

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: P623783

Luminaire Tested: **IFLD-S-SA2B-830-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623783
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	9459.7 lumens	Max Intensity:	11560.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	114.8 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:	4701.7 lumens	Field Lumens:	6114.7 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

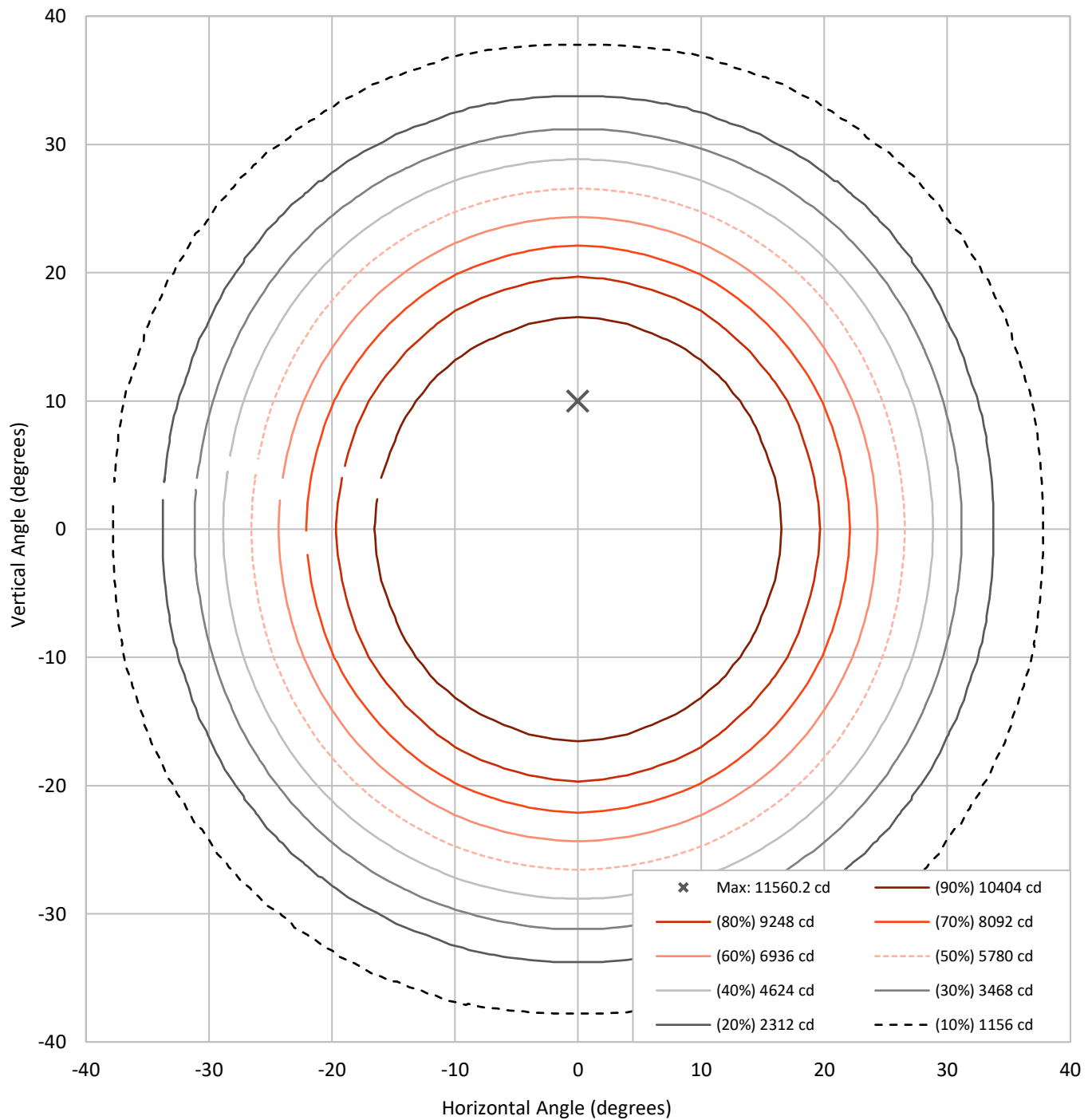
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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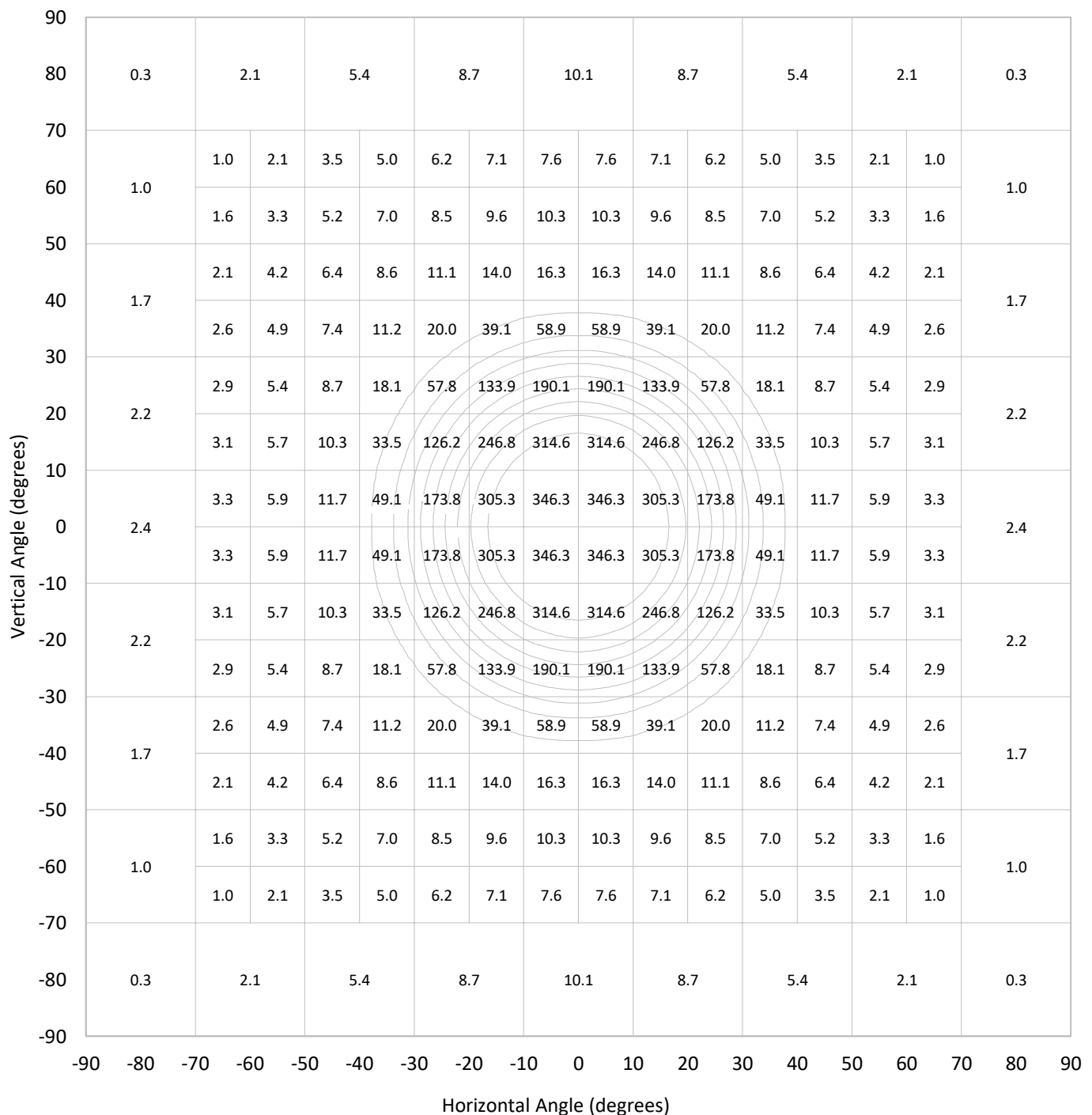
Iso-Candela Plot



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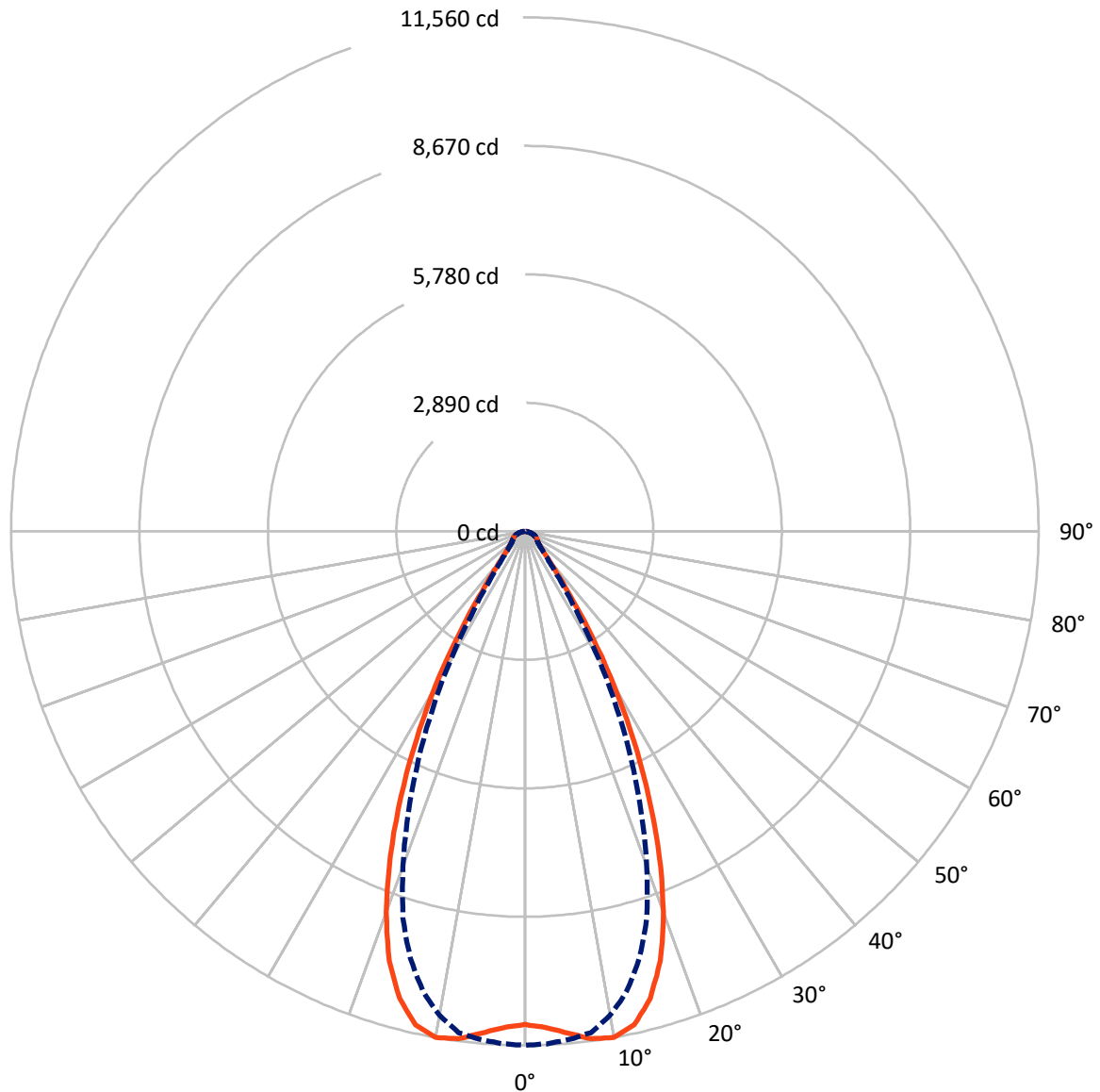
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Lumen Table



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Luminous Intensity Polar Plot

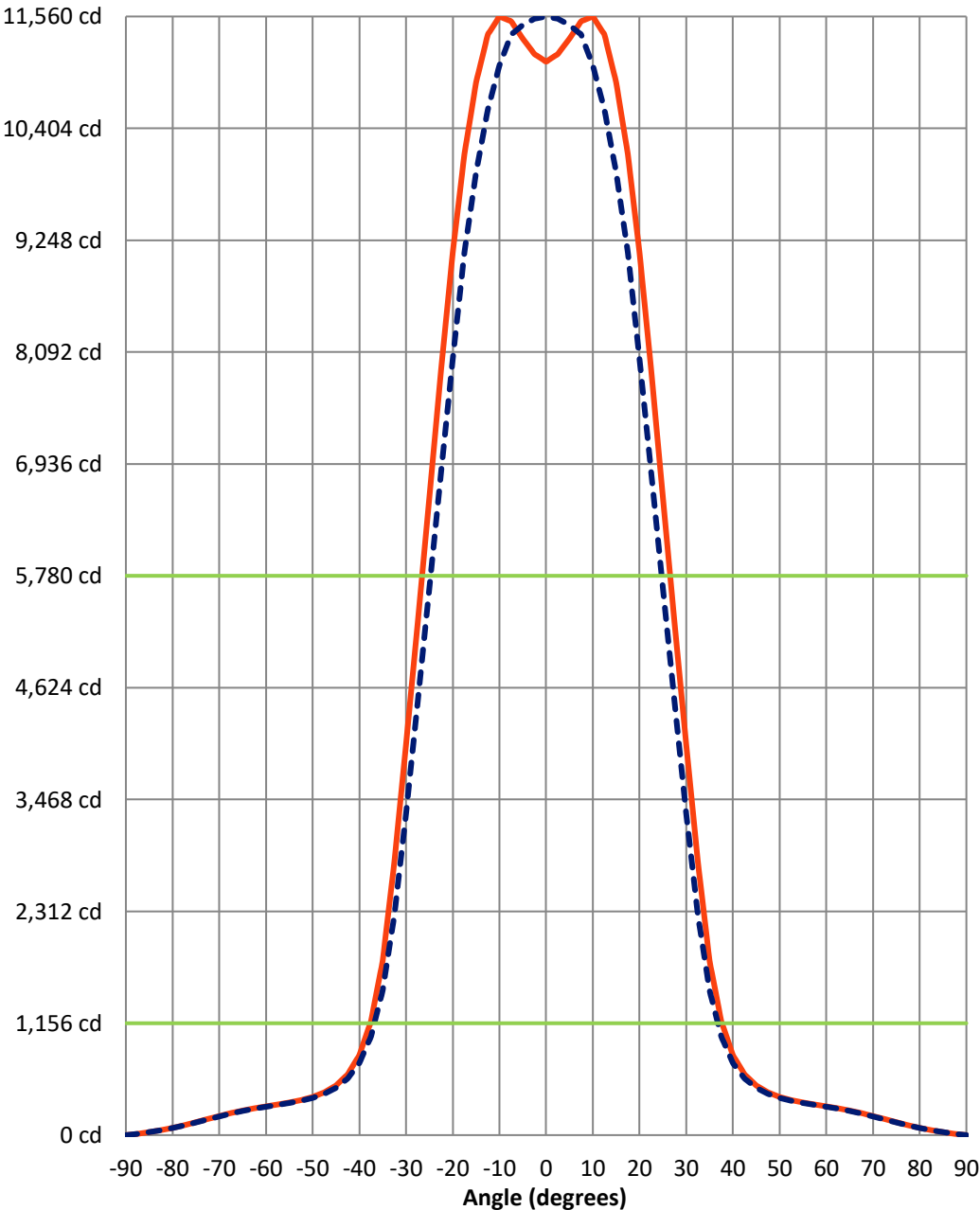


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 4701.7
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 6114.7
Efficiency: 64.6%

Spill:
Lumens: 3345
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°	31.4	31.4	31.4	31.4	31.4	30.5	30.5	29.5	29.5	28.5	27.5
82.5°	51.1	51.1	51.1	51.1	50.1	50.1	49.1	48.2	47.2	46.2	45.2
80°	74.7	74.7	74.7	74.7	73.7	72.7	71.7	70.8	68.8	67.8	65.8
77.5°	102.2	102.2	102.2	101.2	100.2	99.3	97.3	95.3	93.4	91.4	89.4
75°	133.6	133.6	133.6	131.7	130.7	128.7	126.8	124.8	121.9	118.9	116.0
72.5°	166.1	166.1	166.1	164.1	162.1	160.2	158.2	155.3	152.3	148.4	144.5
70°	196.5	196.5	196.5	194.6	192.6	190.6	187.7	184.7	180.8	176.9	173.0
67.5°	228.0	228.0	228.0	225.0	223.1	221.1	218.2	214.2	210.3	205.4	200.5
65°	253.5	253.5	252.5	251.6	249.6	246.7	244.7	240.8	236.8	232.9	228.0
62.5°	277.1	277.1	276.1	275.1	273.2	270.2	267.3	264.3	260.4	255.5	250.6
60°	296.8	296.8	295.8	294.8	292.8	290.9	287.9	285.0	281.0	277.1	272.2
57.5°	316.4	316.4	315.4	314.5	312.5	309.5	306.6	303.6	299.7	294.8	289.9
55°	337.1	337.1	336.1	334.1	332.1	329.2	326.2	322.3	317.4	312.5	307.6
52.5°	361.6	361.6	359.7	357.7	354.7	351.8	346.9	342.0	336.1	330.2	324.3
50°	394.1	394.1	392.1	389.1	384.2	379.3	373.4	365.6	358.7	350.8	343.0
47.5°	442.2	442.2	438.3	433.4	426.5	418.6	407.8	396.0	386.2	376.4	364.6
45°	513.0	513.0	507.1	499.2	488.4	474.6	458.9	442.2	425.5	408.8	392.1
42.5°	627.9	627.9	617.1	603.4	584.7	561.1	531.6	504.1	480.5	454.0	431.4
40°	826.4	826.4	805.8	780.2	744.9	699.7	645.6	602.4	561.1	514.9	483.5
37.5°	1179.2	1179.2	1138.9	1089.8	1021.0	934.5	830.4	760.6	683.9	611.2	558.2
35°	1802.2	1802.2	1724.6	1629.3	1496.6	1329.6	1151.7	1020.0	873.6	761.6	662.3
32.5°	2824.2	2824.2	2684.7	2512.7	2275.9	1976.2	1691.2	1440.6	1179.2	993.5	814.6
30°	4038.8	4038.8	3856.0	3631.0	3322.4	2933.3	2527.4	2082.3	1669.6	1338.4	1068.2
27.5°	5294.7	5242.6	5085.3	4828.9	4477.1	4038.8	3532.7	2957.9	2399.7	1816.0	1429.8
25°	6593.8	6532.8	6353.0	6058.2	5655.3	5159.0	4589.1	3946.4	3257.6	2561.8	1893.6
22.5°	7906.6	7837.8	7633.4	7300.3	6848.3	6292.1	5646.5	4932.1	4162.6	3358.8	2561.8
20°	9120.2	9047.5	8833.3	8486.4	8018.6	7408.4	6691.0	5899.0	5048.0	4162.6	3257.6
17.5°	10136.3	10066.5	9860.2	9529.0	9120.2	8445.1	7699.3	6828.6	5899.0	4932.1	3946.4
15°	10878.2	10818.3	10642.4	10364.3	9947.6	9350.2	8590.6	7699.3	6691.0	5646.5	4589.1
12.5°	11370.5	11322.4	11183.8	10967.6	10594.2	10093.1	9350.2	8445.1	7408.4	6292.1	5159.0
10°	11560.2	11536.6	11471.8	11372.5	11054.1	10594.2	9947.6	9120.2	8018.6	6848.3	5655.3
7.5°	11510.1	11517.9	11540.5	11515.0	11372.5	10967.6	10364.3	9529.0	8486.4	7300.3	6058.2
5°	11331.2	11373.5	11478.6	11540.5	11471.8	11183.8	10642.4	9860.2	8833.3	7633.4	6353.0
2.5°	11172.0	11237.9	11373.5	11517.9	11536.6	11322.4	10818.3	10066.5	9047.5	7837.8	6532.8
0°	11093.4	11172.0	11331.2	11510.1	11560.2	11370.5	10878.2	10136.3	9120.2	7906.6	6593.8

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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°	11.8	10.8	10.8	10.8	9.8	9.8	9.8	8.8	8.8	7.9	7.9
85°	27.5	26.5	25.5	24.6	23.6	22.6	21.6	20.6	19.7	17.7	16.7
82.5°	44.2	43.2	42.3	40.3	39.3	37.3	35.4	33.4	31.4	30.5	28.5
80°	63.9	61.9	59.9	58.0	55.0	52.1	50.1	47.2	45.2	42.3	40.3
77.5°	86.5	83.5	80.6	76.6	73.7	70.8	66.8	63.9	59.9	56.0	52.1
75°	112.0	108.1	103.2	99.3	95.3	90.4	85.5	80.6	75.7	70.8	65.8
72.5°	139.5	134.6	129.7	124.8	118.9	112.0	106.1	99.3	93.4	87.5	80.6
70°	168.0	162.1	156.2	150.3	143.5	135.6	128.7	120.9	113.0	105.1	97.3
67.5°	194.6	188.7	181.8	175.9	168.0	160.2	151.3	142.5	133.6	123.8	114.0
65°	222.1	215.2	207.3	199.5	191.6	182.8	173.9	165.1	154.3	143.5	133.6
62.5°	244.7	238.8	231.9	224.1	215.2	205.4	196.5	184.7	173.9	163.1	150.3
60°	266.3	259.4	253.5	244.7	236.8	228.0	217.2	205.4	193.6	180.8	169.0
57.5°	285.0	279.1	272.2	264.3	255.5	246.7	236.8	226.0	212.3	199.5	185.7
55°	301.7	294.8	287.9	281.0	273.2	263.4	253.5	242.7	230.9	217.2	202.4
52.5°	318.4	311.5	303.6	296.8	287.9	279.1	269.3	258.4	246.7	233.9	218.2
50°	335.1	327.2	319.4	310.5	301.7	292.8	283.0	273.2	260.4	247.6	233.9
47.5°	354.7	344.9	335.1	325.3	316.4	305.6	295.8	285.0	274.2	260.4	246.7
45°	379.3	364.6	352.8	341.0	330.2	319.4	307.6	296.8	285.0	273.2	258.4
42.5°	409.8	390.1	374.4	358.7	344.9	332.1	320.4	307.6	295.8	283.0	269.3
40°	451.0	424.5	399.0	379.3	361.6	345.9	332.1	319.4	305.6	292.8	279.1
37.5°	505.1	467.8	432.4	403.9	381.3	361.6	344.9	330.2	316.4	301.7	287.9
35°	586.7	521.8	476.6	435.3	403.9	379.3	358.7	341.0	325.3	310.5	296.8
32.5°	701.6	601.4	528.7	476.6	432.4	399.0	374.4	352.8	335.1	319.4	303.6
30°	853.0	714.4	601.4	521.8	467.8	424.5	390.1	364.6	344.9	327.2	311.5
27.5°	1092.7	853.0	701.6	586.7	505.1	451.0	409.8	379.3	354.7	335.1	318.4
25°	1429.8	1068.2	814.6	662.3	558.2	483.5	431.4	392.1	364.6	343.0	324.3
22.5°	1816.0	1338.4	993.5	761.6	611.2	514.9	454.0	408.8	376.4	350.8	330.2
20°	2399.7	1669.6	1179.2	873.6	683.9	561.1	480.5	425.5	386.2	358.7	336.1
17.5°	2957.9	2082.3	1440.6	1020.0	760.6	602.4	504.1	442.2	396.0	365.6	342.0
15°	3532.7	2527.4	1691.2	1151.7	830.4	645.6	531.6	458.9	407.8	373.4	346.9
12.5°	4038.8	2933.3	1976.2	1329.6	934.5	699.7	561.1	474.6	418.6	379.3	351.8
10°	4477.1	3322.4	2275.9	1496.6	1021.0	744.9	584.7	488.4	426.5	384.2	354.7
7.5°	4828.9	3631.0	2512.7	1629.3	1089.8	780.2	603.4	499.2	433.4	389.1	357.7
5°	5085.3	3856.0	2684.7	1724.6	1138.9	805.8	617.1	507.1	438.3	392.1	359.7
2.5°	5242.6	4038.8	2824.2	1802.2	1179.2	826.4	627.9	513.0	442.2	394.1	361.6
0°	5294.7	4038.8	2824.2	1802.2	1179.2	826.4	627.9	513.0	442.2	394.1	361.6

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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°	6.9	6.9	5.9	5.9	4.9	4.9	3.9	3.9	2.9	2.9	2.0
85°	15.7	13.8	12.8	11.8	10.8	9.8	8.8	7.9	6.9	5.9	4.9
82.5°	26.5	24.6	21.6	19.7	17.7	15.7	12.8	11.8	9.8	7.9	6.9
80°	37.3	34.4	31.4	28.5	25.5	22.6	19.7	16.7	13.8	10.8	8.8
77.5°	48.2	44.2	41.3	37.3	33.4	29.5	25.5	21.6	17.7	13.8	10.8
75°	60.9	56.0	51.1	46.2	41.3	36.4	32.4	27.5	22.6	17.7	13.8
72.5°	74.7	67.8	61.9	56.0	49.1	44.2	38.3	33.4	27.5	21.6	16.7
70°	89.4	81.6	73.7	65.8	59.0	51.1	45.2	38.3	32.4	25.5	19.7
67.5°	104.2	95.3	86.5	76.6	67.8	59.9	51.1	44.2	36.4	29.5	22.6
65°	121.9	110.1	99.3	88.4	77.6	67.8	59.0	49.1	41.3	33.4	25.5
62.5°	138.6	125.8	113.0	100.2	88.4	76.6	65.8	56.0	46.2	37.3	28.5
60°	155.3	141.5	126.8	113.0	99.3	86.5	73.7	61.9	51.1	41.3	31.4
57.5°	172.0	156.2	141.5	125.8	110.1	95.3	81.6	67.8	56.0	44.2	34.4
55°	186.7	172.0	155.3	138.6	121.9	104.2	89.4	74.7	60.9	48.2	37.3
52.5°	202.4	185.7	169.0	150.3	133.6	114.0	97.3	80.6	65.8	52.1	40.3
50°	217.2	199.5	180.8	163.1	143.5	123.8	105.1	87.5	70.8	56.0	42.3
47.5°	230.9	212.3	193.6	173.9	154.3	133.6	113.0	93.4	75.7	59.9	45.2
45°	242.7	226.0	205.4	184.7	165.1	142.5	120.9	99.3	80.6	63.9	47.2
42.5°	253.5	236.8	217.2	196.5	173.9	151.3	128.7	106.1	85.5	66.8	50.1
40°	263.4	246.7	228.0	205.4	182.8	160.2	135.6	112.0	90.4	70.8	52.1
37.5°	273.2	255.5	236.8	215.2	191.6	168.0	143.5	118.9	95.3	73.7	55.0
35°	281.0	264.3	244.7	224.1	199.5	175.9	150.3	124.8	99.3	76.6	58.0
32.5°	287.9	272.2	253.5	231.9	207.3	181.8	156.2	129.7	103.2	80.6	59.9
30°	294.8	279.1	259.4	238.8	215.2	188.7	162.1	134.6	108.1	83.5	61.9
27.5°	301.7	285.0	266.3	244.7	222.1	194.6	168.0	139.5	112.0	86.5	63.9
25°	307.6	289.9	272.2	250.6	228.0	200.5	173.0	144.5	116.0	89.4	65.8
22.5°	312.5	294.8	277.1	255.5	232.9	205.4	176.9	148.4	118.9	91.4	67.8
20°	317.4	299.7	281.0	260.4	236.8	210.3	180.8	152.3	121.9	93.4	68.8
17.5°	322.3	303.6	285.0	264.3	240.8	214.2	184.7	155.3	124.8	95.3	70.8
15°	326.2	306.6	287.9	267.3	244.7	218.2	187.7	158.2	126.8	97.3	71.7
12.5°	329.2	309.5	290.9	270.2	246.7	221.1	190.6	160.2	128.7	99.3	72.7
10°	332.1	312.5	292.8	273.2	249.6	223.1	192.6	162.1	130.7	100.2	73.7
7.5°	334.1	314.5	294.8	275.1	251.6	225.0	194.6	164.1	131.7	101.2	74.7
5°	336.1	315.4	295.8	276.1	252.5	228.0	196.5	166.1	133.6	102.2	74.7
2.5°	337.1	316.4	296.8	277.1	253.5	228.0	196.5	166.1	133.6	102.2	74.7
0°	337.1	316.4	296.8	277.1	253.5	228.0	196.5	166.1	133.6	102.2	74.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	0.0
85°	2.9	2.0	1.0	0.0
82.5°	4.9	2.9	2.0	0.0
80°	6.9	4.9	2.0	0.0
77.5°	7.9	5.9	2.9	0.0
75°	9.8	6.9	2.9	0.0
72.5°	11.8	7.9	3.9	0.0
70°	12.8	8.8	3.9	0.0
67.5°	15.7	9.8	4.9	0.0
65°	17.7	10.8	4.9	0.0
62.5°	19.7	11.8	5.9	0.0
60°	21.6	12.8	5.9	0.0
57.5°	24.6	13.8	6.9	0.0
55°	26.5	15.7	6.9	0.0
52.5°	28.5	16.7	7.9	0.0
50°	30.5	17.7	7.9	0.0
47.5°	31.4	19.7	8.8	0.0
45°	33.4	20.6	8.8	0.0
42.5°	35.4	21.6	9.8	0.0
40°	37.3	22.6	9.8	0.0
37.5°	39.3	23.6	9.8	0.0
35°	40.3	24.6	10.8	0.0
32.5°	42.3	25.5	10.8	0.0
30°	43.2	26.5	10.8	0.0
27.5°	44.2	27.5	11.8	0.0
25°	45.2	27.5	11.8	0.0
22.5°	46.2	28.5	11.8	0.0
20°	47.2	29.5	11.8	0.0
17.5°	48.2	29.5	11.8	0.0
15°	49.1	30.5	12.8	0.0
12.5°	50.1	30.5	12.8	0.0
10°	50.1	31.4	12.8	0.0
7.5°	51.1	31.4	12.8	0.0
5°	51.1	31.4	12.8	0.0
2.5°	51.1	31.4	12.8	0.0
0°	51.1	31.4	12.8	0.0

(END OF REPORT)