

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: P640039

Luminaire Tested: **IFLD-L-SA7A-AMB-U-77**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640039
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-AMB-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

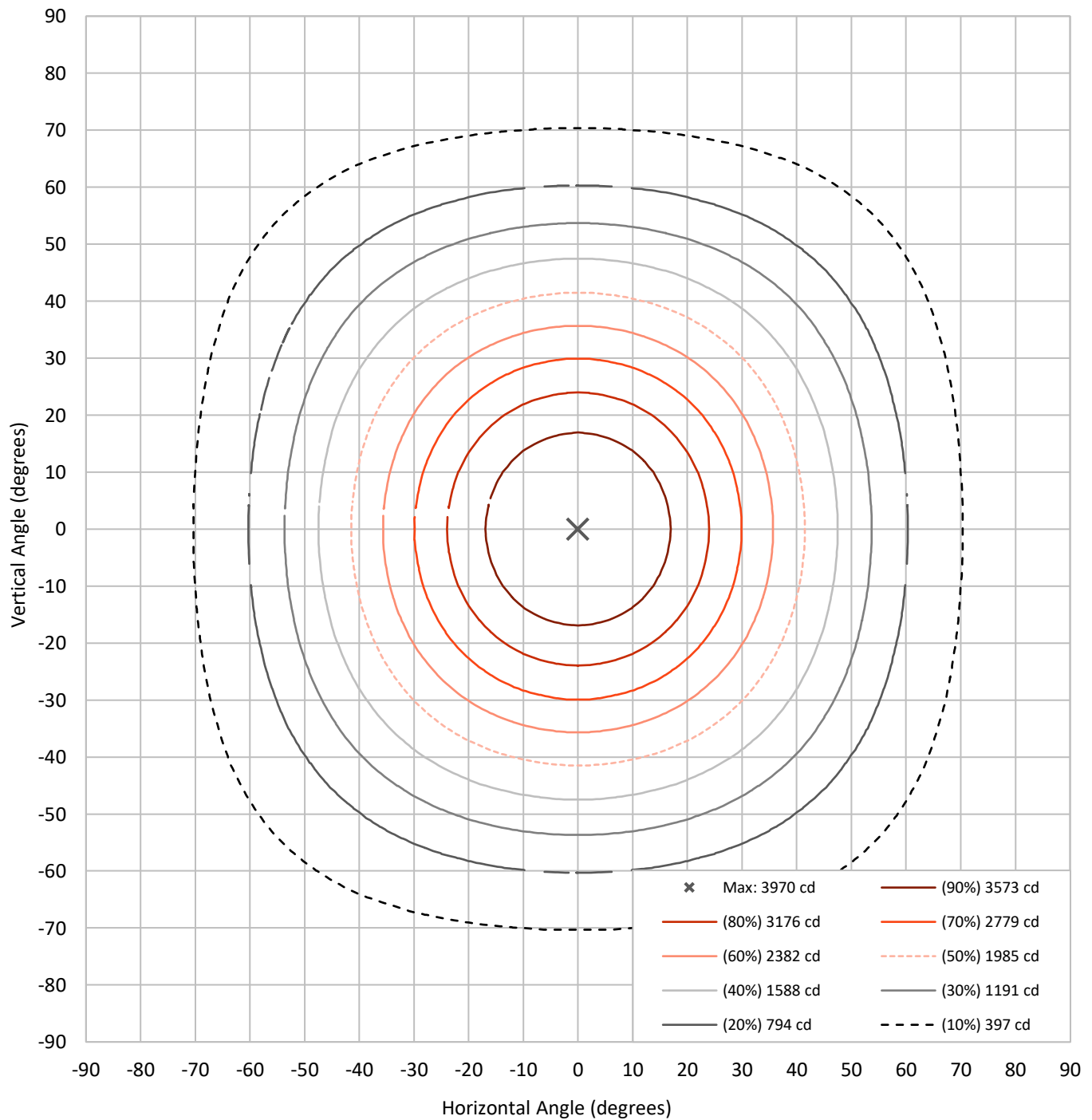
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7630.4 lumens	Max Intensity:	3970 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	35.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	3422.8 lumens	Field Lumens:	5458.2 lumens
Beam Efficiency:	44.9%	Field Efficiency:	71.5%
Input Watts (W):	217.6		
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		



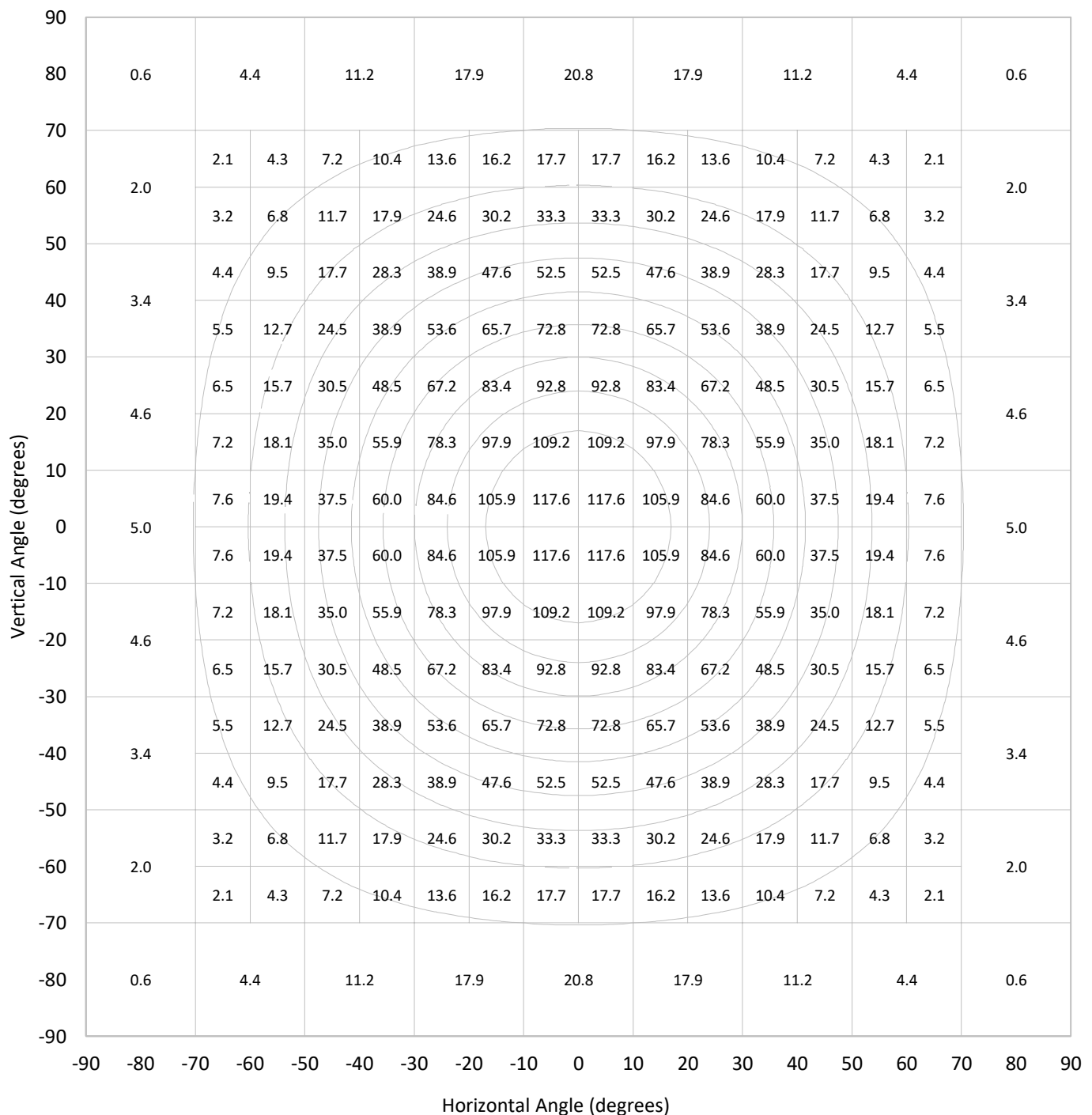
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Iso-Candela Plot



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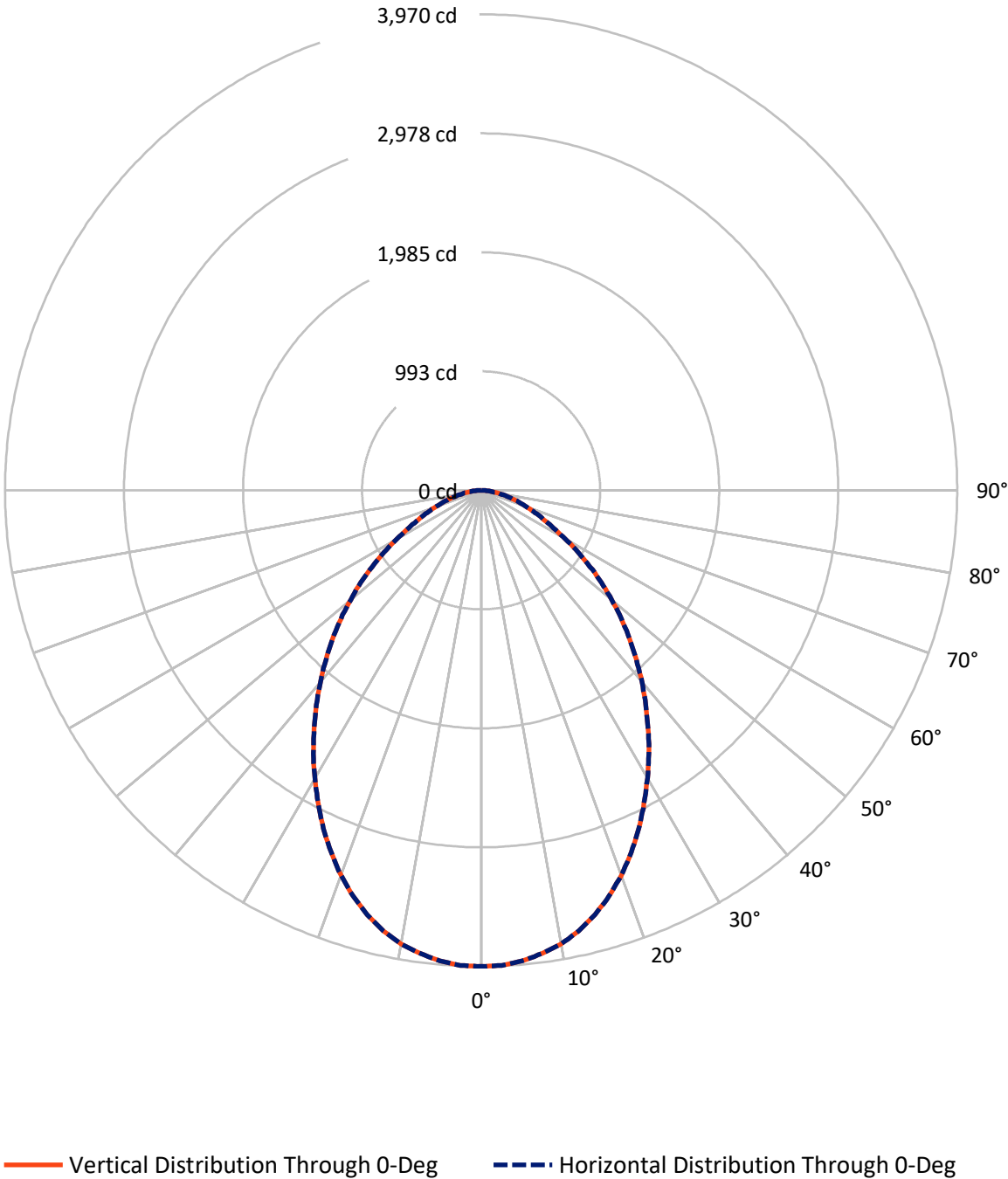
Lumen Table





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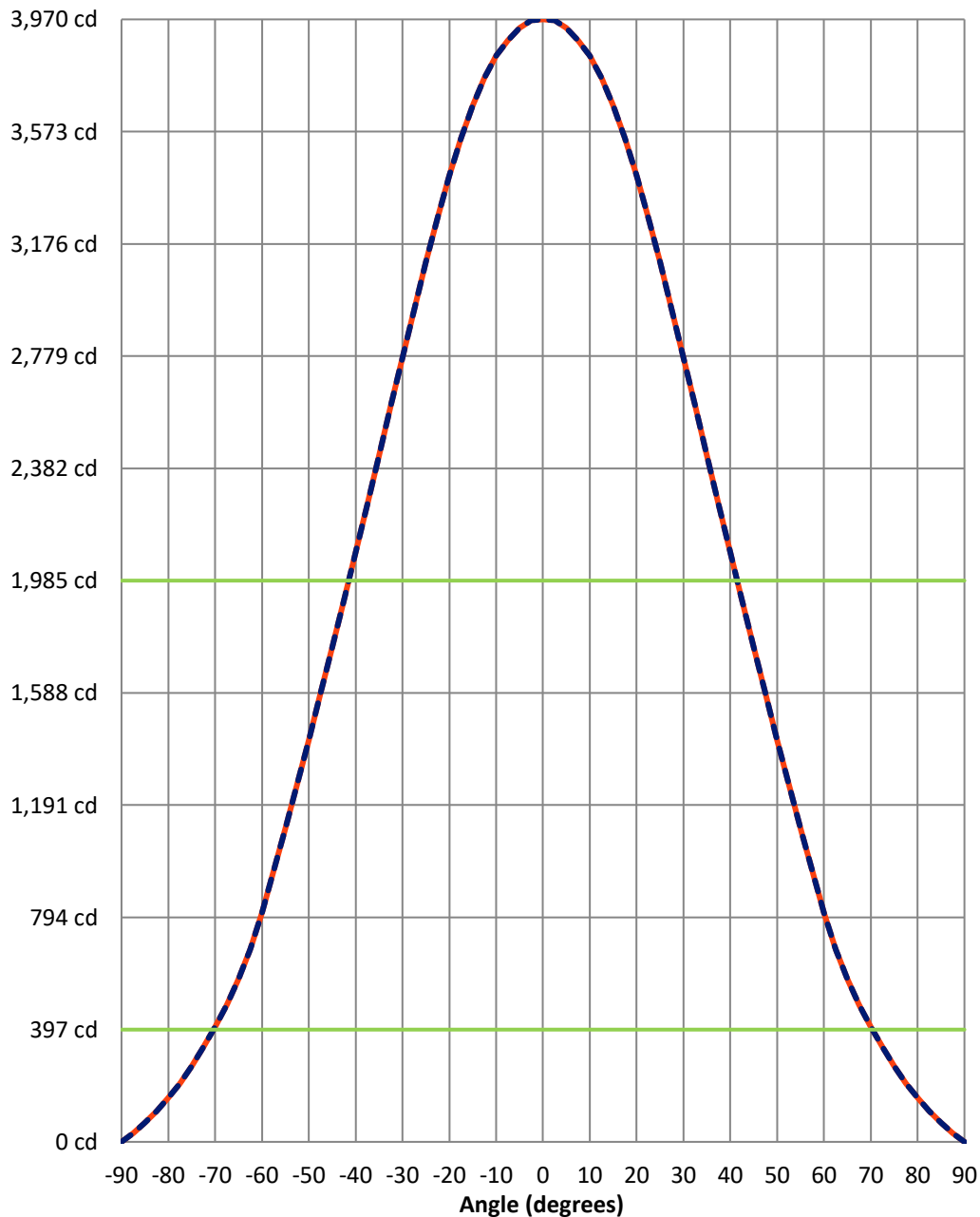
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:

H Angle: 82.9°
V Angle: 82.9°
Lumens: 3422.8
Efficiency: 44.9%

Field:

H Angle: 140.7°
V Angle: 140.7°
Lumens: 5458.2
Efficiency: 71.5%

Spill:

Lumens: 2172.3
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°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	27.1	27.1	27.1
85°	67.8	67.8	67.8	67.8	67.8	64.4	64.4	64.4	64.4	61.0	61.0
82.5°	108.5	108.5	108.5	108.5	105.1	105.1	105.1	101.7	101.7	98.3	98.3
80°	156.0	156.0	156.0	156.0	152.6	152.6	149.2	145.8	145.8	142.4	139.0
77.5°	206.8	206.8	206.8	203.4	203.4	200.0	196.6	193.2	189.9	186.5	183.1
75°	267.8	267.8	267.8	264.4	261.1	257.7	254.3	250.9	244.1	240.7	233.9
72.5°	335.6	335.6	335.6	332.2	328.9	325.5	318.7	311.9	305.1	298.3	291.6
70°	406.8	406.8	406.8	403.4	396.7	393.3	386.5	379.7	369.5	362.8	352.6
67.5°	484.8	484.8	484.8	478.0	474.6	467.9	461.1	450.9	440.7	427.2	417.0
65°	576.3	576.3	573.0	569.6	562.8	552.6	542.4	532.3	518.7	501.8	484.8
62.5°	681.4	681.4	678.1	671.3	661.1	650.9	637.4	623.8	606.9	586.5	566.2
60°	810.3	810.3	803.5	796.7	783.2	769.6	752.6	732.3	708.6	681.4	657.7
57.5°	959.4	959.4	952.7	942.5	925.5	908.6	884.9	861.1	830.6	796.7	766.2
55°	1108.6	1108.6	1098.5	1088.3	1071.3	1051.0	1027.3	1000.1	966.2	928.9	888.3
52.5°	1264.6	1264.6	1254.4	1240.8	1223.9	1200.2	1173.0	1139.1	1101.8	1061.2	1017.1
50°	1420.5	1420.5	1410.4	1393.4	1376.5	1349.3	1318.8	1284.9	1244.2	1196.8	1149.3
47.5°	1586.7	1586.7	1573.1	1556.1	1532.4	1505.3	1468.0	1427.3	1383.2	1335.8	1281.5
45°	1749.4	1749.4	1735.8	1718.9	1691.8	1661.2	1623.9	1586.7	1529.0	1471.4	1410.4
42.5°	1915.5	1915.5	1898.6	1881.6	1854.5	1817.2	1776.5	1729.0	1674.8	1613.8	1549.4
40°	2085.0	2085.0	2068.1	2044.3	2013.8	1976.5	1932.5	1878.2	1817.2	1752.8	1681.6
37.5°	2254.5	2254.5	2234.2	2210.5	2180.0	2135.9	2085.0	2027.4	1963.0	1891.8	1813.8
35°	2427.4	2427.4	2407.1	2380.0	2342.7	2295.2	2241.0	2176.6	2108.8	2030.8	1946.0
32.5°	2603.7	2603.7	2580.0	2549.5	2508.8	2458.0	2396.9	2325.7	2254.5	2166.4	2074.9
30°	2773.3	2773.3	2746.1	2715.6	2674.9	2620.7	2552.9	2474.9	2390.1	2298.6	2200.3
27.5°	2942.8	2936.0	2915.6	2878.3	2830.9	2773.3	2702.1	2620.7	2529.2	2430.8	2322.3
25°	3112.3	3105.5	3081.8	3041.1	2990.2	2925.8	2847.8	2759.7	2664.8	2559.7	2444.4
22.5°	3268.2	3261.5	3234.3	3197.0	3142.8	3071.6	2990.2	2895.3	2790.2	2678.3	2559.7
20°	3417.4	3407.2	3383.5	3339.4	3281.8	3210.6	3122.4	3020.7	2908.9	2790.2	2664.8
17.5°	3549.6	3539.5	3512.3	3471.6	3417.4	3336.0	3244.5	3139.4	3020.7	2895.3	2759.7
15°	3664.9	3654.7	3627.6	3583.5	3525.9	3447.9	3353.0	3244.5	3122.4	2990.2	2847.8
12.5°	3763.2	3753.0	3725.9	3681.8	3620.8	3542.8	3447.9	3336.0	3210.6	3071.6	2925.8
10°	3841.2	3831.0	3803.9	3763.2	3698.8	3620.8	3525.9	3417.4	3281.8	3142.8	2990.2
7.5°	3895.4	3885.3	3861.5	3824.2	3763.2	3681.8	3583.5	3471.6	3339.4	3197.0	3041.1
5°	3939.5	3929.3	3902.2	3861.5	3803.9	3725.9	3627.6	3512.3	3383.5	3234.3	3081.8
2.5°	3966.6	3956.5	3929.3	3885.3	3831.0	3753.0	3654.7	3539.5	3407.2	3261.5	3105.5
0°	3970.0	3966.6	3939.5	3895.4	3841.2	3763.2	3664.9	3549.6	3417.4	3268.2	3112.3

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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°	27.1	27.1	27.1	23.7	23.7	23.7	23.7	20.3	20.3	20.3	17.0
85°	61.0	57.6	57.6	54.2	50.9	50.9	47.5	47.5	44.1	40.7	37.3
82.5°	94.9	91.5	88.1	84.8	84.8	81.4	78.0	71.2	67.8	64.4	61.0
80°	135.6	128.8	125.4	122.1	115.3	111.9	105.1	101.7	94.9	91.5	84.8
77.5°	176.3	172.9	166.1	159.3	152.6	145.8	139.0	132.2	125.4	118.7	108.5
75°	227.1	217.0	210.2	200.0	193.2	186.5	176.3	166.1	156.0	149.2	139.0
72.5°	281.4	271.2	261.1	250.9	237.3	227.1	213.6	203.4	189.9	179.7	166.1
70°	339.0	328.9	315.3	301.7	288.2	274.6	257.7	244.1	227.1	210.2	196.6
67.5°	403.4	389.9	372.9	356.0	339.0	322.1	305.1	288.2	267.8	250.9	230.5
65°	471.2	454.3	434.0	413.6	396.7	376.3	356.0	332.2	311.9	288.2	267.8
62.5°	545.8	525.5	501.8	474.6	454.3	430.6	406.8	379.7	356.0	328.9	305.1
60°	630.6	603.5	576.3	545.8	515.3	484.8	457.7	427.2	400.1	369.5	342.4
57.5°	732.3	695.0	657.7	623.8	586.5	549.2	515.3	478.0	447.5	413.6	379.7
55°	844.2	800.1	756.0	708.6	664.5	620.4	576.3	535.7	495.0	457.7	420.4
52.5°	969.6	918.8	864.5	810.3	752.6	698.4	647.5	596.7	549.2	505.2	461.1
50°	1095.1	1037.4	979.8	915.4	851.0	783.2	722.1	661.1	606.9	556.0	505.2
47.5°	1220.5	1159.5	1091.7	1023.9	959.4	881.5	803.5	735.7	667.9	606.9	549.2
45°	1349.3	1281.5	1210.3	1132.4	1057.8	976.4	895.0	810.3	735.7	661.1	596.7
42.5°	1474.8	1400.2	1322.2	1244.2	1159.5	1071.3	986.6	895.0	803.5	722.1	647.5
40°	1607.0	1525.6	1437.5	1349.3	1264.6	1166.3	1071.3	976.4	881.5	783.2	698.4
37.5°	1732.4	1644.3	1552.7	1454.4	1359.5	1264.6	1159.5	1057.8	959.4	851.0	752.6
35°	1854.5	1762.9	1664.6	1562.9	1454.4	1349.3	1244.2	1132.4	1023.9	915.4	810.3
32.5°	1979.9	1878.2	1773.1	1664.6	1552.7	1437.5	1322.2	1210.3	1091.7	979.8	864.5
30°	2098.6	1990.1	1878.2	1762.9	1644.3	1525.6	1400.2	1281.5	1159.5	1037.4	918.8
27.5°	2213.9	2098.6	1979.9	1854.5	1732.4	1607.0	1474.8	1349.3	1220.5	1095.1	969.6
25°	2322.3	2200.3	2074.9	1946.0	1813.8	1681.6	1549.4	1410.4	1281.5	1149.3	1017.1
22.5°	2430.8	2298.6	2166.4	2030.8	1891.8	1752.8	1613.8	1471.4	1335.8	1196.8	1061.2
20°	2529.2	2390.1	2254.5	2108.8	1963.0	1817.2	1674.8	1529.0	1383.2	1244.2	1101.8
17.5°	2620.7	2474.9	2325.7	2176.6	2027.4	1878.2	1729.0	1586.7	1427.3	1284.9	1139.1
15°	2702.1	2552.9	2396.9	2241.0	2085.0	1932.5	1776.5	1623.9	1468.0	1318.8	1173.0
12.5°	2773.3	2620.7	2458.0	2295.2	2135.9	1976.5	1817.2	1661.2	1505.3	1349.3	1200.2
10°	2830.9	2674.9	2508.8	2342.7	2180.0	2013.8	1854.5	1691.8	1532.4	1376.5	1223.9
7.5°	2878.3	2715.6	2549.5	2380.0	2210.5	2044.3	1881.6	1718.9	1556.1	1393.4	1240.8
5°	2915.6	2746.1	2580.0	2407.1	2234.2	2068.1	1898.6	1735.8	1573.1	1410.4	1254.4
2.5°	2936.0	2773.3	2603.7	2427.4	2254.5	2085.0	1915.5	1749.4	1586.7	1420.5	1264.6
0°	2942.8	2773.3	2603.7	2427.4	2254.5	2085.0	1915.5	1749.4	1586.7	1420.5	1264.6

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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°	17.0	17.0	13.6	13.6	13.6	10.2	10.2	10.2	6.8	6.8	6.8
85°	37.3	33.9	30.5	27.1	27.1	23.7	20.3	17.0	17.0	13.6	10.2
82.5°	57.6	54.2	47.5	44.1	40.7	37.3	30.5	27.1	23.7	20.3	17.0
80°	78.0	74.6	67.8	61.0	57.6	50.9	44.1	37.3	30.5	27.1	20.3
77.5°	101.7	94.9	88.1	81.4	71.2	64.4	57.6	47.5	40.7	33.9	27.1
75°	128.8	118.7	108.5	98.3	88.1	78.0	67.8	61.0	50.9	40.7	30.5
72.5°	156.0	142.4	128.8	118.7	105.1	94.9	81.4	71.2	61.0	47.5	37.3
70°	183.1	169.5	152.6	139.0	125.4	108.5	94.9	81.4	67.8	57.6	44.1
67.5°	210.2	193.2	176.3	159.3	142.4	125.4	108.5	94.9	78.0	64.4	50.9
65°	244.1	220.4	200.0	183.1	162.7	142.4	125.4	105.1	88.1	71.2	57.6
62.5°	278.0	250.9	227.1	203.4	183.1	159.3	139.0	118.7	98.3	81.4	61.0
60°	311.9	284.8	254.3	227.1	200.0	176.3	152.6	128.8	108.5	88.1	67.8
57.5°	349.2	315.3	284.8	250.9	220.4	193.2	169.5	142.4	118.7	94.9	74.6
55°	383.1	349.2	311.9	278.0	244.1	210.2	183.1	156.0	128.8	101.7	78.0
52.5°	420.4	379.7	342.4	305.1	267.8	230.5	196.6	166.1	139.0	108.5	84.8
50°	457.7	413.6	369.5	328.9	288.2	250.9	210.2	179.7	149.2	118.7	91.5
47.5°	495.0	447.5	400.1	356.0	311.9	267.8	227.1	189.9	156.0	125.4	94.9
45°	535.7	478.0	427.2	379.7	332.2	288.2	244.1	203.4	166.1	132.2	101.7
42.5°	576.3	515.3	457.7	406.8	356.0	305.1	257.7	213.6	176.3	139.0	105.1
40°	620.4	549.2	484.8	430.6	376.3	322.1	274.6	227.1	186.5	145.8	111.9
37.5°	664.5	586.5	515.3	454.3	396.7	339.0	288.2	237.3	193.2	152.6	115.3
35°	708.6	623.8	545.8	474.6	413.6	356.0	301.7	250.9	200.0	159.3	122.1
32.5°	756.0	657.7	576.3	501.8	434.0	372.9	315.3	261.1	210.2	166.1	125.4
30°	800.1	695.0	603.5	525.5	454.3	389.9	328.9	271.2	217.0	172.9	128.8
27.5°	844.2	732.3	630.6	545.8	471.2	403.4	339.0	281.4	227.1	176.3	135.6
25°	888.3	766.2	657.7	566.2	484.8	417.0	352.6	291.6	233.9	183.1	139.0
22.5°	928.9	796.7	681.4	586.5	501.8	427.2	362.8	298.3	240.7	186.5	142.4
20°	966.2	830.6	708.6	606.9	518.7	440.7	369.5	305.1	244.1	189.9	145.8
17.5°	1000.1	861.1	732.3	623.8	532.3	450.9	379.7	311.9	250.9	193.2	145.8
15°	1027.3	884.9	752.6	637.4	542.4	461.1	386.5	318.7	254.3	196.6	149.2
12.5°	1051.0	908.6	769.6	650.9	552.6	467.9	393.3	325.5	257.7	200.0	152.6
10°	1071.3	925.5	783.2	661.1	562.8	474.6	396.7	328.9	261.1	203.4	152.6
7.5°	1088.3	942.5	796.7	671.3	569.6	478.0	403.4	332.2	264.4	203.4	156.0
5°	1098.5	952.7	803.5	678.1	573.0	484.8	406.8	335.6	267.8	206.8	156.0
2.5°	1108.6	959.4	810.3	681.4	576.3	484.8	406.8	335.6	267.8	206.8	156.0
0°	1108.6	959.4	810.3	681.4	576.3	484.8	406.8	335.6	267.8	206.8	156.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.4	3.4	0.0	0.0
85°	6.8	6.8	3.4	0.0
82.5°	13.6	6.8	3.4	0.0
80°	17.0	10.2	6.8	0.0
77.5°	20.3	13.6	6.8	0.0
75°	23.7	17.0	6.8	0.0
72.5°	27.1	17.0	10.2	0.0
70°	30.5	20.3	10.2	0.0
67.5°	37.3	23.7	10.2	0.0
65°	40.7	27.1	13.6	0.0
62.5°	44.1	27.1	13.6	0.0
60°	47.5	30.5	13.6	0.0
57.5°	54.2	33.9	17.0	0.0
55°	57.6	37.3	17.0	0.0
52.5°	61.0	37.3	17.0	0.0
50°	64.4	40.7	20.3	0.0
47.5°	67.8	44.1	20.3	0.0
45°	71.2	47.5	20.3	0.0
42.5°	78.0	47.5	23.7	0.0
40°	81.4	50.9	23.7	0.0
37.5°	84.8	50.9	23.7	0.0
35°	84.8	54.2	23.7	0.0
32.5°	88.1	57.6	27.1	0.0
30°	91.5	57.6	27.1	0.0
27.5°	94.9	61.0	27.1	0.0
25°	98.3	61.0	27.1	0.0
22.5°	98.3	61.0	27.1	0.0
20°	101.7	64.4	27.1	0.0
17.5°	101.7	64.4	30.5	0.0
15°	105.1	64.4	30.5	0.0
12.5°	105.1	64.4	30.5	0.0
10°	105.1	67.8	30.5	0.0
7.5°	108.5	67.8	30.5	0.0
5°	108.5	67.8	30.5	0.0
2.5°	108.5	67.8	30.5	0.0
0°	108.5	67.8	30.5	0.0

(END OF REPORT)