

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: P640040

Luminaire Tested: **IFLD-L-SA8A-AMB-U-77**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640040
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-AMB-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

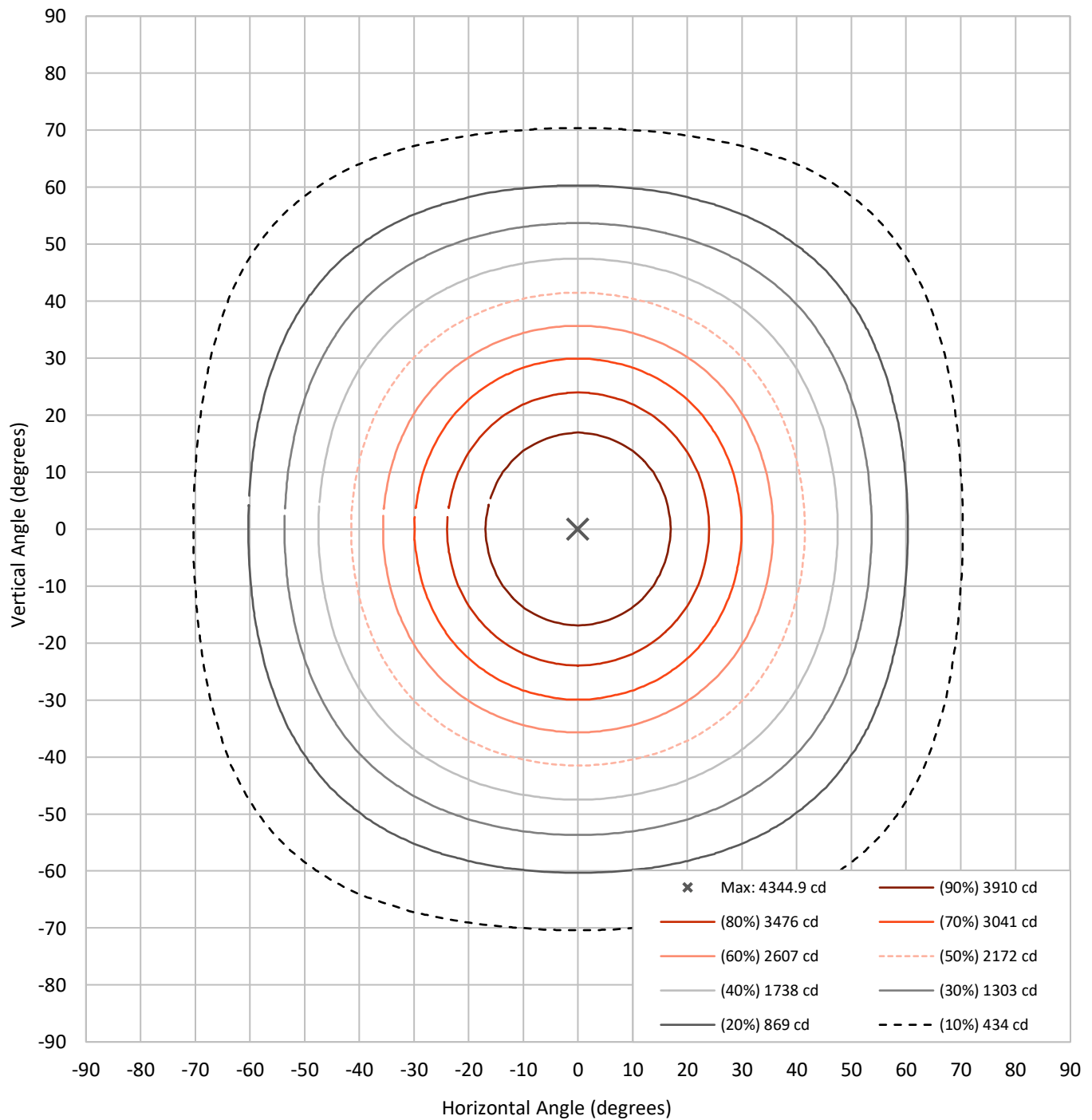
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8351 lumens	Max Intensity:	4344.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	33.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	83°H x 83°V	Field Angle (10%):	140.7°H x 140.7°V
Beam Lumens:	3746.1 lumens	Field Lumens:	5973.6 lumens
Beam Efficiency:	44.9%	Field Efficiency:	71.5%
Input Watts (W):	247.8		
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		



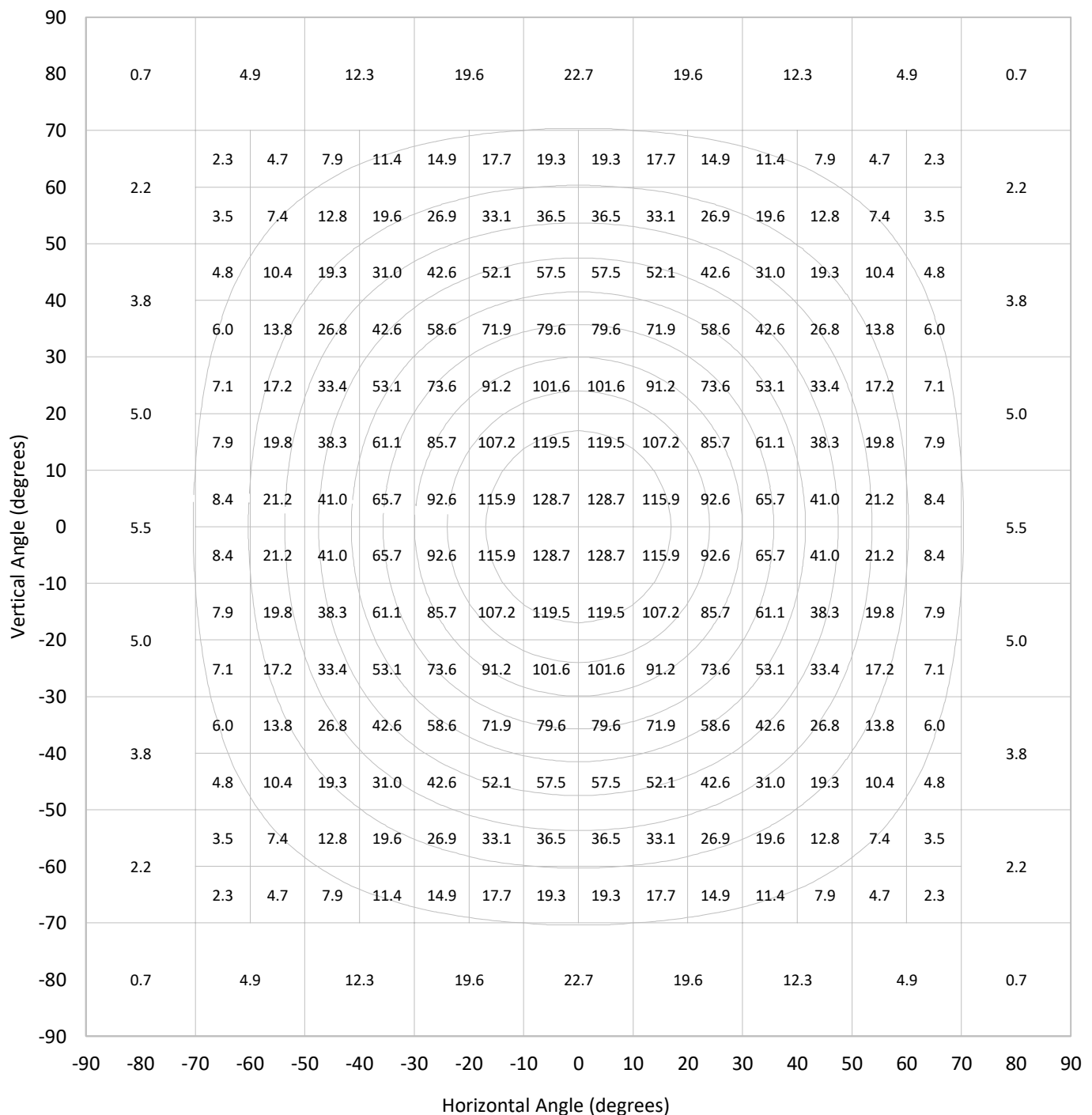
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Iso-Candela Plot



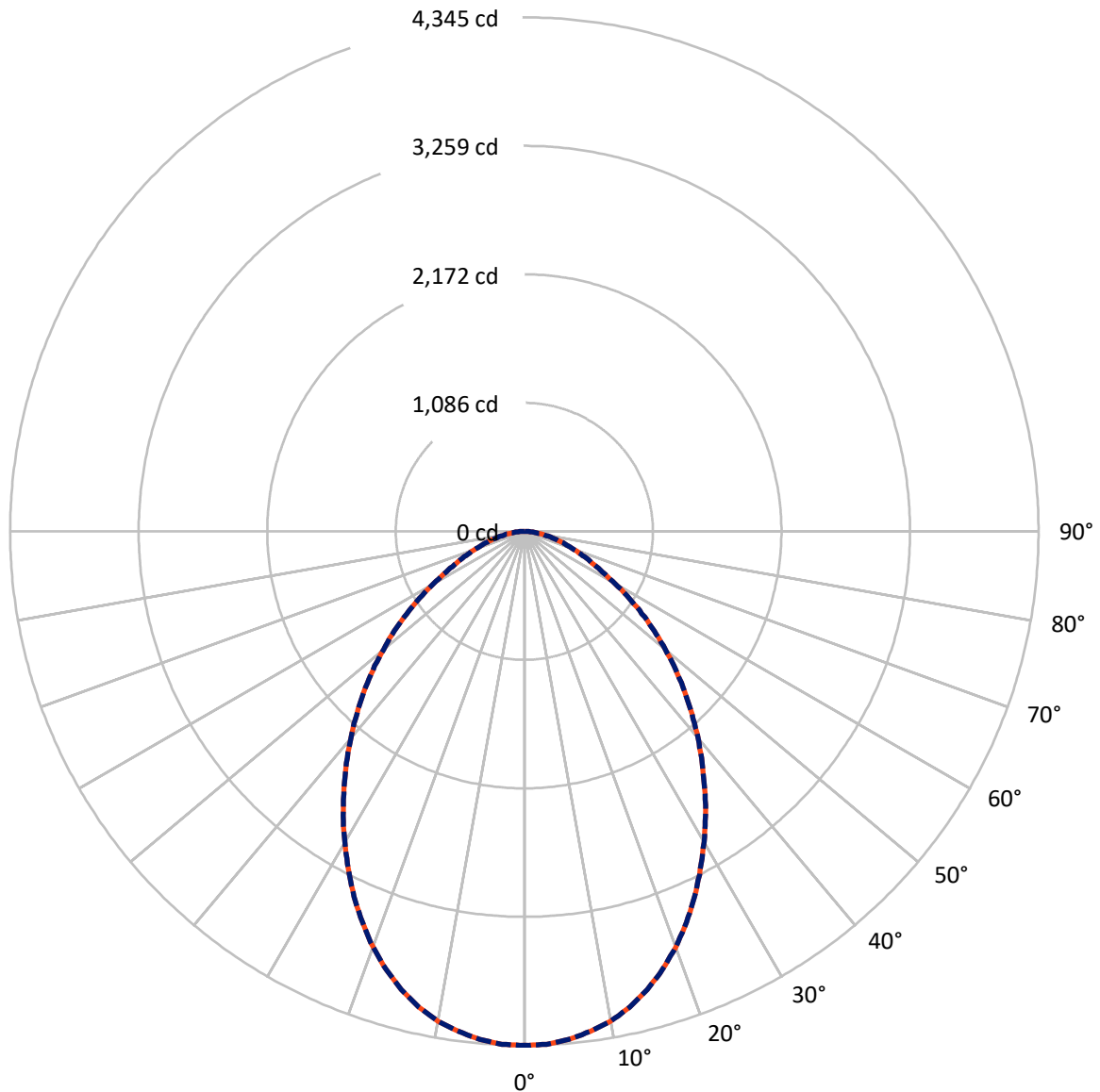
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Lumen Table



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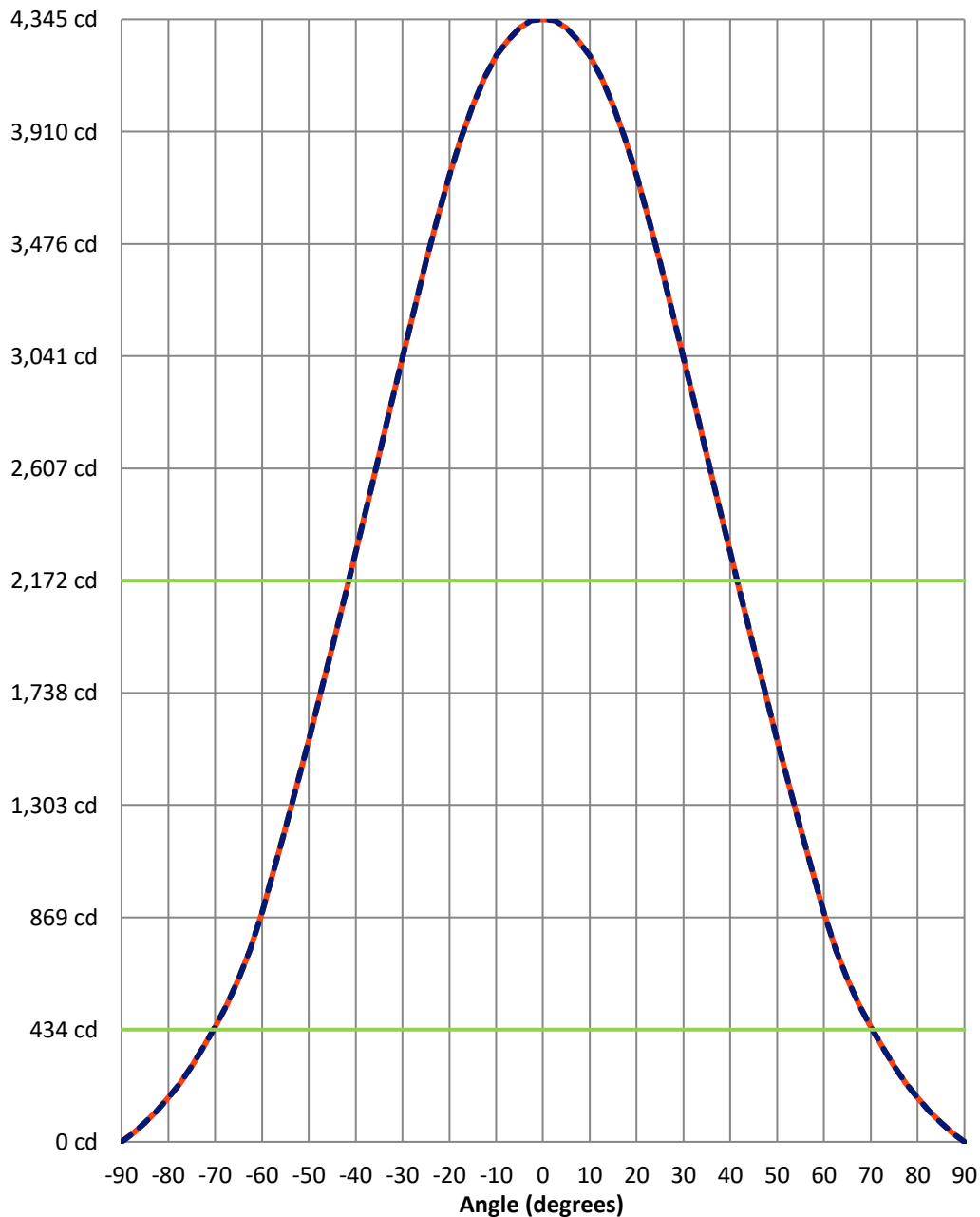
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:

H Angle: 83°
V Angle: 83°
Lumens: 3746.1
Efficiency: 44.9%

Field:

H Angle: 140.7°
V Angle: 140.7°
Lumens: 5973.6
Efficiency: 71.5%

Spill:

Lumens: 2377.4
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°	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	29.7	29.7	29.7
85°	74.2	74.2	74.2	74.2	74.2	70.5	70.5	70.5	70.5	66.8	66.8
82.5°	118.7	118.7	118.7	118.7	115.0	115.0	115.0	111.3	111.3	107.6	107.6
80°	170.7	170.7	170.7	170.7	167.0	167.0	163.3	159.5	159.5	155.8	152.1
77.5°	226.3	226.3	226.3	222.6	222.6	218.9	215.2	211.5	207.8	204.1	200.4
75°	293.1	293.1	293.1	289.4	285.7	282.0	278.3	274.6	267.2	263.4	256.0
72.5°	367.3	367.3	367.3	363.6	359.9	356.2	348.8	341.4	333.9	326.5	319.1
70°	445.3	445.3	445.3	441.5	434.1	430.4	423.0	415.6	404.4	397.0	385.9
67.5°	530.6	530.6	530.6	523.2	519.5	512.0	504.6	493.5	482.4	467.5	456.4
65°	630.8	630.8	627.1	623.4	615.9	604.8	593.7	582.5	567.7	549.1	530.6
62.5°	745.8	745.8	742.1	734.7	723.5	712.4	697.6	682.7	664.2	641.9	619.6
60°	886.8	886.8	879.4	872.0	857.1	842.3	823.7	801.5	775.5	745.8	719.8
57.5°	1050.1	1050.1	1042.6	1031.5	1012.9	994.4	968.4	942.4	909.1	872.0	838.6
55°	1213.3	1213.3	1202.2	1191.0	1172.5	1150.2	1124.3	1094.6	1057.5	1016.7	972.1
52.5°	1384.0	1384.0	1372.9	1358.0	1339.5	1313.5	1283.8	1246.7	1205.9	1161.4	1113.1
50°	1554.7	1554.7	1543.5	1525.0	1506.4	1476.7	1443.4	1406.3	1361.7	1309.8	1257.8
47.5°	1736.5	1736.5	1721.6	1703.1	1677.1	1647.4	1606.6	1562.1	1513.9	1461.9	1402.5
45°	1914.6	1914.6	1899.7	1881.2	1851.5	1818.1	1777.3	1736.5	1673.4	1610.3	1543.5
42.5°	2096.4	2096.4	2077.8	2059.3	2029.6	1988.8	1944.3	1892.3	1833.0	1766.2	1695.7
40°	2281.9	2281.9	2263.4	2237.4	2204.0	2163.2	2114.9	2055.6	1988.8	1918.3	1840.4
37.5°	2467.4	2467.4	2445.2	2419.2	2385.8	2337.6	2281.9	2218.8	2148.3	2070.4	1985.1
35°	2656.7	2656.7	2634.4	2604.7	2563.9	2512.0	2452.6	2382.1	2307.9	2222.5	2129.8
32.5°	2849.6	2849.6	2823.6	2790.2	2745.7	2690.1	2623.3	2545.4	2467.4	2371.0	2270.8
30°	3035.1	3035.1	3005.4	2972.1	2927.5	2868.2	2794.0	2708.6	2615.9	2515.7	2408.1
27.5°	3220.7	3213.2	3191.0	3150.2	3098.2	3035.1	2957.2	2868.2	2768.0	2660.4	2541.6
25°	3406.2	3398.8	3372.8	3328.3	3272.6	3202.1	3116.8	3020.3	2916.4	2801.4	2675.2
22.5°	3576.9	3569.4	3539.7	3498.9	3439.6	3361.6	3272.6	3168.7	3053.7	2931.2	2801.4
20°	3740.1	3729.0	3703.0	3654.8	3591.7	3513.8	3417.3	3306.0	3183.5	3053.7	2916.4
17.5°	3884.8	3873.7	3844.0	3799.5	3740.1	3651.1	3550.9	3435.9	3306.0	3168.7	3020.3
15°	4011.0	3999.8	3970.2	3921.9	3858.8	3773.5	3669.6	3550.9	3417.3	3272.6	3116.8
12.5°	4118.6	4107.4	4077.8	4029.5	3962.7	3877.4	3773.5	3651.1	3513.8	3361.6	3202.1
10°	4203.9	4192.8	4163.1	4118.6	4048.1	3962.7	3858.8	3740.1	3591.7	3439.6	3272.6
7.5°	4263.3	4252.1	4226.2	4185.4	4118.6	4029.5	3921.9	3799.5	3654.8	3498.9	3328.3
5°	4311.5	4300.4	4270.7	4226.2	4163.1	4077.8	3970.2	3844.0	3703.0	3539.7	3372.8
2.5°	4341.2	4330.1	4300.4	4252.1	4192.8	4107.4	3999.8	3873.7	3729.0	3569.4	3398.8
0°	4344.9	4341.2	4311.5	4263.3	4203.9	4118.6	4011.0	3884.8	3740.1	3576.9	3406.2

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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°	29.7	29.7	29.7	26.0	26.0	26.0	26.0	22.3	22.3	22.3	18.6
85°	66.8	63.1	63.1	59.4	55.7	55.7	51.9	51.9	48.2	44.5	40.8
82.5°	103.9	100.2	96.5	92.8	92.8	89.1	85.3	77.9	74.2	70.5	66.8
80°	148.4	141.0	137.3	133.6	126.2	122.4	115.0	111.3	103.9	100.2	92.8
77.5°	192.9	189.2	181.8	174.4	167.0	159.5	152.1	144.7	137.3	129.9	118.7
75°	248.6	237.5	230.0	218.9	211.5	204.1	192.9	181.8	170.7	163.3	152.1
72.5°	308.0	296.8	285.7	274.6	259.7	248.6	233.8	222.6	207.8	196.7	181.8
70°	371.0	359.9	345.1	330.2	315.4	300.5	282.0	267.2	248.6	230.0	215.2
67.5°	441.5	426.7	408.1	389.6	371.0	352.5	333.9	315.4	293.1	274.6	252.3
65°	515.7	497.2	474.9	452.7	434.1	411.9	389.6	363.6	341.4	315.4	293.1
62.5°	597.4	575.1	549.1	519.5	497.2	471.2	445.3	415.6	389.6	359.9	333.9
60°	690.1	660.5	630.8	597.4	564.0	530.6	500.9	467.5	437.8	404.4	374.8
57.5°	801.5	760.6	719.8	682.7	641.9	601.1	564.0	523.2	489.8	452.7	415.6
55°	923.9	875.7	827.4	775.5	727.2	679.0	630.8	586.2	541.7	500.9	460.1
52.5°	1061.2	1005.5	946.2	886.8	823.7	764.3	708.7	653.0	601.1	552.9	504.6
50°	1198.5	1135.4	1072.3	1001.8	931.3	857.1	790.3	723.5	664.2	608.5	552.9
47.5°	1335.8	1269.0	1194.8	1120.5	1050.1	964.7	879.4	805.2	731.0	664.2	601.1
45°	1476.7	1402.5	1324.6	1239.3	1157.7	1068.6	979.6	886.8	805.2	723.5	653.0
42.5°	1614.0	1532.4	1447.1	1361.7	1269.0	1172.5	1079.7	979.6	879.4	790.3	708.7
40°	1758.7	1669.7	1573.2	1476.7	1384.0	1276.4	1172.5	1068.6	964.7	857.1	764.3
37.5°	1896.0	1799.6	1699.4	1591.8	1487.9	1384.0	1269.0	1157.7	1050.1	931.3	823.7
35°	2029.6	1929.4	1821.8	1710.5	1591.8	1476.7	1361.7	1239.3	1120.5	1001.8	886.8
32.5°	2166.9	2055.6	1940.6	1821.8	1699.4	1573.2	1447.1	1324.6	1194.8	1072.3	946.2
30°	2296.8	2178.0	2055.6	1929.4	1799.6	1669.7	1532.4	1402.5	1269.0	1135.4	1005.5
27.5°	2422.9	2296.8	2166.9	2029.6	1896.0	1758.7	1614.0	1476.7	1335.8	1198.5	1061.2
25°	2541.6	2408.1	2270.8	2129.8	1985.1	1840.4	1695.7	1543.5	1402.5	1257.8	1113.1
22.5°	2660.4	2515.7	2371.0	2222.5	2070.4	1918.3	1766.2	1610.3	1461.9	1309.8	1161.4
20°	2768.0	2615.9	2467.4	2307.9	2148.3	1988.8	1833.0	1673.4	1513.9	1361.7	1205.9
17.5°	2868.2	2708.6	2545.4	2382.1	2218.8	2055.6	1892.3	1736.5	1562.1	1406.3	1246.7
15°	2957.2	2794.0	2623.3	2452.6	2281.9	2114.9	1944.3	1777.3	1606.6	1443.4	1283.8
12.5°	3035.1	2868.2	2690.1	2512.0	2337.6	2163.2	1988.8	1818.1	1647.4	1476.7	1313.5
10°	3098.2	2927.5	2745.7	2563.9	2385.8	2204.0	2029.6	1851.5	1677.1	1506.4	1339.5
7.5°	3150.2	2972.1	2790.2	2604.7	2419.2	2237.4	2059.3	1881.2	1703.1	1525.0	1358.0
5°	3191.0	3005.4	2823.6	2634.4	2445.2	2263.4	2077.8	1899.7	1721.6	1543.5	1372.9
2.5°	3213.2	3035.1	2849.6	2656.7	2467.4	2281.9	2096.4	1914.6	1736.5	1554.7	1384.0
0°	3220.7	3035.1	2849.6	2656.7	2467.4	2281.9	2096.4	1914.6	1736.5	1554.7	1384.0

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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°	18.6	18.6	14.8	14.8	14.8	11.1	11.1	11.1	7.4	7.4	7.4
85°	40.8	37.1	33.4	29.7	29.7	26.0	22.3	18.6	18.6	14.8	11.1
82.5°	63.1	59.4	51.9	48.2	44.5	40.8	33.4	29.7	26.0	22.3	18.6
80°	85.3	81.6	74.2	66.8	63.1	55.7	48.2	40.8	33.4	29.7	22.3
77.5°	111.3	103.9	96.5	89.1	77.9	70.5	63.1	51.9	44.5	37.1	29.7
75°	141.0	129.9	118.7	107.6	96.5	85.3	74.2	66.8	55.7	44.5	33.4
72.5°	170.7	155.8	141.0	129.9	115.0	103.9	89.1	77.9	66.8	51.9	40.8
70°	200.4	185.5	167.0	152.1	137.3	118.7	103.9	89.1	74.2	63.1	48.2
67.5°	230.0	211.5	192.9	174.4	155.8	137.3	118.7	103.9	85.3	70.5	55.7
65°	267.2	241.2	218.9	200.4	178.1	155.8	137.3	115.0	96.5	77.9	63.1
62.5°	304.3	274.6	248.6	222.6	200.4	174.4	152.1	129.9	107.6	89.1	66.8
60°	341.4	311.7	278.3	248.6	218.9	192.9	167.0	141.0	118.7	96.5	74.2
57.5°	382.2	345.1	311.7	274.6	241.2	211.5	185.5	155.8	129.9	103.9	81.6
55°	419.3	382.2	341.4	304.3	267.2	230.0	200.4	170.7	141.0	111.3	85.3
52.5°	460.1	415.6	374.8	333.9	293.1	252.3	215.2	181.8	152.1	118.7	92.8
50°	500.9	452.7	404.4	359.9	315.4	274.6	230.0	196.7	163.3	129.9	100.2
47.5°	541.7	489.8	437.8	389.6	341.4	293.1	248.6	207.8	170.7	137.3	103.9
45°	586.2	523.2	467.5	415.6	363.6	315.4	267.2	222.6	181.8	144.7	111.3
42.5°	630.8	564.0	500.9	445.3	389.6	333.9	282.0	233.8	192.9	152.1	115.0
40°	679.0	601.1	530.6	471.2	411.9	352.5	300.5	248.6	204.1	159.5	122.4
37.5°	727.2	641.9	564.0	497.2	434.1	371.0	315.4	259.7	211.5	167.0	126.2
35°	775.5	682.7	597.4	519.5	452.7	389.6	330.2	274.6	218.9	174.4	133.6
32.5°	827.4	719.8	630.8	549.1	474.9	408.1	345.1	285.7	230.0	181.8	137.3
30°	875.7	760.6	660.5	575.1	497.2	426.7	359.9	296.8	237.5	189.2	141.0
27.5°	923.9	801.5	690.1	597.4	515.7	441.5	371.0	308.0	248.6	192.9	148.4
25°	972.1	838.6	719.8	619.6	530.6	456.4	385.9	319.1	256.0	200.4	152.1
22.5°	1016.7	872.0	745.8	641.9	549.1	467.5	397.0	326.5	263.4	204.1	155.8
20°	1057.5	909.1	775.5	664.2	567.7	482.4	404.4	333.9	267.2	207.8	159.5
17.5°	1094.6	942.4	801.5	682.7	582.5	493.5	415.6	341.4	274.6	211.5	159.5
15°	1124.3	968.4	823.7	697.6	593.7	504.6	423.0	348.8	278.3	215.2	163.3
12.5°	1150.2	994.4	842.3	712.4	604.8	512.0	430.4	356.2	282.0	218.9	167.0
10°	1172.5	1012.9	857.1	723.5	615.9	519.5	434.1	359.9	285.7	222.6	167.0
7.5°	1191.0	1031.5	872.0	734.7	623.4	523.2	441.5	363.6	289.4	222.6	170.7
5°	1202.2	1042.6	879.4	742.1	627.1	530.6	445.3	367.3	293.1	226.3	170.7
2.5°	1213.3	1050.1	886.8	745.8	630.8	530.6	445.3	367.3	293.1	226.3	170.7
0°	1213.3	1050.1	886.8	745.8	630.8	530.6	445.3	367.3	293.1	226.3	170.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.7	3.7	0.0	0.0
85°	7.4	7.4	3.7	0.0
82.5°	14.8	7.4	3.7	0.0
80°	18.6	11.1	7.4	0.0
77.5°	22.3	14.8	7.4	0.0
75°	26.0	18.6	7.4	0.0
72.5°	29.7	18.6	11.1	0.0
70°	33.4	22.3	11.1	0.0
67.5°	40.8	26.0	11.1	0.0
65°	44.5	29.7	14.8	0.0
62.5°	48.2	29.7	14.8	0.0
60°	51.9	33.4	14.8	0.0
57.5°	59.4	37.1	18.6	0.0
55°	63.1	40.8	18.6	0.0
52.5°	66.8	40.8	18.6	0.0
50°	70.5	44.5	22.3	0.0
47.5°	74.2	48.2	22.3	0.0
45°	77.9	51.9	22.3	0.0
42.5°	85.3	51.9	26.0	0.0
40°	89.1	55.7	26.0	0.0
37.5°	92.8	55.7	26.0	0.0
35°	92.8	59.4	26.0	0.0
32.5°	96.5	63.1	29.7	0.0
30°	100.2	63.1	29.7	0.0
27.5°	103.9	66.8	29.7	0.0
25°	107.6	66.8	29.7	0.0
22.5°	107.6	66.8	29.7	0.0
20°	111.3	70.5	29.7	0.0
17.5°	111.3	70.5	33.4	0.0
15°	115.0	70.5	33.4	0.0
12.5°	115.0	70.5	33.4	0.0
10°	115.0	74.2	33.4	0.0
7.5°	118.7	74.2	33.4	0.0
5°	118.7	74.2	33.4	0.0
2.5°	118.7	74.2	33.4	0.0
0°	118.7	74.2	33.4	0.0

(END OF REPORT)