

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: P640036

Luminaire Tested: **IFLD-S-SA3A-AMB-U-77**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640036
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-AMB-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

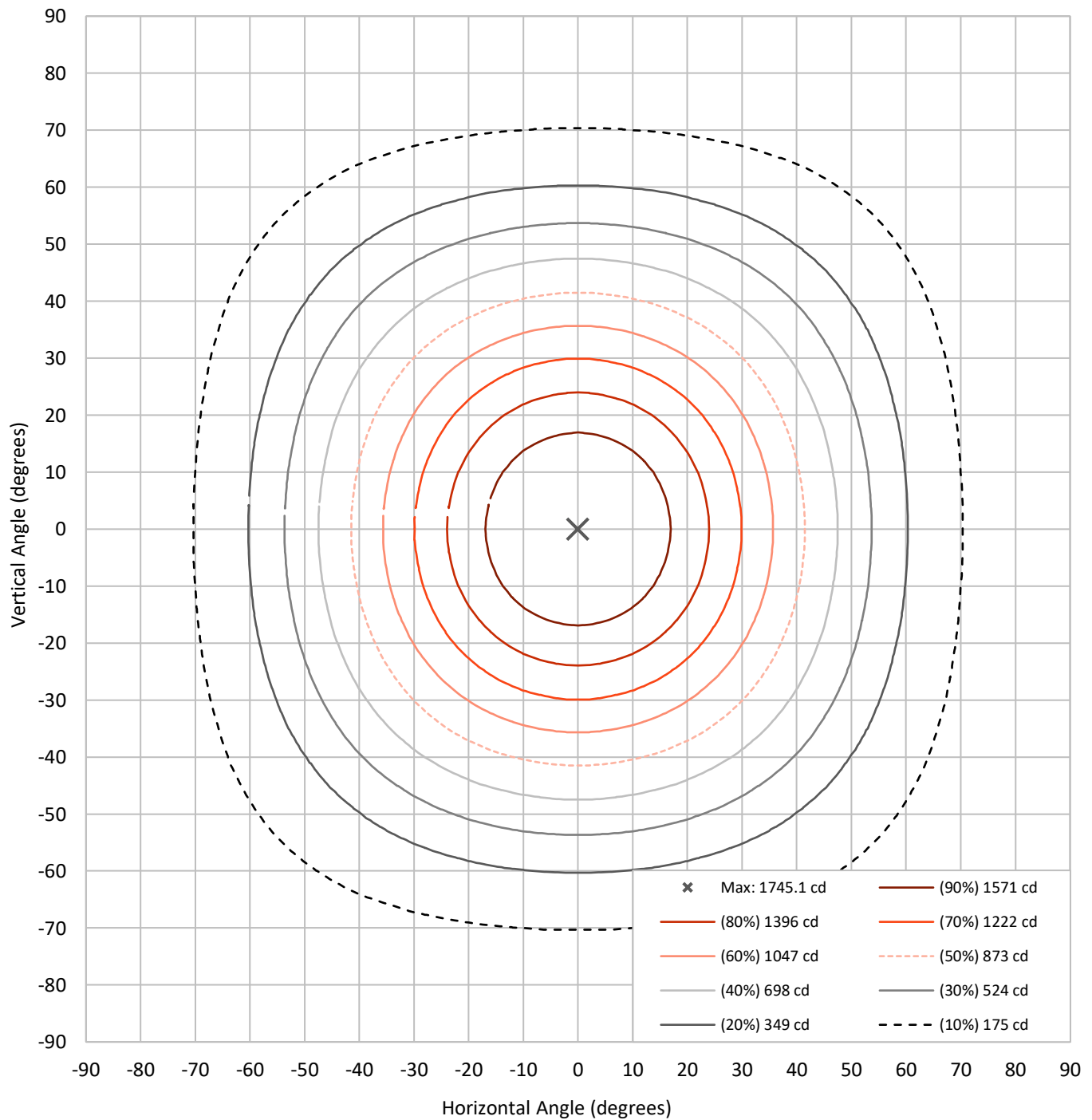
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	3354.1 lumens	Max Intensity:	1745.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	35.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' 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:	1504.6 lumens	Field Lumens:	2399.2 lumens
Beam Efficiency:	44.9%	Field Efficiency:	71.5%
Input Watts (W):	94.8		
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		



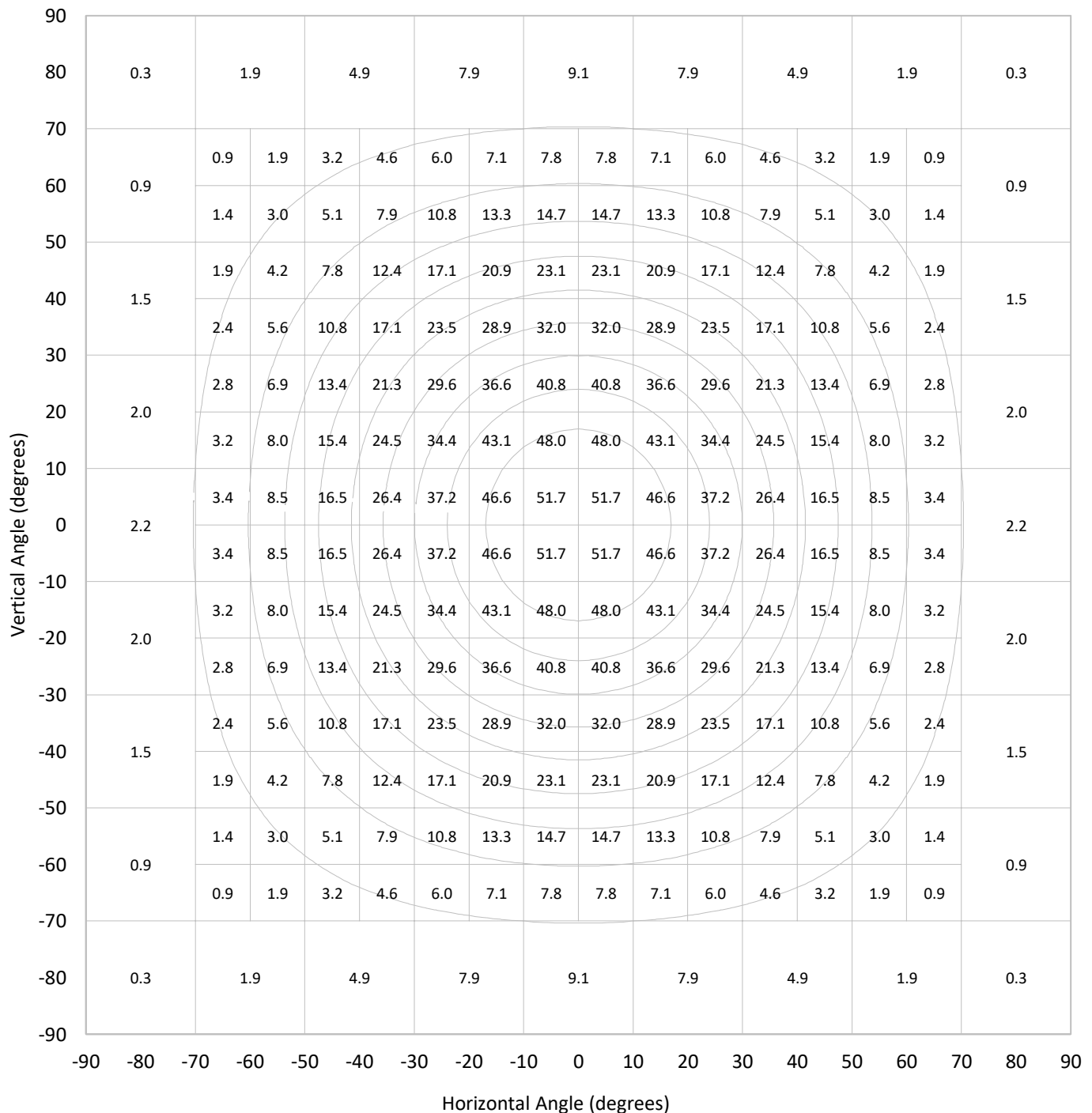
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Iso-Candela Plot



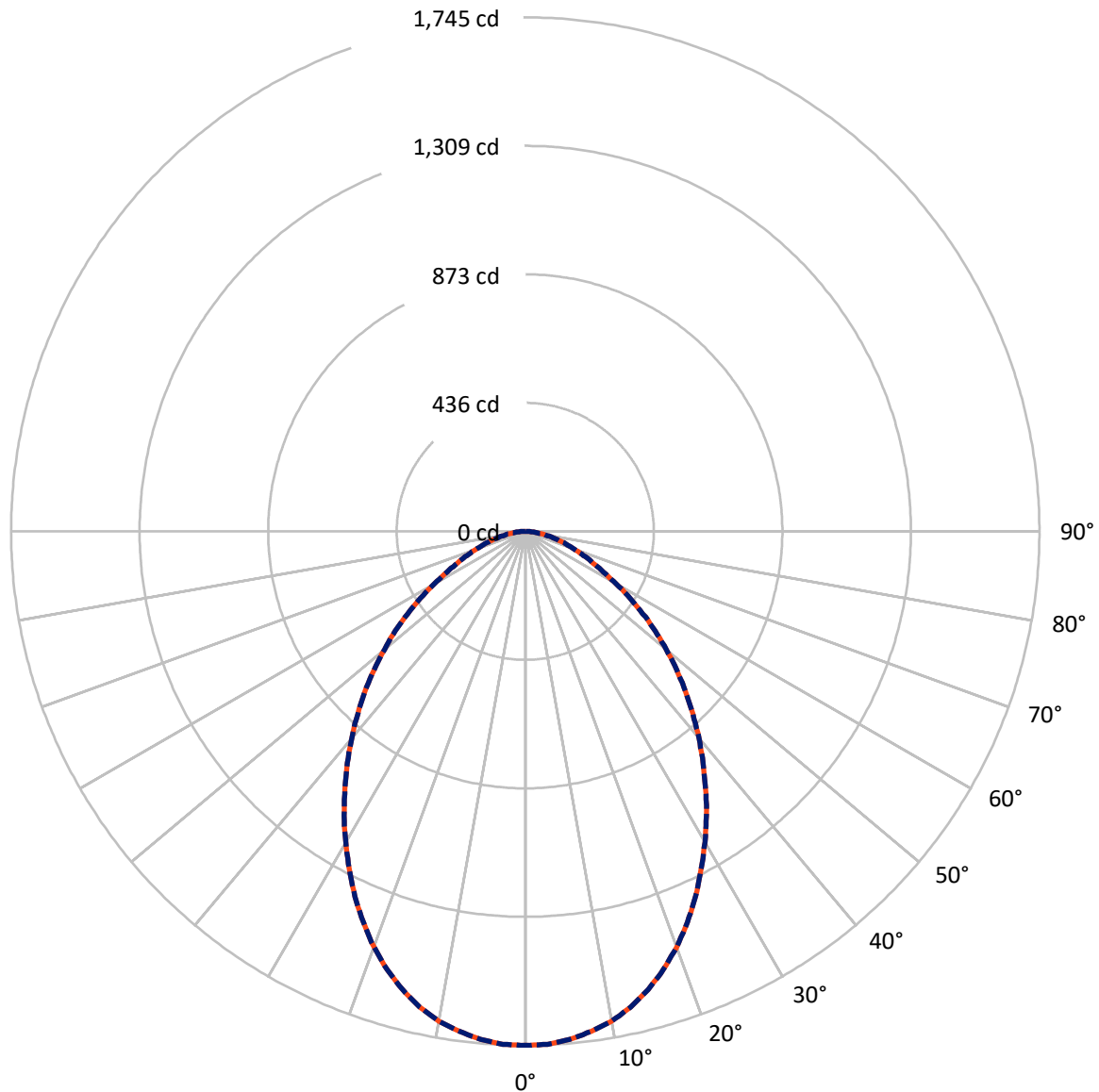
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Lumen Table



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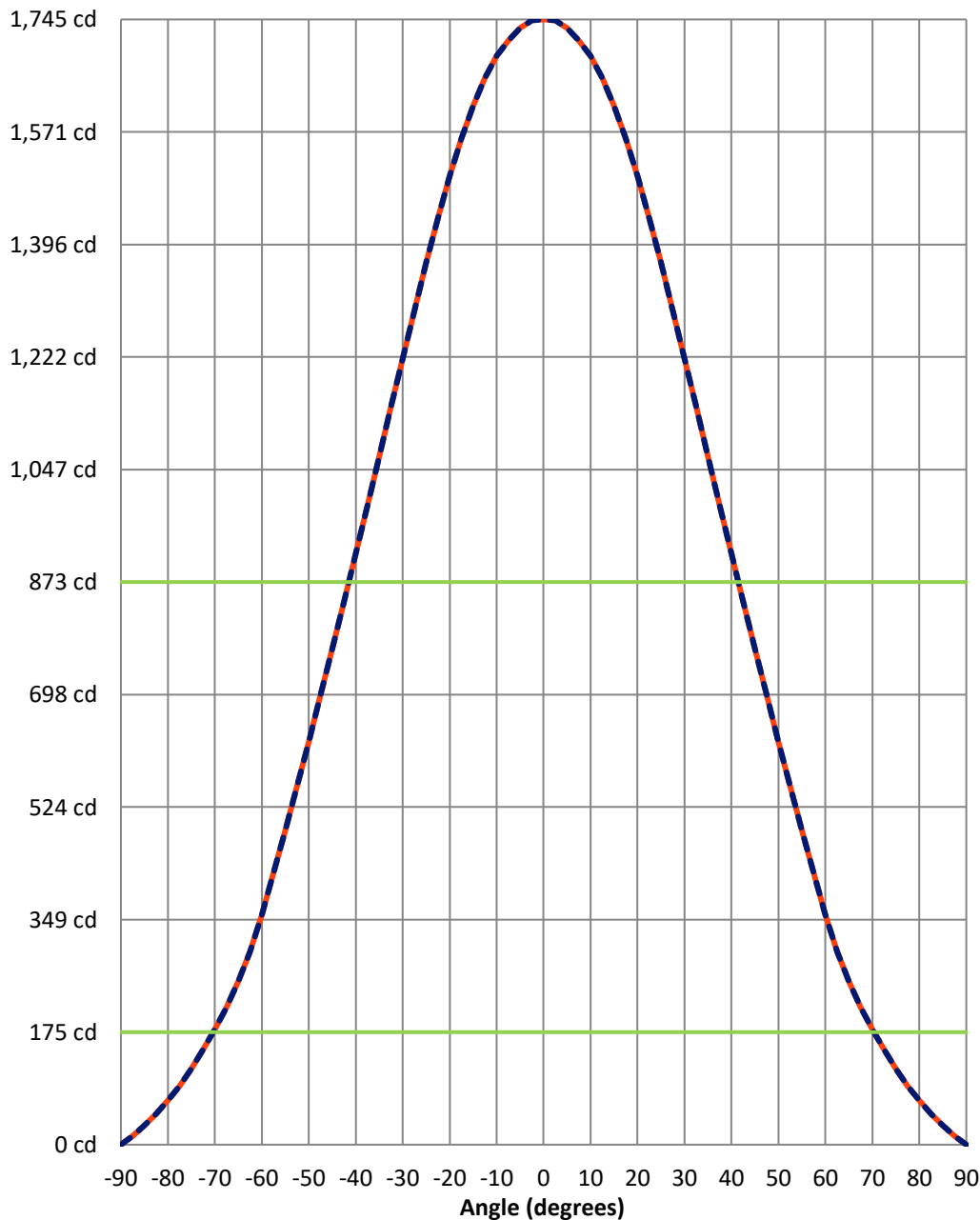
Luminous Intensity Polar Plot



— 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: 1504.6
Efficiency: 44.9%

Field:

H Angle: 140.7°
V Angle: 140.7°
Lumens: 2399.2
Efficiency: 71.5%

Spill:

Lumens: 954.9
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°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	11.9	11.9	11.9
85°	29.8	29.8	29.8	29.8	29.8	28.3	28.3	28.3	28.3	26.8	26.8
82.5°	47.7	47.7	47.7	47.7	46.2	46.2	46.2	44.7	44.7	43.2	43.2
80°	68.6	68.6	68.6	68.6	67.1	67.1	65.6	64.1	64.1	62.6	61.1
77.5°	90.9	90.9	90.9	89.4	89.4	87.9	86.4	84.9	83.5	82.0	80.5
75°	117.7	117.7	117.7	116.2	114.7	113.3	111.8	110.3	107.3	105.8	102.8
72.5°	147.5	147.5	147.5	146.0	144.6	143.1	140.1	137.1	134.1	131.1	128.2
70°	178.8	178.8	178.8	177.3	174.4	172.9	169.9	166.9	162.4	159.5	155.0
67.5°	213.1	213.1	213.1	210.1	208.6	205.7	202.7	198.2	193.7	187.8	183.3
65°	253.3	253.3	251.9	250.4	247.4	242.9	238.4	234.0	228.0	220.6	213.1
62.5°	299.5	299.5	298.0	295.1	290.6	286.1	280.2	274.2	266.8	257.8	248.9
60°	356.2	356.2	353.2	350.2	344.2	338.3	330.8	321.9	311.5	299.5	289.1
57.5°	421.7	421.7	418.8	414.3	406.8	399.4	389.0	378.5	365.1	350.2	336.8
55°	487.3	487.3	482.8	478.4	470.9	462.0	451.5	439.6	424.7	408.3	390.4
52.5°	555.9	555.9	551.4	545.4	538.0	527.5	515.6	500.7	484.3	466.4	447.1
50°	624.4	624.4	619.9	612.5	605.0	593.1	579.7	564.8	546.9	526.1	505.2
47.5°	697.4	697.4	691.5	684.0	673.6	661.7	645.3	627.4	608.0	587.2	563.3
45°	769.0	769.0	763.0	755.6	743.6	730.2	713.8	697.4	672.1	646.8	619.9
42.5°	842.0	842.0	834.5	827.1	815.2	798.8	780.9	760.0	736.2	709.4	681.0
40°	916.5	916.5	909.0	898.6	885.2	868.8	849.4	825.6	798.8	770.5	739.2
37.5°	991.0	991.0	982.1	971.6	958.2	938.9	916.5	891.2	862.8	831.6	797.3
35°	1067.0	1067.0	1058.1	1046.1	1029.8	1008.9	985.0	956.7	926.9	892.7	855.4
32.5°	1144.5	1144.5	1134.1	1120.7	1102.8	1080.4	1053.6	1022.3	991.0	952.3	912.0
30°	1219.0	1219.0	1207.1	1193.7	1175.8	1152.0	1122.2	1087.9	1050.6	1010.4	967.2
27.5°	1293.5	1290.5	1281.6	1265.2	1244.4	1219.0	1187.7	1152.0	1111.7	1068.5	1020.8
25°	1368.0	1365.1	1354.6	1336.7	1314.4	1286.1	1251.8	1213.1	1171.3	1125.1	1074.5
22.5°	1436.6	1433.6	1421.7	1405.3	1381.5	1350.2	1314.4	1272.7	1226.5	1177.3	1125.1
20°	1502.2	1497.7	1487.3	1467.9	1442.6	1411.3	1372.5	1327.8	1278.6	1226.5	1171.3
17.5°	1560.3	1555.8	1543.9	1526.0	1502.2	1466.4	1426.2	1380.0	1327.8	1272.7	1213.1
15°	1610.9	1606.5	1594.6	1575.2	1549.8	1515.6	1473.8	1426.2	1372.5	1314.4	1251.8
12.5°	1654.2	1649.7	1637.8	1618.4	1591.6	1557.3	1515.6	1466.4	1411.3	1350.2	1286.1
10°	1688.4	1684.0	1672.0	1654.2	1625.9	1591.6	1549.8	1502.2	1442.6	1381.5	1314.4
7.5°	1712.3	1707.8	1697.4	1681.0	1654.2	1618.4	1575.2	1526.0	1467.9	1405.3	1336.7
5°	1731.7	1727.2	1715.3	1697.4	1672.0	1637.8	1594.6	1543.9	1487.3	1421.7	1354.6
2.5°	1743.6	1739.1	1727.2	1707.8	1684.0	1649.7	1606.5	1555.8	1497.7	1433.6	1365.1
0°	1745.1	1743.6	1731.7	1712.3	1688.4	1654.2	1610.9	1560.3	1502.2	1436.6	1368.0

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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°	11.9	11.9	11.9	10.4	10.4	10.4	10.4	8.9	8.9	8.9	7.5
85°	26.8	25.3	25.3	23.8	22.4	22.4	20.9	20.9	19.4	17.9	16.4
82.5°	41.7	40.2	38.7	37.3	37.3	35.8	34.3	31.3	29.8	28.3	26.8
80°	59.6	56.6	55.1	53.6	50.7	49.2	46.2	44.7	41.7	40.2	37.3
77.5°	77.5	76.0	73.0	70.0	67.1	64.1	61.1	58.1	55.1	52.2	47.7
75°	99.8	95.4	92.4	87.9	84.9	82.0	77.5	73.0	68.6	65.6	61.1
72.5°	123.7	119.2	114.7	110.3	104.3	99.8	93.9	89.4	83.5	79.0	73.0
70°	149.0	144.6	138.6	132.6	126.7	120.7	113.3	107.3	99.8	92.4	86.4
67.5°	177.3	171.4	163.9	156.5	149.0	141.6	134.1	126.7	117.7	110.3	101.3
65°	207.1	199.7	190.8	181.8	174.4	165.4	156.5	146.0	137.1	126.7	117.7
62.5°	239.9	231.0	220.6	208.6	199.7	189.3	178.8	166.9	156.5	144.6	134.1
60°	277.2	265.3	253.3	239.9	226.5	213.1	201.2	187.8	175.8	162.4	150.5
57.5°	321.9	305.5	289.1	274.2	257.8	241.4	226.5	210.1	196.7	181.8	166.9
55°	371.1	351.7	332.3	311.5	292.1	272.7	253.3	235.5	217.6	201.2	184.8
52.5°	426.2	403.9	380.0	356.2	330.8	307.0	284.6	262.3	241.4	222.0	202.7
50°	481.3	456.0	430.7	402.4	374.1	344.2	317.4	290.6	266.8	244.4	222.0
47.5°	536.5	509.7	479.9	450.1	421.7	387.5	353.2	323.4	293.6	266.8	241.4
45°	593.1	563.3	532.0	497.7	465.0	429.2	393.4	356.2	323.4	290.6	262.3
42.5°	648.3	615.5	581.2	546.9	509.7	470.9	433.7	393.4	353.2	317.4	284.6
40°	706.4	670.6	631.9	593.1	555.9	512.6	470.9	429.2	387.5	344.2	307.0
37.5°	761.5	722.8	682.5	639.3	597.6	555.9	509.7	465.0	421.7	374.1	330.8
35°	815.2	774.9	731.7	687.0	639.3	593.1	546.9	497.7	450.1	402.4	356.2
32.5°	870.3	825.6	779.4	731.7	682.5	631.9	581.2	532.0	479.9	430.7	380.0
30°	922.5	874.8	825.6	774.9	722.8	670.6	615.5	563.3	509.7	456.0	403.9
27.5°	973.1	922.5	870.3	815.2	761.5	706.4	648.3	593.1	536.5	481.3	426.2
25°	1020.8	967.2	912.0	855.4	797.3	739.2	681.0	619.9	563.3	505.2	447.1
22.5°	1068.5	1010.4	952.3	892.7	831.6	770.5	709.4	646.8	587.2	526.1	466.4
20°	1111.7	1050.6	991.0	926.9	862.8	798.8	736.2	672.1	608.0	546.9	484.3
17.5°	1152.0	1087.9	1022.3	956.7	891.2	825.6	760.0	697.4	627.4	564.8	500.7
15°	1187.7	1122.2	1053.6	985.0	916.5	849.4	780.9	713.8	645.3	579.7	515.6
12.5°	1219.0	1152.0	1080.4	1008.9	938.9	868.8	798.8	730.2	661.7	593.1	527.5
10°	1244.4	1175.8	1102.8	1029.8	958.2	885.2	815.2	743.6	673.6	605.0	538.0
7.5°	1265.2	1193.7	1120.7	1046.1	971.6	898.6	827.1	755.6	684.0	612.5	545.4
5°	1281.6	1207.1	1134.1	1058.1	982.1	909.0	834.5	763.0	691.5	619.9	551.4
2.5°	1290.5	1219.0	1144.5	1067.0	991.0	916.5	842.0	769.0	697.4	624.4	555.9
0°	1293.5	1219.0	1144.5	1067.0	991.0	916.5	842.0	769.0	697.4	624.4	555.9

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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°	7.5	7.5	6.0	6.0	6.0	4.5	4.5	4.5	3.0	3.0	3.0
85°	16.4	14.9	13.4	11.9	11.9	10.4	8.9	7.5	7.5	6.0	4.5
82.5°	25.3	23.8	20.9	19.4	17.9	16.4	13.4	11.9	10.4	8.9	7.5
80°	34.3	32.8	29.8	26.8	25.3	22.4	19.4	16.4	13.4	11.9	8.9
77.5°	44.7	41.7	38.7	35.8	31.3	28.3	25.3	20.9	17.9	14.9	11.9
75°	56.6	52.2	47.7	43.2	38.7	34.3	29.8	26.8	22.4	17.9	13.4
72.5°	68.6	62.6	56.6	52.2	46.2	41.7	35.8	31.3	26.8	20.9	16.4
70°	80.5	74.5	67.1	61.1	55.1	47.7	41.7	35.8	29.8	25.3	19.4
67.5°	92.4	84.9	77.5	70.0	62.6	55.1	47.7	41.7	34.3	28.3	22.4
65°	107.3	96.9	87.9	80.5	71.5	62.6	55.1	46.2	38.7	31.3	25.3
62.5°	122.2	110.3	99.8	89.4	80.5	70.0	61.1	52.2	43.2	35.8	26.8
60°	137.1	125.2	111.8	99.8	87.9	77.5	67.1	56.6	47.7	38.7	29.8
57.5°	153.5	138.6	125.2	110.3	96.9	84.9	74.5	62.6	52.2	41.7	32.8
55°	168.4	153.5	137.1	122.2	107.3	92.4	80.5	68.6	56.6	44.7	34.3
52.5°	184.8	166.9	150.5	134.1	117.7	101.3	86.4	73.0	61.1	47.7	37.3
50°	201.2	181.8	162.4	144.6	126.7	110.3	92.4	79.0	65.6	52.2	40.2
47.5°	217.6	196.7	175.8	156.5	137.1	117.7	99.8	83.5	68.6	55.1	41.7
45°	235.5	210.1	187.8	166.9	146.0	126.7	107.3	89.4	73.0	58.1	44.7
42.5°	253.3	226.5	201.2	178.8	156.5	134.1	113.3	93.9	77.5	61.1	46.2
40°	272.7	241.4	213.1	189.3	165.4	141.6	120.7	99.8	82.0	64.1	49.2
37.5°	292.1	257.8	226.5	199.7	174.4	149.0	126.7	104.3	84.9	67.1	50.7
35°	311.5	274.2	239.9	208.6	181.8	156.5	132.6	110.3	87.9	70.0	53.6
32.5°	332.3	289.1	253.3	220.6	190.8	163.9	138.6	114.7	92.4	73.0	55.1
30°	351.7	305.5	265.3	231.0	199.7	171.4	144.6	119.2	95.4	76.0	56.6
27.5°	371.1	321.9	277.2	239.9	207.1	177.3	149.0	123.7	99.8	77.5	59.6
25°	390.4	336.8	289.1	248.9	213.1	183.3	155.0	128.2	102.8	80.5	61.1
22.5°	408.3	350.2	299.5	257.8	220.6	187.8	159.5	131.1	105.8	82.0	62.6
20°	424.7	365.1	311.5	266.8	228.0	193.7	162.4	134.1	107.3	83.5	64.1
17.5°	439.6	378.5	321.9	274.2	234.0	198.2	166.9	137.1	110.3	84.9	64.1
15°	451.5	389.0	330.8	280.2	238.4	202.7	169.9	140.1	111.8	86.4	65.6
12.5°	462.0	399.4	338.3	286.1	242.9	205.7	172.9	143.1	113.3	87.9	67.1
10°	470.9	406.8	344.2	290.6	247.4	208.6	174.4	144.6	114.7	89.4	67.1
7.5°	478.4	414.3	350.2	295.1	250.4	210.1	177.3	146.0	116.2	89.4	68.6
5°	482.8	418.8	353.2	298.0	251.9	213.1	178.8	147.5	117.7	90.9	68.6
2.5°	487.3	421.7	356.2	299.5	253.3	213.1	178.8	147.5	117.7	90.9	68.6
0°	487.3	421.7	356.2	299.5	253.3	213.1	178.8	147.5	117.7	90.9	68.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	0.0	0.0
85°	3.0	3.0	1.5	0.0
82.5°	6.0	3.0	1.5	0.0
80°	7.5	4.5	3.0	0.0
77.5°	8.9	6.0	3.0	0.0
75°	10.4	7.5	3.0	0.0
72.5°	11.9	7.5	4.5	0.0
70°	13.4	8.9	4.5	0.0
67.5°	16.4	10.4	4.5	0.0
65°	17.9	11.9	6.0	0.0
62.5°	19.4	11.9	6.0	0.0
60°	20.9	13.4	6.0	0.0
57.5°	23.8	14.9	7.5	0.0
55°	25.3	16.4	7.5	0.0
52.5°	26.8	16.4	7.5	0.0
50°	28.3	17.9	8.9	0.0
47.5°	29.8	19.4	8.9	0.0
45°	31.3	20.9	8.9	0.0
42.5°	34.3	20.9	10.4	0.0
40°	35.8	22.4	10.4	0.0
37.5°	37.3	22.4	10.4	0.0
35°	37.3	23.8	10.4	0.0
32.5°	38.7	25.3	11.9	0.0
30°	40.2	25.3	11.9	0.0
27.5°	41.7	26.8	11.9	0.0
25°	43.2	26.8	11.9	0.0
22.5°	43.2	26.8	11.9	0.0
20°	44.7	28.3	11.9	0.0
17.5°	44.7	28.3	13.4	0.0
15°	46.2	28.3	13.4	0.0
12.5°	46.2	28.3	13.4	0.0
10°	46.2	29.8	13.4	0.0
7.5°	47.7	29.8	13.4	0.0
5°	47.7	29.8	13.4	0.0
2.5°	47.7	29.8	13.4	0.0
0°	47.7	29.8	13.4	0.0

(END OF REPORT)