

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: P623452

Luminaire Tested: **IFLD-M-SA4D-750-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623452
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	33227 lumens	Max Intensity:	107441.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	133.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

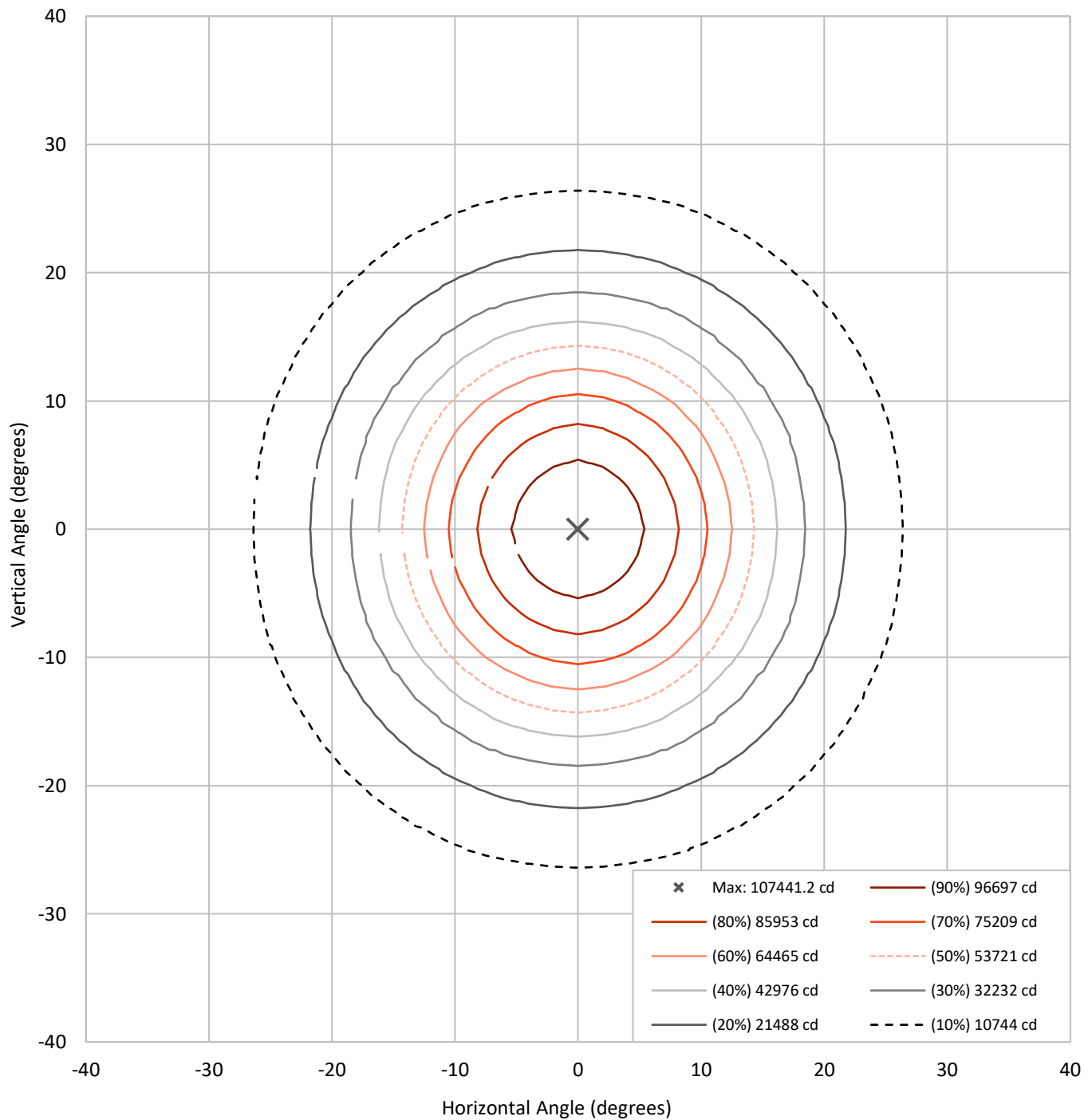
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	11988.9 lumens	Field Lumens:	20245 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 249.7
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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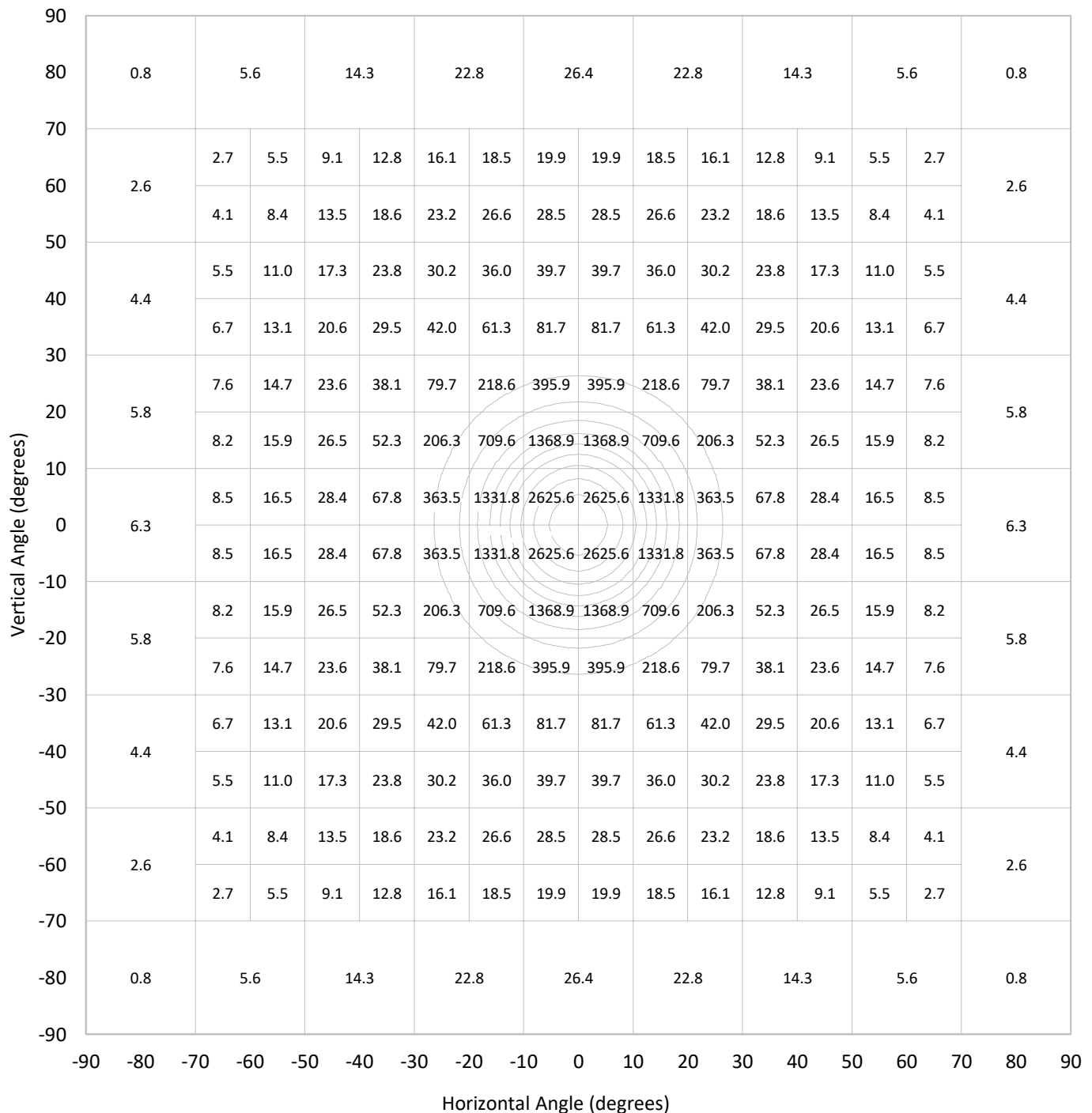
Iso-Candela Plot





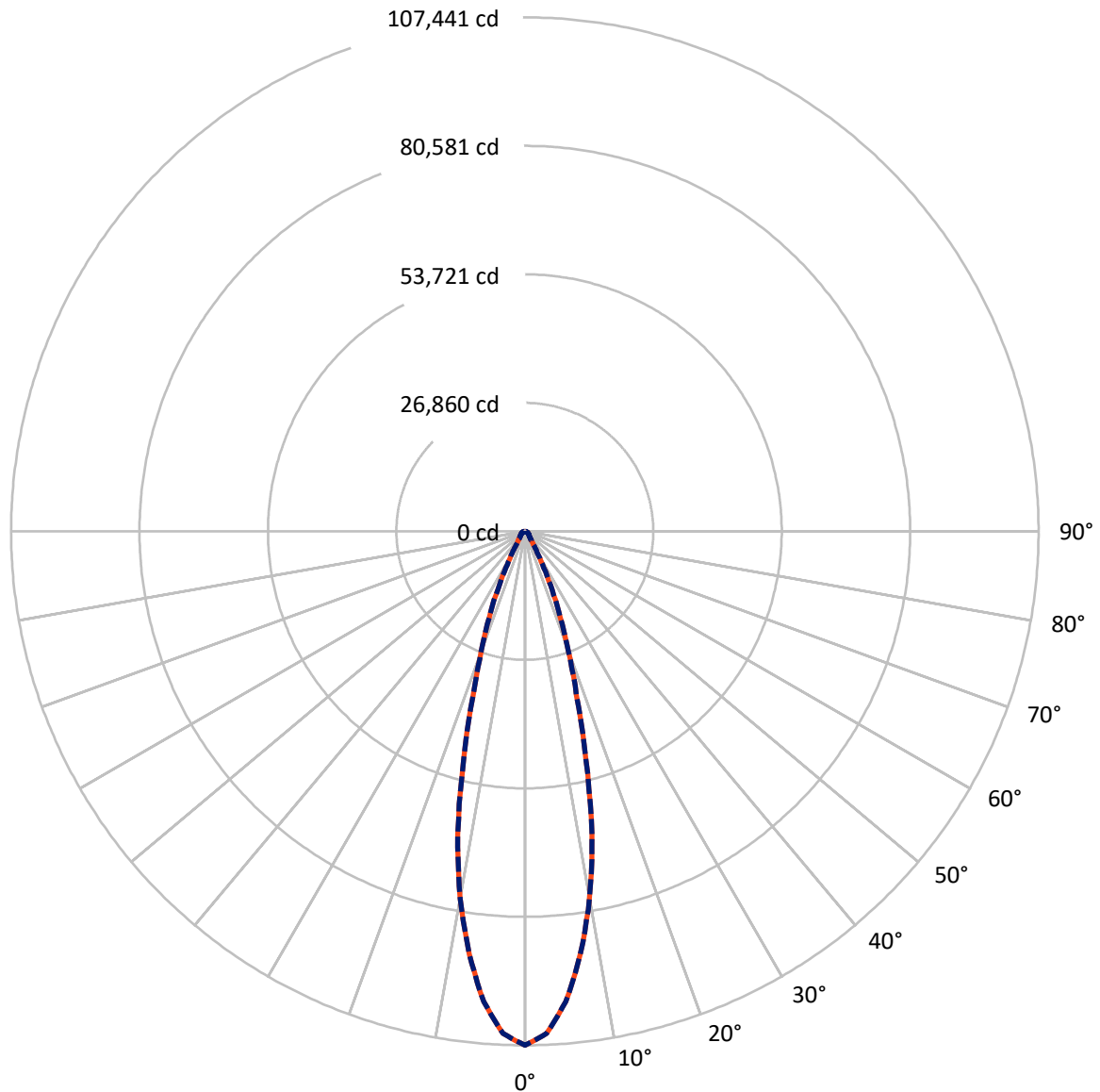
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Lumen Table



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Luminous Intensity Polar Plot

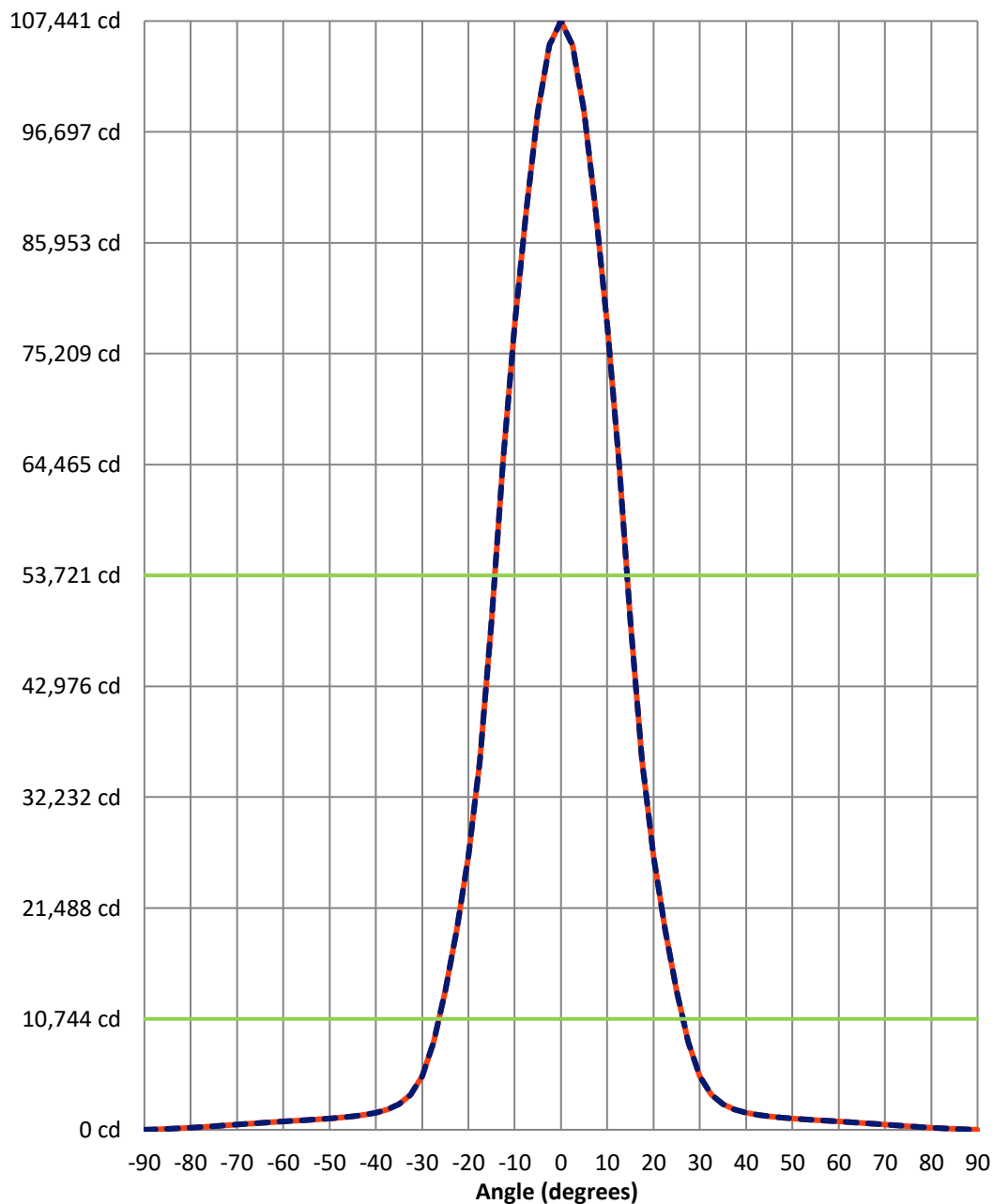


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 28.6°
V Angle: 28.6°
Lumens: 11988.9
Efficiency: 36.1%

Field:

H Angle: 52.7°
V Angle: 52.7°
Lumens: 20245
Efficiency: 60.9%

Spill:

Lumens: 12982.1
Efficiency: 39.1%

— 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°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	34.6	34.6	34.6	34.6
85°	86.6	86.6	86.6	86.6	86.6	83.1	83.1	83.1	79.7	79.7	76.2
82.5°	138.6	138.6	138.6	138.6	135.1	135.1	131.6	131.6	128.2	128.2	124.7
80°	197.5	197.5	197.5	197.5	194.0	190.5	190.5	187.1	183.6	180.1	176.7
77.5°	266.7	266.7	266.7	263.3	259.8	259.8	256.4	249.4	246.0	239.0	235.6
75°	343.0	343.0	343.0	339.5	336.0	332.6	325.6	322.2	315.2	308.3	297.9
72.5°	426.1	426.1	426.1	422.6	415.7	412.2	405.3	398.4	391.5	381.1	370.7
70°	505.8	505.8	505.8	498.9	495.4	488.5	481.5	474.6	464.2	453.8	443.4
67.5°	585.5	585.5	585.5	578.5	575.1	568.1	561.2	550.8	540.4	526.6	516.2
65°	658.2	658.2	654.7	651.3	647.8	640.9	630.5	623.6	613.2	599.3	585.5
62.5°	734.4	734.4	731.0	727.5	720.6	713.6	703.2	692.9	679.0	665.1	651.3
60°	810.6	810.6	807.2	803.7	796.8	786.4	776.0	765.6	751.7	734.4	717.1
57.5°	873.0	873.0	869.5	866.1	859.1	852.2	841.8	831.4	817.6	803.7	782.9
55°	938.8	938.8	935.4	928.4	921.5	914.6	904.2	890.3	876.5	859.1	845.3
52.5°	1015.0	1015.0	1011.6	1004.6	994.2	983.9	970.0	952.7	935.4	918.0	897.2
50°	1091.2	1091.2	1084.3	1077.4	1070.5	1056.6	1042.7	1025.4	1004.6	983.9	959.6
47.5°	1184.8	1184.8	1177.9	1167.5	1153.6	1139.7	1119.0	1094.7	1073.9	1049.7	1022.0
45°	1299.1	1299.1	1288.7	1278.3	1261.0	1236.7	1212.5	1184.8	1153.6	1122.4	1087.8
42.5°	1448.1	1448.1	1434.2	1416.9	1392.6	1361.5	1323.4	1285.2	1247.1	1205.6	1164.0
40°	1649.0	1649.0	1628.2	1604.0	1565.9	1520.8	1465.4	1413.4	1361.5	1302.6	1250.6
37.5°	1964.2	1964.2	1929.6	1884.6	1822.2	1746.0	1652.5	1583.2	1503.5	1427.3	1358.0
35°	2480.4	2480.4	2418.1	2338.4	2227.5	2089.0	1940.0	1822.2	1690.6	1583.2	1482.7
32.5°	3398.5	3398.5	3273.7	3117.9	2906.5	2636.3	2386.9	2179.0	1964.2	1798.0	1638.6
30°	5175.6	5175.6	4908.9	4579.8	4126.0	3557.8	3131.7	2733.3	2369.6	2095.9	1863.8
27.5°	8511.7	8373.2	7957.5	7275.0	6339.6	5175.6	4434.3	3592.5	3017.4	2494.3	2172.1
25°	13437.9	13209.3	12523.4	11404.4	9880.1	8151.5	6637.6	5040.5	4032.4	3162.9	2563.6
22.5°	19424.2	19109.0	18177.1	16656.3	14595.0	12294.7	9845.5	7548.7	5504.7	4181.4	3162.9
20°	26512.1	26089.5	24838.9	22808.8	20079.0	17151.7	13881.4	10805.1	7857.0	5504.7	4032.4
17.5°	35869.2	35224.8	33329.8	30281.3	26512.1	22566.3	18478.5	14508.4	10805.1	7548.7	5040.5
15°	49321.0	48233.2	45053.0	40002.0	34133.6	28632.3	23418.5	18478.5	13881.4	9845.5	6637.6
12.5°	64872.1	63358.2	58975.9	52140.9	44166.1	35467.3	28632.3	22566.3	17151.7	12294.7	8151.5
10°	77974.0	76377.0	71849.2	64993.4	54881.1	44166.1	34133.6	26512.1	20079.0	14595.0	9880.1
7.5°	89042.4	87254.8	82373.7	74873.5	64993.4	52140.9	40002.0	30281.3	22808.8	16656.3	11404.4
5°	98655.8	96390.1	90708.7	82373.7	71849.2	58975.9	45053.0	33329.8	24838.9	18177.1	12523.4
2.5°	105078.5	102418.0	96390.1	87254.8	76377.0	63358.2	48233.2	35224.8	26089.5	19109.0	13209.3
0°	107441.2	105078.5	98655.8	89042.4	77974.0	64872.1	49321.0	35869.2	26512.1	19424.2	13437.9

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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°	34.6	34.6	31.2	31.2	31.2	27.7	27.7	27.7	24.2	24.2	24.2
85°	76.2	72.7	72.7	69.3	65.8	62.4	62.4	58.9	55.4	52.0	48.5
82.5°	121.2	117.8	114.3	110.9	107.4	100.5	97.0	93.5	86.6	83.1	79.7
80°	169.7	166.3	159.4	155.9	149.0	142.0	135.1	128.2	121.2	114.3	107.4
77.5°	228.6	218.2	211.3	204.4	194.0	187.1	176.7	169.7	159.4	149.0	138.6
75°	291.0	280.6	270.2	259.8	249.4	235.6	225.2	211.3	200.9	187.1	176.7
72.5°	360.3	346.4	332.6	318.7	304.9	291.0	277.1	259.8	246.0	228.6	211.3
70°	429.6	415.7	401.9	384.5	367.2	349.9	332.6	311.8	294.5	273.7	252.9
67.5°	502.3	485.0	467.7	450.4	433.0	412.2	388.0	367.2	343.0	318.7	297.9
65°	571.6	554.3	533.5	512.7	491.9	471.1	446.9	422.6	394.9	367.2	343.0
62.5°	634.0	616.6	599.3	575.1	554.3	530.0	505.8	474.6	446.9	419.2	388.0
60°	699.8	679.0	658.2	634.0	609.7	585.5	557.7	526.6	498.9	464.2	433.0
57.5°	762.1	741.4	717.1	692.9	665.1	637.4	609.7	578.5	547.4	512.7	478.1
55°	824.5	803.7	779.5	751.7	720.6	689.4	658.2	627.0	595.9	557.7	519.6
52.5°	876.5	855.7	831.4	810.6	776.0	744.8	710.2	672.1	637.4	599.3	561.2
50°	931.9	907.6	879.9	855.7	828.0	796.8	758.7	720.6	679.0	640.9	599.3
47.5°	994.2	963.1	931.9	900.7	873.0	838.4	807.2	765.6	724.0	679.0	637.4
45°	1056.6	1022.0	987.3	949.2	914.6	879.9	845.3	810.6	765.6	720.6	672.1
42.5°	1122.4	1080.9	1042.7	1004.6	963.1	921.5	883.4	845.3	807.2	758.7	710.2
40°	1198.6	1150.1	1101.6	1056.6	1015.0	966.5	921.5	879.9	838.4	796.8	744.8
37.5°	1285.2	1226.4	1167.5	1112.0	1060.1	1015.0	963.1	914.6	873.0	828.0	776.0
35°	1396.1	1309.5	1240.2	1170.9	1112.0	1056.6	1004.6	949.2	900.7	855.7	810.6
32.5°	1520.8	1413.4	1319.9	1240.2	1167.5	1101.6	1042.7	987.3	931.9	879.9	831.4
30°	1673.2	1534.7	1413.4	1309.5	1226.4	1150.1	1080.9	1022.0	963.1	907.6	855.7
27.5°	1888.0	1673.2	1520.8	1396.1	1285.2	1198.6	1122.4	1056.6	994.2	931.9	876.5
25°	2172.1	1863.8	1638.6	1482.7	1358.0	1250.6	1164.0	1087.8	1022.0	959.6	897.2
22.5°	2494.3	2095.9	1798.0	1583.2	1427.3	1302.6	1205.6	1122.4	1049.7	983.9	918.0
20°	3017.4	2369.6	1964.2	1690.6	1503.5	1361.5	1247.1	1153.6	1073.9	1004.6	935.4
17.5°	3592.5	2733.3	2179.0	1822.2	1583.2	1413.4	1285.2	1184.8	1094.7	1025.4	952.7
15°	4434.3	3131.7	2386.9	1940.0	1652.5	1465.4	1323.4	1212.5	1119.0	1042.7	970.0
12.5°	5175.6	3557.8	2636.3	2089.0	1746.0	1520.8	1361.5	1236.7	1139.7	1056.6	983.9
10°	6339.6	4126.0	2906.5	2227.5	1822.2	1565.9	1392.6	1261.0	1153.6	1070.5	994.2
7.5°	7275.0	4579.8	3117.9	2338.4	1884.6	1604.0	1416.9	1278.3	1167.5	1077.4	1004.6
5°	7957.5	4908.9	3273.7	2418.1	1929.6	1628.2	1434.2	1288.7	1177.9	1084.3	1011.6
2.5°	8373.2	5175.6	3398.5	2480.4	1964.2	1649.0	1448.1	1299.1	1184.8	1091.2	1015.0
0°	8511.7	5175.6	3398.5	2480.4	1964.2	1649.0	1448.1	1299.1	1184.8	1091.2	1015.0

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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°	20.8	20.8	17.3	17.3	17.3	13.9	13.9	10.4	10.4	6.9	6.9
85°	45.0	41.6	38.1	34.6	31.2	27.7	27.7	24.2	20.8	17.3	13.9
82.5°	72.7	69.3	62.4	55.4	52.0	45.0	38.1	34.6	31.2	24.2	20.8
80°	100.5	93.5	86.6	79.7	72.7	62.4	55.4	48.5	38.1	31.2	27.7
77.5°	131.6	121.2	110.9	100.5	90.1	83.1	72.7	62.4	52.0	41.6	31.2
75°	162.8	149.0	138.6	124.7	114.3	100.5	86.6	76.2	65.8	52.0	38.1
72.5°	197.5	180.1	166.3	149.0	135.1	121.2	103.9	90.1	76.2	62.4	48.5
70°	235.6	214.8	194.0	176.7	159.4	138.6	121.2	103.9	86.6	72.7	55.4
67.5°	273.7	249.4	225.2	200.9	180.1	159.4	138.6	121.2	100.5	83.1	62.4
65°	311.8	284.1	259.8	232.1	204.4	180.1	159.4	135.1	114.3	90.1	72.7
62.5°	353.4	322.2	291.0	259.8	232.1	200.9	176.7	149.0	124.7	100.5	79.7
60°	398.4	363.7	325.6	291.0	259.8	225.2	194.0	166.3	138.6	110.9	86.6
57.5°	440.0	401.9	363.7	322.2	284.1	249.4	214.8	180.1	149.0	121.2	93.5
55°	481.5	440.0	398.4	353.4	311.8	273.7	235.6	197.5	162.8	131.6	100.5
52.5°	519.6	478.1	433.0	388.0	343.0	297.9	252.9	211.3	176.7	138.6	107.4
50°	557.7	512.7	464.2	419.2	367.2	318.7	273.7	228.6	187.1	149.0	114.3
47.5°	595.9	547.4	498.9	446.9	394.9	343.0	294.5	246.0	200.9	159.4	121.2
45°	627.0	578.5	526.6	474.6	422.6	367.2	311.8	259.8	211.3	169.7	128.2
42.5°	658.2	609.7	557.7	505.8	446.9	388.0	332.6	277.1	225.2	176.7	135.1
40°	689.4	637.4	585.5	530.0	471.1	412.2	349.9	291.0	235.6	187.1	142.0
37.5°	720.6	665.1	609.7	554.3	491.9	433.0	367.2	304.9	249.4	194.0	149.0
35°	751.7	692.9	634.0	575.1	512.7	450.4	384.5	318.7	259.8	204.4	155.9
32.5°	779.5	717.1	658.2	599.3	533.5	467.7	401.9	332.6	270.2	211.3	159.4
30°	803.7	741.4	679.0	616.6	554.3	485.0	415.7	346.4	280.6	218.2	166.3
27.5°	824.5	762.1	699.8	634.0	571.6	502.3	429.6	360.3	291.0	228.6	169.7
25°	845.3	782.9	717.1	651.3	585.5	516.2	443.4	370.7	297.9	235.6	176.7
22.5°	859.1	803.7	734.4	665.1	599.3	526.6	453.8	381.1	308.3	239.0	180.1
20°	876.5	817.6	751.7	679.0	613.2	540.4	464.2	391.5	315.2	246.0	183.6
17.5°	890.3	831.4	765.6	692.9	623.6	550.8	474.6	398.4	322.2	249.4	187.1
15°	904.2	841.8	776.0	703.2	630.5	561.2	481.5	405.3	325.6	256.4	190.5
12.5°	914.6	852.2	786.4	713.6	640.9	568.1	488.5	412.2	332.6	259.8	190.5
10°	921.5	859.1	796.8	720.6	647.8	575.1	495.4	415.7	336.0	259.8	194.0
7.5°	928.4	866.1	803.7	727.5	651.3	578.5	498.9	422.6	339.5	263.3	197.5
5°	935.4	869.5	807.2	731.0	654.7	585.5	505.8	426.1	343.0	266.7	197.5
2.5°	938.8	873.0	810.6	734.4	658.2	585.5	505.8	426.1	343.0	266.7	197.5
0°	938.8	873.0	810.6	734.4	658.2	585.5	505.8	426.1	343.0	266.7	197.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	0.0	0.0
85°	10.4	6.9	3.5	0.0
82.5°	13.9	10.4	3.5	0.0
80°	20.8	13.9	6.9	0.0
77.5°	24.2	17.3	6.9	0.0
75°	31.2	20.8	10.4	0.0
72.5°	34.6	24.2	10.4	0.0
70°	38.1	27.7	13.9	0.0
67.5°	45.0	27.7	13.9	0.0
65°	52.0	31.2	17.3	0.0
62.5°	55.4	34.6	17.3	0.0
60°	62.4	38.1	17.3	0.0
57.5°	69.3	41.6	20.8	0.0
55°	72.7	45.0	20.8	0.0
52.5°	79.7	48.5	24.2	0.0
50°	83.1	52.0	24.2	0.0
47.5°	86.6	55.4	24.2	0.0
45°	93.5	58.9	27.7	0.0
42.5°	97.0	62.4	27.7	0.0
40°	100.5	62.4	27.7	0.0
37.5°	107.4	65.8	31.2	0.0
35°	110.9	69.3	31.2	0.0
32.5°	114.3	72.7	31.2	0.0
30°	117.8	72.7	34.6	0.0
27.5°	121.2	76.2	34.6	0.0
25°	124.7	76.2	34.6	0.0
22.5°	128.2	79.7	34.6	0.0
20°	128.2	79.7	34.6	0.0
17.5°	131.6	83.1	34.6	0.0
15°	131.6	83.1	38.1	0.0
12.5°	135.1	83.1	38.1	0.0
10°	135.1	86.6	38.1	0.0
7.5°	138.6	86.6	38.1	0.0
5°	138.6	86.6	38.1	0.0
2.5°	138.6	86.6	38.1	0.0
0°	138.6	86.6	38.1	0.0

(END OF REPORT)