	6.1	0.0
72.5°	24.6	16.4	8.2	0.0
70°	26.6	18.4	8.2	0.0
67.5°	32.7	20.5	10.2	0.0
65°	36.8	22.5	10.2	0.0
62.5°	40.9	24.6	12.3	0.0
60°	45.0	26.6	12.3	0.0
57.5°	51.2	28.6	14.3	0.0
55°	55.2	32.7	14.3	0.0
52.5°	59.3	34.8	16.4	0.0
50°	63.4	36.8	16.4	0.0
47.5°	65.5	40.9	18.4	0.0
45°	69.6	43.0	18.4	0.0
42.5°	73.7	45.0	20.5	0.0
40°	77.8	47.1	20.5	0.0
37.5°	81.8	49.1	20.5	0.0
35°	83.9	51.2	22.5	0.0
32.5°	88.0	53.2	22.5	0.0
30°	90.0	55.2	22.5	0.0
27.5°	92.1	57.3	24.6	0.0
25°	94.1	57.3	24.6	0.0
22.5°	96.2	59.3	24.6	0.0
20°	98.2	61.4	24.6	0.0
17.5°	100.3	61.4	24.6	0.0
15°	102.3	63.4	26.6	0.0
12.5°	104.3	63.4	26.6	0.0
10°	104.3	65.5	26.6	0.0
7.5°	106.4	65.5	26.6	0.0
5°	106.4	65.5	26.6	0.0
2.5°	106.4	65.5	26.6	0.0
0°	106.4	65.5	26.6	0.0

(END OF REPORT)