

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: P623898

Luminaire Tested: **IFLD-S-SA2A-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623898
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

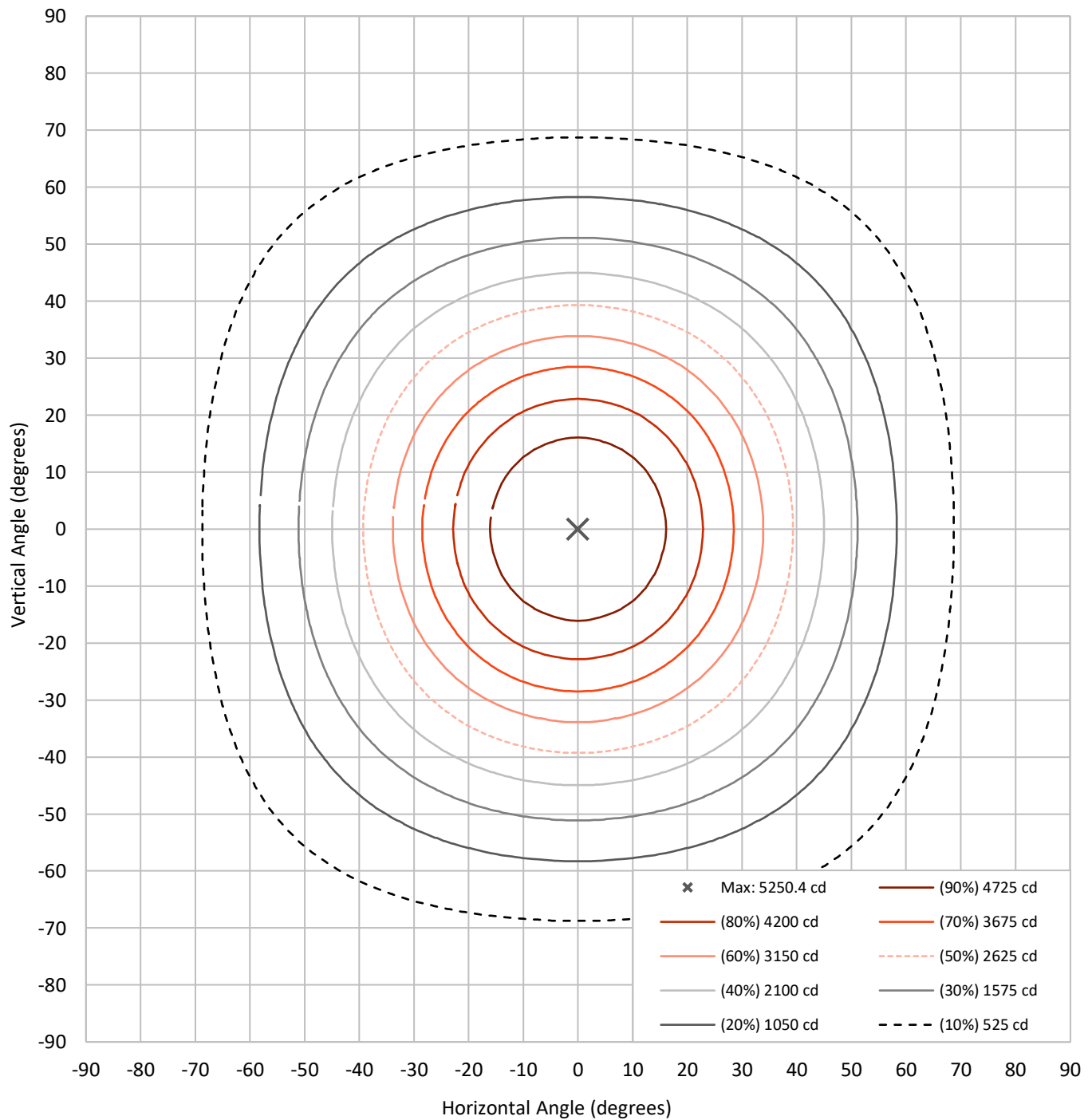
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9453.5 lumens	Max Intensity:	5250.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	148.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4090.4 lumens	Field Lumens:	6697.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	63.8		
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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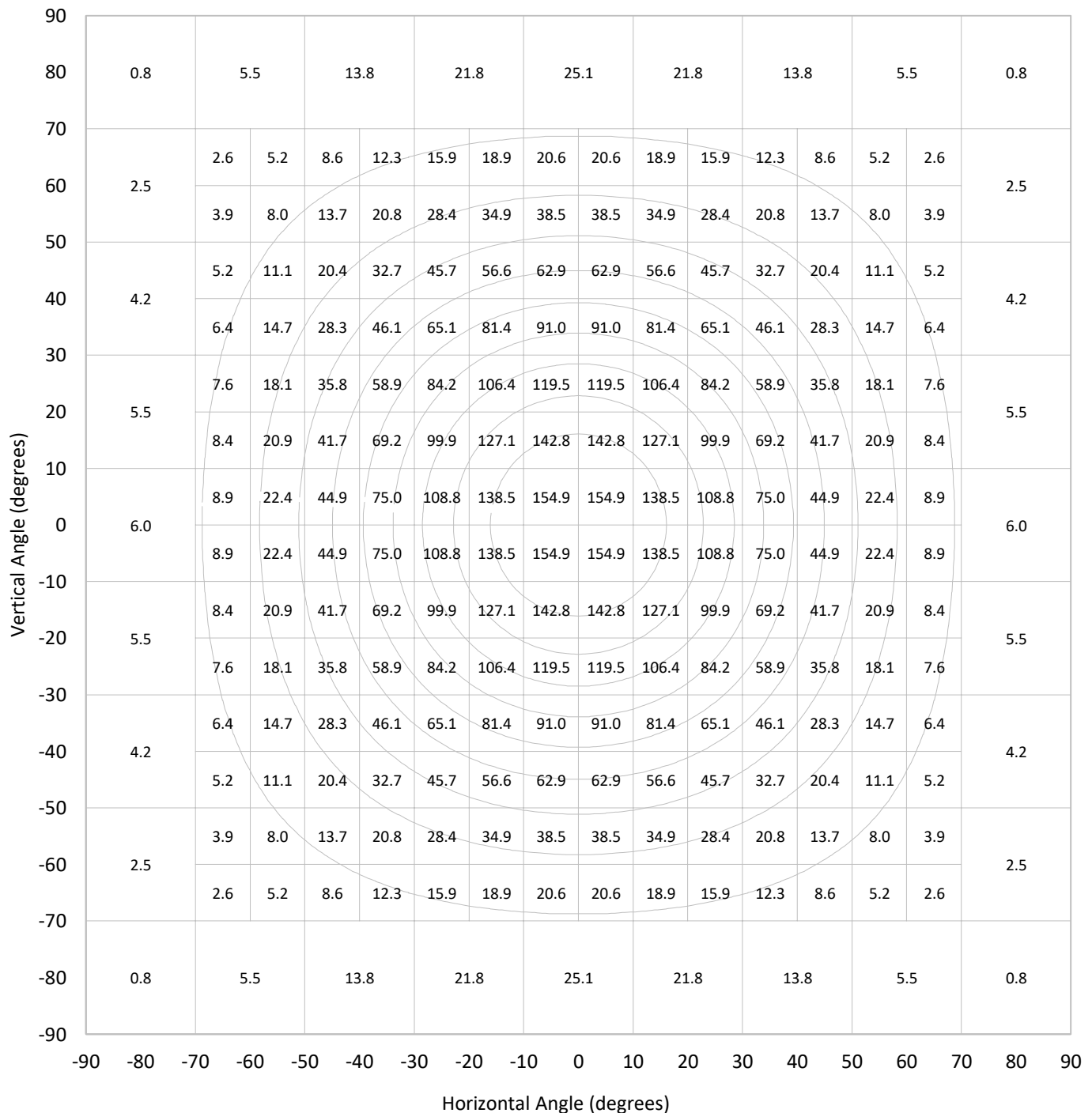
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Iso-Candela Plot



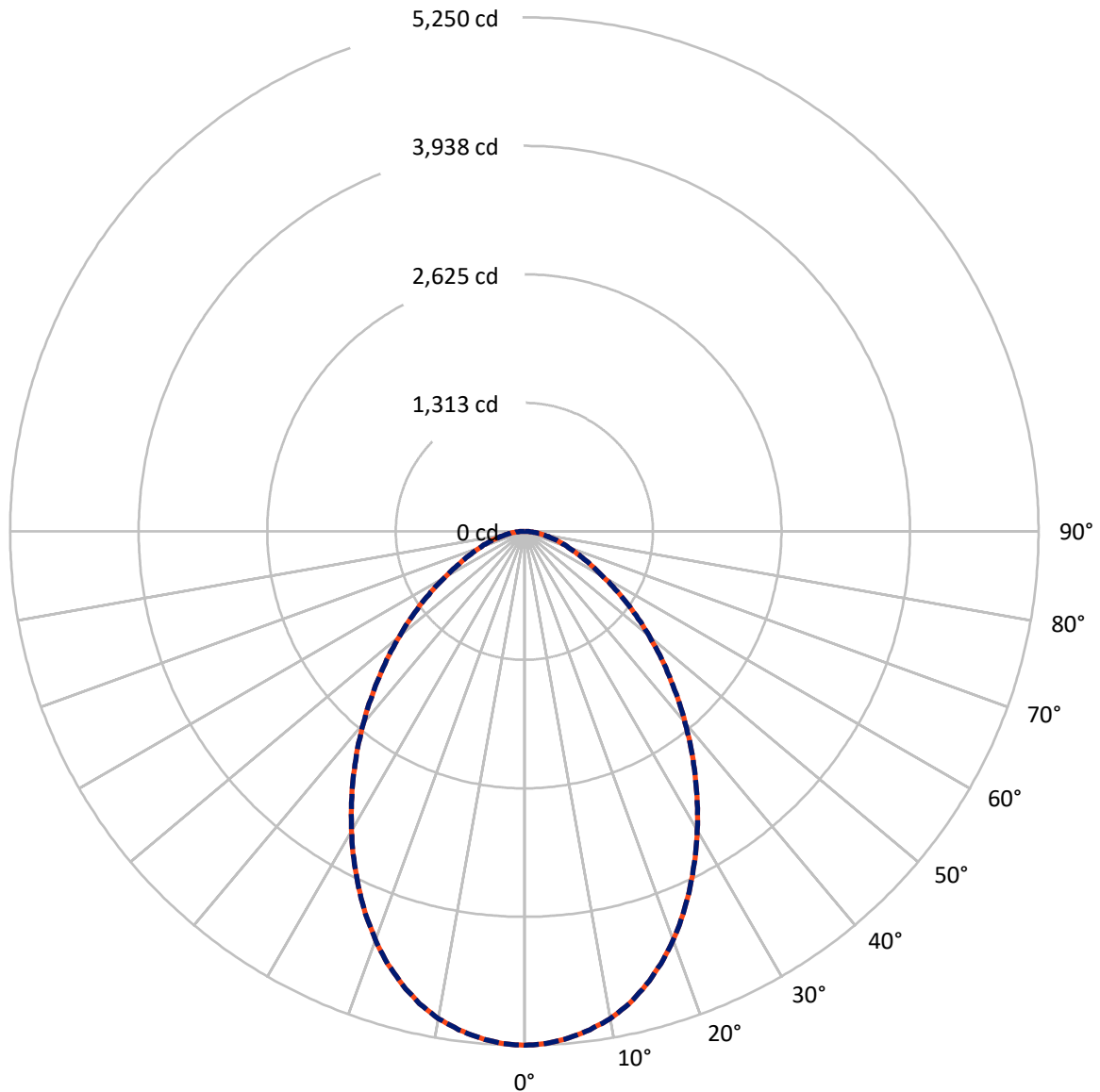
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Lumen Table



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Luminous Intensity Polar Plot

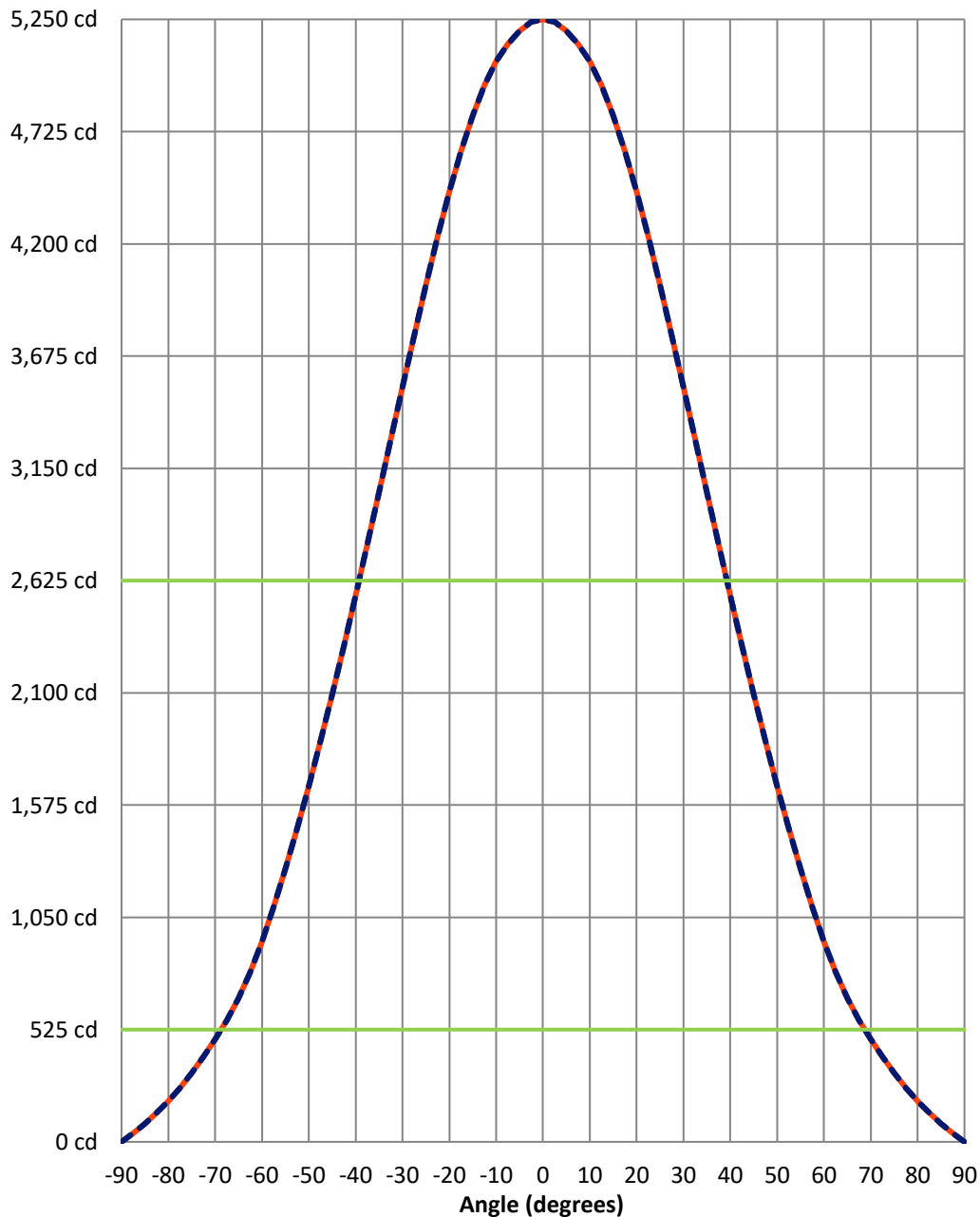


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 4090.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 6697.9
Efficiency: 70.9%

Spill:

Lumens: 2755.5
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°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	38.4	38.4	37.5	36.5
85°	84.8	84.8	84.8	84.8	84.8	82.8	81.8	80.8	79.8	77.9	76.9
82.5°	136.0	136.0	136.0	136.0	134.0	132.1	131.1	129.1	127.1	124.2	121.2
80°	190.2	190.2	190.2	190.2	187.3	185.3	182.3	180.4	177.4	173.5	169.5
77.5°	252.3	252.3	252.3	249.4	247.4	244.4	241.5	237.5	233.6	228.7	222.8
75°	322.3	322.3	322.3	318.4	315.4	312.4	307.5	302.6	296.7	289.8	281.9
72.5°	398.2	398.2	398.2	393.3	390.3	385.4	379.5	372.6	365.7	356.8	346.9
70°	480.0	480.0	480.0	474.1	469.2	464.2	456.3	448.5	438.6	428.7	416.9
67.5°	568.7	568.7	568.7	561.8	555.9	549.0	540.1	530.3	518.4	504.6	490.8
65°	672.2	672.2	668.3	662.3	655.4	645.6	634.7	620.9	606.2	588.4	569.7
62.5°	794.4	794.4	788.5	781.6	772.7	759.9	745.1	727.4	706.7	684.0	661.4
60°	936.3	936.3	929.4	920.6	907.8	892.0	872.3	849.6	824.0	795.4	767.8
57.5°	1100.0	1100.0	1091.1	1079.3	1063.5	1043.8	1019.1	990.6	958.0	922.5	888.0
55°	1277.4	1277.4	1266.5	1252.7	1234.0	1210.3	1180.8	1147.3	1107.8	1067.4	1023.1
52.5°	1465.6	1465.6	1452.8	1437.0	1415.4	1387.8	1354.2	1314.8	1269.5	1222.2	1169.9
50°	1663.7	1663.7	1648.9	1631.2	1606.6	1574.0	1535.6	1490.3	1440.0	1384.8	1324.7
47.5°	1875.6	1875.6	1858.9	1838.2	1808.6	1771.2	1725.8	1673.6	1616.4	1554.3	1486.3
45°	2093.5	2093.5	2074.7	2051.1	2018.6	1976.2	1925.9	1875.6	1802.7	1730.8	1651.9
42.5°	2320.2	2320.2	2298.5	2271.9	2234.4	2188.1	2130.9	2065.9	1993.9	1913.1	1827.3
40°	2555.7	2555.7	2531.1	2500.5	2459.1	2405.9	2341.8	2268.9	2188.1	2098.4	2003.8
37.5°	2796.2	2796.2	2768.6	2735.1	2688.8	2629.6	2557.7	2476.9	2386.2	2286.6	2182.2
35°	3038.7	3038.7	3008.1	2971.7	2920.4	2855.3	2777.5	2687.8	2587.3	2478.8	2361.6
32.5°	3286.1	3286.1	3252.6	3211.2	3153.0	3081.1	2995.3	2897.7	2796.2	2670.1	2541.9
30°	3530.5	3530.5	3494.0	3448.7	3386.6	3307.8	3214.1	3106.7	2987.4	2858.3	2720.3
27.5°	3771.0	3761.1	3730.6	3682.3	3614.3	3530.5	3429.0	3312.7	3183.6	3041.6	2893.8
25°	4007.5	3996.7	3963.2	3910.0	3837.0	3745.4	3636.0	3511.8	3372.8	3223.0	3061.3
22.5°	4234.2	4222.4	4186.9	4129.8	4051.9	3952.3	3835.1	3702.0	3554.2	3393.5	3223.0
20°	4444.2	4431.4	4394.9	4334.8	4253.9	4148.5	4024.3	3881.4	3723.7	3554.2	3372.8
17.5°	4633.4	4620.6	4582.2	4520.1	4444.2	4326.9	4198.8	4048.0	3881.4	3702.0	3511.8
15°	4800.0	4786.2	4746.8	4684.7	4597.9	4487.5	4352.5	4198.8	4024.3	3835.1	3636.0
12.5°	4941.9	4928.1	4887.7	4825.6	4735.9	4625.5	4487.5	4326.9	4148.5	3952.3	3745.4
10°	5054.3	5040.5	5002.0	4942.9	4850.3	4735.9	4597.9	4444.2	4253.9	4051.9	3837.0
7.5°	5135.1	5122.3	5086.8	5027.7	4942.9	4825.6	4684.7	4520.1	4334.8	4129.8	3910.0
5°	5196.2	5181.4	5145.9	5086.8	5002.0	4887.7	4746.8	4582.2	4394.9	4186.9	3963.2
2.5°	5238.6	5220.8	5181.4	5122.3	5040.5	4928.1	4786.2	4620.6	4431.4	4222.4	3996.7
0°	5250.4	5238.6	5196.2	5135.1	5054.3	4941.9	4800.0	4633.4	4444.2	4234.2	4007.5

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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°	35.5	35.5	34.5	33.5	32.5	30.6	29.6	28.6	27.6	25.6	24.6
85°	74.9	72.9	71.0	69.0	66.0	64.1	61.1	59.1	56.2	53.2	50.3
82.5°	118.3	115.3	111.4	108.4	104.5	99.5	95.6	90.7	85.7	81.8	76.9
80°	165.6	160.7	155.7	150.8	144.9	139.0	133.1	127.1	120.2	113.3	106.4
77.5°	216.8	209.9	203.0	195.2	188.3	180.4	172.5	164.6	155.7	146.9	138.0
75°	274.0	265.1	255.3	245.4	236.5	225.7	214.9	204.0	192.2	181.4	169.5
72.5°	336.1	325.3	313.4	301.6	288.8	275.0	261.2	246.4	232.6	218.8	204.0
70°	403.1	390.3	375.5	360.7	345.0	328.2	311.5	293.7	276.0	258.2	240.5
67.5°	475.1	459.3	441.6	423.8	404.1	384.4	364.7	344.0	322.3	300.6	279.9
65°	551.9	532.2	511.5	488.9	466.2	443.5	419.9	395.2	370.6	345.0	322.3
62.5°	637.7	613.1	586.4	558.8	533.2	505.6	480.0	449.4	419.9	391.3	362.7
60°	737.2	704.7	672.2	637.7	605.2	569.7	538.2	504.6	471.1	438.6	405.1
57.5°	848.6	807.2	767.8	726.4	683.0	643.6	603.2	562.8	525.3	486.9	450.4
55°	974.8	924.5	875.2	824.0	773.7	724.4	673.2	627.8	581.5	538.2	495.8
52.5°	1112.8	1055.6	994.5	936.3	872.3	811.2	754.0	696.8	642.6	590.4	542.1
50°	1260.6	1193.6	1123.6	1052.6	979.7	907.8	838.8	771.7	708.7	647.6	590.4
47.5°	1414.4	1338.5	1258.6	1177.8	1100.0	1012.2	929.4	853.5	777.7	708.7	642.6
45°	1572.1	1486.3	1398.6	1306.9	1215.3	1120.7	1029.0	936.3	853.5	771.7	696.8
42.5°	1734.7	1638.1	1540.5	1439.0	1337.5	1234.0	1130.5	1029.0	929.4	838.8	754.0
40°	1902.3	1795.8	1684.4	1574.0	1465.6	1347.3	1234.0	1120.7	1012.2	907.8	811.2
37.5°	2069.8	1953.5	1833.3	1709.1	1584.9	1465.6	1337.5	1215.3	1100.0	979.7	872.3
35°	2238.3	2110.2	1980.1	1845.1	1709.1	1574.0	1439.0	1306.9	1177.8	1052.6	936.3
32.5°	2407.9	2267.9	2124.0	1980.1	1833.3	1684.4	1540.5	1398.6	1258.6	1123.6	994.5
30°	2574.4	2422.7	2267.9	2110.2	1953.5	1795.8	1638.1	1486.3	1338.5	1193.6	1055.6
27.5°	2737.1	2574.4	2407.9	2238.3	2069.8	1902.3	1734.7	1572.1	1414.4	1260.6	1112.8
25°	2893.8	2720.3	2541.9	2361.6	2182.2	2003.8	1827.3	1651.9	1486.3	1324.7	1169.9
22.5°	3041.6	2858.3	2670.1	2478.8	2286.6	2098.4	1913.1	1730.8	1554.3	1384.8	1222.2
20°	3183.6	2987.4	2796.2	2587.3	2386.2	2188.1	1993.9	1802.7	1616.4	1440.0	1269.5
17.5°	3312.7	3106.7	2897.7	2687.8	2476.9	2268.9	2065.9	1875.6	1673.6	1490.3	1314.8
15°	3429.0	3214.1	2995.3	2777.5	2557.7	2341.8	2130.9	1925.9	1725.8	1535.6	1354.2
12.5°	3530.5	3307.8	3081.1	2855.3	2629.6	2405.9	2188.1	1976.2	1771.2	1574.0	1387.8
10°	3614.3	3386.6	3153.0	2920.4	2688.8	2459.1	2234.4	2018.6	1808.6	1606.6	1415.4
7.5°	3682.3	3448.7	3211.2	2971.7	2735.1	2500.5	2271.9	2051.1	1838.2	1631.2	1437.0
5°	3730.6	3494.0	3252.6	3008.1	2768.6	2531.1	2298.5	2074.7	1858.9	1648.9	1452.8
2.5°	3761.1	3530.5	3286.1	3038.7	2796.2	2555.7	2320.2	2093.5	1875.6	1663.7	1465.6
0°	3771.0	3530.5	3286.1	3038.7	2796.2	2555.7	2320.2	2093.5	1875.6	1663.7	1465.6

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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°	23.7	21.7	19.7	18.7	16.8	15.8	13.8	11.8	10.8	8.9	6.9
85°	47.3	43.4	40.4	37.5	34.5	30.6	27.6	24.6	20.7	17.7	13.8
82.5°	72.0	67.0	62.1	57.2	52.2	47.3	41.4	36.5	31.5	26.6	20.7
80°	99.5	91.7	84.8	77.9	71.0	64.1	56.2	49.3	41.4	34.5	27.6
77.5°	128.1	119.3	109.4	99.5	89.7	80.8	71.0	62.1	53.2	43.4	34.5
75°	158.7	146.9	136.0	123.2	111.4	98.6	86.7	74.9	64.1	53.2	41.4
72.5°	190.2	175.4	160.7	146.9	132.1	117.3	103.5	88.7	74.9	62.1	49.3
70°	222.8	205.0	187.3	170.5	153.8	136.0	120.2	103.5	86.7	71.0	56.2
67.5°	257.2	236.5	215.9	194.2	175.4	155.7	136.0	117.3	98.6	80.8	64.1
65°	294.7	270.1	244.4	221.8	197.1	175.4	153.8	132.1	111.4	89.7	71.0
62.5°	333.1	304.6	276.0	247.4	221.8	194.2	170.5	146.9	123.2	99.5	77.9
60°	372.6	340.0	307.5	276.0	244.4	215.9	187.3	160.7	136.0	109.4	84.8
57.5°	413.0	376.5	340.0	304.6	270.1	236.5	205.0	175.4	146.9	119.3	91.7
55°	454.4	413.0	372.6	333.1	294.7	257.2	222.8	190.2	158.7	128.1	99.5
52.5°	495.8	450.4	405.1	362.7	322.3	279.9	240.5	204.0	169.5	138.0	106.4
50°	538.2	486.9	438.6	391.3	345.0	300.6	258.2	218.8	181.4	146.9	113.3
47.5°	581.5	525.3	471.1	419.9	370.6	322.3	276.0	232.6	192.2	155.7	120.2
45°	627.8	562.8	504.6	449.4	395.2	344.0	293.7	246.4	204.0	164.6	127.1
42.5°	673.2	603.2	538.2	480.0	419.9	364.7	311.5	261.2	214.9	172.5	133.1
40°	724.4	643.6	569.7	505.6	443.5	384.4	328.2	275.0	225.7	180.4	139.0
37.5°	773.7	683.0	605.2	533.2	466.2	404.1	345.0	288.8	236.5	188.3	144.9
35°	824.0	726.4	637.7	558.8	488.9	423.8	360.7	301.6	245.4	195.2	150.8
32.5°	875.2	767.8	672.2	586.4	511.5	441.6	375.5	313.4	255.3	203.0	155.7
30°	924.5	807.2	704.7	613.1	532.2	459.3	390.3	325.3	265.1	209.9	160.7
27.5°	974.8	848.6	737.2	637.7	551.9	475.1	403.1	336.1	274.0	216.8	165.6
25°	1023.1	888.0	767.8	661.4	569.7	490.8	416.9	346.9	281.9	222.8	169.5
22.5°	1067.4	922.5	795.4	684.0	588.4	504.6	428.7	356.8	289.8	228.7	173.5
20°	1107.8	958.0	824.0	706.7	606.2	518.4	438.6	365.7	296.7	233.6	177.4
17.5°	1147.3	990.6	849.6	727.4	620.9	530.3	448.5	372.6	302.6	237.5	180.4
15°	1180.8	1019.1	872.3	745.1	634.7	540.1	456.3	379.5	307.5	241.5	182.3
12.5°	1210.3	1043.8	892.0	759.9	645.6	549.0	464.2	385.4	312.4	244.4	185.3
10°	1234.0	1063.5	907.8	772.7	655.4	555.9	469.2	390.3	315.4	247.4	187.3
7.5°	1252.7	1079.3	920.6	781.6	662.3	561.8	474.1	393.3	318.4	249.4	190.2
5°	1266.5	1091.1	929.4	788.5	668.3	568.7	480.0	398.2	322.3	252.3	190.2
2.5°	1277.4	1100.0	936.3	794.4	672.2	568.7	480.0	398.2	322.3	252.3	190.2
0°	1277.4	1100.0	936.3	794.4	672.2	568.7	480.0	398.2	322.3	252.3	190.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.9	3.9	2.0	0.0
85°	10.8	6.9	3.9	0.0
82.5°	15.8	10.8	4.9	0.0
80°	20.7	13.8	6.9	0.0
77.5°	26.6	17.7	8.9	0.0
75°	31.5	20.7	10.8	0.0
72.5°	36.5	24.6	11.8	0.0
70°	41.4	27.6	13.8	0.0
67.5°	47.3	30.6	15.8	0.0
65°	52.2	34.5	16.8	0.0
62.5°	57.2	37.5	18.7	0.0
60°	62.1	40.4	19.7	0.0
57.5°	67.0	43.4	21.7	0.0
55°	72.0	47.3	23.7	0.0
52.5°	76.9	50.3	24.6	0.0
50°	81.8	53.2	25.6	0.0
47.5°	85.7	56.2	27.6	0.0
45°	90.7	59.1	28.6	0.0
42.5°	95.6	61.1	29.6	0.0
40°	99.5	64.1	30.6	0.0
37.5°	104.5	66.0	32.5	0.0
35°	108.4	69.0	33.5	0.0
32.5°	111.4	71.0	34.5	0.0
30°	115.3	72.9	35.5	0.0
27.5°	118.3	74.9	35.5	0.0
25°	121.2	76.9	36.5	0.0
22.5°	124.2	77.9	37.5	0.0
20°	127.1	79.8	38.4	0.0
17.5°	129.1	80.8	38.4	0.0
15°	131.1	81.8	40.4	0.0
12.5°	132.1	82.8	40.4	0.0
10°	134.0	84.8	40.4	0.0
7.5°	136.0	84.8	40.4	0.0
5°	136.0	84.8	40.4	0.0
2.5°	136.0	84.8	40.4	0.0
0°	136.0	84.8	40.4	0.0

(END OF REPORT)