

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: P640043

Luminaire Tested: **IFLD-S-SA6A-AMB-U-66**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640043
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-AMB-U-66
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens
Light Source: (96) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

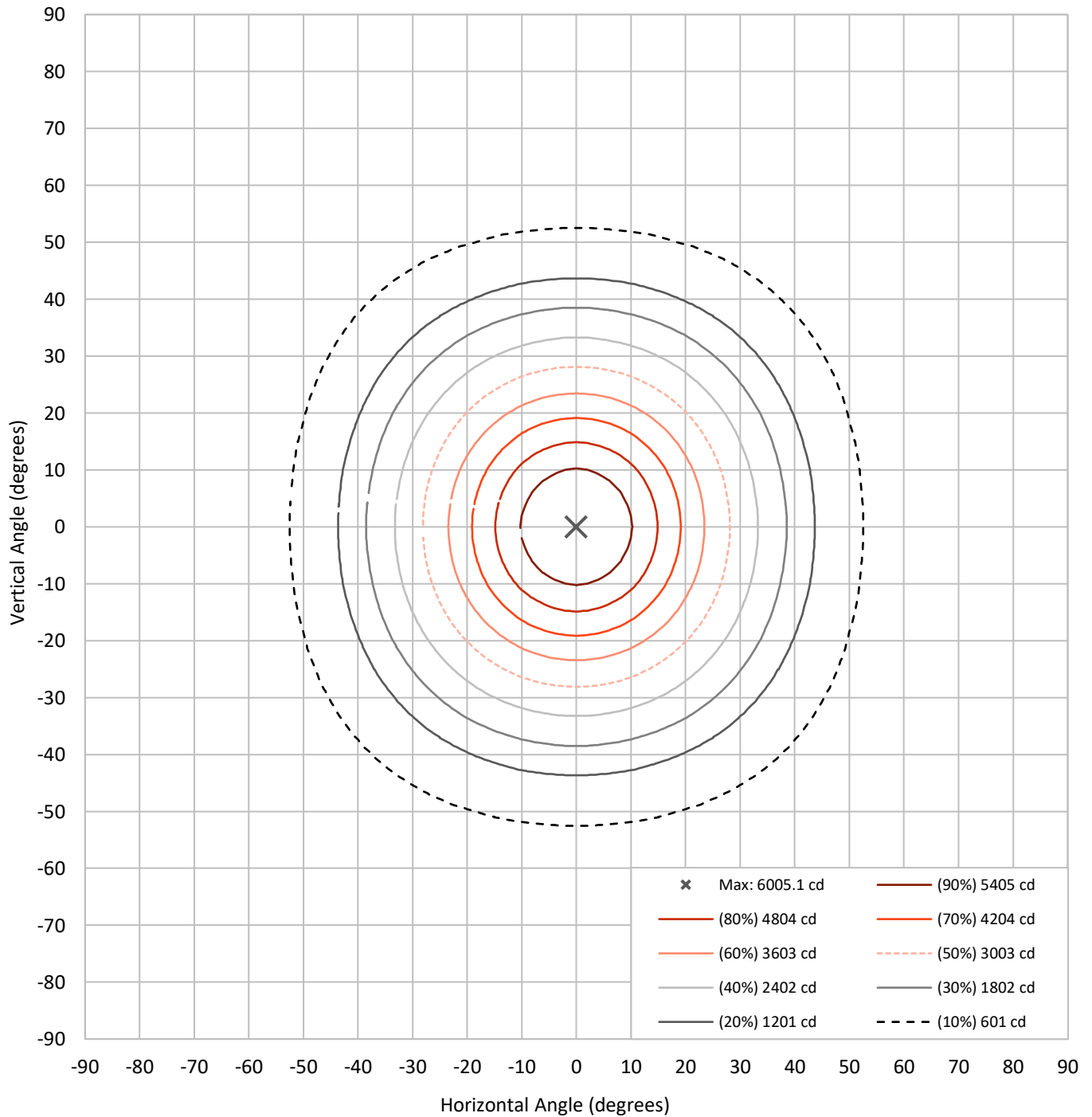
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	6572 lumens	Max Intensity:	6005.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	34.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	56.2°H x 56.2°V	Field Angle (10%):	104.8°H x 104.8°V
Beam Lumens:	2351.4 lumens	Field Lumens:	4343.4 lumens
Beam Efficiency:	35.8%	Field Efficiency:	66.1%
Input Watts (W):	189.6		
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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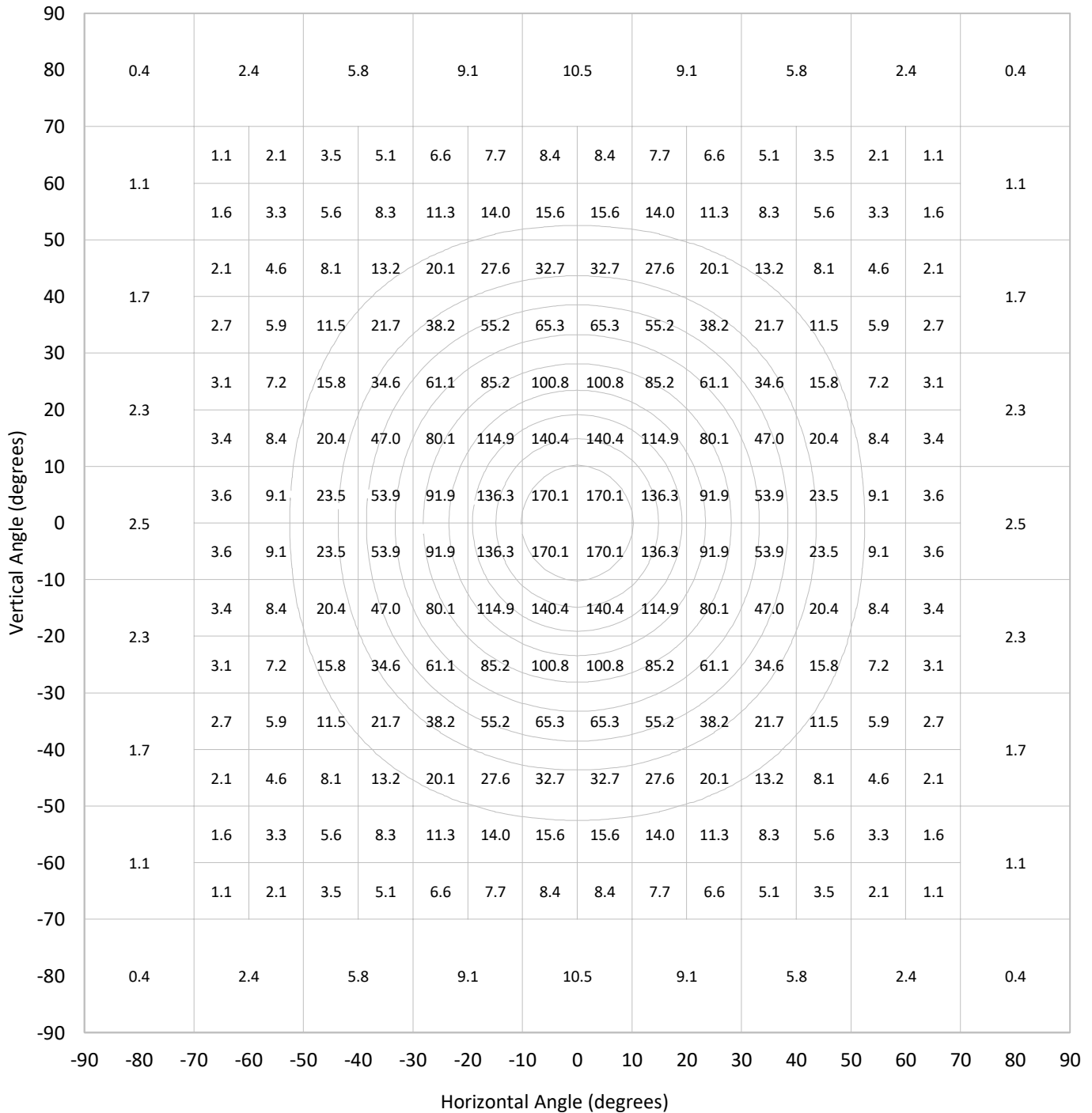
Iso-Candela Plot





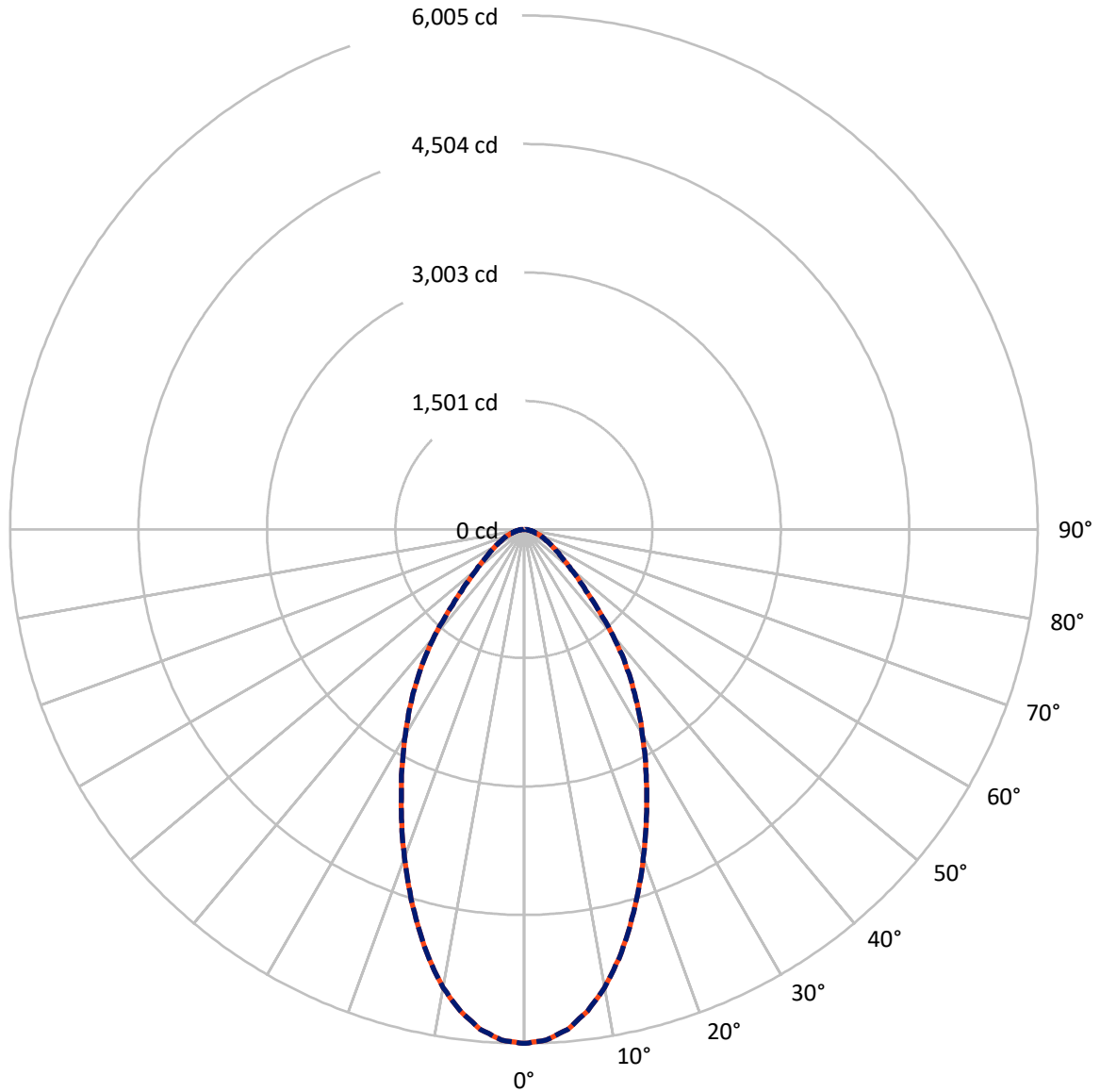
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Lumen Table



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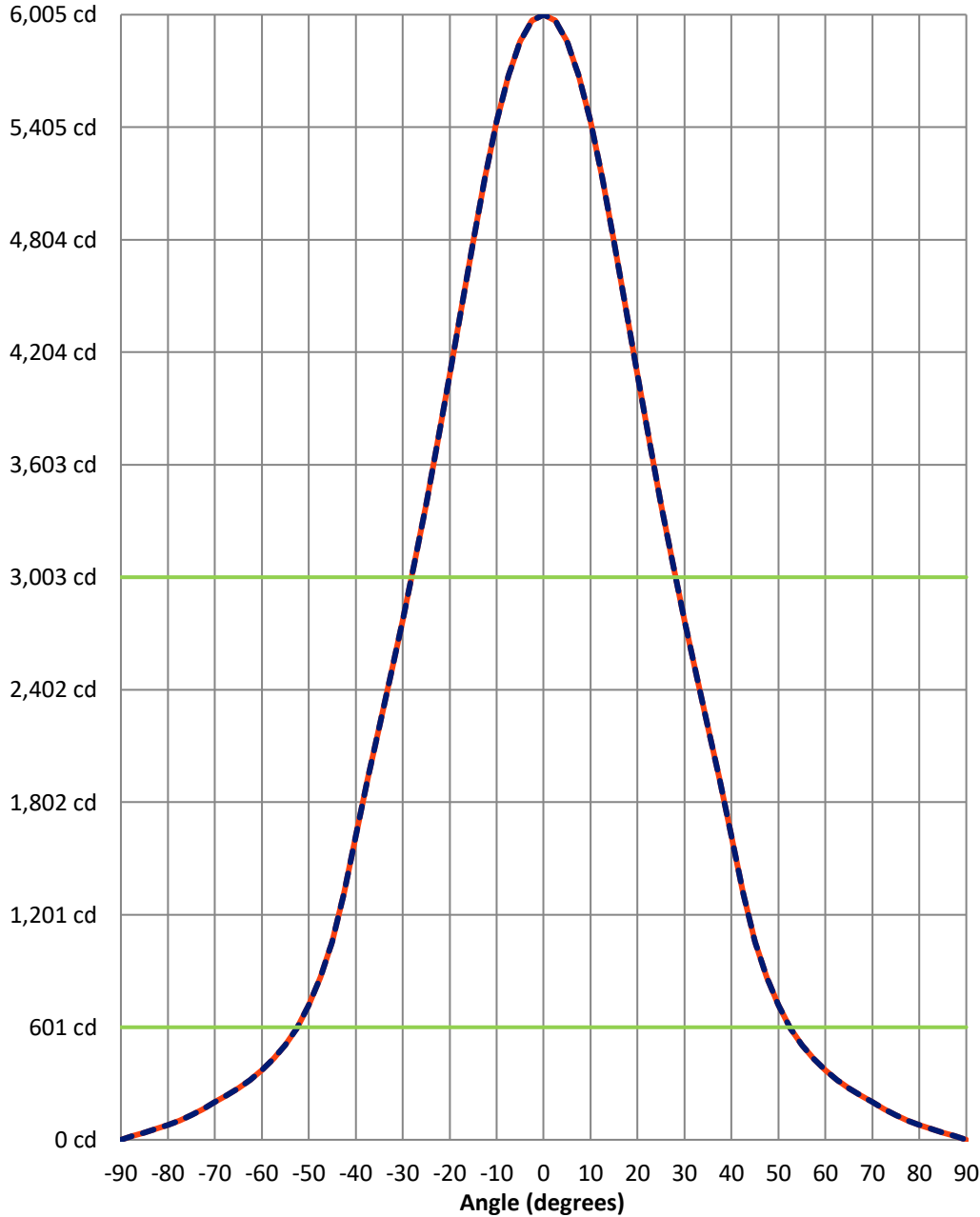
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 56.2°
 V Angle: 56.2°
 Lumens: 2351.4
 Efficiency: 35.8%

Field:
 H Angle: 104.8°
 V Angle: 104.8°
 Lumens: 4343.4
 Efficiency: 66.1%

Spill:
 Lumens: 2228.5
 Efficiency: 33.9%

- 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°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	17.5	17.5
85°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	35.1	35.1	35.1	35.1
82.5°	58.5	58.5	58.5	58.5	58.5	55.5	55.5	55.5	55.5	52.6	52.6
80°	78.9	78.9	78.9	78.9	78.9	76.0	76.0	76.0	73.1	73.1	70.2
77.5°	102.3	102.3	102.3	102.3	99.4	99.4	99.4	96.5	96.5	93.6	90.6
75°	131.6	131.6	131.6	128.6	128.6	128.6	125.7	122.8	119.9	116.9	114.0
72.5°	163.7	163.7	163.7	160.8	160.8	157.9	155.0	152.0	149.1	146.2	143.3
70°	201.7	201.7	201.7	198.8	195.9	193.0	190.0	187.1	181.3	178.3	172.5
67.5°	236.8	236.8	236.8	233.9	231.0	228.0	225.1	222.2	216.3	210.5	204.7
65°	274.8	274.8	271.9	271.9	269.0	266.0	260.2	257.3	251.4	245.6	236.8
62.5°	318.7	318.7	315.7	312.8	309.9	307.0	301.1	295.3	286.5	280.7	271.9
60°	371.3	371.3	368.4	365.4	359.6	353.8	347.9	339.1	330.4	318.7	309.9
57.5°	432.7	432.7	429.8	423.9	418.1	412.2	403.5	391.8	380.1	365.4	353.8
55°	505.8	505.8	499.9	497.0	488.2	479.5	464.9	453.2	435.6	421.0	403.5
52.5°	596.4	596.4	590.6	581.8	573.0	558.4	543.8	523.3	502.9	482.4	461.9
50°	719.2	719.2	710.4	698.7	684.1	663.7	640.3	611.0	584.7	558.4	529.2
47.5°	868.3	868.3	856.6	842.0	821.5	795.2	763.1	725.1	690.0	652.0	608.1
45°	1058.3	1058.3	1040.8	1020.3	994.0	956.0	912.2	868.3	815.7	766.0	713.4
42.5°	1315.6	1315.6	1292.2	1260.1	1219.1	1166.5	1099.3	1035.0	970.6	900.5	833.2
40°	1619.7	1619.7	1587.5	1549.5	1494.0	1426.7	1341.9	1257.1	1166.5	1064.2	979.4
37.5°	1920.8	1920.8	1885.7	1844.8	1786.3	1710.3	1622.6	1517.3	1400.4	1277.6	1157.7
35°	2201.5	2201.5	2166.4	2122.5	2064.1	1988.0	1897.4	1786.3	1660.6	1520.3	1368.2
32.5°	2485.1	2485.1	2447.1	2397.3	2333.0	2251.2	2151.8	2037.7	1920.8	1762.9	1602.1
30°	2771.6	2771.6	2727.7	2675.1	2602.0	2511.4	2403.2	2280.4	2143.0	1993.9	1824.3
27.5°	3078.5	3066.9	3028.8	2964.5	2879.7	2771.6	2651.7	2517.2	2368.1	2204.4	2034.8
25°	3391.4	3376.8	3332.9	3262.7	3166.3	3046.4	2906.1	2751.1	2587.4	2412.0	2227.8
22.5°	3733.4	3715.9	3663.3	3575.6	3458.6	3318.3	3163.3	2990.8	2800.8	2610.8	2412.0
20°	4081.3	4060.9	3999.5	3900.1	3765.6	3604.8	3417.7	3224.7	3017.2	2800.8	2587.4
17.5°	4438.0	4414.6	4341.5	4224.6	4081.3	3888.4	3680.8	3452.8	3224.7	2990.8	2751.1
15°	4791.8	4762.5	4680.7	4546.2	4370.8	4163.2	3929.3	3680.8	3417.7	3163.3	2906.1
12.5°	5133.8	5101.7	5005.2	4853.2	4657.3	4423.4	4163.2	3888.4	3604.8	3318.3	3046.4
10°	5435.0	5397.0	5294.6	5136.8	4914.6	4657.3	4370.8	4081.3	3765.6	3458.6	3166.3
7.5°	5677.6	5639.6	5531.4	5364.8	5136.8	4853.2	4546.2	4224.6	3900.1	3575.6	3262.7
5°	5861.8	5818.0	5709.8	5531.4	5294.6	5005.2	4680.7	4341.5	3999.5	3663.3	3332.9
2.5°	5972.9	5926.1	5818.0	5639.6	5397.0	5101.7	4762.5	4414.6	4060.9	3715.9	3376.8
0°	6005.1	5972.9	5861.8	5677.6	5435.0	5133.8	4791.8	4438.0	4081.3	3733.4	3391.4



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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°	17.5	17.5	17.5	17.5	17.5	14.6	14.6	14.6	14.6	11.7	11.7
85°	35.1	32.2	32.2	32.2	32.2	29.2	29.2	26.3	26.3	26.3	23.4
82.5°	52.6	49.7	49.7	46.8	46.8	43.9	40.9	40.9	38.0	38.0	35.1
80°	70.2	67.2	67.2	64.3	61.4	58.5	58.5	55.5	52.6	49.7	46.8
77.5°	87.7	87.7	84.8	81.9	78.9	76.0	73.1	70.2	67.2	61.4	58.5
75°	111.1	108.2	102.3	99.4	96.5	93.6	87.7	84.8	78.9	76.0	70.2
72.5°	137.4	131.6	128.6	122.8	116.9	111.1	105.2	99.4	96.5	90.6	84.8
70°	166.6	160.8	155.0	149.1	140.3	134.5	125.7	119.9	111.1	105.2	96.5
67.5°	198.8	193.0	184.2	175.4	166.6	157.9	149.1	140.3	131.6	122.8	114.0
65°	231.0	222.2	213.4	204.7	195.9	184.2	172.5	163.7	152.0	140.3	131.6
62.5°	263.1	254.4	242.7	233.9	222.2	210.5	201.7	187.1	175.4	160.8	149.1
60°	298.2	286.5	274.8	263.1	251.4	236.8	225.1	210.5	198.8	181.3	166.6
57.5°	339.1	324.5	309.9	295.3	277.7	263.1	248.5	233.9	219.3	204.7	187.1
55°	385.9	365.4	347.9	330.4	309.9	292.4	274.8	257.3	242.7	225.1	207.6
52.5°	438.5	415.2	391.8	371.3	347.9	324.5	304.1	283.6	263.1	245.6	225.1
50°	499.9	470.7	441.5	415.2	388.8	359.6	336.2	309.9	286.5	266.0	245.6
47.5°	573.0	535.0	497.0	464.9	432.7	400.5	368.4	339.1	312.8	286.5	263.1
45°	663.7	608.1	564.3	520.4	479.5	441.5	406.4	371.3	339.1	309.9	283.6
42.5°	768.9	704.6	643.2	584.7	535.0	488.2	444.4	406.4	368.4	336.2	304.1
40°	891.7	812.8	733.8	663.7	596.4	540.9	488.2	441.5	400.5	359.6	324.5
37.5°	1037.9	935.6	839.1	751.4	669.5	596.4	535.0	479.5	432.7	388.8	347.9
35°	1222.1	1078.8	958.9	847.8	751.4	663.7	584.7	520.4	464.9	415.2	371.3
32.5°	1429.6	1257.1	1093.4	958.9	839.1	733.8	643.2	564.3	497.0	441.5	391.8
30°	1643.1	1447.2	1257.1	1078.8	935.6	812.8	704.6	608.1	535.0	470.7	415.2
27.5°	1847.7	1643.1	1429.6	1222.1	1037.9	891.7	768.9	663.7	573.0	499.9	438.5
25°	2034.8	1824.3	1602.1	1368.2	1157.7	979.4	833.2	713.4	608.1	529.2	461.9
22.5°	2204.4	1993.9	1762.9	1520.3	1277.6	1064.2	900.5	766.0	652.0	558.4	482.4
20°	2368.1	2143.0	1920.8	1660.6	1400.4	1166.5	970.6	815.7	690.0	584.7	502.9
17.5°	2517.2	2280.4	2037.7	1786.3	1517.3	1257.1	1035.0	868.3	725.1	611.0	523.3
15°	2651.7	2403.2	2151.8	1897.4	1622.6	1341.9	1099.3	912.2	763.1	640.3	543.8
12.5°	2771.6	2511.4	2251.2	1988.0	1710.3	1426.7	1166.5	956.0	795.2	663.7	558.4
10°	2879.7	2602.0	2333.0	2064.1	1786.3	1494.0	1219.1	994.0	821.5	684.1	573.0
7.5°	2964.5	2675.1	2397.3	2122.5	1844.8	1549.5	1260.1	1020.3	842.0	698.7	581.8
5°	3028.8	2727.7	2447.1	2166.4	1885.7	1587.5	1292.2	1040.8	856.6	710.4	590.6
2.5°	3066.9	2771.6	2485.1	2201.5	1920.8	1619.7	1315.6	1058.3	868.3	719.2	596.4
0°	3078.5	2771.6	2485.1	2201.5	1920.8	1619.7	1315.6	1058.3	868.3	719.2	596.4



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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°	11.7	11.7	8.8	8.8	8.8	8.8	5.8	5.8	5.8	5.8	2.9
85°	23.4	20.5	20.5	17.5	17.5	14.6	14.6	11.7	11.7	8.8	5.8
82.5°	32.2	32.2	29.2	26.3	26.3	23.4	20.5	17.5	14.6	14.6	11.7
80°	43.9	40.9	38.0	35.1	32.2	29.2	26.3	23.4	20.5	17.5	14.6
77.5°	55.5	52.6	46.8	43.9	40.9	35.1	32.2	29.2	26.3	20.5	17.5
75°	67.2	61.4	58.5	52.6	49.7	43.9	38.0	35.1	29.2	26.3	20.5
72.5°	78.9	73.1	67.2	61.4	55.5	52.6	46.8	40.9	35.1	29.2	23.4
70°	90.6	84.8	78.9	70.2	64.3	58.5	52.6	46.8	38.0	32.2	26.3
67.5°	105.2	96.5	87.7	81.9	73.1	67.2	58.5	52.6	43.9	35.1	29.2
65°	119.9	108.2	99.4	90.6	81.9	73.1	64.3	55.5	49.7	40.9	32.2
62.5°	137.4	122.8	111.1	99.4	90.6	81.9	70.2	61.4	52.6	43.9	35.1
60°	152.0	140.3	125.7	111.1	99.4	87.7	78.9	67.2	58.5	46.8	38.0
57.5°	169.6	155.0	140.3	122.8	108.2	96.5	84.8	73.1	61.4	52.6	40.9
55°	190.0	169.6	152.0	137.4	119.9	105.2	90.6	78.9	67.2	55.5	43.9
52.5°	207.6	187.1	166.6	149.1	131.6	114.0	96.5	84.8	70.2	58.5	46.8
50°	225.1	204.7	181.3	160.8	140.3	122.8	105.2	90.6	76.0	61.4	49.7
47.5°	242.7	219.3	198.8	175.4	152.0	131.6	111.1	96.5	78.9	67.2	52.6
45°	257.3	233.9	210.5	187.1	163.7	140.3	119.9	99.4	84.8	70.2	55.5
42.5°	274.8	248.5	225.1	201.7	172.5	149.1	125.7	105.2	87.7	73.1	58.5
40°	292.4	263.1	236.8	210.5	184.2	157.9	134.5	111.1	93.6	76.0	58.5
37.5°	309.9	277.7	251.4	222.2	195.9	166.6	140.3	116.9	96.5	78.9	61.4
35°	330.4	295.3	263.1	233.9	204.7	175.4	149.1	122.8	99.4	81.9	64.3
32.5°	347.9	309.9	274.8	242.7	213.4	184.2	155.0	128.6	102.3	84.8	67.2
30°	365.4	324.5	286.5	254.4	222.2	193.0	160.8	131.6	108.2	87.7	67.2
27.5°	385.9	339.1	298.2	263.1	231.0	198.8	166.6	137.4	111.1	87.7	70.2
25°	403.5	353.8	309.9	271.9	236.8	204.7	172.5	143.3	114.0	90.6	70.2
22.5°	421.0	365.4	318.7	280.7	245.6	210.5	178.3	146.2	116.9	93.6	73.1
20°	435.6	380.1	330.4	286.5	251.4	216.3	181.3	149.1	119.9	96.5	73.1
17.5°	453.2	391.8	339.1	295.3	257.3	222.2	187.1	152.0	122.8	96.5	76.0
15°	464.9	403.5	347.9	301.1	260.2	225.1	190.0	155.0	125.7	99.4	76.0
12.5°	479.5	412.2	353.8	307.0	266.0	228.0	193.0	157.9	128.6	99.4	76.0
10°	488.2	418.1	359.6	309.9	269.0	231.0	195.9	160.8	128.6	99.4	78.9
7.5°	497.0	423.9	365.4	312.8	271.9	233.9	198.8	160.8	128.6	102.3	78.9
5°	499.9	429.8	368.4	315.7	271.9	236.8	201.7	163.7	131.6	102.3	78.9
2.5°	505.8	432.7	371.3	318.7	274.8	236.8	201.7	163.7	131.6	102.3	78.9
0°	505.8	432.7	371.3	318.7	274.8	236.8	201.7	163.7	131.6	102.3	78.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.9	2.9	0.0	0.0
85°	5.8	2.9	2.9	0.0
82.5°	8.8	5.8	2.9	0.0
80°	11.7	5.8	2.9	0.0
77.5°	14.6	8.8	5.8	0.0
75°	14.6	11.7	5.8	0.0
72.5°	17.5	11.7	5.8	0.0
70°	20.5	14.6	5.8	0.0
67.5°	23.4	14.6	8.8	0.0
65°	26.3	17.5	8.8	0.0
62.5°	26.3	17.5	8.8	0.0
60°	29.2	20.5	8.8	0.0
57.5°	32.2	20.5	11.7	0.0
55°	32.2	23.4	11.7	0.0
52.5°	35.1	23.4	11.7	0.0
50°	38.0	26.3	11.7	0.0
47.5°	38.0	26.3	14.6	0.0
45°	40.9	26.3	14.6	0.0
42.5°	40.9	29.2	14.6	0.0
40°	43.9	29.2	14.6	0.0
37.5°	46.8	32.2	17.5	0.0
35°	46.8	32.2	17.5	0.0
32.5°	49.7	32.2	17.5	0.0
30°	49.7	32.2	17.5	0.0
27.5°	52.6	35.1	17.5	0.0
25°	52.6	35.1	17.5	0.0
22.5°	52.6	35.1	17.5	0.0
20°	55.5	35.1	20.5	0.0
17.5°	55.5	35.1	20.5	0.0
15°	55.5	38.0	20.5	0.0
12.5°	55.5	38.0	20.5	0.0
10°	58.5	38.0	20.5	0.0
7.5°	58.5	38.0	20.5	0.0
5°	58.5	38.0	20.5	0.0
2.5°	58.5	38.0	20.5	0.0
0°	58.5	38.0	20.5	0.0

(END OF REPORT)