

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: P640066

Luminaire Tested: **IFLD-S-SA3A-AMB-U-LAM**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640066
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-AMB-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

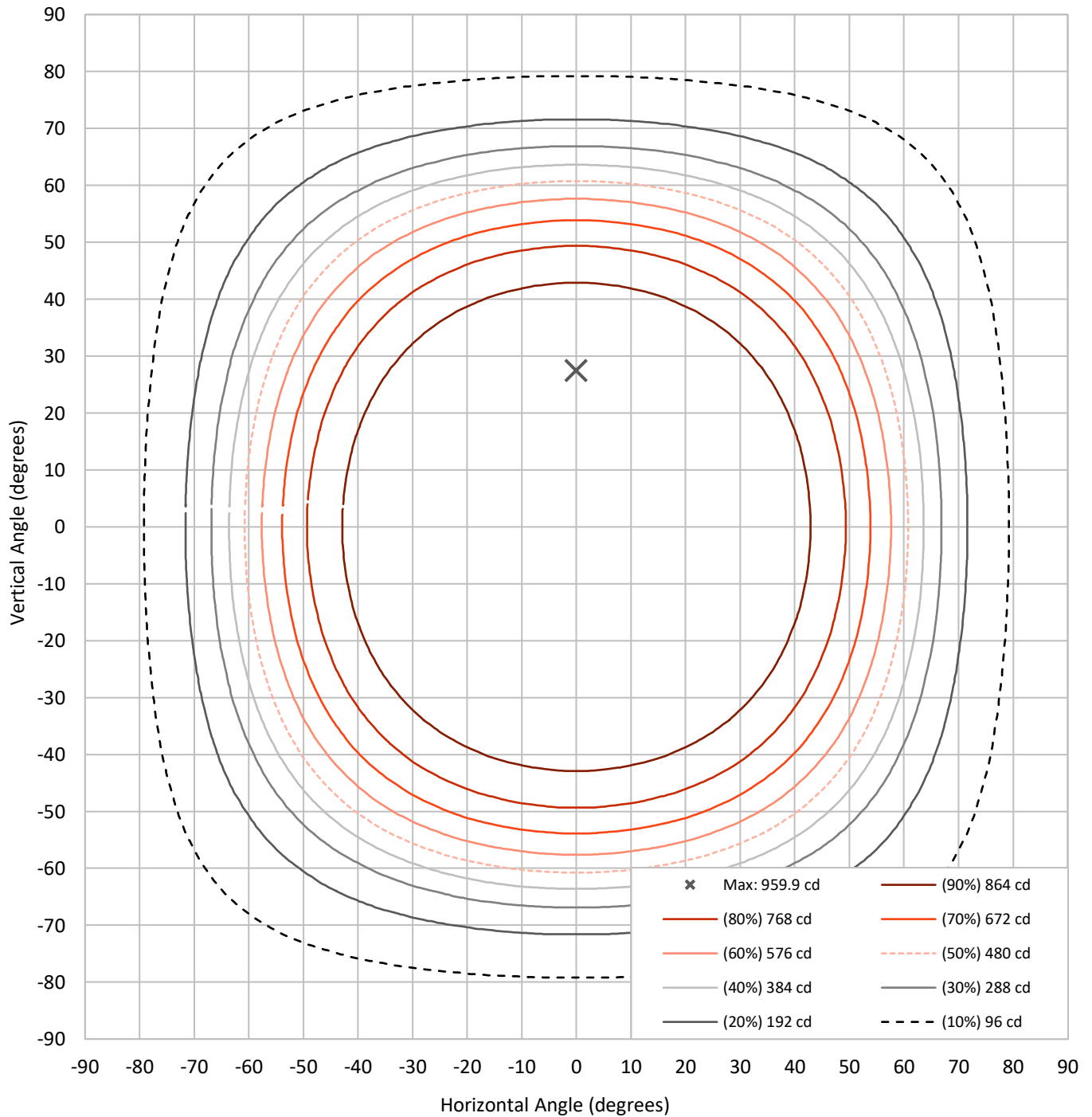
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	3132.6 lumens	Max Intensity:	959.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 27.5°V
Efficacy:	33.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	113.2°H x 121.5°V	Field Angle (10%):	155.5°H x 158.4°V
Beam Lumens:	1966.2 lumens	Field Lumens:	2312.8 lumens
Beam Efficiency:	62.8%	Field Efficiency:	73.8%
Input Watts (W):	94.8		
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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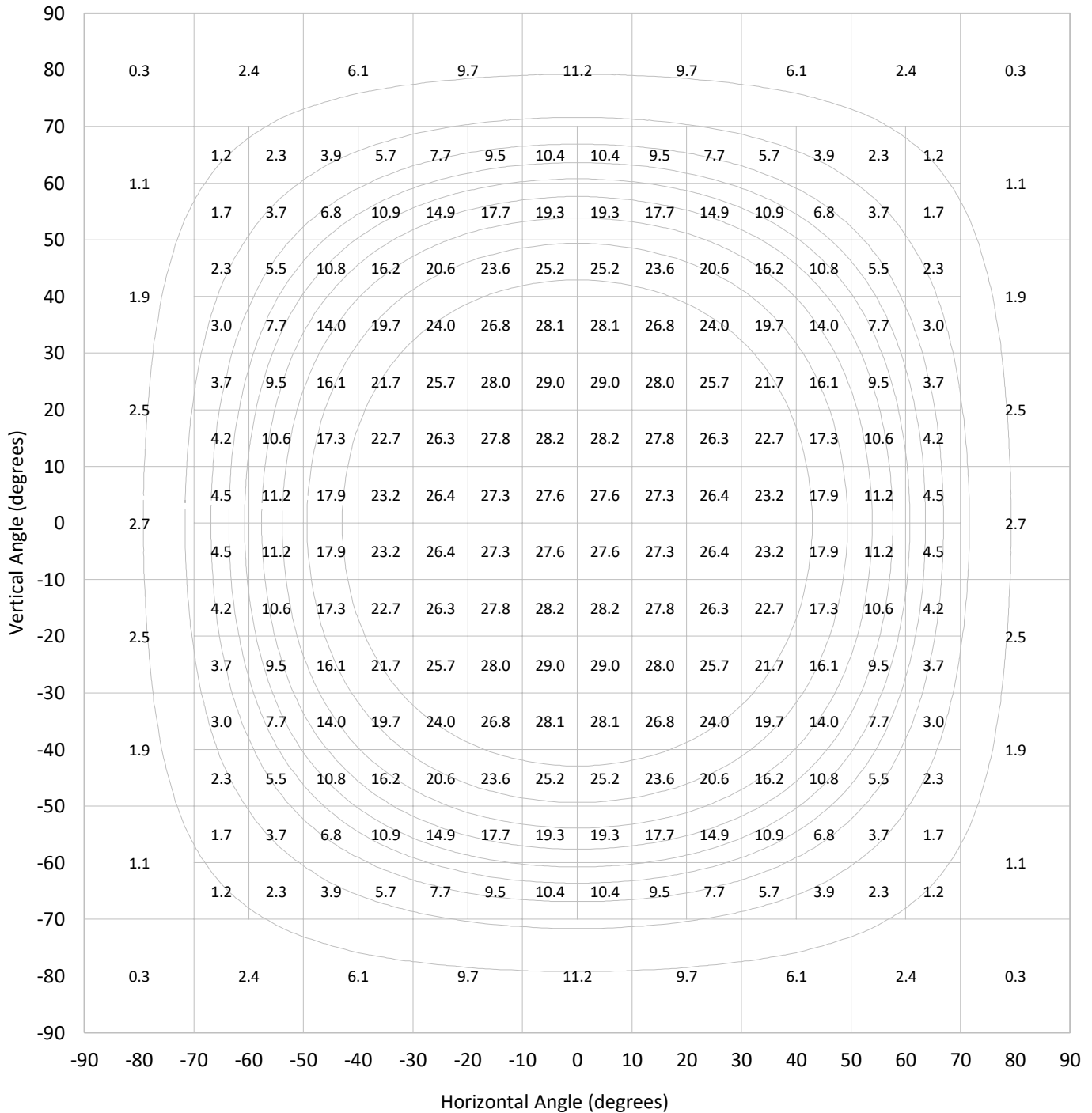
Iso-Candela Plot





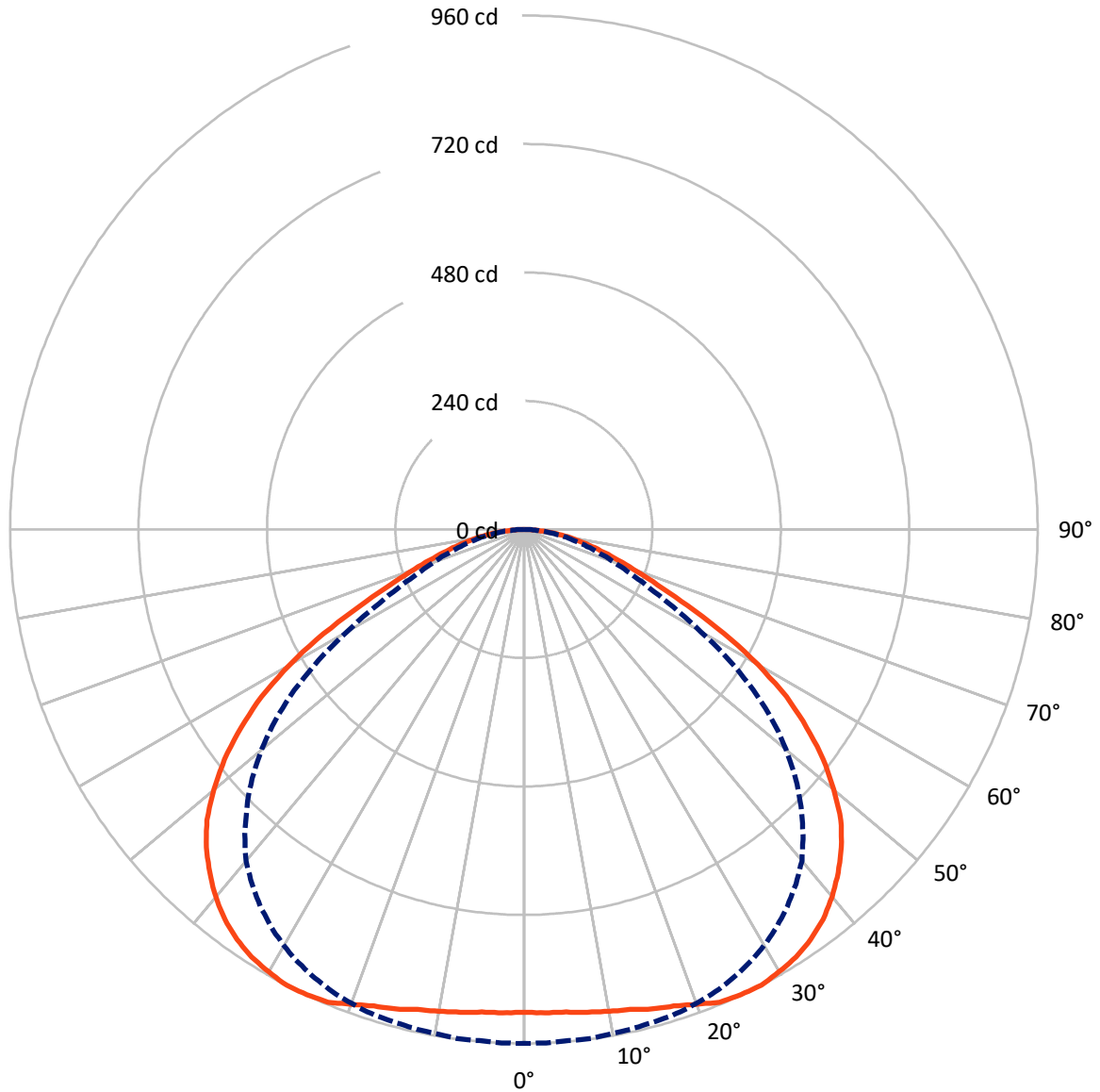
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Lumen Table



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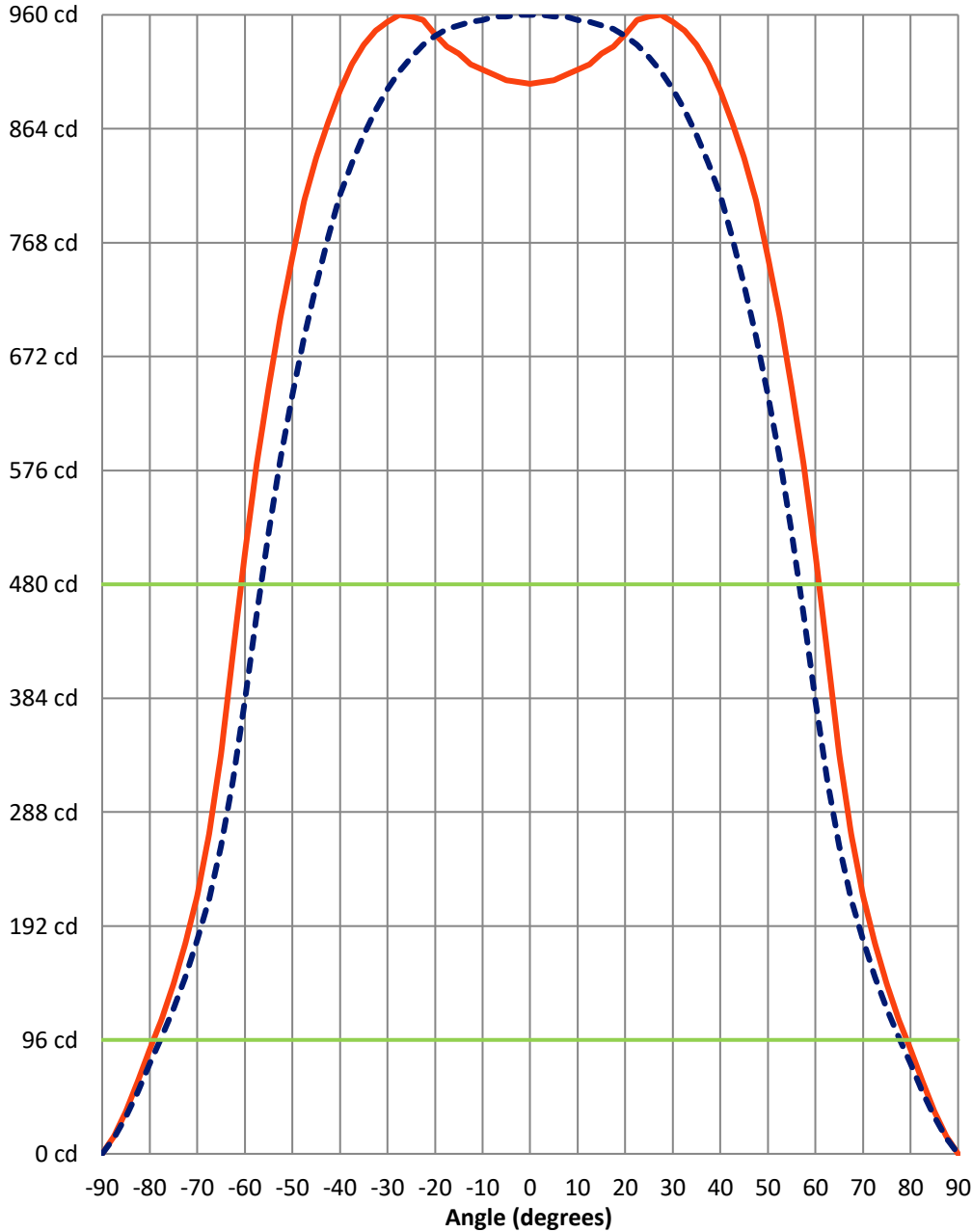
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 27.5-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 113.2°
 V Angle: 121.5°
 Lumens: 1966.2
 Efficiency: 62.8%

Field:
 H Angle: 155.5°
 V Angle: 158.4°
 Lumens: 2312.8
 Efficiency: 73.8%

Spill:
 Lumens: 819.8
 Efficiency: 26.2%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 27.5-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°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	13.4	13.4	13.4
85°	35.8	35.8	35.8	35.8	35.8	34.3	34.3	34.3	32.8	32.8	31.3
82.5°	61.1	61.1	61.1	61.1	59.6	59.6	58.1	58.1	56.6	55.2	53.7
80°	87.9	87.9	87.9	87.9	86.5	85.0	85.0	83.5	82.0	79.0	77.5
77.5°	113.3	113.3	113.3	111.8	111.8	110.3	108.8	107.3	105.8	102.9	101.4
75°	143.1	143.1	143.1	141.6	140.1	138.6	137.1	134.2	132.7	129.7	126.7
72.5°	177.4	177.4	177.4	175.9	172.9	171.4	168.4	165.5	162.5	158.0	153.5
70°	217.6	217.6	217.6	214.6	213.2	210.2	205.7	202.7	196.8	192.3	186.3
67.5°	269.8	269.8	269.8	265.3	262.3	257.9	253.4	247.4	240.0	232.5	223.6
65°	336.9	336.9	333.9	330.9	326.4	320.5	313.0	304.1	293.6	283.2	269.8
62.5°	421.8	421.8	417.4	412.9	406.9	398.0	387.6	375.6	360.7	345.8	329.4
60°	505.3	505.3	500.8	496.4	488.9	480.0	468.0	454.6	439.7	421.8	402.5
57.5°	581.3	581.3	576.9	572.4	564.9	554.5	544.1	530.7	515.7	497.9	477.0
55°	645.4	645.4	641.0	636.5	630.5	621.6	611.1	597.7	584.3	566.4	545.6
52.5°	705.1	705.1	700.6	696.1	688.7	679.7	669.3	657.4	642.4	626.1	606.7
50°	755.7	755.7	752.8	746.8	740.8	733.4	722.9	711.0	697.6	679.7	660.3
47.5°	803.4	803.4	799.0	794.5	788.5	779.6	769.1	757.2	743.8	727.4	709.5
45°	839.2	839.2	836.2	831.8	827.3	819.8	812.4	803.4	787.0	770.6	752.8
42.5°	869.0	869.0	866.0	863.1	857.1	851.1	843.7	834.7	822.8	809.4	793.0
40°	895.8	895.8	892.9	889.9	885.4	879.5	872.0	861.6	851.1	839.2	824.3
37.5°	918.2	918.2	915.2	912.2	907.8	903.3	895.8	886.9	876.5	864.5	851.1
35°	934.6	934.6	933.1	930.1	927.2	922.7	916.7	907.8	898.8	886.9	873.5
32.5°	946.5	946.5	945.0	943.5	940.6	936.1	931.6	925.7	918.2	906.3	894.4
30°	954.0	954.0	952.5	951.0	949.5	946.5	943.5	937.6	931.6	922.7	910.8
27.5°	959.9	959.9	958.5	958.5	955.5	954.0	951.0	948.0	942.1	934.6	924.2
25°	958.5	958.5	958.5	958.5	959.9	959.9	957.0	954.0	949.5	943.5	936.1
22.5°	955.5	955.5	955.5	957.0	958.5	958.5	959.9	958.5	954.0	949.5	943.5
20°	943.5	943.5	946.5	949.5	954.0	957.0	958.5	959.9	958.5	954.0	949.5
17.5°	933.1	933.1	936.1	939.1	943.5	949.5	955.5	958.5	959.9	958.5	954.0
15°	927.2	927.2	928.6	931.6	934.6	940.6	948.0	955.5	958.5	959.9	957.0
12.5°	918.2	919.7	921.2	925.7	930.1	933.1	940.6	949.5	957.0	958.5	959.9
10°	913.7	913.7	915.2	918.2	924.2	930.1	934.6	943.5	954.0	958.5	959.9
7.5°	909.3	909.3	912.2	915.2	918.2	925.7	931.6	939.1	949.5	957.0	958.5
5°	904.8	906.3	907.8	912.2	915.2	921.2	928.6	936.1	946.5	955.5	958.5
2.5°	903.3	903.3	906.3	909.3	913.7	919.7	927.2	933.1	943.5	955.5	958.5
0°	901.8	903.3	904.8	909.3	913.7	918.2	927.2	933.1	943.5	955.5	958.5



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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°	13.4	13.4	11.9	11.9	11.9	11.9	10.4	10.4	10.4	8.9	8.9
85°	31.3	29.8	29.8	28.3	26.8	25.3	25.3	23.8	22.4	20.9	19.4
82.5°	52.2	50.7	49.2	47.7	44.7	43.2	41.7	38.8	35.8	34.3	32.8
80°	76.0	73.0	71.5	68.6	65.6	62.6	59.6	56.6	53.7	50.7	46.2
77.5°	98.4	95.4	93.9	89.4	86.5	83.5	79.0	74.5	71.5	67.1	62.6
75°	122.2	119.2	114.8	110.3	107.3	102.9	98.4	93.9	87.9	83.5	77.5
72.5°	149.1	144.6	140.1	134.2	128.2	123.7	116.3	110.3	105.8	99.9	93.9
70°	180.4	174.4	166.9	161.0	153.5	146.1	138.6	131.2	123.7	116.3	108.8
67.5°	214.6	207.2	198.2	189.3	180.4	171.4	162.5	152.0	143.1	134.2	125.2
65°	259.4	248.9	235.5	223.6	211.7	199.7	187.8	175.9	165.5	153.5	143.1
62.5°	314.5	298.1	281.7	263.8	248.9	232.5	217.6	202.7	187.8	174.4	161.0
60°	381.6	359.2	336.9	314.5	293.6	269.8	251.9	232.5	213.2	196.8	180.4
57.5°	454.6	429.3	402.5	374.1	344.3	317.5	292.2	266.8	244.5	222.1	202.7
55°	523.2	497.9	469.5	439.7	406.9	372.6	336.9	308.6	277.3	251.9	226.6
52.5°	585.8	560.5	532.1	505.3	468.0	432.3	393.5	353.3	317.5	284.7	254.9
50°	639.5	615.6	590.3	559.0	524.7	488.9	448.7	405.4	362.2	320.5	284.7
47.5°	688.7	664.8	638.0	609.7	581.3	541.1	500.8	456.1	409.9	362.2	317.5
45°	731.9	711.0	684.2	654.4	623.1	588.8	548.5	505.3	456.1	405.4	353.3
42.5°	772.1	749.8	724.4	696.1	664.8	629.0	591.8	548.5	500.8	448.7	393.5
40°	807.9	785.5	760.2	733.4	705.1	667.8	629.0	588.8	541.1	488.9	432.3
37.5°	834.7	816.8	794.5	766.2	734.9	705.1	664.8	623.1	581.3	524.7	468.0
35°	858.6	840.7	821.3	796.0	766.2	733.4	696.1	654.4	609.7	559.0	505.3
32.5°	879.5	861.6	843.7	821.3	794.5	760.2	724.4	684.2	638.0	590.3	532.1
30°	897.3	880.9	861.6	840.7	816.8	785.5	749.8	711.0	664.8	615.6	560.5
27.5°	912.2	897.3	879.5	858.6	834.7	807.9	772.1	731.9	688.7	639.5	585.8
25°	924.2	910.8	894.4	873.5	851.1	824.3	793.0	752.8	709.5	660.3	606.7
22.5°	934.6	922.7	906.3	886.9	864.5	839.2	809.4	770.6	727.4	679.7	626.1
20°	942.1	931.6	918.2	898.8	876.5	851.1	822.8	787.0	743.8	697.6	642.4
17.5°	948.0	937.6	925.7	907.8	886.9	861.6	834.7	803.4	757.2	711.0	657.4
15°	951.0	943.5	931.6	916.7	895.8	872.0	843.7	812.4	769.1	722.9	669.3
12.5°	954.0	946.5	936.1	922.7	903.3	879.5	851.1	819.8	779.6	733.4	679.7
10°	955.5	949.5	940.6	927.2	907.8	885.4	857.1	827.3	788.5	740.8	688.7
7.5°	958.5	951.0	943.5	930.1	912.2	889.9	863.1	831.8	794.5	746.8	696.1
5°	958.5	952.5	945.0	933.1	915.2	892.9	866.0	836.2	799.0	752.8	700.6
2.5°	959.9	954.0	946.5	934.6	918.2	895.8	869.0	839.2	803.4	755.7	705.1
0°	959.9	954.0	946.5	934.6	918.2	895.8	869.0	839.2	803.4	755.7	705.1



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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°	8.9	7.5	7.5	7.5	6.0	6.0	4.5	4.5	4.5	3.0	3.0
85°	17.9	16.4	14.9	13.4	11.9	11.9	10.4	8.9	7.5	6.0	4.5
82.5°	29.8	28.3	25.3	22.4	20.9	17.9	14.9	13.4	11.9	8.9	7.5
80°	43.2	38.8	35.8	32.8	29.8	25.3	22.4	19.4	14.9	13.4	10.4
77.5°	56.6	52.2	47.7	43.2	38.8	34.3	29.8	25.3	20.9	16.4	13.4
75°	71.5	67.1	61.1	55.2	49.2	43.2	37.3	31.3	26.8	20.9	14.9
72.5°	87.9	80.5	73.0	65.6	59.6	52.2	44.7	37.3	31.3	25.3	19.4
70°	101.4	93.9	86.5	77.5	70.1	61.1	53.7	44.7	37.3	29.8	22.4
67.5°	114.8	107.3	98.4	89.4	80.5	71.5	61.1	52.2	43.2	34.3	25.3
65°	131.2	120.7	110.3	101.4	90.9	80.5	70.1	59.6	49.2	38.8	29.8
62.5°	147.6	135.6	123.7	111.8	101.4	89.4	77.5	65.6	55.2	43.2	32.8
60°	165.5	150.6	137.1	123.7	110.3	98.4	86.5	73.0	61.1	47.7	35.8
57.5°	184.8	166.9	150.6	135.6	120.7	107.3	93.9	80.5	67.1	52.2	38.8
55°	204.2	184.8	165.5	147.6	131.2	114.8	101.4	87.9	71.5	56.6	43.2
52.5°	226.6	202.7	180.4	161.0	143.1	125.2	108.8	93.9	77.5	62.6	46.2
50°	251.9	222.1	196.8	174.4	153.5	134.2	116.3	99.9	83.5	67.1	50.7
47.5°	277.3	244.5	213.2	187.8	165.5	143.1	123.7	105.8	87.9	71.5	53.7
45°	308.6	266.8	232.5	202.7	175.9	152.0	131.2	110.3	93.9	74.5	56.6
42.5°	336.9	292.2	251.9	217.6	187.8	162.5	138.6	116.3	98.4	79.0	59.6
40°	372.6	317.5	269.8	232.5	199.7	171.4	146.1	123.7	102.9	83.5	62.6
37.5°	406.9	344.3	293.6	248.9	211.7	180.4	153.5	128.2	107.3	86.5	65.6
35°	439.7	374.1	314.5	263.8	223.6	189.3	161.0	134.2	110.3	89.4	68.6
32.5°	469.5	402.5	336.9	281.7	235.5	198.2	166.9	140.1	114.8	93.9	71.5
30°	497.9	429.3	359.2	298.1	248.9	207.2	174.4	144.6	119.2	95.4	73.0
27.5°	523.2	454.6	381.6	314.5	259.4	214.6	180.4	149.1	122.2	98.4	76.0
25°	545.6	477.0	402.5	329.4	269.8	223.6	186.3	153.5	126.7	101.4	77.5
22.5°	566.4	497.9	421.8	345.8	283.2	232.5	192.3	158.0	129.7	102.9	79.0
20°	584.3	515.7	439.7	360.7	293.6	240.0	196.8	162.5	132.7	105.8	82.0
17.5°	597.7	530.7	454.6	375.6	304.1	247.4	202.7	165.5	134.2	107.3	83.5
15°	611.1	544.1	468.0	387.6	313.0	253.4	205.7	168.4	137.1	108.8	85.0
12.5°	621.6	554.5	480.0	398.0	320.5	257.9	210.2	171.4	138.6	110.3	85.0
10°	630.5	564.9	488.9	406.9	326.4	262.3	213.2	172.9	140.1	111.8	86.5
7.5°	636.5	572.4	496.4	412.9	330.9	265.3	214.6	175.9	141.6	111.8	87.9
5°	641.0	576.9	500.8	417.4	333.9	269.8	217.6	177.4	143.1	113.3	87.9
2.5°	645.4	581.3	505.3	421.8	336.9	269.8	217.6	177.4	143.1	113.3	87.9
0°	645.4	581.3	505.3	421.8	336.9	269.8	217.6	177.4	143.1	113.3	87.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	0.0	0.0
85°	4.5	3.0	1.5	0.0
82.5°	6.0	4.5	1.5	0.0
80°	7.5	4.5	3.0	0.0
77.5°	8.9	6.0	3.0	0.0
75°	11.9	7.5	4.5	0.0
72.5°	13.4	8.9	4.5	0.0
70°	14.9	10.4	4.5	0.0
67.5°	17.9	11.9	6.0	0.0
65°	20.9	11.9	6.0	0.0
62.5°	22.4	13.4	7.5	0.0
60°	25.3	14.9	7.5	0.0
57.5°	28.3	16.4	7.5	0.0
55°	29.8	17.9	8.9	0.0
52.5°	32.8	19.4	8.9	0.0
50°	34.3	20.9	8.9	0.0
47.5°	35.8	22.4	10.4	0.0
45°	38.8	23.8	10.4	0.0
42.5°	41.7	25.3	10.4	0.0
40°	43.2	25.3	11.9	0.0
37.5°	44.7	26.8	11.9	0.0
35°	47.7	28.3	11.9	0.0
32.5°	49.2	29.8	11.9	0.0
30°	50.7	29.8	13.4	0.0
27.5°	52.2	31.3	13.4	0.0
25°	53.7	31.3	13.4	0.0
22.5°	55.2	32.8	13.4	0.0
20°	56.6	32.8	13.4	0.0
17.5°	58.1	34.3	14.9	0.0
15°	58.1	34.3	14.9	0.0
12.5°	59.6	34.3	14.9	0.0
10°	59.6	35.8	14.9	0.0
7.5°	61.1	35.8	14.9	0.0
5°	61.1	35.8	14.9	0.0
2.5°	61.1	35.8	14.9	0.0
0°	61.1	35.8	14.9	0.0

(END OF REPORT)