

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: P640037

Luminaire Tested: **IFLD-S-SA6A-AMB-U-77**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640037
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-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

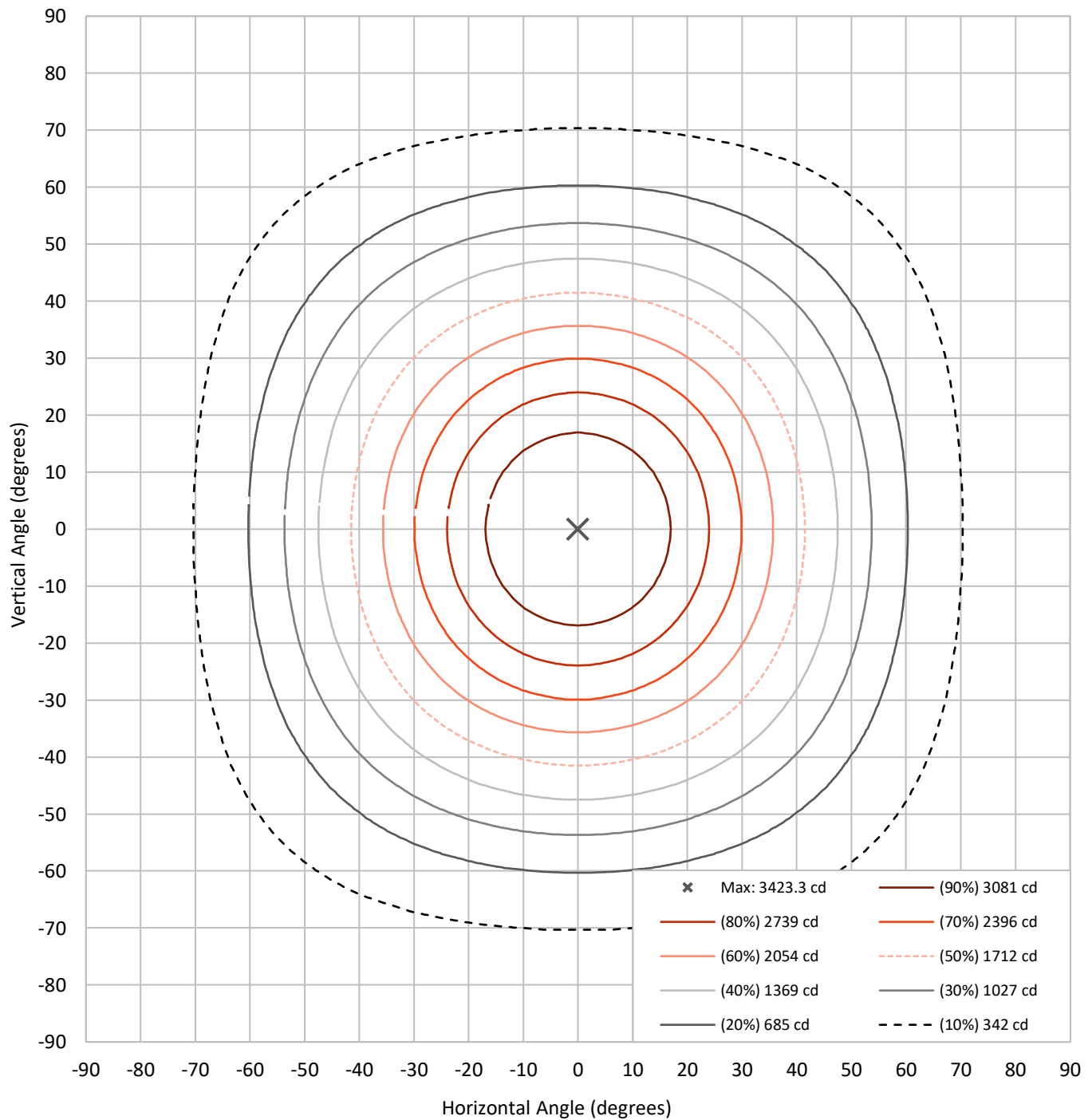
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6579.6 lumens	Max Intensity:	3423.3 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%):	82.9°H x 82.9°V	Field Angle (10%):	140.7°H x 140.7°V
Beam Lumens:	2951.5 lumens	Field Lumens:	4706.5 lumens
Beam Efficiency:	44.9%	Field Efficiency:	71.5%
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		



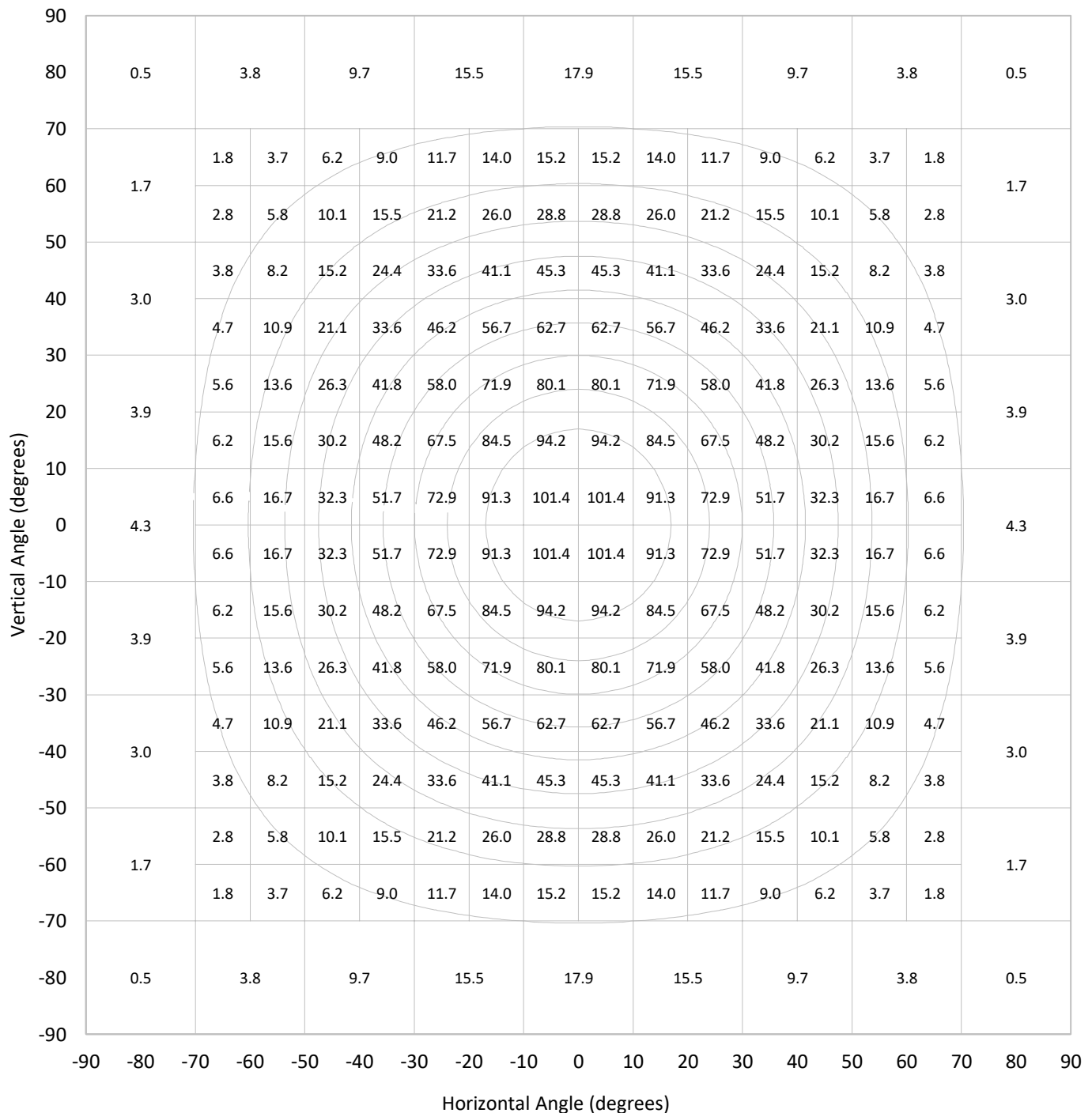
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Iso-Candela Plot



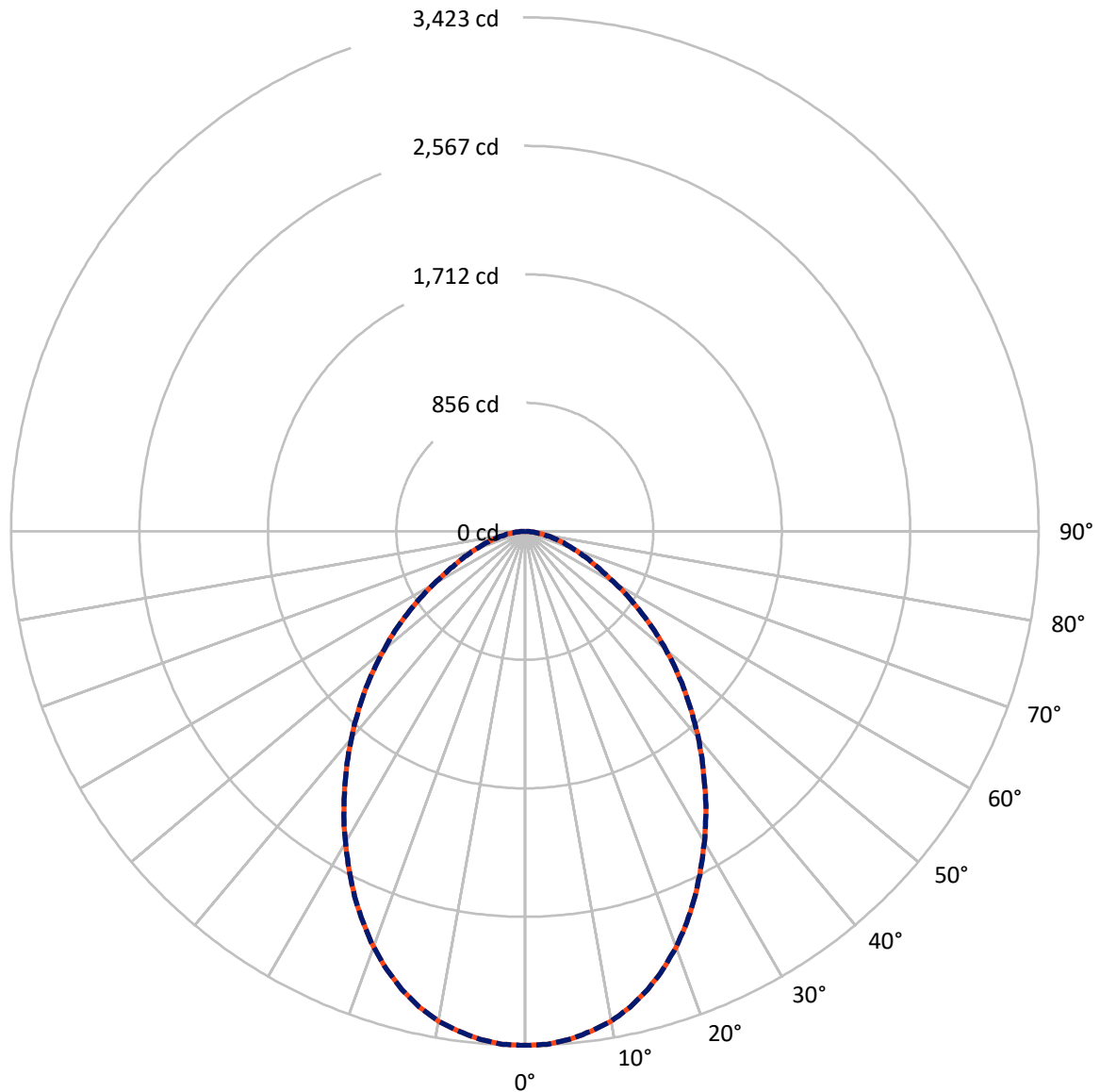
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Lumen Table



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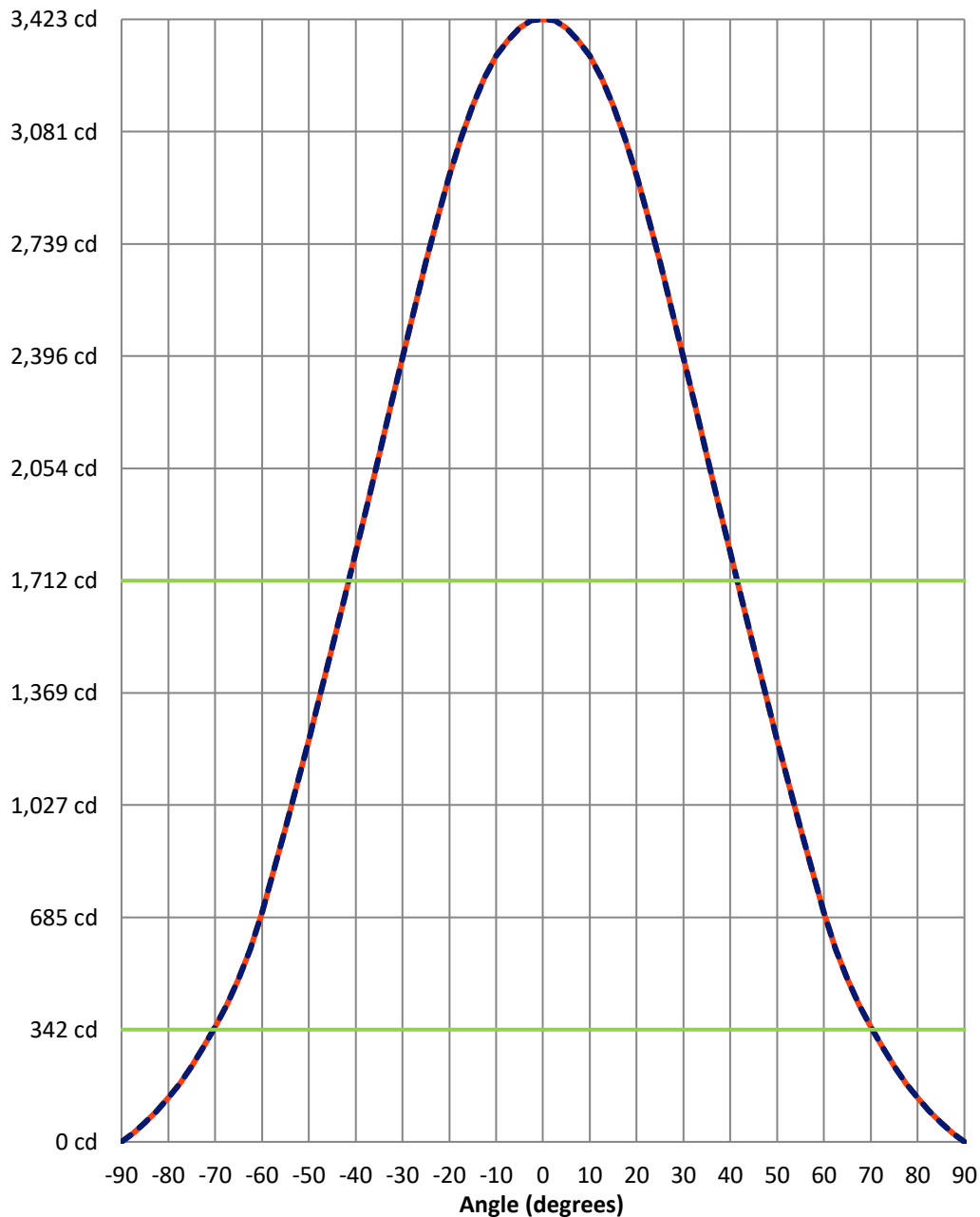
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:

H Angle: 82.9°
V Angle: 82.9°
Lumens: 2951.5
Efficiency: 44.9%

Field:

H Angle: 140.7°
V Angle: 140.7°
Lumens: 4706.5
Efficiency: 71.5%

Spill:

Lumens: 1873.1
Efficiency: 28.5%

— 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°	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	23.4	23.4	23.4
85°	58.5	58.5	58.5	58.5	58.5	55.5	55.5	55.5	55.5	52.6	52.6
82.5°	93.5	93.5	93.5	93.5	90.6	90.6	90.6	87.7	87.7	84.8	84.8
80°	134.5	134.5	134.5	134.5	131.6	131.6	128.6	125.7	125.7	122.8	119.9
77.5°	178.3	178.3	178.3	175.4	175.4	172.5	169.6	166.6	163.7	160.8	157.9
75°	230.9	230.9	230.9	228.0	225.1	222.2	219.3	216.3	210.5	207.6	201.7
72.5°	289.4	289.4	289.4	286.5	283.6	280.6	274.8	269.0	263.1	257.3	251.4
70°	350.8	350.8	350.8	347.9	342.0	339.1	333.3	327.4	318.6	312.8	304.0
67.5°	418.0	418.0	418.0	412.2	409.3	403.4	397.6	388.8	380.0	368.3	359.6
65°	497.0	497.0	494.1	491.1	485.3	476.5	467.7	459.0	447.3	432.7	418.0
62.5°	587.6	587.6	584.7	578.8	570.1	561.3	549.6	537.9	523.3	505.7	488.2
60°	698.7	698.7	692.8	687.0	675.3	663.6	649.0	631.5	611.0	587.6	567.1
57.5°	827.3	827.3	821.5	812.7	798.1	783.5	763.0	742.5	716.2	687.0	660.7
55°	955.9	955.9	947.2	938.4	923.8	906.2	885.8	862.4	833.2	801.0	765.9
52.5°	1090.4	1090.4	1081.7	1070.0	1055.3	1034.9	1011.5	982.3	950.1	915.0	877.0
50°	1224.9	1224.9	1216.1	1201.5	1186.9	1163.5	1137.2	1108.0	1072.9	1032.0	991.0
47.5°	1368.1	1368.1	1356.5	1341.8	1321.4	1298.0	1265.8	1230.7	1192.7	1151.8	1105.0
45°	1508.5	1508.5	1496.8	1482.2	1458.8	1432.5	1400.3	1368.1	1318.4	1268.7	1216.1
42.5°	1651.7	1651.7	1637.1	1622.5	1599.1	1566.9	1531.9	1490.9	1444.2	1391.5	1336.0
40°	1797.9	1797.9	1783.3	1762.8	1736.5	1704.3	1666.3	1619.6	1566.9	1511.4	1450.0
37.5°	1944.1	1944.1	1926.5	1906.0	1879.7	1841.7	1797.9	1748.2	1692.6	1631.2	1564.0
35°	2093.1	2093.1	2075.6	2052.2	2020.1	1979.1	1932.4	1876.8	1818.3	1751.1	1678.0
32.5°	2245.2	2245.2	2224.7	2198.4	2163.3	2119.5	2066.8	2005.4	1944.1	1868.0	1789.1
30°	2391.3	2391.3	2367.9	2341.6	2306.6	2259.8	2201.3	2134.1	2061.0	1982.1	1897.3
27.5°	2537.5	2531.7	2514.1	2482.0	2441.0	2391.3	2329.9	2259.8	2180.8	2096.1	2002.5
25°	2683.7	2677.8	2657.4	2622.3	2578.4	2522.9	2455.6	2379.6	2297.8	2207.2	2107.8
22.5°	2818.1	2812.3	2788.9	2756.8	2710.0	2648.6	2578.4	2496.6	2405.9	2309.5	2207.2
20°	2946.8	2938.0	2917.5	2879.5	2829.8	2768.4	2692.4	2604.7	2508.3	2405.9	2297.8
17.5°	3060.8	3052.0	3028.6	2993.5	2946.8	2876.6	2797.7	2707.1	2604.7	2496.6	2379.6
15°	3160.2	3151.4	3128.0	3090.0	3040.3	2973.1	2891.2	2797.7	2692.4	2578.4	2455.6
12.5°	3245.0	3236.2	3212.8	3174.8	3122.2	3054.9	2973.1	2876.6	2768.4	2648.6	2522.9
10°	3312.2	3303.4	3280.0	3245.0	3189.4	3122.2	3040.3	2946.8	2829.8	2710.0	2578.4
7.5°	3359.0	3350.2	3329.7	3297.6	3245.0	3174.8	3090.0	2993.5	2879.5	2756.8	2622.3
5°	3397.0	3388.2	3364.8	3329.7	3280.0	3212.8	3128.0	3028.6	2917.5	2788.9	2657.4
2.5°	3420.4	3411.6	3388.2	3350.2	3303.4	3236.2	3151.4	3052.0	2938.0	2812.3	2677.8
0°	3423.3	3420.4	3397.0	3359.0	3312.2	3245.0	3160.2	3060.8	2946.8	2818.1	2683.7



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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°	23.4	23.4	23.4	20.5	20.5	20.5	20.5	17.5	17.5	17.5	14.6
85°	52.6	49.7	49.7	46.8	43.9	43.9	40.9	40.9	38.0	35.1	32.2
82.5°	81.9	78.9	76.0	73.1	73.1	70.2	67.2	61.4	58.5	55.5	52.6
80°	116.9	111.1	108.2	105.2	99.4	96.5	90.6	87.7	81.9	78.9	73.1
77.5°	152.0	149.1	143.2	137.4	131.6	125.7	119.9	114.0	108.2	102.3	93.5
75°	195.9	187.1	181.2	172.5	166.6	160.8	152.0	143.2	134.5	128.6	119.9
72.5°	242.6	233.9	225.1	216.3	204.6	195.9	184.2	175.4	163.7	154.9	143.2
70°	292.3	283.6	271.9	260.2	248.5	236.8	222.2	210.5	195.9	181.2	169.6
67.5°	347.9	336.2	321.6	307.0	292.3	277.7	263.1	248.5	230.9	216.3	198.8
65°	406.4	391.7	374.2	356.7	342.0	324.5	307.0	286.5	269.0	248.5	230.9
62.5°	470.7	453.1	432.7	409.3	391.7	371.3	350.8	327.4	307.0	283.6	263.1
60°	543.7	520.4	497.0	470.7	444.4	418.0	394.7	368.3	345.0	318.6	295.3
57.5°	631.5	599.3	567.1	537.9	505.7	473.6	444.4	412.2	385.9	356.7	327.4
55°	727.9	689.9	651.9	611.0	573.0	535.0	497.0	461.9	426.8	394.7	362.5
52.5°	836.1	792.2	745.5	698.7	649.0	602.2	558.4	514.5	473.6	435.6	397.6
50°	944.3	894.6	844.9	789.3	733.8	675.3	622.7	570.1	523.3	479.4	435.6
47.5°	1052.4	999.8	941.3	882.9	827.3	760.1	692.8	634.4	575.9	523.3	473.6
45°	1163.5	1105.0	1043.6	976.4	912.1	841.9	771.8	698.7	634.4	570.1	514.5
42.5°	1271.7	1207.4	1140.1	1072.9	999.8	923.8	850.7	771.8	692.8	622.7	558.4
40°	1385.7	1315.5	1239.5	1163.5	1090.4	1005.6	923.8	841.9	760.1	675.3	602.2
37.5°	1493.9	1417.8	1338.9	1254.1	1172.3	1090.4	999.8	912.1	827.3	733.8	649.0
35°	1599.1	1520.2	1435.4	1347.7	1254.1	1163.5	1072.9	976.4	882.9	789.3	698.7
32.5°	1707.3	1619.6	1528.9	1435.4	1338.9	1239.5	1140.1	1043.6	941.3	844.9	745.5
30°	1809.6	1716.0	1619.6	1520.2	1417.8	1315.5	1207.4	1105.0	999.8	894.6	792.2
27.5°	1909.0	1809.6	1707.3	1599.1	1493.9	1385.7	1271.7	1163.5	1052.4	944.3	836.1
25°	2002.5	1897.3	1789.1	1678.0	1564.0	1450.0	1336.0	1216.1	1105.0	991.0	877.0
22.5°	2096.1	1982.1	1868.0	1751.1	1631.2	1511.4	1391.5	1268.7	1151.8	1032.0	915.0
20°	2180.8	2061.0	1944.1	1818.3	1692.6	1566.9	1444.2	1318.4	1192.7	1072.9	950.1
17.5°	2259.8	2134.1	2005.4	1876.8	1748.2	1619.6	1490.9	1368.1	1230.7	1108.0	982.3
15°	2329.9	2201.3	2066.8	1932.4	1797.9	1666.3	1531.9	1400.3	1265.8	1137.2	1011.5
12.5°	2391.3	2259.8	2119.5	1979.1	1841.7	1704.3	1566.9	1432.5	1298.0	1163.5	1034.9
10°	2441.0	2306.6	2163.3	2020.1	1879.7	1736.5	1599.1	1458.8	1321.4	1186.9	1055.3
7.5°	2482.0	2341.6	2198.4	2052.2	1906.0	1762.8	1622.5	1482.2	1341.8	1201.5	1070.0
5°	2514.1	2367.9	2224.7	2075.6	1926.5	1783.3	1637.1	1496.8	1356.5	1216.1	1081.7
2.5°	2531.7	2391.3	2245.2	2093.1	1944.1	1797.9	1651.7	1508.5	1368.1	1224.9	1090.4
0°	2537.5	2391.3	2245.2	2093.1	1944.1	1797.9	1651.7	1508.5	1368.1	1224.9	1090.4

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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°	14.6	14.6	11.7	11.7	11.7	8.8	8.8	8.8	5.8	5.8	5.8
85°	32.2	29.2	26.3	23.4	23.4	20.5	17.5	14.6	14.6	11.7	8.8
82.5°	49.7	46.8	40.9	38.0	35.1	32.2	26.3	23.4	20.5	17.5	14.6
80°	67.2	64.3	58.5	52.6	49.7	43.9	38.0	32.2	26.3	23.4	17.5
77.5°	87.7	81.9	76.0	70.2	61.4	55.5	49.7	40.9	35.1	29.2	23.4
75°	111.1	102.3	93.5	84.8	76.0	67.2	58.5	52.6	43.9	35.1	26.3
72.5°	134.5	122.8	111.1	102.3	90.6	81.9	70.2	61.4	52.6	40.9	32.2
70°	157.9	146.2	131.6	119.9	108.2	93.5	81.9	70.2	58.5	49.7	38.0
67.5°	181.2	166.6	152.0	137.4	122.8	108.2	93.5	81.9	67.2	55.5	43.9
65°	210.5	190.0	172.5	157.9	140.3	122.8	108.2	90.6	76.0	61.4	49.7
62.5°	239.7	216.3	195.9	175.4	157.9	137.4	119.9	102.3	84.8	70.2	52.6
60°	269.0	245.6	219.3	195.9	172.5	152.0	131.6	111.1	93.5	76.0	58.5
57.5°	301.1	271.9	245.6	216.3	190.0	166.6	146.2	122.8	102.3	81.9	64.3
55°	330.3	301.1	269.0	239.7	210.5	181.2	157.9	134.5	111.1	87.7	67.2
52.5°	362.5	327.4	295.3	263.1	230.9	198.8	169.6	143.2	119.9	93.5	73.1
50°	394.7	356.7	318.6	283.6	248.5	216.3	181.2	154.9	128.6	102.3	78.9
47.5°	426.8	385.9	345.0	307.0	269.0	230.9	195.9	163.7	134.5	108.2	81.9
45°	461.9	412.2	368.3	327.4	286.5	248.5	210.5	175.4	143.2	114.0	87.7
42.5°	497.0	444.4	394.7	350.8	307.0	263.1	222.2	184.2	152.0	119.9	90.6
40°	535.0	473.6	418.0	371.3	324.5	277.7	236.8	195.9	160.8	125.7	96.5
37.5°	573.0	505.7	444.4	391.7	342.0	292.3	248.5	204.6	166.6	131.6	99.4
35°	611.0	537.9	470.7	409.3	356.7	307.0	260.2	216.3	172.5	137.4	105.2
32.5°	651.9	567.1	497.0	432.7	374.2	321.6	271.9	225.1	181.2	143.2	108.2
30°	689.9	599.3	520.4	453.1	391.7	336.2	283.6	233.9	187.1	149.1	111.1
27.5°	727.9	631.5	543.7	470.7	406.4	347.9	292.3	242.6	195.9	152.0	116.9
25°	765.9	660.7	567.1	488.2	418.0	359.6	304.0	251.4	201.7	157.9	119.9
22.5°	801.0	687.0	587.6	505.7	432.7	368.3	312.8	257.3	207.6	160.8	122.8
20°	833.2	716.2	611.0	523.3	447.3	380.0	318.6	263.1	210.5	163.7	125.7
17.5°	862.4	742.5	631.5	537.9	459.0	388.8	327.4	269.0	216.3	166.6	125.7
15°	885.8	763.0	649.0	549.6	467.7	397.6	333.3	274.8	219.3	169.6	128.6
12.5°	906.2	783.5	663.6	561.3	476.5	403.4	339.1	280.6	222.2	172.5	131.6
10°	923.8	798.1	675.3	570.1	485.3	409.3	342.0	283.6	225.1	175.4	131.6
7.5°	938.4	812.7	687.0	578.8	491.1	412.2	347.9	286.5	228.0	175.4	134.5
5°	947.2	821.5	692.8	584.7	494.1	418.0	350.8	289.4	230.9	178.3	134.5
2.5°	955.9	827.3	698.7	587.6	497.0	418.0	350.8	289.4	230.9	178.3	134.5
0°	955.9	827.3	698.7	587.6	497.0	418.0	350.8	289.4	230.9	178.3	134.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.9	2.9	0.0	0.0
85°	5.8	5.8	2.9	0.0
82.5°	11.7	5.8	2.9	0.0
80°	14.6	8.8	5.8	0.0
77.5°	17.5	11.7	5.8	0.0
75°	20.5	14.6	5.8	0.0
72.5°	23.4	14.6	8.8	0.0
70°	26.3	17.5	8.8	0.0
67.5°	32.2	20.5	8.8	0.0
65°	35.1	23.4	11.7	0.0
62.5°	38.0	23.4	11.7	0.0
60°	40.9	26.3	11.7	0.0
57.5°	46.8	29.2	14.6	0.0
55°	49.7	32.2	14.6	0.0
52.5°	52.6	32.2	14.6	0.0
50°	55.5	35.1	17.5	0.0
47.5°	58.5	38.0	17.5	0.0
45°	61.4	40.9	17.5	0.0
42.5°	67.2	40.9	20.5	0.0
40°	70.2	43.9	20.5	0.0
37.5°	73.1	43.9	20.5	0.0
35°	73.1	46.8	20.5	0.0
32.5°	76.0	49.7	23.4	0.0
30°	78.9	49.7	23.4	0.0
27.5°	81.9	52.6	23.4	0.0
25°	84.8	52.6	23.4	0.0
22.5°	84.8	52.6	23.4	0.0
20°	87.7	55.5	23.4	0.0
17.5°	87.7	55.5	26.3	0.0
15°	90.6	55.5	26.3	0.0
12.5°	90.6	55.5	26.3	0.0
10°	90.6	58.5	26.3	0.0
7.5°	93.5	58.5	26.3	0.0
5°	93.5	58.5	26.3	0.0
2.5°	93.5	58.5	26.3	0.0
0°	93.5	58.5	26.3	0.0

(END OF REPORT)