

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: P623637

Luminaire Tested: **IFLD-S-SA2A-735-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623637
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-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	9494.4 lumens	Max Intensity:	11602.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	148.8 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

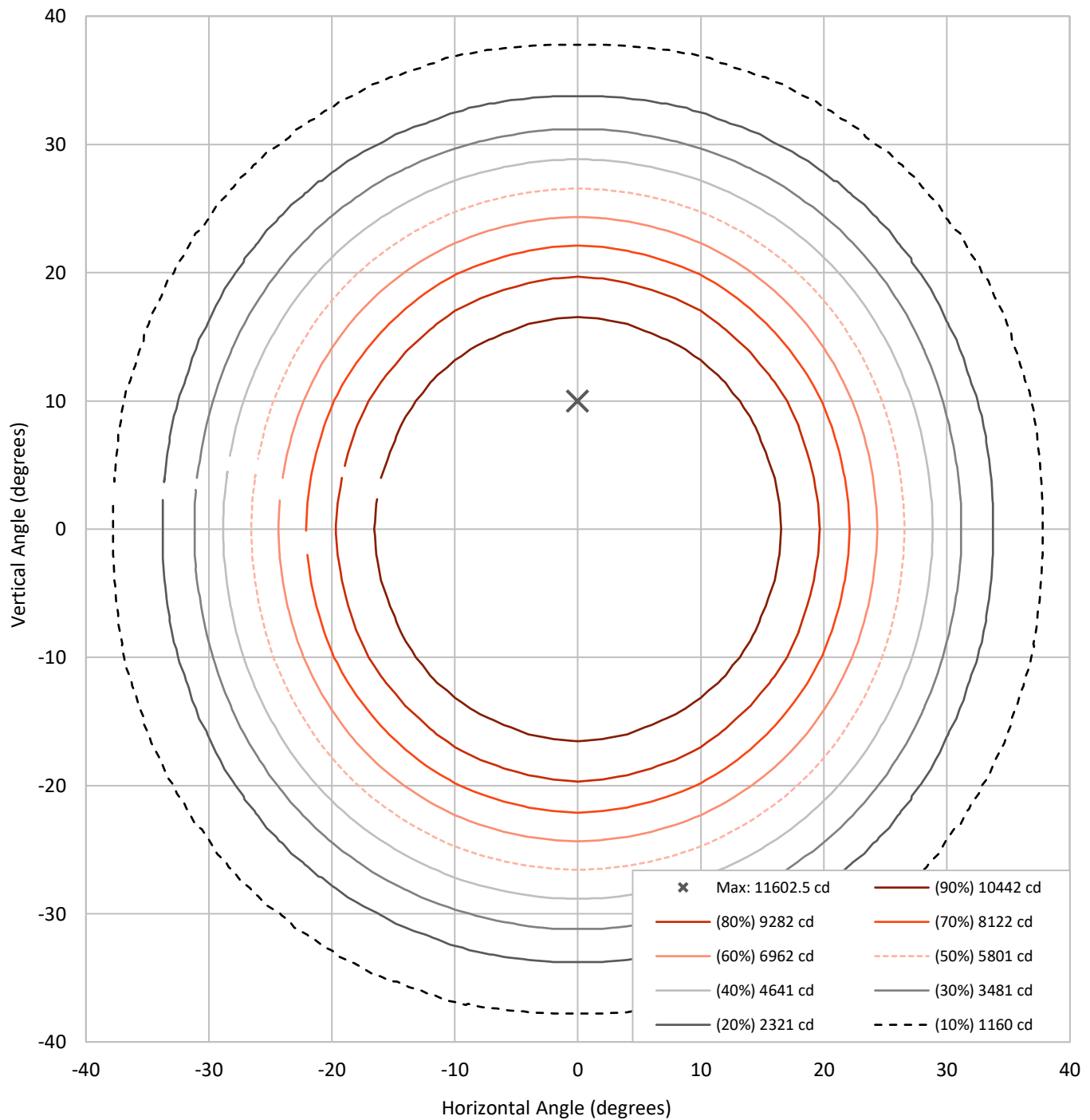
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	4718.9 lumens	Field Lumens:	6137.1 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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



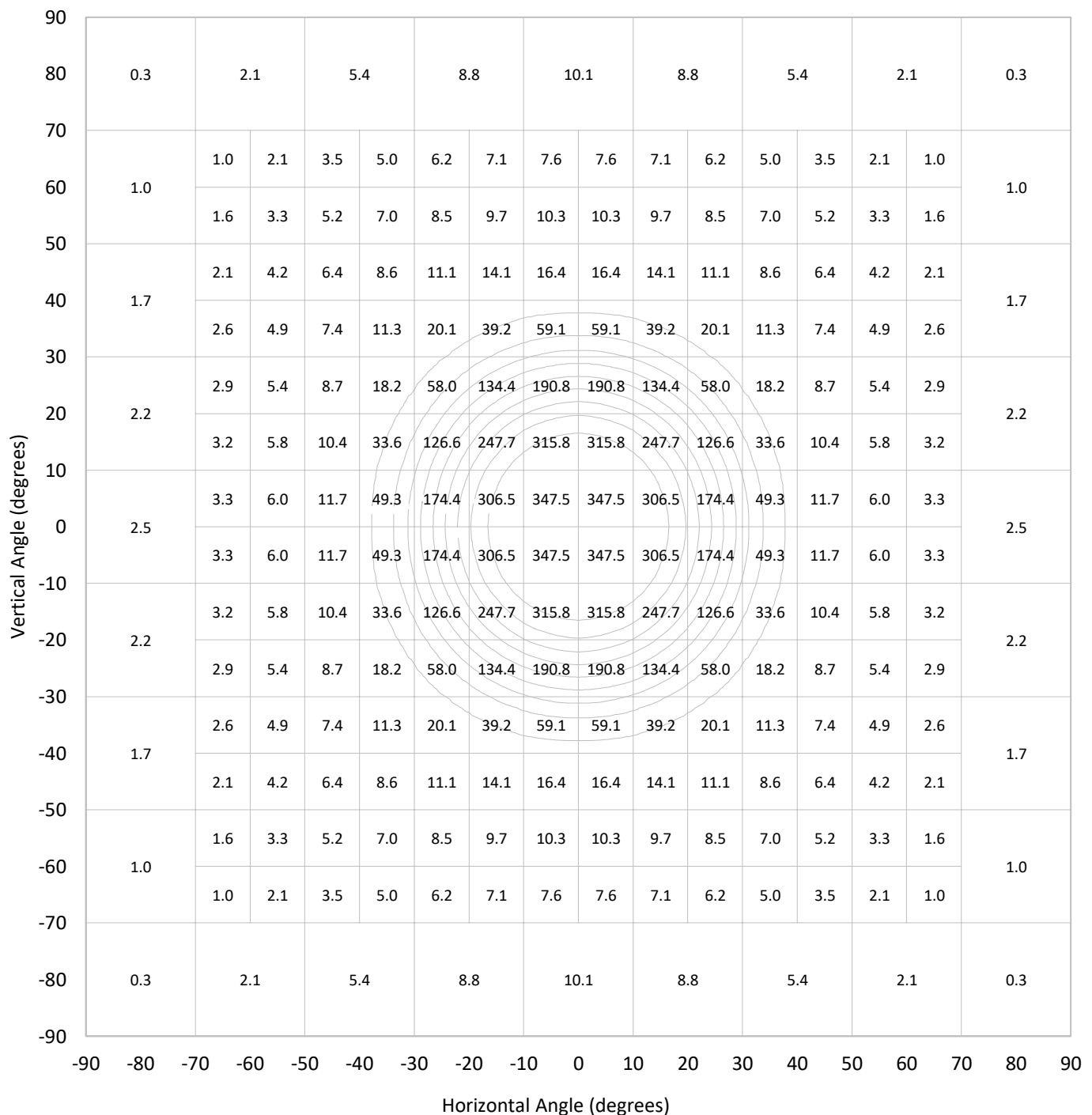
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Iso-Candela Plot



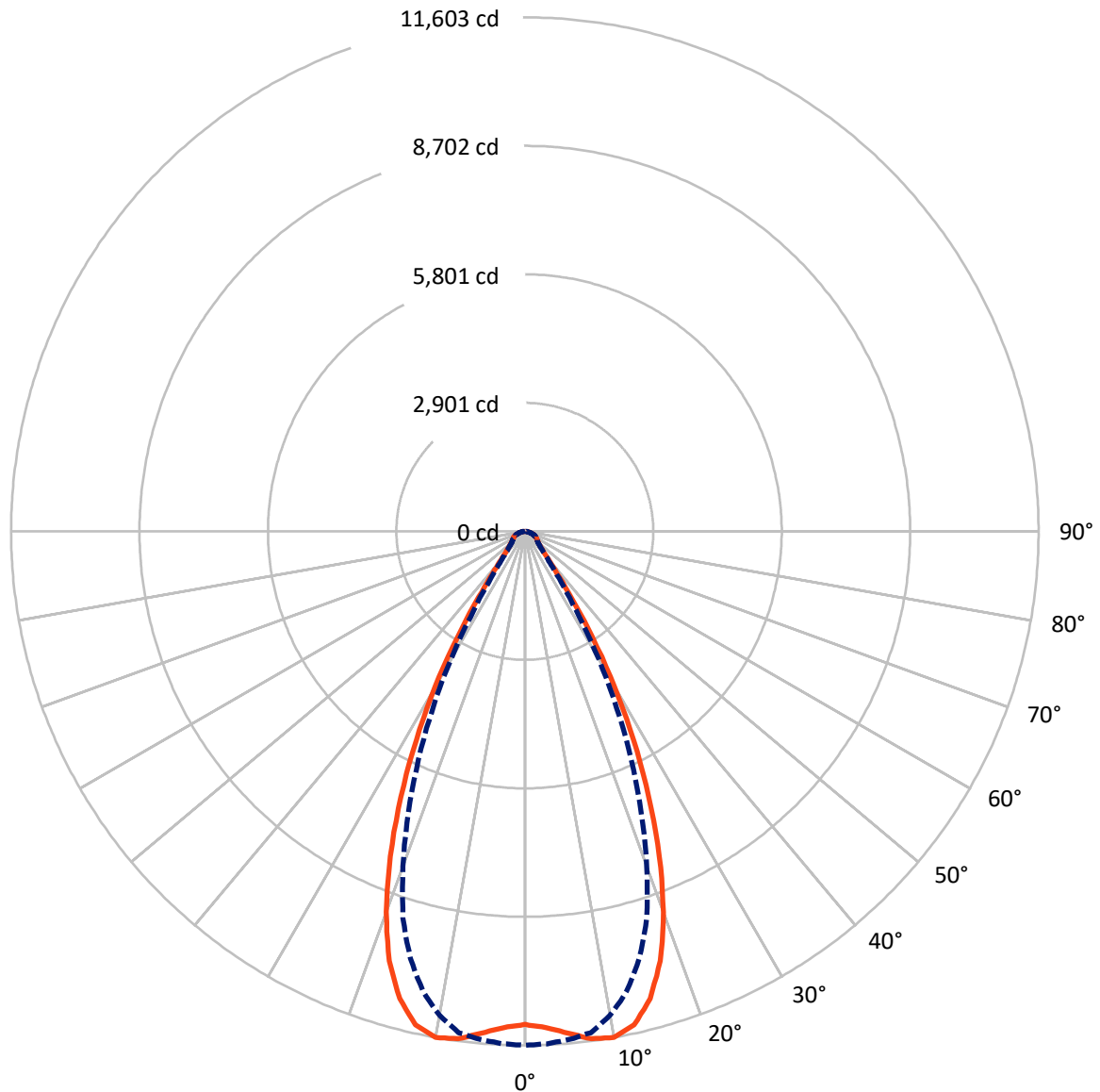
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Lumen Table



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Luminous Intensity Polar Plot

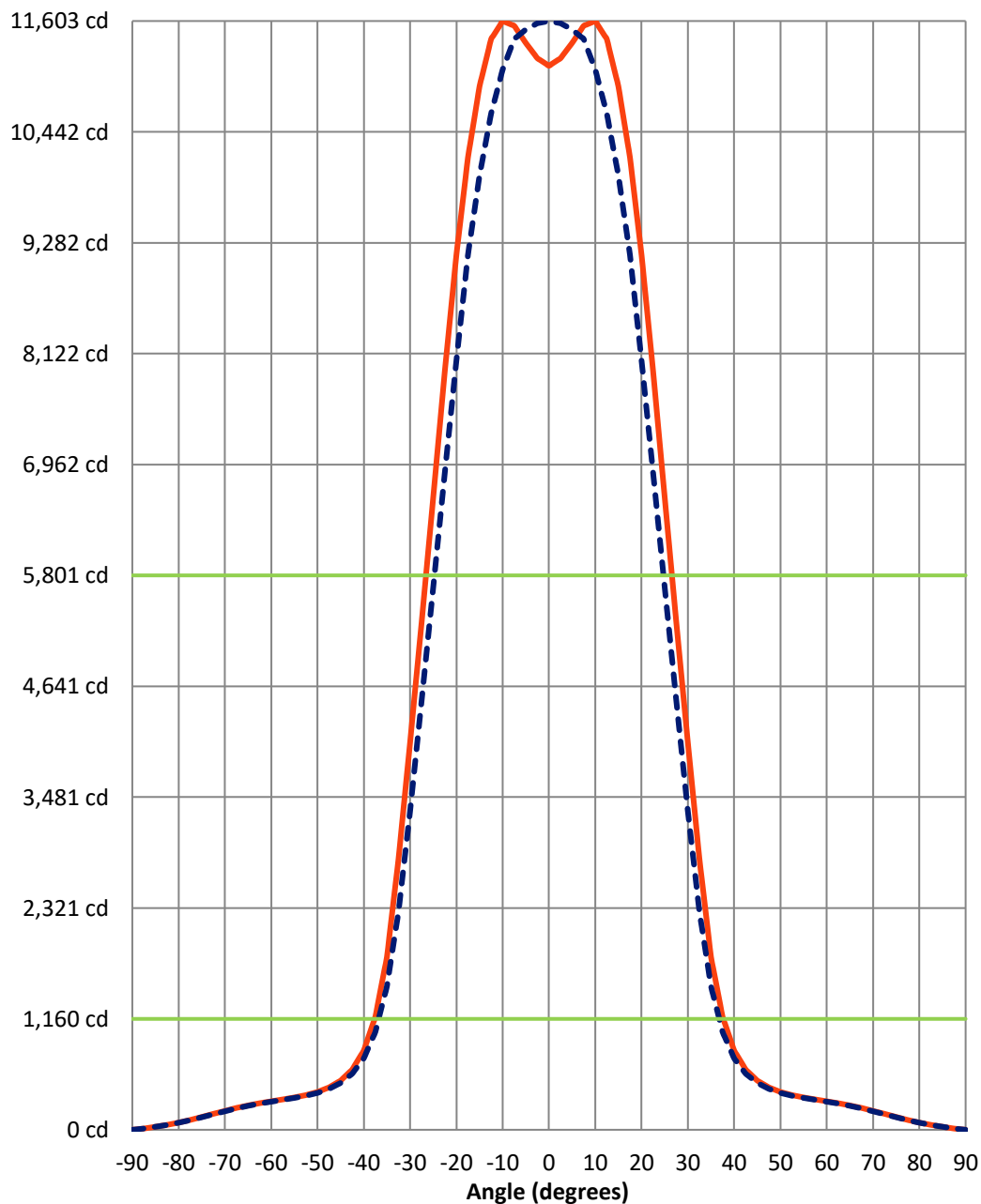


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 4718.9
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 6137.1
Efficiency: 64.6%

Spill:

Lumens: 3357.3
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°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	11.8	11.8	11.8	11.8
85°	31.6	31.6	31.6	31.6	31.6	30.6	30.6	29.6	29.6	28.6	27.6
82.5°	51.3	51.3	51.3	51.3	50.3	50.3	49.3	48.3	47.3	46.4	45.4
80°	75.0	75.0	75.0	75.0	74.0	73.0	72.0	71.0	69.0	68.1	66.1
77.5°	102.6	102.6	102.6	101.6	100.6	99.6	97.6	95.7	93.7	91.7	89.8
75°	134.1	134.1	134.1	132.2	131.2	129.2	127.2	125.3	122.3	119.3	116.4
72.5°	166.7	166.7	166.7	164.7	162.7	160.8	158.8	155.8	152.9	148.9	145.0
70°	197.3	197.3	197.3	195.3	193.3	191.3	188.4	185.4	181.5	177.5	173.6
67.5°	228.8	228.8	228.8	225.9	223.9	221.9	219.0	215.0	211.1	206.1	201.2
65°	254.5	254.5	253.5	252.5	250.5	247.6	245.6	241.6	237.7	233.7	228.8
62.5°	278.1	278.1	277.1	276.2	274.2	271.2	268.3	265.3	261.4	256.4	251.5
60°	297.9	297.9	296.9	295.9	293.9	291.9	289.0	286.0	282.1	278.1	273.2
57.5°	317.6	317.6	316.6	315.6	313.6	310.7	307.7	304.8	300.8	295.9	290.9
55°	338.3	338.3	337.3	335.3	333.4	330.4	327.4	323.5	318.6	313.6	308.7
52.5°	362.9	362.9	361.0	359.0	356.0	353.1	348.2	343.2	337.3	331.4	325.5
50°	395.5	395.5	393.5	390.6	385.6	380.7	374.8	366.9	360.0	352.1	344.2
47.5°	443.8	443.8	439.9	434.9	428.0	420.2	409.3	397.5	387.6	377.7	365.9
45°	514.8	514.8	508.9	501.0	490.2	476.4	460.6	443.8	427.1	410.3	393.5
42.5°	630.2	630.2	619.4	605.6	586.8	563.2	533.6	506.0	482.3	455.7	433.0
40°	829.5	829.5	808.7	783.1	747.6	702.2	648.0	604.6	563.2	516.8	485.2
37.5°	1183.5	1183.5	1143.1	1093.8	1024.7	937.9	833.4	763.4	686.4	613.5	560.2
35°	1808.8	1808.8	1730.9	1635.2	1502.1	1334.4	1155.9	1023.7	876.8	764.4	664.7
32.5°	2834.5	2834.5	2694.5	2521.9	2284.2	1983.4	1697.4	1445.9	1183.5	997.1	817.6
30°	4053.6	4053.6	3870.1	3644.3	3334.6	2944.0	2536.7	2089.9	1675.7	1343.3	1072.1
27.5°	5314.0	5261.7	5103.9	4846.5	4493.4	4053.6	3545.6	2968.7	2408.5	1822.6	1435.0
25°	6617.9	6556.7	6376.2	6080.4	5676.0	5177.9	4605.9	3960.9	3269.5	2571.2	1900.5
22.5°	7935.5	7866.5	7661.3	7327.0	6873.3	6315.1	5667.1	4950.1	4177.8	3371.1	2571.2
20°	9153.6	9080.6	8865.6	8517.4	8048.0	7435.5	6715.5	5920.6	5066.5	4177.8	3269.5
17.5°	10173.4	10103.3	9896.2	9563.9	9153.6	8476.0	7727.4	6853.6	5920.6	4950.1	3960.9
15°	10918.0	10857.8	10681.3	10402.2	9984.0	9384.4	8622.0	7727.4	6715.5	5667.1	4605.9
12.5°	11412.1	11363.8	11224.7	11007.8	10633.0	10130.0	9384.4	8476.0	7435.5	6315.1	5177.9
10°	11602.5	11578.8	11513.7	11414.1	11094.5	10633.0	9984.0	9153.6	8048.0	6873.3	5676.0
7.5°	11552.2	11560.1	11582.7	11557.1	11414.1	11007.8	10402.2	9563.9	8517.4	7327.0	6080.4
5°	11372.7	11415.1	11520.6	11582.7	11513.7	11224.7	10681.3	9896.2	8865.6	7661.3	6376.2
2.5°	11212.9	11279.0	11415.1	11560.1	11578.8	11363.8	10857.8	10103.3	9080.6	7866.5	6556.7
0°	11134.0	11212.9	11372.7	11552.2	11602.5	11412.1	10918.0	10173.4	9153.6	7935.5	6617.9

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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°	11.8	10.8	10.8	10.8	9.9	9.9	9.9	8.9	8.9	7.9	7.9
85°	27.6	26.6	25.6	24.7	23.7	22.7	21.7	20.7	19.7	17.8	16.8
82.5°	44.4	43.4	42.4	40.4	39.5	37.5	35.5	33.5	31.6	30.6	28.6
80°	64.1	62.1	60.2	58.2	55.2	52.3	50.3	47.3	45.4	42.4	40.4
77.5°	86.8	83.8	80.9	76.9	74.0	71.0	67.1	64.1	60.2	56.2	52.3
75°	112.4	108.5	103.6	99.6	95.7	90.7	85.8	80.9	75.9	71.0	66.1
72.5°	140.1	135.1	130.2	125.3	119.3	112.4	106.5	99.6	93.7	87.8	80.9
70°	168.7	162.7	156.8	150.9	144.0	136.1	129.2	121.3	113.4	105.5	97.6
67.5°	195.3	189.4	182.5	176.5	168.7	160.8	151.9	143.0	134.1	124.3	114.4
65°	222.9	216.0	208.1	200.2	192.3	183.4	174.6	165.7	154.8	144.0	134.1
62.5°	245.6	239.7	232.8	224.9	216.0	206.1	197.3	185.4	174.6	163.7	150.9
60°	267.3	260.4	254.5	245.6	237.7	228.8	218.0	206.1	194.3	181.5	169.6
57.5°	286.0	280.1	273.2	265.3	256.4	247.6	237.7	226.8	213.0	200.2	186.4
55°	302.8	295.9	289.0	282.1	274.2	264.3	254.5	243.6	231.8	218.0	203.2
52.5°	319.6	312.6	304.8	297.9	289.0	280.1	270.2	259.4	247.6	234.7	219.0
50°	336.3	328.4	320.5	311.7	302.8	293.9	284.0	274.2	261.4	248.5	234.7
47.5°	356.0	346.2	336.3	326.5	317.6	306.7	296.9	286.0	275.2	261.4	247.6
45°	380.7	365.9	354.1	342.2	331.4	320.5	308.7	297.9	286.0	274.2	259.4
42.5°	411.3	391.5	375.8	360.0	346.2	333.4	321.5	308.7	296.9	284.0	270.2
40°	452.7	426.1	400.4	380.7	362.9	347.2	333.4	320.5	306.7	293.9	280.1
37.5°	506.9	469.5	434.0	405.4	382.7	362.9	346.2	331.4	317.6	302.8	289.0
35°	588.8	523.7	478.3	436.9	405.4	380.7	360.0	342.2	326.5	311.7	297.9
32.5°	704.2	603.6	530.6	478.3	434.0	400.4	375.8	354.1	336.3	320.5	304.8
30°	856.1	717.0	603.6	523.7	469.5	426.1	391.5	365.9	346.2	328.4	312.6
27.5°	1096.7	856.1	704.2	588.8	506.9	452.7	411.3	380.7	356.0	336.3	319.6
25°	1435.0	1072.1	817.6	664.7	560.2	485.2	433.0	393.5	365.9	344.2	325.5
22.5°	1822.6	1343.3	997.1	764.4	613.5	516.8	455.7	410.3	377.7	352.1	331.4
20°	2408.5	1675.7	1183.5	876.8	686.4	563.2	482.3	427.1	387.6	360.0	337.3
17.5°	2968.7	2089.9	1445.9	1023.7	763.4	604.6	506.0	443.8	397.5	366.9	343.2
15°	3545.6	2536.7	1697.4	1155.9	833.4	648.0	533.6	460.6	409.3	374.8	348.2
12.5°	4053.6	2944.0	1983.4	1334.4	937.9	702.2	563.2	476.4	420.2	380.7	353.1
10°	4493.4	3334.6	2284.2	1502.1	1024.7	747.6	586.8	490.2	428.0	385.6	356.0
7.5°	4846.5	3644.3	2521.9	1635.2	1093.8	783.1	605.6	501.0	434.9	390.6	359.0
5°	5103.9	3870.1	2694.5	1730.9	1143.1	808.7	619.4	508.9	439.9	393.5	361.0
2.5°	5261.7	4053.6	2834.5	1808.8	1183.5	829.5	630.2	514.8	443.8	395.5	362.9
0°	5314.0	4053.6	2834.5	1808.8	1183.5	829.5	630.2	514.8	443.8	395.5	362.9

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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°	6.9	6.9	5.9	5.9	4.9	4.9	3.9	3.9	3.0	3.0	2.0
85°	15.8	13.8	12.8	11.8	10.8	9.9	8.9	7.9	6.9	5.9	4.9
82.5°	26.6	24.7	21.7	19.7	17.8	15.8	12.8	11.8	9.9	7.9	6.9
80°	37.5	34.5	31.6	28.6	25.6	22.7	19.7	16.8	13.8	10.8	8.9
77.5°	48.3	44.4	41.4	37.5	33.5	29.6	25.6	21.7	17.8	13.8	10.8
75°	61.1	56.2	51.3	46.4	41.4	36.5	32.5	27.6	22.7	17.8	13.8
72.5°	75.0	68.1	62.1	56.2	49.3	44.4	38.5	33.5	27.6	21.7	16.8
70°	89.8	81.9	74.0	66.1	59.2	51.3	45.4	38.5	32.5	25.6	19.7
67.5°	104.5	95.7	86.8	76.9	68.1	60.2	51.3	44.4	36.5	29.6	22.7
65°	122.3	110.5	99.6	88.8	77.9	68.1	59.2	49.3	41.4	33.5	25.6
62.5°	139.1	126.2	113.4	100.6	88.8	76.9	66.1	56.2	46.4	37.5	28.6
60°	155.8	142.0	127.2	113.4	99.6	86.8	74.0	62.1	51.3	41.4	31.6
57.5°	172.6	156.8	142.0	126.2	110.5	95.7	81.9	68.1	56.2	44.4	34.5
55°	187.4	172.6	155.8	139.1	122.3	104.5	89.8	75.0	61.1	48.3	37.5
52.5°	203.2	186.4	169.6	150.9	134.1	114.4	97.6	80.9	66.1	52.3	40.4
50°	218.0	200.2	181.5	163.7	144.0	124.3	105.5	87.8	71.0	56.2	42.4
47.5°	231.8	213.0	194.3	174.6	154.8	134.1	113.4	93.7	75.9	60.2	45.4
45°	243.6	226.8	206.1	185.4	165.7	143.0	121.3	99.6	80.9	64.1	47.3
42.5°	254.5	237.7	218.0	197.3	174.6	151.9	129.2	106.5	85.8	67.1	50.3
40°	264.3	247.6	228.8	206.1	183.4	160.8	136.1	112.4	90.7	71.0	52.3
37.5°	274.2	256.4	237.7	216.0	192.3	168.7	144.0	119.3	95.7	74.0	55.2
35°	282.1	265.3	245.6	224.9	200.2	176.5	150.9	125.3	99.6	76.9	58.2
32.5°	289.0	273.2	254.5	232.8	208.1	182.5	156.8	130.2	103.6	80.9	60.2
30°	295.9	280.1	260.4	239.7	216.0	189.4	162.7	135.1	108.5	83.8	62.1
27.5°	302.8	286.0	267.3	245.6	222.9	195.3	168.7	140.1	112.4	86.8	64.1
25°	308.7	290.9	273.2	251.5	228.8	201.2	173.6	145.0	116.4	89.8	66.1
22.5°	313.6	295.9	278.1	256.4	233.7	206.1	177.5	148.9	119.3	91.7	68.1
20°	318.6	300.8	282.1	261.4	237.7	211.1	181.5	152.9	122.3	93.7	69.0
17.5°	323.5	304.8	286.0	265.3	241.6	215.0	185.4	155.8	125.3	95.7	71.0
15°	327.4	307.7	289.0	268.3	245.6	219.0	188.4	158.8	127.2	97.6	72.0
12.5°	330.4	310.7	291.9	271.2	247.6	221.9	191.3	160.8	129.2	99.6	73.0
10°	333.4	313.6	293.9	274.2	250.5	223.9	193.3	162.7	131.2	100.6	74.0
7.5°	335.3	315.6	295.9	276.2	252.5	225.9	195.3	164.7	132.2	101.6	75.0
5°	337.3	316.6	296.9	277.1	253.5	228.8	197.3	166.7	134.1	102.6	75.0
2.5°	338.3	317.6	297.9	278.1	254.5	228.8	197.3	166.7	134.1	102.6	75.0
0°	338.3	317.6	297.9	278.1	254.5	228.8	197.3	166.7	134.1	102.6	75.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	0.0
85°	3.0	2.0	1.0	0.0
82.5°	4.9	3.0	2.0	0.0
80°	6.9	4.9	2.0	0.0
77.5°	7.9	5.9	3.0	0.0
75°	9.9	6.9	3.0	0.0
72.5°	11.8	7.9	3.9	0.0
70°	12.8	8.9	3.9	0.0
67.5°	15.8	9.9	4.9	0.0
65°	17.8	10.8	4.9	0.0
62.5°	19.7	11.8	5.9	0.0
60°	21.7	12.8	5.9	0.0
57.5°	24.7	13.8	6.9	0.0
55°	26.6	15.8	6.9	0.0
52.5°	28.6	16.8	7.9	0.0
50°	30.6	17.8	7.9	0.0
47.5°	31.6	19.7	8.9	0.0
45°	33.5	20.7	8.9	0.0
42.5°	35.5	21.7	9.9	0.0
40°	37.5	22.7	9.9	0.0
37.5°	39.5	23.7	9.9	0.0
35°	40.4	24.7	10.8	0.0
32.5°	42.4	25.6	10.8	0.0
30°	43.4	26.6	10.8	0.0
27.5°	44.4	27.6	11.8	0.0
25°	45.4	27.6	11.8	0.0
22.5°	46.4	28.6	11.8	0.0
20°	47.3	29.6	11.8	0.0
17.5°	48.3	29.6	11.8	0.0
15°	49.3	30.6	12.8	0.0
12.5°	50.3	30.6	12.8	0.0
10°	50.3	31.6	12.8	0.0
7.5°	51.3	31.6	12.8	0.0
5°	51.3	31.6	12.8	0.0
2.5°	51.3	31.6	12.8	0.0
0°	51.3	31.6	12.8	0.0

(END OF REPORT)