

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: P623741

Luminaire Tested: **IFLD-M-SA4C-760-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623741
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-760-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	30324 lumens	Max Intensity:	37057.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	139.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

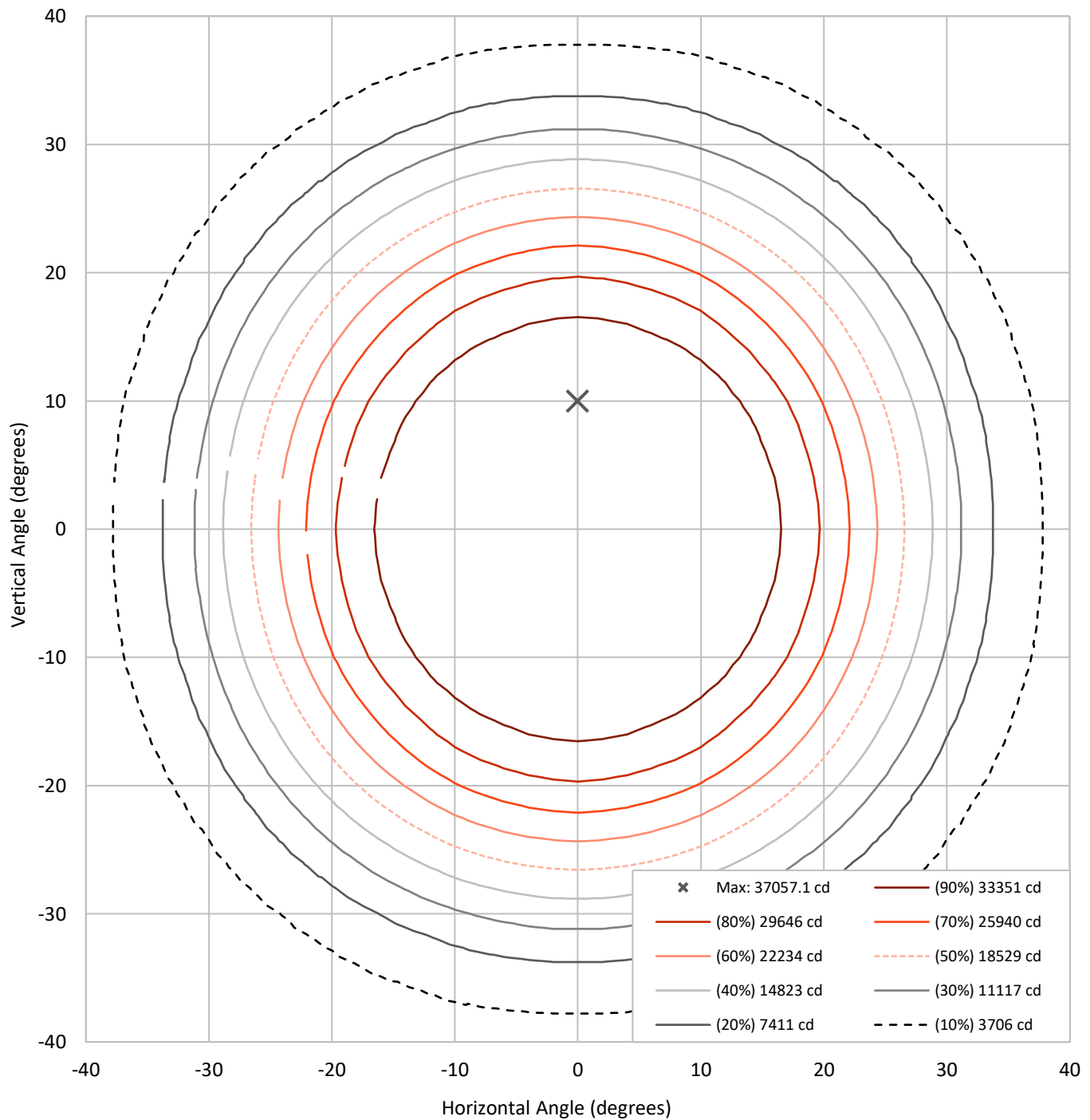
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	15071.7 lumens	Field Lumens:	19601.3 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (A_{in}): 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



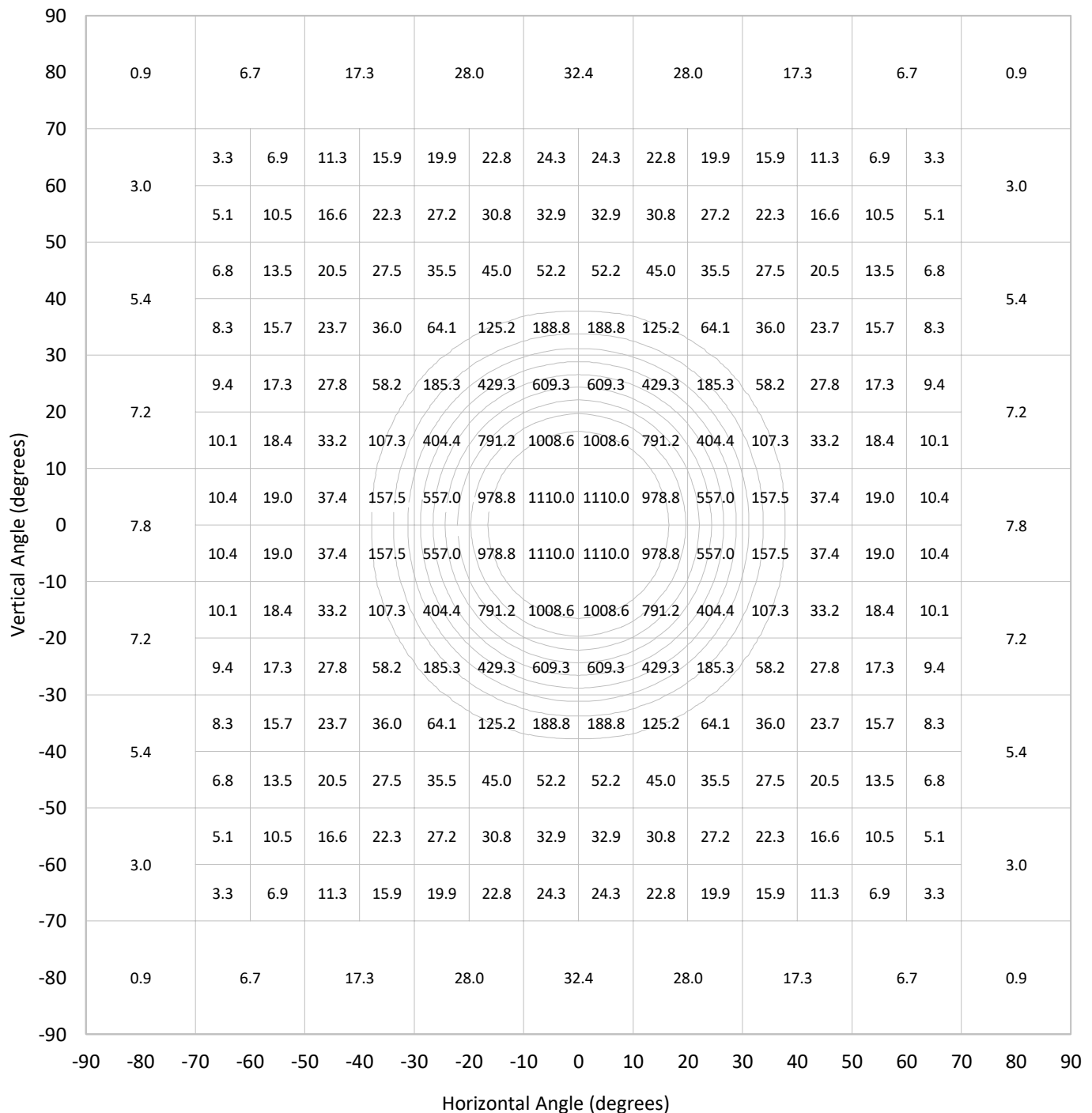
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Iso-Candela Plot



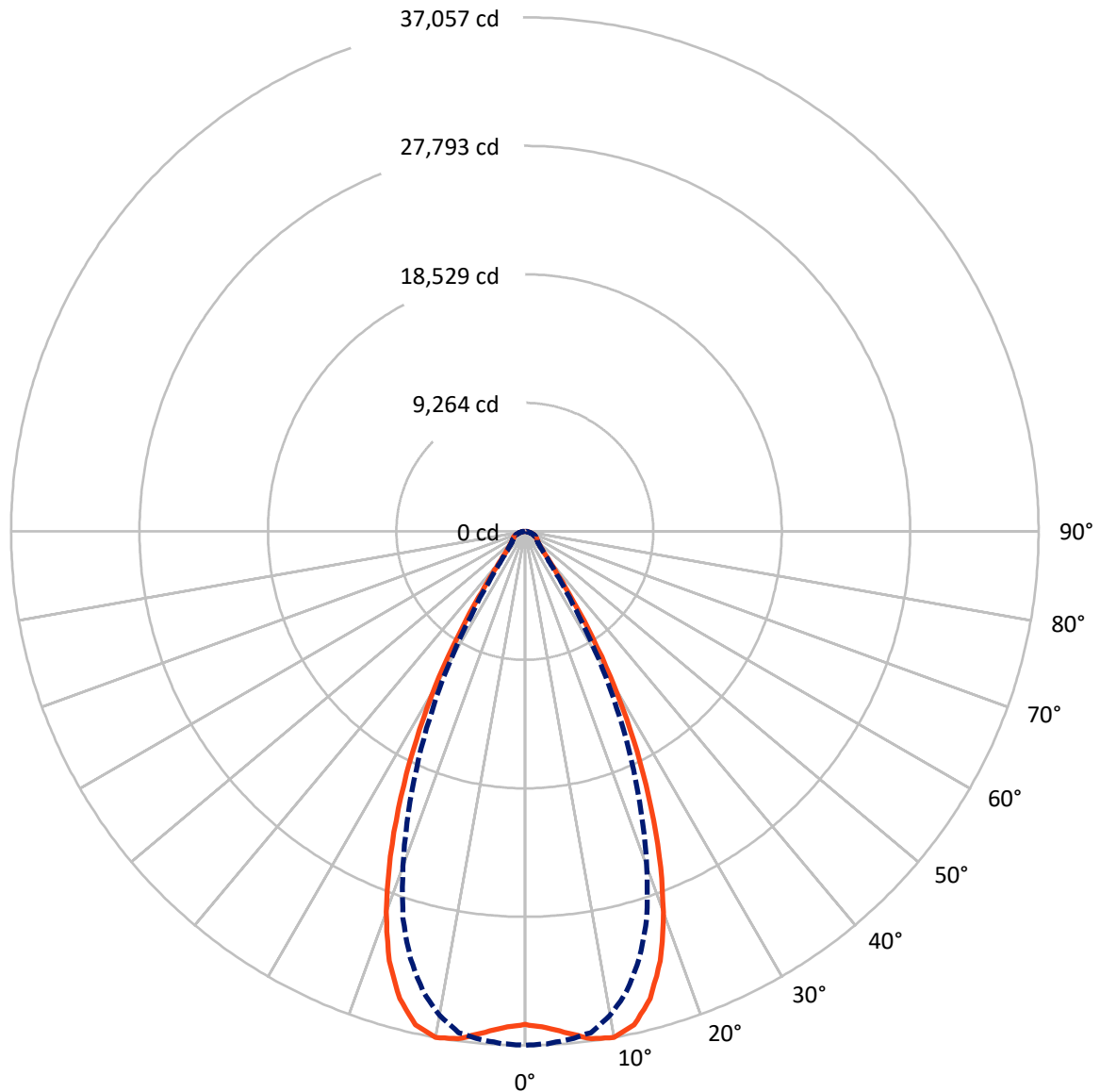
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Lumen Table



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Luminous Intensity Polar Plot

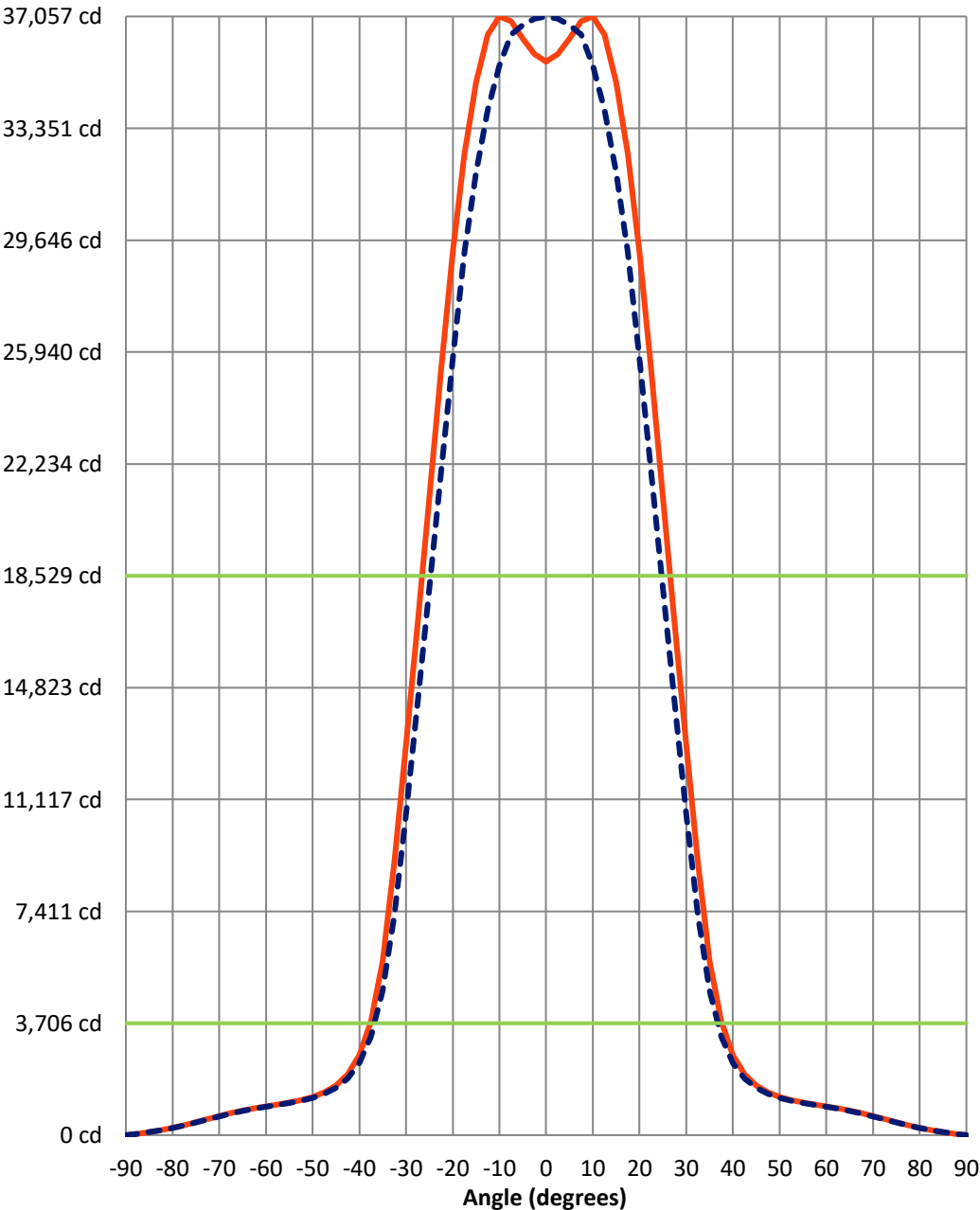


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 15071.7
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 19601.3
Efficiency: 64.6%

Spill:
Lumens: 10722.7
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-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°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	37.8	37.8	37.8	37.8
85°	100.8	100.8	100.8	100.8	100.8	97.7	97.7	94.5	94.5	91.4	88.2
82.5°	163.8	163.8	163.8	163.8	160.7	160.7	157.5	154.4	151.2	148.1	144.9
80°	239.4	239.4	239.4	239.4	236.3	233.1	230.0	226.8	220.5	217.4	211.1
77.5°	327.6	327.6	327.6	324.5	321.3	318.2	311.9	305.6	299.3	293.0	286.7
75°	428.4	428.4	428.4	422.1	419.0	412.7	406.4	400.1	390.6	381.2	371.7
72.5°	532.4	532.4	532.4	526.1	519.8	513.5	507.2	497.7	488.3	475.7	463.1
70°	630.0	630.0	630.0	623.7	617.4	611.1	601.7	592.2	579.6	567.0	554.4
67.5°	730.8	730.8	730.8	721.4	715.1	708.8	699.3	686.7	674.1	658.4	642.6
65°	812.7	812.7	809.6	806.4	800.1	790.7	784.4	771.8	759.2	746.6	730.8
62.5°	888.3	888.3	885.2	882.0	875.7	866.3	856.8	847.4	834.8	819.0	803.3
60°	951.3	951.3	948.2	945.0	938.7	932.4	923.0	913.5	900.9	888.3	872.6
57.5°	1014.3	1014.3	1011.2	1008.0	1001.7	992.3	982.8	973.4	960.8	945.0	929.3
55°	1080.5	1080.5	1077.3	1071.0	1064.7	1055.3	1045.8	1033.2	1017.5	1001.7	986.0
52.5°	1159.2	1159.2	1152.9	1146.6	1137.2	1127.7	1112.0	1096.2	1077.3	1058.4	1039.5
50°	1263.2	1263.2	1256.9	1247.4	1231.7	1215.9	1197.0	1171.8	1149.8	1124.6	1099.4
47.5°	1417.5	1417.5	1404.9	1389.2	1367.1	1341.9	1307.3	1269.5	1238.0	1206.5	1168.7
45°	1644.3	1644.3	1625.4	1600.2	1565.6	1521.5	1471.1	1417.5	1364.0	1310.4	1256.9
42.5°	2012.9	2012.9	1978.2	1934.1	1874.3	1798.7	1704.2	1616.0	1540.4	1455.3	1382.9
40°	2649.2	2649.2	2583.0	2501.1	2387.7	2242.8	2069.6	1931.0	1798.7	1650.6	1549.8
37.5°	3780.0	3780.0	3650.9	3493.4	3272.9	2995.7	2661.8	2438.1	2192.4	1959.3	1789.2
35°	5777.2	5777.2	5528.3	5222.8	4797.5	4262.0	3691.8	3269.7	2800.4	2441.3	2123.1
32.5°	9053.2	9053.2	8605.9	8054.7	7295.5	6334.7	5421.2	4618.0	3780.0	3184.7	2611.4
30°	12946.7	12946.7	12360.8	11639.4	10650.3	9402.9	8101.9	6674.9	5351.9	4290.4	3424.1
27.5°	16972.4	16805.5	16301.5	15479.3	14351.6	12946.7	11324.4	9481.6	7692.4	5821.3	4583.3
25°	21136.8	20941.5	20365.0	19420.0	18128.5	16537.7	14710.7	12650.6	10442.4	8212.2	6070.1
22.5°	25345.2	25124.7	24469.5	23401.7	21952.6	20169.7	18100.1	15810.1	13343.6	10766.8	8212.2
20°	29235.5	29002.4	28315.7	27203.8	25704.3	23748.2	21448.6	18909.7	16181.8	13343.6	10442.4
17.5°	32492.7	32269.0	31607.5	30545.9	29235.5	27071.5	24680.6	21889.6	18909.7	15810.1	12650.6
15°	34871.0	34678.8	34114.9	33223.5	31887.9	29972.6	27537.7	24680.6	21448.6	18100.1	14710.7
12.5°	36449.1	36294.8	35850.6	35157.6	33960.6	32354.1	29972.6	27071.5	23748.2	20169.7	16537.7
10°	37057.1	36981.5	36773.6	36455.4	35434.8	33960.6	31887.9	29235.5	25704.3	21952.6	18128.5
7.5°	36896.4	36921.6	36994.1	36912.2	36455.4	35157.6	33223.5	30545.9	27203.8	23401.7	19420.0
5°	36323.1	36458.6	36795.6	36994.1	36773.6	35850.6	34114.9	31607.5	28315.7	24469.5	20365.0
2.5°	35812.8	36023.9	36458.6	36921.6	36981.5	36294.8	34678.8	32269.0	29002.4	25124.7	20941.5
0°	35560.8	35812.8	36323.1	36896.4	37057.1	36449.1	34871.0	32492.7	29235.5	25345.2	21136.8

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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°	37.8	34.7	34.7	34.7	31.5	31.5	31.5	28.4	28.4	25.2	25.2
85°	88.2	85.1	81.9	78.8	75.6	72.5	69.3	66.2	63.0	56.7	53.6
82.5°	141.8	138.6	135.5	129.2	126.0	119.7	113.4	107.1	100.8	97.7	91.4
80°	204.8	198.5	192.2	185.9	176.4	167.0	160.7	151.2	144.9	135.5	129.2
77.5°	277.2	267.8	258.3	245.7	236.3	226.8	214.2	204.8	192.2	179.6	167.0
75°	359.1	346.5	330.8	318.2	305.6	289.8	274.1	258.3	242.6	226.8	211.1
72.5°	447.3	431.6	415.8	400.1	381.2	359.1	340.2	318.2	299.3	280.4	258.3
70°	538.7	519.8	500.9	482.0	459.9	434.7	412.7	387.5	362.3	337.1	311.9
67.5°	623.7	604.8	582.8	563.9	538.7	513.5	485.1	456.8	428.4	396.9	365.4
65°	711.9	689.9	664.7	639.5	614.3	585.9	557.6	529.2	494.6	459.9	428.4
62.5°	784.4	765.5	743.4	718.2	689.9	658.4	630.0	592.2	557.6	522.9	482.0
60°	853.7	831.6	812.7	784.4	759.2	730.8	696.2	658.4	620.6	579.6	541.8
57.5°	913.5	894.6	872.6	847.4	819.0	790.7	759.2	724.5	680.4	639.5	595.4
55°	967.1	945.0	923.0	900.9	875.7	844.2	812.7	778.1	740.3	696.2	648.9
52.5°	1020.6	998.6	973.4	951.3	923.0	894.6	863.1	828.5	790.7	749.7	699.3
50°	1074.2	1049.0	1023.8	995.4	967.1	938.7	907.2	875.7	834.8	793.8	749.7
47.5°	1137.2	1105.7	1074.2	1042.7	1014.3	979.7	948.2	913.5	878.9	834.8	790.7
45°	1215.9	1168.7	1130.9	1093.1	1058.4	1023.8	986.0	951.3	913.5	875.7	828.5
42.5°	1313.6	1250.6	1200.2	1149.8	1105.7	1064.7	1026.9	986.0	948.2	907.2	863.1
40°	1445.9	1360.8	1278.9	1215.9	1159.2	1108.8	1064.7	1023.8	979.7	938.7	894.6
37.5°	1619.1	1499.4	1386.0	1294.7	1222.2	1159.2	1105.7	1058.4	1014.3	967.1	923.0
35°	1880.6	1672.7	1527.8	1395.5	1294.7	1215.9	1149.8	1093.1	1042.7	995.4	951.3
32.5°	2249.1	1927.8	1694.7	1527.8	1386.0	1278.9	1200.2	1130.9	1074.2	1023.8	973.4
30°	2734.2	2290.1	1927.8	1672.7	1499.4	1360.8	1250.6	1168.7	1105.7	1049.0	998.6
27.5°	3502.8	2734.2	2249.1	1880.6	1619.1	1445.9	1313.6	1215.9	1137.2	1074.2	1020.6
25°	4583.3	3424.1	2611.4	2123.1	1789.2	1549.8	1382.9	1256.9	1168.7	1099.4	1039.5
22.5°	5821.3	4290.4	3184.7	2441.3	1959.3	1650.6	1455.3	1310.4	1206.5	1124.6	1058.4
20°	7692.4	5351.9	3780.0	2800.4	2192.4	1798.7	1540.4	1364.0	1238.0	1149.8	1077.3
17.5°	9481.6	6674.9	4618.0	3269.7	2438.1	1931.0	1616.0	1417.5	1269.5	1171.8	1096.2
15°	11324.4	8101.9	5421.2	3691.8	2661.8	2069.6	1704.2	1471.1	1307.3	1197.0	1112.0
12.5°	12946.7	9402.9	6334.7	4262.0	2995.7	2242.8	1798.7	1521.5	1341.9	1215.9	1127.7
10°	14351.6	10650.3	7295.5	4797.5	3272.9	2387.7	1874.3	1565.6	1367.1	1231.7	1137.2
7.5°	15479.3	11639.4	8054.7	5222.8	3493.4	2501.1	1934.1	1600.2	1389.2	1247.4	1146.6
5°	16301.5	12360.8	8605.9	5528.3	3650.9	2583.0	1978.2	1625.4	1404.9	1256.9	1152.9
2.5°	16805.5	12946.7	9053.2	5777.2	3780.0	2649.2	2012.9	1644.3	1417.5	1263.2	1159.2
0°	16972.4	12946.7	9053.2	5777.2	3780.0	2649.2	2012.9	1644.3	1417.5	1263.2	1159.2

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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°	22.1	22.1	18.9	18.9	15.8	15.8	12.6	12.6	9.5	9.5	6.3
85°	50.4	44.1	41.0	37.8	34.7	31.5	28.4	25.2	22.1	18.9	15.8
82.5°	85.1	78.8	69.3	63.0	56.7	50.4	41.0	37.8	31.5	25.2	22.1
80°	119.7	110.3	100.8	91.4	81.9	72.5	63.0	53.6	44.1	34.7	28.4
77.5°	154.4	141.8	132.3	119.7	107.1	94.5	81.9	69.3	56.7	44.1	34.7
75°	195.3	179.6	163.8	148.1	132.3	116.6	104.0	88.2	72.5	56.7	44.1
72.5°	239.4	217.4	198.5	179.6	157.5	141.8	122.9	107.1	88.2	69.3	53.6
70°	286.7	261.5	236.3	211.1	189.0	163.8	144.9	122.9	104.0	81.9	63.0
67.5°	333.9	305.6	277.2	245.7	217.4	192.2	163.8	141.8	116.6	94.5	72.5
65°	390.6	352.8	318.2	283.5	248.9	217.4	189.0	157.5	132.3	107.1	81.9
62.5°	444.2	403.2	362.3	321.3	283.5	245.7	211.1	179.6	148.1	119.7	91.4
60°	497.7	453.6	406.4	362.3	318.2	277.2	236.3	198.5	163.8	132.3	100.8
57.5°	551.3	500.9	453.6	403.2	352.8	305.6	261.5	217.4	179.6	141.8	110.3
55°	598.5	551.3	497.7	444.2	390.6	333.9	286.7	239.4	195.3	154.4	119.7
52.5°	648.9	595.4	541.8	482.0	428.4	365.4	311.9	258.3	211.1	167.0	129.2
50°	696.2	639.5	579.6	522.9	459.9	396.9	337.1	280.4	226.8	179.6	135.5
47.5°	740.3	680.4	620.6	557.6	494.6	428.4	362.3	299.3	242.6	192.2	144.9
45°	778.1	724.5	658.4	592.2	529.2	456.8	387.5	318.2	258.3	204.8	151.2
42.5°	812.7	759.2	696.2	630.0	557.6	485.1	412.7	340.2	274.1	214.2	160.7
40°	844.2	790.7	730.8	658.4	585.9	513.5	434.7	359.1	289.8	226.8	167.0
37.5°	875.7	819.0	759.2	689.9	614.3	538.7	459.9	381.2	305.6	236.3	176.4
35°	900.9	847.4	784.4	718.2	639.5	563.9	482.0	400.1	318.2	245.7	185.9
32.5°	923.0	872.6	812.7	743.4	664.7	582.8	500.9	415.8	330.8	258.3	192.2
30°	945.0	894.6	831.6	765.5	689.9	604.8	519.8	431.6	346.5	267.8	198.5
27.5°	967.1	913.5	853.7	784.4	711.9	623.7	538.7	447.3	359.1	277.2	204.8
25°	986.0	929.3	872.6	803.3	730.8	642.6	554.4	463.1	371.7	286.7	211.1
22.5°	1001.7	945.0	888.3	819.0	746.6	658.4	567.0	475.7	381.2	293.0	217.4
20°	1017.5	960.8	900.9	834.8	759.2	674.1	579.6	488.3	390.6	299.3	220.5
17.5°	1033.2	973.4	913.5	847.4	771.8	686.7	592.2	497.7	400.1	305.6	226.8
15°	1045.8	982.8	923.0	856.8	784.4	699.3	601.7	507.2	406.4	311.9	230.0
12.5°	1055.3	992.3	932.4	866.3	790.7	708.8	611.1	513.5	412.7	318.2	233.1
10°	1064.7	1001.7	938.7	875.7	800.1	715.1	617.4	519.8	419.0	321.3	236.3
7.5°	1071.0	1008.0	945.0	882.0	806.4	721.4	623.7	526.1	422.1	324.5	239.4
5°	1077.3	1011.2	948.2	885.2	809.6	730.8	630.0	532.4	428.4	327.6	239.4
2.5°	1080.5	1014.3	951.3	888.3	812.7	730.8	630.0	532.4	428.4	327.6	239.4
0°	1080.5	1014.3	951.3	888.3	812.7	730.8	630.0	532.4	428.4	327.6	239.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.3	3.2	3.2	0.0
85°	9.5	6.3	3.2	0.0
82.5°	15.8	9.5	6.3	0.0
80°	22.1	15.8	6.3	0.0
77.5°	25.2	18.9	9.5	0.0
75°	31.5	22.1	9.5	0.0
72.5°	37.8	25.2	12.6	0.0
70°	41.0	28.4	12.6	0.0
67.5°	50.4	31.5	15.8	0.0
65°	56.7	34.7	15.8	0.0
62.5°	63.0	37.8	18.9	0.0
60°	69.3	41.0	18.9	0.0
57.5°	78.8	44.1	22.1	0.0
55°	85.1	50.4	22.1	0.0
52.5°	91.4	53.6	25.2	0.0
50°	97.7	56.7	25.2	0.0
47.5°	100.8	63.0	28.4	0.0
45°	107.1	66.2	28.4	0.0
42.5°	113.4	69.3	31.5	0.0
40°	119.7	72.5	31.5	0.0
37.5°	126.0	75.6	31.5	0.0
35°	129.2	78.8	34.7	0.0
32.5°	135.5	81.9	34.7	0.0
30°	138.6	85.1	34.7	0.0
27.5°	141.8	88.2	37.8	0.0
25°	144.9	88.2	37.8	0.0
22.5°	148.1	91.4	37.8	0.0
20°	151.2	94.5	37.8	0.0
17.5°	154.4	94.5	37.8	0.0
15°	157.5	97.7	41.0	0.0
12.5°	160.7	97.7	41.0	0.0
10°	160.7	100.8	41.0	0.0
7.5°	163.8	100.8	41.0	0.0
5°	163.8	100.8	41.0	0.0
2.5°	163.8	100.8	41.0	0.0
0°	163.8	100.8	41.0	0.0

(END OF REPORT)