

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: P624529

Luminaire Tested: **IFLD-S-SA3A-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624529
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

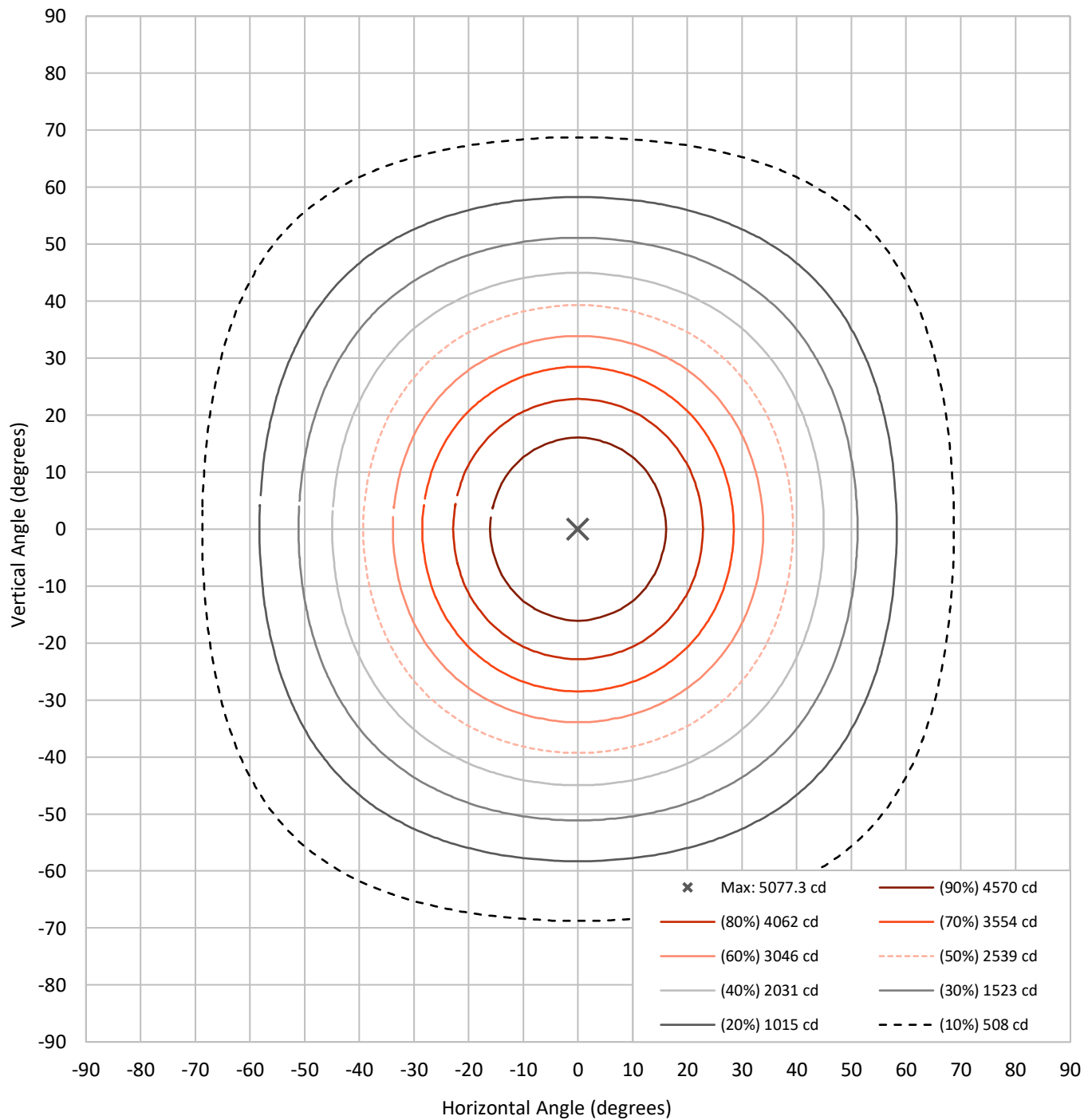
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9141.7 lumens	Max Intensity:	5077.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	96.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	3955.5 lumens	Field Lumens:	6477.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
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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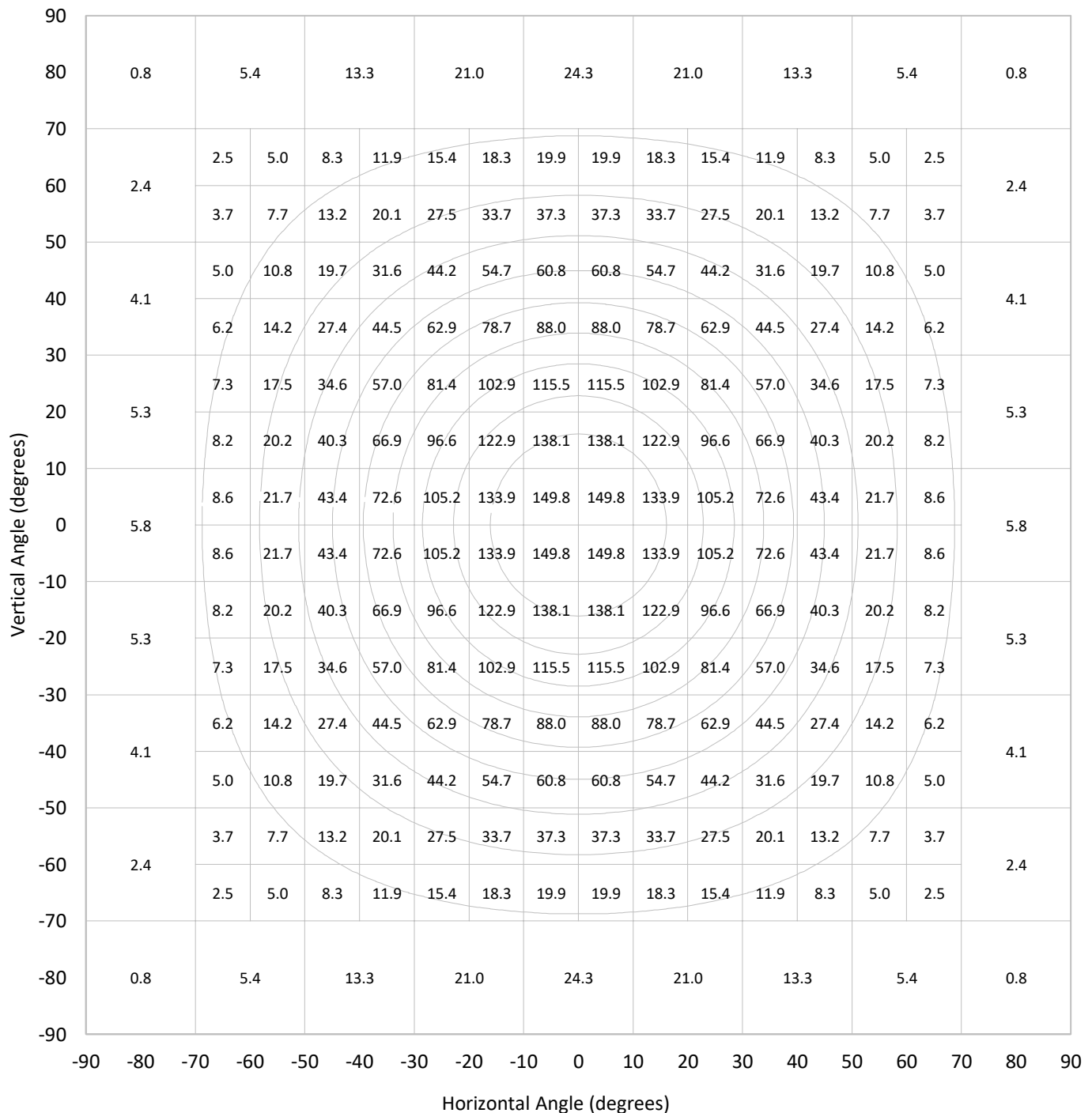
Iso-Candela Plot



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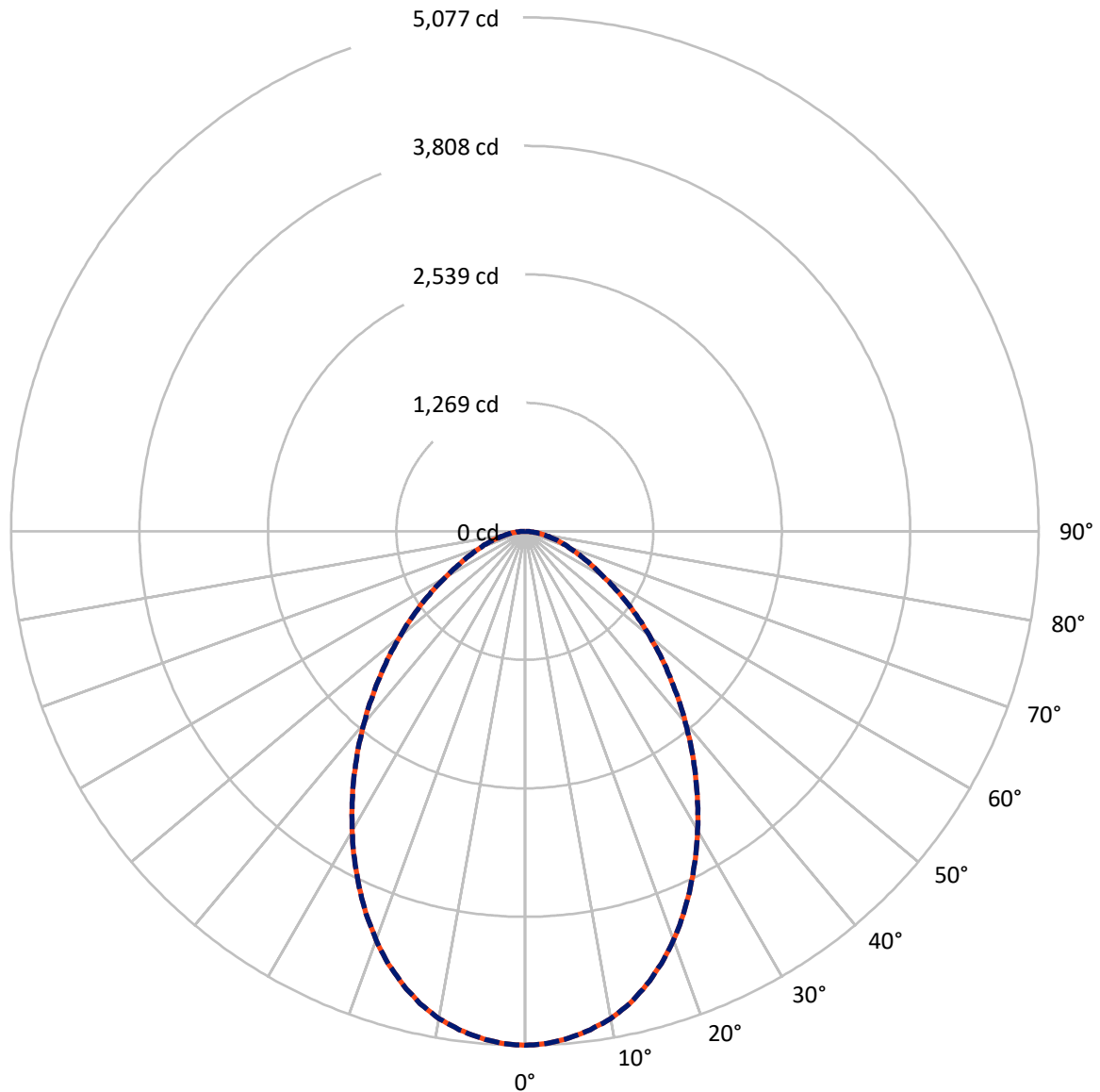
Lumen Table



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Luminous Intensity Polar Plot



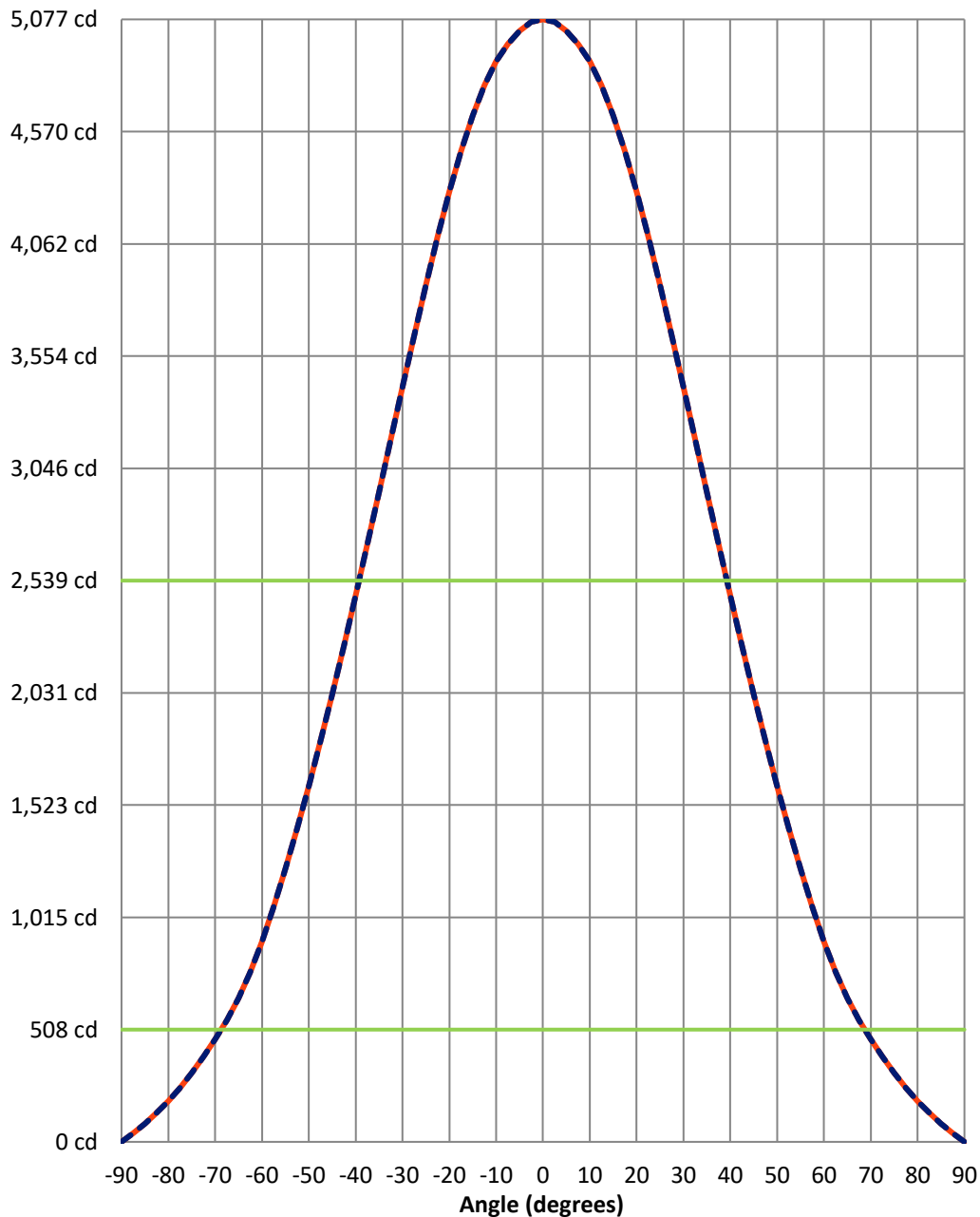
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle:	78.6°
V Angle:	78.6°
Lumens:	3955.5
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	6477.1
Efficiency:	70.9%

Spill:

Lumens:	2664.7
Efficiency:	29.1%

— 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°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	37.2	37.2	36.2	35.3
85°	82.0	82.0	82.0	82.0	82.0	80.1	79.1	78.2	77.2	75.3	74.3
82.5°	131.5	131.5	131.5	131.5	129.6	127.7	126.8	124.9	123.0	120.1	117.2
80°	184.0	184.0	184.0	184.0	181.1	179.2	176.3	174.4	171.6	167.7	163.9
77.5°	244.0	244.0	244.0	241.1	239.2	236.4	233.5	229.7	225.9	221.1	215.4
75°	311.7	311.7	311.7	307.9	305.0	302.1	297.4	292.6	286.9	280.2	272.6
72.5°	385.1	385.1	385.1	380.3	377.4	372.7	367.0	360.3	353.6	345.0	335.5
70°	464.2	464.2	464.2	458.5	453.7	448.9	441.3	433.7	424.1	414.6	403.2
67.5°	550.0	550.0	550.0	543.3	537.6	530.9	522.3	512.8	501.3	488.0	474.7
65°	650.0	650.0	646.2	640.5	633.8	624.3	613.8	600.5	586.2	569.0	550.9
62.5°	768.2	768.2	762.5	755.8	747.2	734.9	720.6	703.4	683.4	661.5	639.5
60°	905.5	905.5	898.8	890.2	877.8	862.6	843.5	821.6	796.8	769.2	742.5
57.5°	1063.7	1063.7	1055.1	1043.7	1028.4	1009.4	985.5	957.9	926.4	892.1	858.8
55°	1235.2	1235.2	1224.8	1211.4	1193.3	1170.4	1141.8	1109.4	1071.3	1032.2	989.3
52.5°	1417.3	1417.3	1404.9	1389.6	1368.7	1342.0	1309.6	1271.5	1227.6	1181.9	1131.4
50°	1608.9	1608.9	1594.6	1577.4	1553.6	1522.1	1485.0	1441.1	1392.5	1339.1	1281.0
47.5°	1813.8	1813.8	1797.6	1777.6	1749.0	1712.8	1668.9	1618.4	1563.1	1503.1	1437.3
45°	2024.4	2024.4	2006.3	1983.4	1952.0	1911.0	1862.4	1813.8	1743.3	1673.7	1597.4
42.5°	2243.6	2243.6	2222.7	2196.9	2160.7	2115.9	2060.6	1997.7	1928.2	1850.0	1767.1
40°	2471.4	2471.4	2447.6	2418.1	2378.0	2326.6	2264.6	2194.1	2115.9	2029.2	1937.7
37.5°	2704.0	2704.0	2677.3	2644.9	2600.1	2542.9	2473.3	2395.2	2307.5	2211.2	2110.2
35°	2938.5	2938.5	2908.9	2873.7	2824.1	2761.2	2685.9	2599.2	2501.9	2397.1	2283.7
32.5°	3177.7	3177.7	3145.3	3105.3	3049.0	2979.5	2896.5	2802.2	2704.0	2582.0	2458.1
30°	3414.1	3414.1	3378.8	3335.0	3274.9	3198.7	3108.1	3004.2	2888.9	2764.0	2630.6
27.5°	3646.6	3637.1	3607.6	3560.9	3495.1	3414.1	3315.9	3203.4	3078.6	2941.3	2798.4
25°	3875.4	3864.9	3832.5	3781.0	3710.5	3621.9	3516.1	3396.0	3261.6	3116.7	2960.4
22.5°	4094.6	4083.2	4048.9	3993.6	3918.3	3822.0	3708.6	3579.9	3437.0	3281.6	3116.7
20°	4297.6	4285.2	4250.0	4191.8	4113.7	4011.7	3891.6	3753.4	3600.9	3437.0	3261.6
17.5°	4480.6	4468.2	4431.1	4371.0	4297.6	4184.2	4060.3	3914.5	3753.4	3579.9	3396.0
15°	4641.7	4628.3	4590.2	4530.2	4446.3	4339.6	4209.0	4060.3	3891.6	3708.6	3516.1
12.5°	4778.9	4765.6	4726.5	4666.5	4579.7	4473.0	4339.6	4184.2	4011.7	3822.0	3621.9
10°	4887.6	4874.3	4837.1	4779.9	4690.3	4579.7	4446.3	4297.6	4113.7	3918.3	3710.5
7.5°	4965.8	4953.4	4919.1	4861.9	4779.9	4666.5	4530.2	4371.0	4191.8	3993.6	3781.0
5°	5024.8	5010.6	4976.2	4919.1	4837.1	4726.5	4590.2	4431.1	4250.0	4048.9	3832.5
2.5°	5065.8	5048.7	5010.6	4953.4	4874.3	4765.6	4628.3	4468.2	4285.2	4083.2	3864.9
0°	5077.3	5065.8	5024.8	4965.8	4887.6	4778.9	4641.7	4480.6	4297.6	4094.6	3875.4

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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°	34.3	34.3	33.4	32.4	31.5	29.5	28.6	27.6	26.7	24.8	23.8
85°	72.4	70.5	68.6	66.7	63.9	62.0	59.1	57.2	54.3	51.5	48.6
82.5°	114.4	111.5	107.7	104.8	101.0	96.3	92.5	87.7	82.9	79.1	74.3
80°	160.1	155.4	150.6	145.8	140.1	134.4	128.7	123.0	116.3	109.6	102.9
77.5°	209.7	203.0	196.3	188.7	182.0	174.4	166.8	159.2	150.6	142.0	133.4
75°	265.0	256.4	246.9	237.3	228.7	218.3	207.8	197.3	185.9	175.4	163.9
72.5°	325.0	314.5	303.1	291.7	279.3	265.9	252.6	238.3	224.9	211.6	197.3
70°	389.8	377.4	363.1	348.8	333.6	317.4	301.2	284.0	266.9	249.7	232.6
67.5°	459.4	444.2	427.0	409.8	390.8	371.7	352.7	332.6	311.7	290.7	270.7
65°	533.7	514.7	494.7	472.7	450.8	428.9	406.0	382.2	358.4	333.6	311.7
62.5°	616.7	592.8	567.1	540.4	515.6	489.0	464.2	434.6	406.0	378.4	350.7
60°	712.9	681.5	650.0	616.7	585.2	550.9	520.4	488.0	455.6	424.1	391.7
57.5°	820.6	780.6	742.5	702.4	660.5	622.4	583.3	544.2	508.0	470.8	435.6
55°	942.6	894.0	846.4	796.8	748.2	700.5	651.0	607.1	562.3	520.4	479.4
52.5°	1076.1	1020.8	961.7	905.5	843.5	784.4	729.1	673.9	621.4	570.9	524.2
50°	1219.0	1154.2	1086.6	1017.9	947.4	877.8	811.1	746.3	685.3	626.2	570.9
47.5°	1367.7	1294.3	1217.1	1139.0	1063.7	978.9	898.8	825.4	752.0	685.3	621.4
45°	1520.2	1437.3	1352.5	1263.8	1175.2	1083.7	995.1	905.5	825.4	746.3	673.9
42.5°	1677.5	1584.1	1489.7	1391.6	1293.4	1193.3	1093.2	995.1	898.8	811.1	729.1
40°	1839.5	1736.6	1628.9	1522.1	1417.3	1302.9	1193.3	1083.7	978.9	877.8	784.4
37.5°	2001.6	1889.1	1772.8	1652.7	1532.6	1417.3	1293.4	1175.2	1063.7	947.4	843.5
35°	2164.5	2040.6	1914.8	1784.2	1652.7	1522.1	1391.6	1263.8	1139.0	1017.9	905.5
32.5°	2328.5	2193.1	2054.0	1914.8	1772.8	1628.9	1489.7	1352.5	1217.1	1086.6	961.7
30°	2489.5	2342.8	2193.1	2040.6	1889.1	1736.6	1584.1	1437.3	1294.3	1154.2	1020.8
27.5°	2646.8	2489.5	2328.5	2164.5	2001.6	1839.5	1677.5	1520.2	1367.7	1219.0	1076.1
25°	2798.4	2630.6	2458.1	2283.7	2110.2	1937.7	1767.1	1597.4	1437.3	1281.0	1131.4
22.5°	2941.3	2764.0	2582.0	2397.1	2211.2	2029.2	1850.0	1673.7	1503.1	1339.1	1181.9
20°	3078.6	2888.9	2704.0	2501.9	2307.5	2115.9	1928.2	1743.3	1563.1	1392.5	1227.6
17.5°	3203.4	3004.2	2802.2	2599.2	2395.2	2194.1	1997.7	1813.8	1618.4	1441.1	1271.5
15°	3315.9	3108.1	2896.5	2685.9	2473.3	2264.6	2060.6	1862.4	1668.9	1485.0	1309.6
12.5°	3414.1	3198.7	2979.5	2761.2	2542.9	2326.6	2115.9	1911.0	1712.8	1522.1	1342.0
10°	3495.1	3274.9	3049.0	2824.1	2600.1	2378.0	2160.7	1952.0	1749.0	1553.6	1368.7
7.5°	3560.9	3335.0	3105.3	2873.7	2644.9	2418.1	2196.9	1983.4	1777.6	1577.4	1389.6
5°	3607.6	3378.8	3145.3	2908.9	2677.3	2447.6	2222.7	2006.3	1797.6	1594.6	1404.9
2.5°	3637.1	3414.1	3177.7	2938.5	2704.0	2471.4	2243.6	2024.4	1813.8	1608.9	1417.3
0°	3646.6	3414.1	3177.7	2938.5	2704.0	2471.4	2243.6	2024.4	1813.8	1608.9	1417.3

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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°	22.9	21.0	19.1	18.1	16.2	15.2	13.3	11.4	10.5	8.6	6.7
85°	45.7	41.9	39.1	36.2	33.4	29.5	26.7	23.8	20.0	17.2	13.3
82.5°	69.6	64.8	60.0	55.3	50.5	45.7	40.0	35.3	30.5	25.7	20.0
80°	96.3	88.6	82.0	75.3	68.6	62.0	54.3	47.7	40.0	33.4	26.7
77.5°	123.9	115.3	105.8	96.3	86.7	78.2	68.6	60.0	51.5	41.9	33.4
75°	153.5	142.0	131.5	119.1	107.7	95.3	83.9	72.4	62.0	51.5	40.0
72.5°	184.0	169.7	155.4	142.0	127.7	113.4	100.1	85.8	72.4	60.0	47.7
70°	215.4	198.2	181.1	164.9	148.7	131.5	116.3	100.1	83.9	68.6	54.3
67.5°	248.8	228.7	208.7	187.8	169.7	150.6	131.5	113.4	95.3	78.2	62.0
65°	285.0	261.2	236.4	214.5	190.6	169.7	148.7	127.7	107.7	86.7	68.6
62.5°	322.2	294.5	266.9	239.2	214.5	187.8	164.9	142.0	119.1	96.3	75.3
60°	360.3	328.8	297.4	266.9	236.4	208.7	181.1	155.4	131.5	105.8	82.0
57.5°	399.4	364.1	328.8	294.5	261.2	228.7	198.2	169.7	142.0	115.3	88.6
55°	439.4	399.4	360.3	322.2	285.0	248.8	215.4	184.0	153.5	123.9	96.3
52.5°	479.4	435.6	391.7	350.7	311.7	270.7	232.6	197.3	163.9	133.4	102.9
50°	520.4	470.8	424.1	378.4	333.6	290.7	249.7	211.6	175.4	142.0	109.6
47.5°	562.3	508.0	455.6	406.0	358.4	311.7	266.9	224.9	185.9	150.6	116.3
45°	607.1	544.2	488.0	434.6	382.2	332.6	284.0	238.3	197.3	159.2	123.0
42.5°	651.0	583.3	520.4	464.2	406.0	352.7	301.2	252.6	207.8	166.8	128.7
40°	700.5	622.4	550.9	489.0	428.9	371.7	317.4	265.9	218.3	174.4	134.4
37.5°	748.2	660.5	585.2	515.6	450.8	390.8	333.6	279.3	228.7	182.0	140.1
35°	796.8	702.4	616.7	540.4	472.7	409.8	348.8	291.7	237.3	188.7	145.8
32.5°	846.4	742.5	650.0	567.1	494.7	427.0	363.1	303.1	246.9	196.3	150.6
30°	894.0	780.6	681.5	592.8	514.7	444.2	377.4	314.5	256.4	203.0	155.4
27.5°	942.6	820.6	712.9	616.7	533.7	459.4	389.8	325.0	265.0	209.7	160.1
25°	989.3	858.8	742.5	639.5	550.9	474.7	403.2	335.5	272.6	215.4	163.9
22.5°	1032.2	892.1	769.2	661.5	569.0	488.0	414.6	345.0	280.2	221.1	167.7
20°	1071.3	926.4	796.8	683.4	586.2	501.3	424.1	353.6	286.9	225.9	171.6
17.5°	1109.4	957.9	821.6	703.4	600.5	512.8	433.7	360.3	292.6	229.7	174.4
15°	1141.8	985.5	843.5	720.6	613.8	522.3	441.3	367.0	297.4	233.5	176.3
12.5°	1170.4	1009.4	862.6	734.9	624.3	530.9	448.9	372.7	302.1	236.4	179.2
10°	1193.3	1028.4	877.8	747.2	633.8	537.6	453.7	377.4	305.0	239.2	181.1
7.5°	1211.4	1043.7	890.2	755.8	640.5	543.3	458.5	380.3	307.9	241.1	184.0
5°	1224.8	1055.1	898.8	762.5	646.2	550.0	464.2	385.1	311.7	244.0	184.0
2.5°	1235.2	1063.7	905.5	768.2	650.0	550.0	464.2	385.1	311.7	244.0	184.0
0°	1235.2	1063.7	905.5	768.2	650.0	550.0	464.2	385.1	311.7	244.0	184.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.8	3.8	1.9	0.0
85°	10.5	6.7	3.8	0.0
82.5°	15.2	10.5	4.8	0.0
80°	20.0	13.3	6.7	0.0
77.5°	25.7	17.2	8.6	0.0
75°	30.5	20.0	10.5	0.0
72.5°	35.3	23.8	11.4	0.0
70°	40.0	26.7	13.3	0.0
67.5°	45.7	29.5	15.2	0.0
65°	50.5	33.4	16.2	0.0
62.5°	55.3	36.2	18.1	0.0
60°	60.0	39.1	19.1	0.0
57.5°	64.8	41.9	21.0	0.0
55°	69.6	45.7	22.9	0.0
52.5°	74.3	48.6	23.8	0.0
50°	79.1	51.5	24.8	0.0
47.5°	82.9	54.3	26.7	0.0
45°	87.7	57.2	27.6	0.0
42.5°	92.5	59.1	28.6	0.0
40°	96.3	62.0	29.5	0.0
37.5°	101.0	63.9	31.5	0.0
35°	104.8	66.7	32.4	0.0
32.5°	107.7	68.6	33.4	0.0
30°	111.5	70.5	34.3	0.0
27.5°	114.4	72.4	34.3	0.0
25°	117.2	74.3	35.3	0.0
22.5°	120.1	75.3	36.2	0.0
20°	123.0	77.2	37.2	0.0
17.5°	124.9	78.2	37.2	0.0
15°	126.8	79.1	39.1	0.0
12.5°	127.7	80.1	39.1	0.0
10°	129.6	82.0	39.1	0.0
7.5°	131.5	82.0	39.1	0.0
5°	131.5	82.0	39.1	0.0
2.5°	131.5	82.0	39.1	0.0
0°	131.5	82.0	39.1	0.0

(END OF REPORT)