

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: P640050

Luminaire Tested: **IFLD-M-SA4A-AMB-U-55**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640050
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-AMB-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

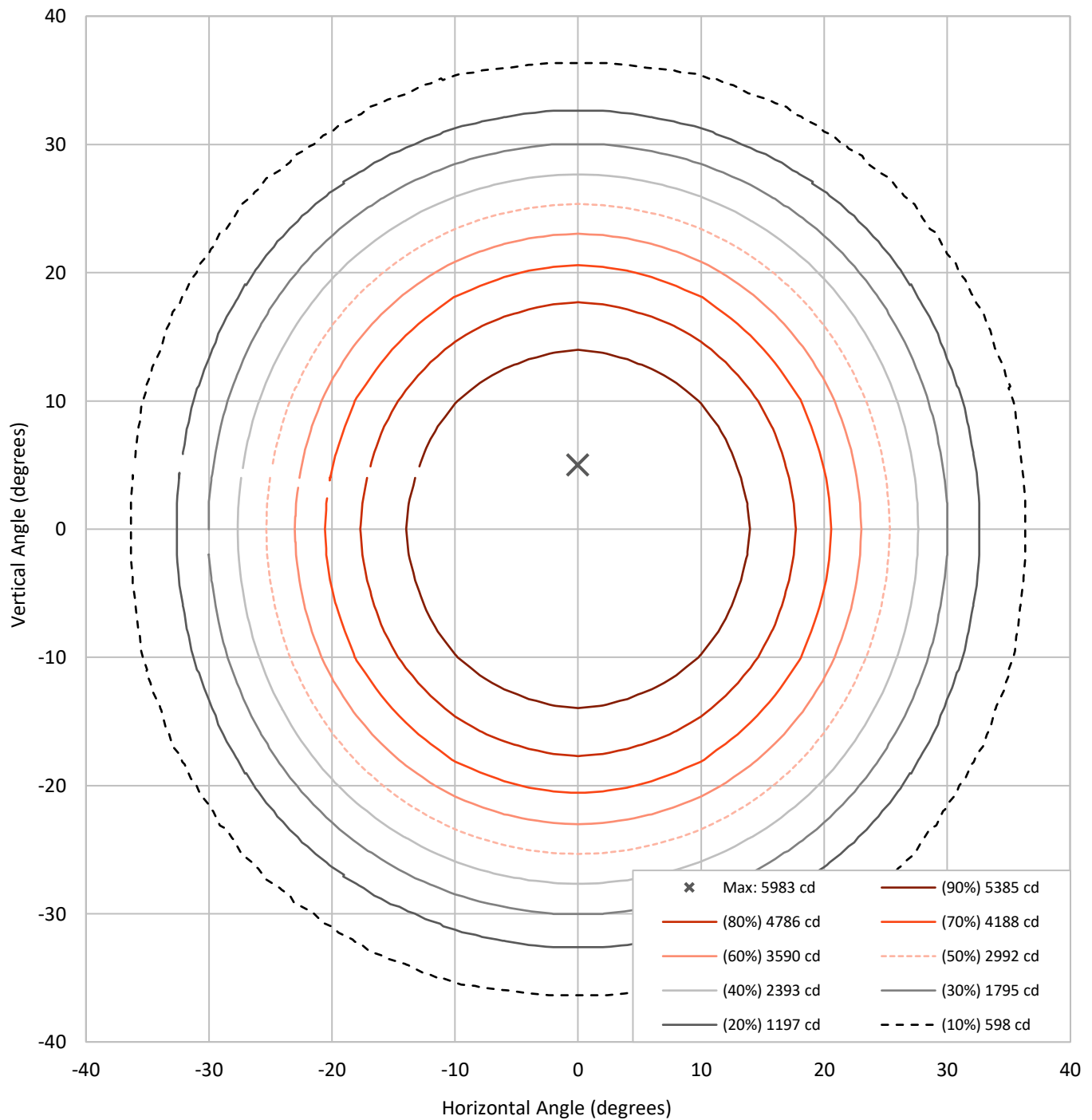
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	4459.4 lumens	Max Intensity:	5983 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	34.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	49.8°H x 50.7°V	Field Angle (10%):	72.2°H x 72.6°V
Beam Lumens:	2147.8 lumens	Field Lumens:	2856.3 lumens
Beam Efficiency:	48.2%	Field Efficiency:	64.1%
Input Watts (W):	128.6		
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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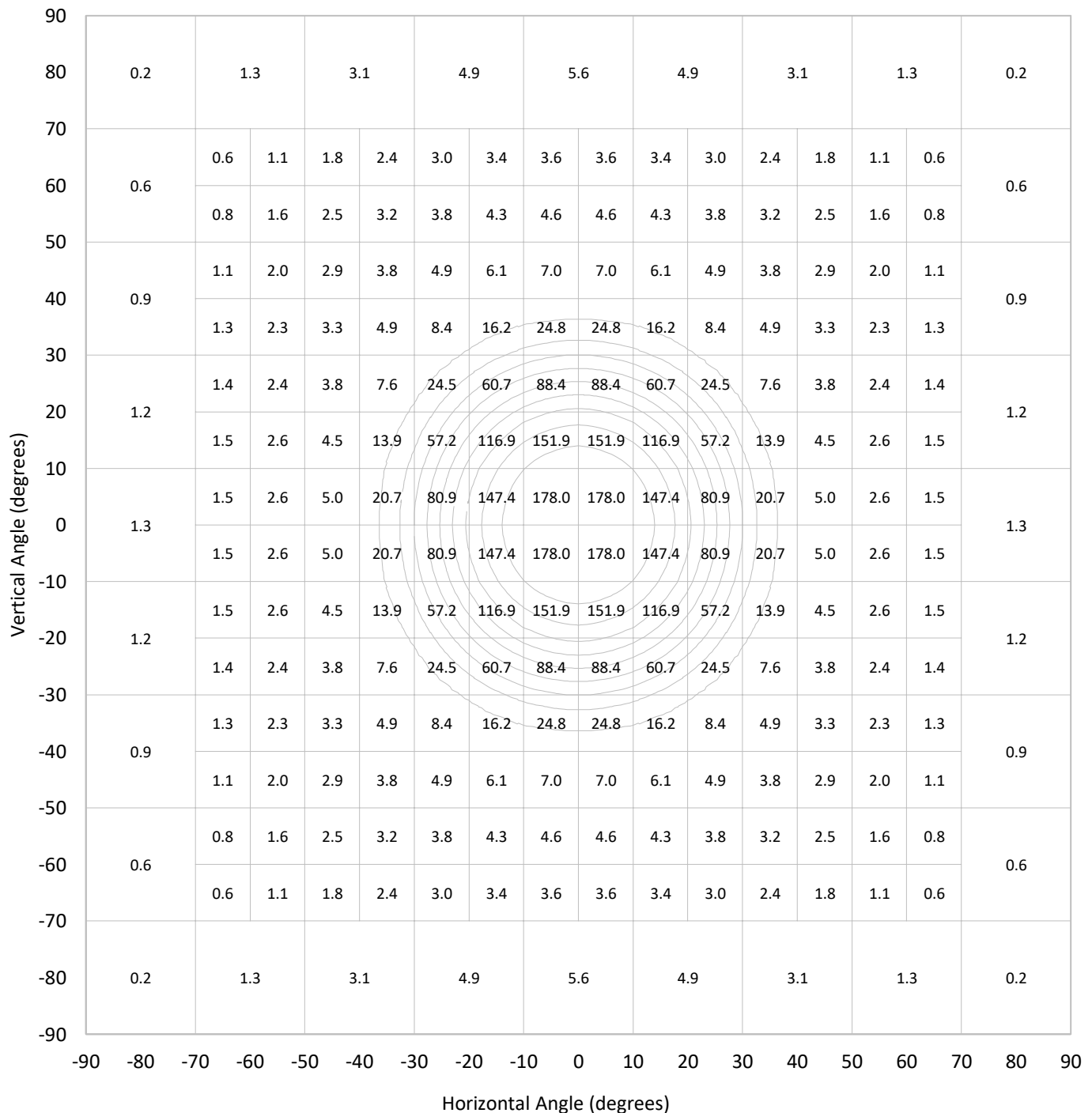
Iso-Candela Plot



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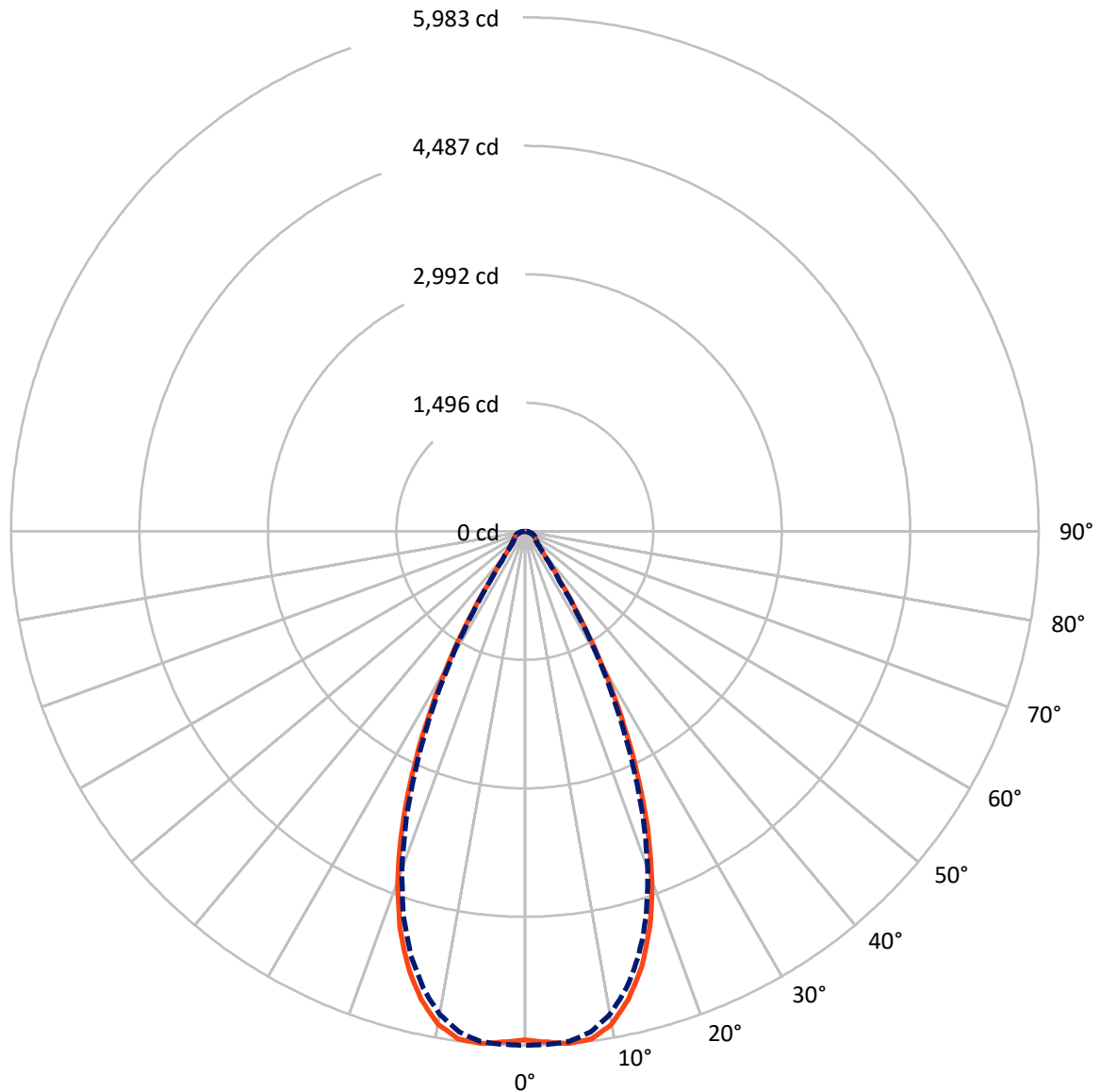
Lumen Table



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Luminous Intensity Polar Plot

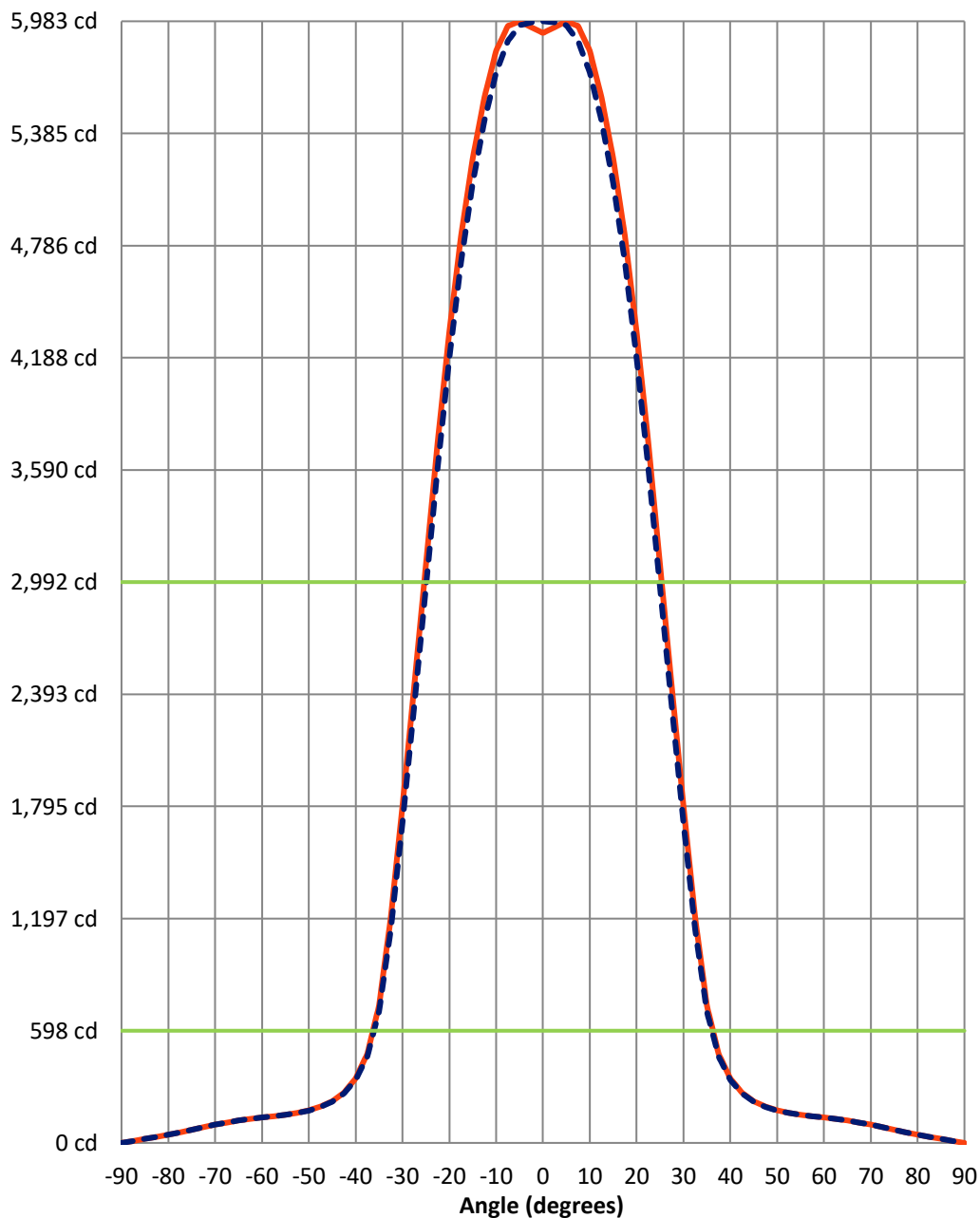


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.8°
V Angle: 50.7°
Lumens: 2147.8
Efficiency: 48.2%

Field:

H Angle: 72.2°
V Angle: 72.6°
Lumens: 2856.3
Efficiency: 64.1%

Spill:

Lumens: 1603.2
Efficiency: 35.9%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 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°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
85°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	20.0	20.0	20.0	20.0
82.5°	32.0	32.0	32.0	32.0	32.0	32.0	30.0	30.0	30.0	30.0	30.0
80°	44.0	44.0	44.0	44.0	44.0	42.0	42.0	42.0	42.0	40.0	40.0
77.5°	56.0	56.0	56.0	56.0	56.0	54.0	54.0	54.0	52.0	52.0	50.0
75°	70.0	70.0	70.0	70.0	68.0	68.0	68.0	66.0	64.0	64.0	62.0
72.5°	84.0	84.0	84.0	84.0	82.0	82.0	80.0	80.0	78.0	76.0	74.0
70°	98.0	98.0	98.0	98.0	96.0	96.0	94.0	92.0	90.0	90.0	88.0
67.5°	108.0	108.0	108.0	108.0	106.0	106.0	104.0	104.0	102.0	100.0	100.0
65°	120.0	120.0	120.0	118.0	118.0	116.0	116.0	114.0	112.0	110.0	108.0
62.5°	128.0	128.0	128.0	128.0	126.0	126.0	124.0	124.0	122.0	120.0	118.0
60°	136.0	136.0	136.0	136.0	134.0	134.0	132.0	132.0	130.0	128.0	126.0
57.5°	142.0	142.0	142.0	142.0	140.0	140.0	140.0	138.0	136.0	136.0	134.0
55°	150.0	150.0	150.0	148.0	148.0	146.0	146.0	144.0	142.0	140.0	140.0
52.5°	160.0	160.0	160.0	158.0	158.0	156.0	154.0	152.0	150.0	148.0	146.0
50°	174.0	174.0	172.0	172.0	170.0	168.0	164.0	162.0	158.0	156.0	152.0
47.5°	194.0	194.0	192.0	190.0	188.0	184.0	180.0	174.0	170.0	166.0	162.0
45°	222.0	222.0	220.0	216.0	212.0	206.0	200.0	194.0	188.0	180.0	174.0
42.5°	268.0	268.0	264.0	258.0	250.0	242.0	230.0	218.0	210.0	198.0	190.0
40°	344.1	344.1	336.1	326.1	312.1	296.1	274.0	258.0	242.0	222.0	210.0
37.5°	476.1	476.1	462.1	442.1	416.1	384.1	346.1	318.1	290.1	262.0	240.0
35°	734.1	734.1	702.1	662.1	608.1	538.1	466.1	416.1	362.1	320.1	282.0
32.5°	1202.2	1202.2	1138.2	1060.2	950.2	814.1	688.1	584.1	476.1	406.1	340.1
30°	1798.3	1798.3	1708.3	1598.3	1446.3	1256.2	1066.2	862.1	680.1	542.1	434.1
27.5°	2434.4	2408.4	2328.4	2198.4	2020.4	1798.3	1550.3	1268.2	1008.2	740.1	580.1
25°	3082.5	3052.5	2962.5	2814.5	2614.5	2366.4	2076.4	1752.3	1414.2	1082.2	776.1
22.5°	3734.6	3700.6	3598.6	3432.6	3208.6	2932.5	2610.5	2250.4	1860.3	1464.3	1082.2
20°	4324.8	4288.7	4184.7	4016.7	3788.7	3486.6	3130.5	2736.5	2310.4	1860.3	1414.2
17.5°	4836.8	4800.8	4696.8	4530.8	4324.8	3996.7	3632.6	3198.6	2736.5	2250.4	1752.3
15°	5250.9	5216.9	5118.9	4964.9	4742.8	4440.8	4066.7	3632.6	3130.5	2610.5	2076.4
12.5°	5577.0	5545.0	5452.9	5310.9	5092.9	4814.8	4440.8	3996.7	3486.6	2932.5	2366.4
10°	5825.0	5795.0	5709.0	5579.0	5366.9	5092.9	4742.8	4324.8	3788.7	3208.6	2614.5
7.5°	5957.0	5935.0	5877.0	5767.0	5579.0	5310.9	4964.9	4530.8	4016.7	3432.6	2814.5
5°	5983.0	5977.0	5961.0	5877.0	5709.0	5452.9	5118.9	4696.8	4184.7	3598.6	2962.5
2.5°	5951.0	5965.0	5977.0	5935.0	5795.0	5545.0	5216.9	4800.8	4288.7	3700.6	3052.5
0°	5921.0	5951.0	5983.0	5957.0	5825.0	5577.0	5250.9	4836.8	4324.8	3734.6	3082.5

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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°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	6.0	6.0	6.0
85°	20.0	18.0	18.0	18.0	18.0	16.0	16.0	14.0	14.0	14.0	12.0
82.5°	28.0	28.0	28.0	26.0	26.0	24.0	24.0	24.0	22.0	22.0	20.0
80°	38.0	38.0	36.0	36.0	34.0	32.0	32.0	30.0	28.0	28.0	26.0
77.5°	50.0	48.0	46.0	46.0	44.0	42.0	40.0	38.0	36.0	34.0	32.0
75°	60.0	58.0	56.0	54.0	52.0	50.0	48.0	46.0	44.0	42.0	40.0
72.5°	72.0	70.0	68.0	66.0	64.0	60.0	58.0	54.0	52.0	50.0	46.0
70°	84.0	82.0	80.0	78.0	74.0	72.0	68.0	64.0	60.0	58.0	54.0
67.5°	98.0	94.0	92.0	88.0	84.0	82.0	78.0	74.0	70.0	66.0	62.0
65°	106.0	104.0	102.0	100.0	96.0	92.0	88.0	84.0	78.0	74.0	70.0
62.5°	116.0	114.0	110.0	106.0	104.0	100.0	98.0	92.0	88.0	82.0	78.0
60°	124.0	122.0	120.0	116.0	112.0	108.0	104.0	100.0	96.0	90.0	86.0
57.5°	132.0	128.0	126.0	124.0	120.0	116.0	112.0	108.0	104.0	98.0	92.0
55°	138.0	136.0	132.0	130.0	126.0	124.0	120.0	114.0	110.0	104.0	100.0
52.5°	142.0	140.0	138.0	136.0	132.0	128.0	126.0	122.0	116.0	110.0	106.0
50°	150.0	146.0	144.0	140.0	138.0	134.0	130.0	126.0	122.0	118.0	110.0
47.5°	158.0	154.0	150.0	146.0	142.0	138.0	136.0	132.0	126.0	122.0	116.0
45°	168.0	162.0	156.0	152.0	148.0	142.0	140.0	136.0	132.0	126.0	122.0
42.5°	180.0	172.0	166.0	158.0	154.0	148.0	144.0	140.0	136.0	130.0	126.0
40°	198.0	186.0	176.0	168.0	160.0	154.0	148.0	142.0	138.0	134.0	128.0
37.5°	218.0	204.0	190.0	178.0	168.0	160.0	154.0	148.0	142.0	138.0	132.0
35°	252.0	226.0	208.0	192.0	178.0	168.0	158.0	152.0	146.0	140.0	136.0
32.5°	296.1	258.0	228.0	208.0	190.0	176.0	166.0	156.0	150.0	144.0	138.0
30°	354.1	302.1	258.0	226.0	204.0	186.0	172.0	162.0	154.0	146.0	140.0
27.5°	444.1	354.1	296.1	252.0	218.0	198.0	180.0	168.0	158.0	150.0	142.0
25°	580.1	434.1	340.1	282.0	240.0	210.0	190.0	174.0	162.0	152.0	146.0
22.5°	740.1	542.1	406.1	320.1	262.0	222.0	198.0	180.0	166.0	156.0	148.0
20°	1008.2	680.1	476.1	362.1	290.1	242.0	210.0	188.0	170.0	158.0	150.0
17.5°	1268.2	862.1	584.1	416.1	318.1	258.0	218.0	194.0	174.0	162.0	152.0
15°	1550.3	1066.2	688.1	466.1	346.1	274.0	230.0	200.0	180.0	164.0	154.0
12.5°	1798.3	1256.2	814.1	538.1	384.1	296.1	242.0	206.0	184.0	168.0	156.0
10°	2020.4	1446.3	950.2	608.1	416.1	312.1	250.0	212.0	188.0	170.0	158.0
7.5°	2198.4	1598.3	1060.2	662.1	442.1	326.1	258.0	216.0	190.0	172.0	158.0
5°	2328.4	1708.3	1138.2	702.1	462.1	336.1	264.0	220.0	192.0	172.0	160.0
2.5°	2408.4	1798.3	1202.2	734.1	476.1	344.1	268.0	222.0	194.0	174.0	160.0
0°	2434.4	1798.3	1202.2	734.1	476.1	344.1	268.0	222.0	194.0	174.0	160.0

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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°	6.0	6.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0
85°	12.0	10.0	10.0	10.0	8.0	8.0	6.0	6.0	6.0	4.0	4.0
82.5°	18.0	18.0	16.0	14.0	14.0	12.0	10.0	8.0	8.0	6.0	6.0
80°	24.0	24.0	22.0	20.0	18.0	16.0	14.0	12.0	10.0	8.0	6.0
77.5°	30.0	28.0	26.0	24.0	22.0	20.0	18.0	16.0	14.0	10.0	8.0
75°	36.0	34.0	32.0	30.0	28.0	24.0	22.0	20.0	16.0	14.0	10.0
72.5°	44.0	40.0	38.0	34.0	32.0	28.0	26.0	22.0	20.0	16.0	12.0
70°	50.0	46.0	44.0	40.0	36.0	32.0	28.0	26.0	22.0	18.0	14.0
67.5°	58.0	52.0	48.0	44.0	40.0	36.0	32.0	28.0	24.0	20.0	16.0
65°	64.0	60.0	54.0	50.0	46.0	40.0	36.0	32.0	28.0	22.0	18.0
62.5°	72.0	66.0	60.0	56.0	50.0	44.0	40.0	34.0	30.0	24.0	20.0
60°	80.0	74.0	68.0	60.0	54.0	48.0	44.0	38.0	32.0	26.0	22.0
57.5°	86.0	80.0	74.0	66.0	60.0	52.0	46.0	40.0	34.0	28.0	24.0
55°	94.0	86.0	80.0	72.0	64.0	58.0	50.0	44.0	36.0	30.0	24.0
52.5°	100.0	92.0	86.0	78.0	70.0	62.0	54.0	46.0	40.0	32.0	26.0
50°	104.0	98.0	90.0	82.0	74.0	66.0	58.0	50.0	42.0	34.0	28.0
47.5°	110.0	104.0	96.0	88.0	78.0	70.0	60.0	52.0	44.0	36.0	28.0
45°	114.0	108.0	100.0	92.0	84.0	74.0	64.0	54.0	46.0	38.0	30.0
42.5°	120.0	112.0	104.0	98.0	88.0	78.0	68.0	58.0	48.0	40.0	32.0
40°	124.0	116.0	108.0	100.0	92.0	82.0	72.0	60.0	50.0	42.0	32.0
37.5°	126.0	120.0	112.0	104.0	96.0	84.0	74.0	64.0	52.0	44.0	34.0
35°	130.0	124.0	116.0	106.0	100.0	88.0	78.0	66.0	54.0	46.0	36.0
32.5°	132.0	126.0	120.0	110.0	102.0	92.0	80.0	68.0	56.0	46.0	36.0
30°	136.0	128.0	122.0	114.0	104.0	94.0	82.0	70.0	58.0	48.0	38.0
27.5°	138.0	132.0	124.0	116.0	106.0	98.0	84.0	72.0	60.0	50.0	38.0
25°	140.0	134.0	126.0	118.0	108.0	100.0	88.0	74.0	62.0	50.0	40.0
22.5°	140.0	136.0	128.0	120.0	110.0	100.0	90.0	76.0	64.0	52.0	40.0
20°	142.0	136.0	130.0	122.0	112.0	102.0	90.0	78.0	64.0	52.0	42.0
17.5°	144.0	138.0	132.0	124.0	114.0	104.0	92.0	80.0	66.0	54.0	42.0
15°	146.0	140.0	132.0	124.0	116.0	104.0	94.0	80.0	68.0	54.0	42.0
12.5°	146.0	140.0	134.0	126.0	116.0	106.0	96.0	82.0	68.0	54.0	42.0
10°	148.0	140.0	134.0	126.0	118.0	106.0	96.0	82.0	68.0	56.0	44.0
7.5°	148.0	142.0	136.0	128.0	118.0	108.0	98.0	84.0	70.0	56.0	44.0
5°	150.0	142.0	136.0	128.0	120.0	108.0	98.0	84.0	70.0	56.0	44.0
2.5°	150.0	142.0	136.0	128.0	120.0	108.0	98.0	84.0	70.0	56.0	44.0
0°	150.0	142.0	136.0	128.0	120.0	108.0	98.0	84.0	70.0	56.0	44.0

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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	0.0	0.0	0.0
85°	2.0	2.0	0.0	0.0
82.5°	4.0	2.0	2.0	0.0
80°	6.0	4.0	2.0	0.0
77.5°	6.0	4.0	2.0	0.0
75°	8.0	6.0	2.0	0.0
72.5°	8.0	6.0	4.0	0.0
70°	10.0	6.0	4.0	0.0
67.5°	12.0	8.0	4.0	0.0
65°	14.0	8.0	4.0	0.0
62.5°	14.0	10.0	4.0	0.0
60°	16.0	10.0	4.0	0.0
57.5°	18.0	10.0	6.0	0.0
55°	18.0	12.0	6.0	0.0
52.5°	20.0	12.0	6.0	0.0
50°	22.0	14.0	6.0	0.0
47.5°	22.0	14.0	6.0	0.0
45°	24.0	14.0	8.0	0.0
42.5°	24.0	16.0	8.0	0.0
40°	24.0	16.0	8.0	0.0
37.5°	26.0	18.0	8.0	0.0
35°	26.0	18.0	8.0	0.0
32.5°	28.0	18.0	8.0	0.0
30°	28.0	18.0	8.0	0.0
27.5°	28.0	20.0	8.0	0.0
25°	30.0	20.0	10.0	0.0
22.5°	30.0	20.0	10.0	0.0
20°	30.0	20.0	10.0	0.0
17.5°	30.0	20.0	10.0	0.0
15°	30.0	22.0	10.0	0.0
12.5°	32.0	22.0	10.0	0.0
10°	32.0	22.0	10.0	0.0
7.5°	32.0	22.0	10.0	0.0
5°	32.0	22.0	10.0	0.0
2.5°	32.0	22.0	10.0	0.0
0°	32.0	22.0	10.0	0.0

(END OF REPORT)