

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: P640065

Luminaire Tested: **IFLD-S-SA2A-AMB-U-LAM**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640065
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-AMB-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

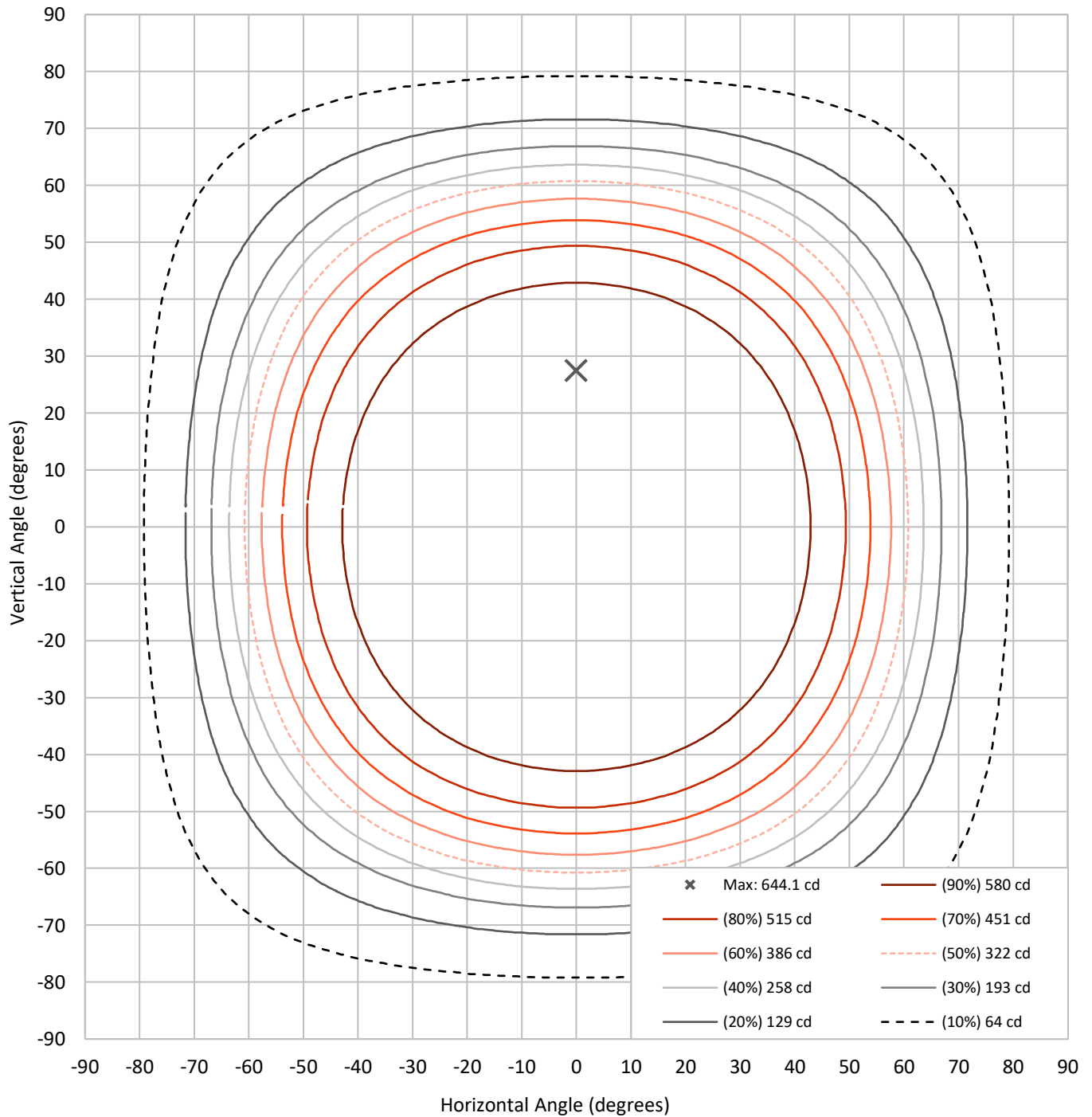
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	2101.9 lumens	Max Intensity:	644.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 27.5°V
Efficacy:	32.9 lumens/watt		
Luminous Opening:	Rectangular (W 1' 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:	1319.3 lumens	Field Lumens:	1551.9 lumens
Beam Efficiency:	62.8%	Field Efficiency:	73.8%
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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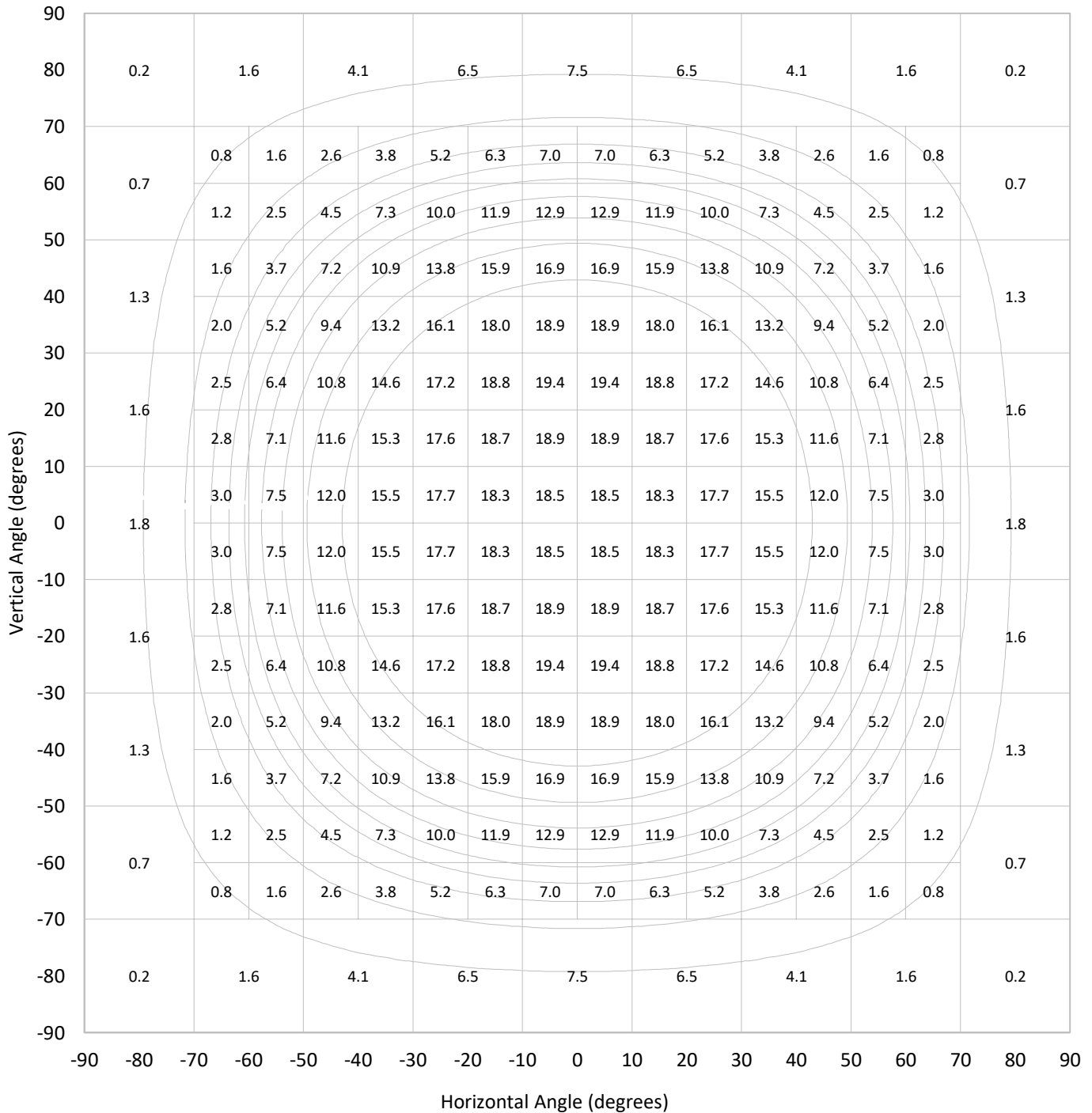
Iso-Candela Plot





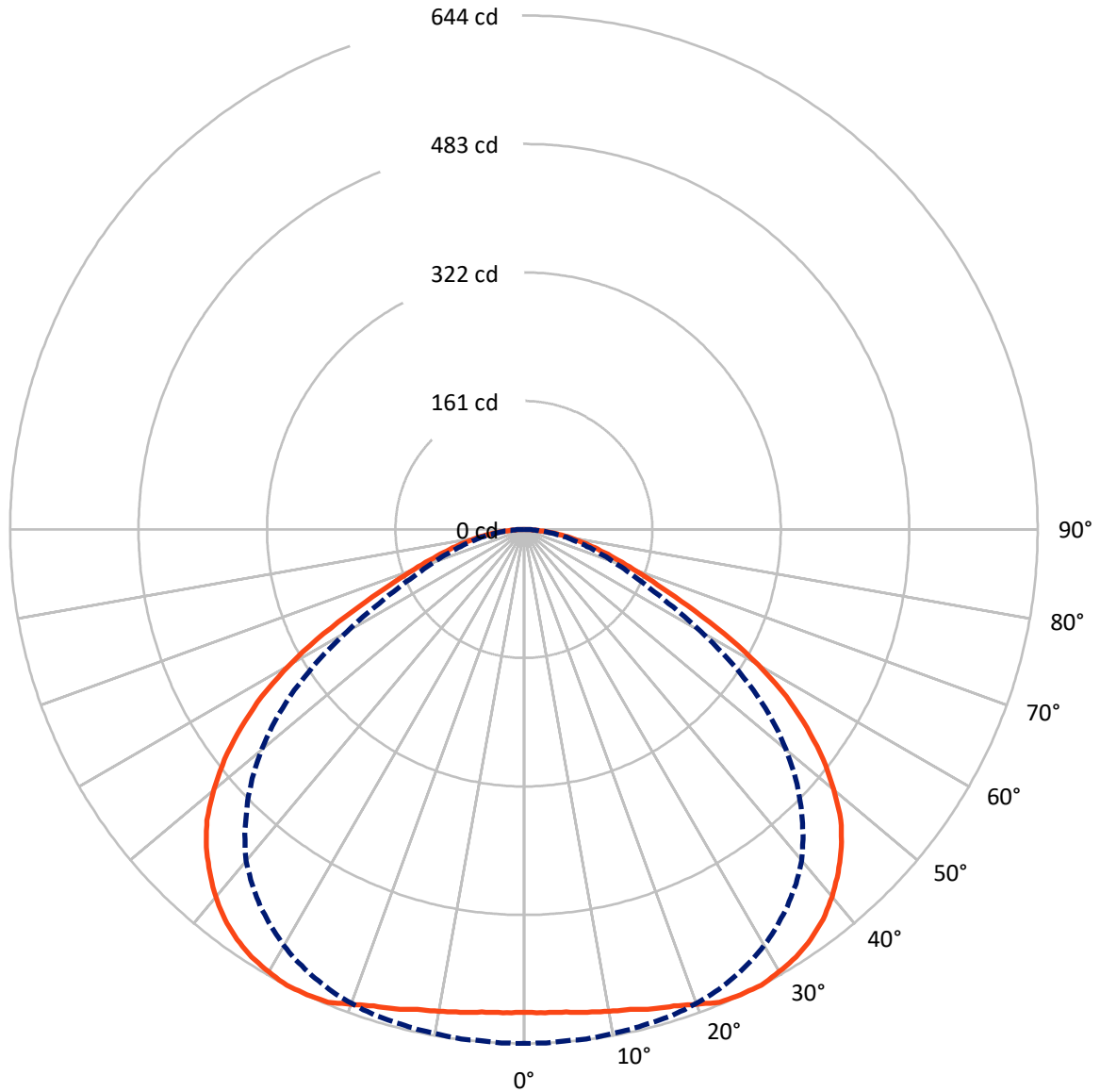
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Lumen Table



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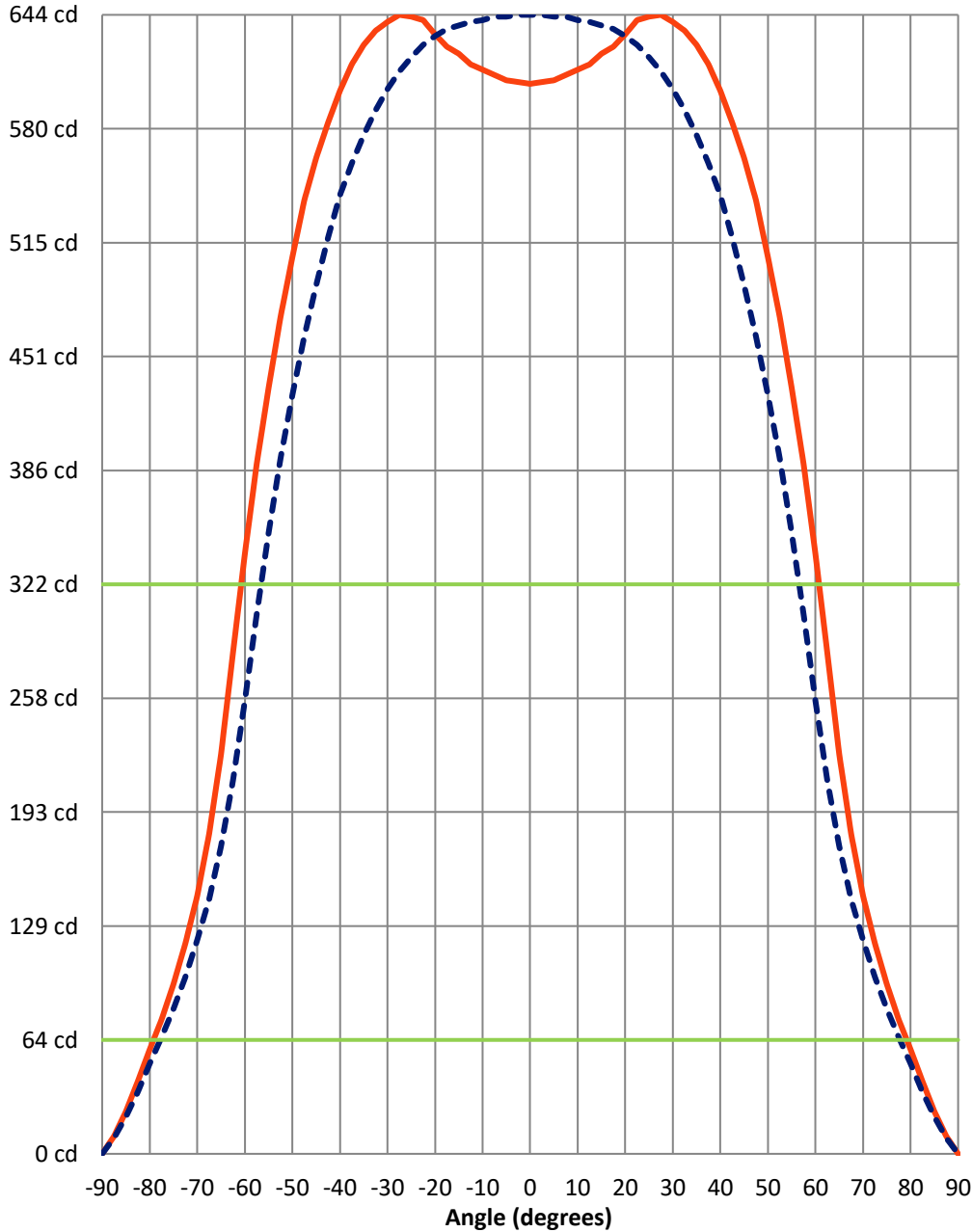
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 113.2°
 V Angle: 121.5°
 Lumens: 1319.3
 Efficiency: 62.8%

Field:
 H Angle: 155.5°
 V Angle: 158.4°
 Lumens: 1551.9
 Efficiency: 73.8%

Spill:
 Lumens: 550.1
 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°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	9.0	9.0
85°	24.0	24.0	24.0	24.0	24.0	23.0	23.0	23.0	22.0	22.0	21.0
82.5°	41.0	41.0	41.0	41.0	40.0	40.0	39.0	39.0	38.0	37.0	36.0
80°	59.0	59.0	59.0	59.0	58.0	57.0	57.0	56.0	55.0	53.0	52.0
77.5°	76.0	76.0	76.0	75.0	75.0	74.0	73.0	72.0	71.0	69.0	68.0
75°	96.0	96.0	96.0	95.0	94.0	93.0	92.0	90.0	89.0	87.0	85.0
72.5°	119.0	119.0	119.0	118.0	116.0	115.0	113.0	111.0	109.0	106.0	103.0
70°	146.0	146.0	146.0	144.0	143.0	141.0	138.0	136.0	132.0	129.0	125.0
67.5°	181.0	181.0	181.0	178.0	176.0	173.0	170.0	166.0	161.0	156.0	150.0
65°	226.0	226.0	224.0	222.0	219.0	215.0	210.0	204.0	197.0	190.0	181.0
62.5°	283.1	283.1	280.1	277.1	273.1	267.1	260.1	252.1	242.1	232.1	221.0
60°	339.1	339.1	336.1	333.1	328.1	322.1	314.1	305.1	295.1	283.1	270.1
57.5°	390.1	390.1	387.1	384.1	379.1	372.1	365.1	356.1	346.1	334.1	320.1
55°	433.1	433.1	430.1	427.1	423.1	417.1	410.1	401.1	392.1	380.1	366.1
52.5°	473.1	473.1	470.1	467.1	462.1	456.1	449.1	441.1	431.1	420.1	407.1
50°	507.1	507.1	505.1	501.1	497.1	492.1	485.1	477.1	468.1	456.1	443.1
47.5°	539.1	539.1	536.1	533.1	529.1	523.1	516.1	508.1	499.1	488.1	476.1
45°	563.1	563.1	561.1	558.1	555.1	550.1	545.1	539.1	528.1	517.1	505.1
42.5°	583.1	583.1	581.1	579.1	575.1	571.1	566.1	560.1	552.1	543.1	532.1
40°	601.1	601.1	599.1	597.1	594.1	590.1	585.1	578.1	571.1	563.1	553.1
37.5°	616.1	616.1	614.1	612.1	609.1	606.1	601.1	595.1	588.1	580.1	571.1
35°	627.1	627.1	626.1	624.1	622.1	619.1	615.1	609.1	603.1	595.1	586.1
32.5°	635.1	635.1	634.1	633.1	631.1	628.1	625.1	621.1	616.1	608.1	600.1
30°	640.1	640.1	639.1	638.1	637.1	635.1	633.1	629.1	625.1	619.1	611.1
27.5°	644.1	644.1	643.1	643.1	641.1	640.1	638.1	636.1	632.1	627.1	620.1
25°	643.1	643.1	643.1	643.1	644.1	644.1	642.1	640.1	637.1	633.1	628.1
22.5°	641.1	641.1	641.1	642.1	643.1	643.1	644.1	643.1	640.1	637.1	633.1
20°	633.1	633.1	635.1	637.1	640.1	642.1	643.1	644.1	643.1	640.1	637.1
17.5°	626.1	626.1	628.1	630.1	633.1	637.1	641.1	643.1	644.1	643.1	640.1
15°	622.1	622.1	623.1	625.1	627.1	631.1	636.1	641.1	643.1	644.1	642.1
12.5°	616.1	617.1	618.1	621.1	624.1	626.1	631.1	637.1	642.1	643.1	644.1
10°	613.1	613.1	614.1	616.1	620.1	624.1	627.1	633.1	640.1	643.1	644.1
7.5°	610.1	610.1	612.1	614.1	616.1	621.1	625.1	630.1	637.1	642.1	643.1
5°	607.1	608.1	609.1	612.1	614.1	618.1	623.1	628.1	635.1	641.1	643.1
2.5°	606.1	606.1	608.1	610.1	613.1	617.1	622.1	626.1	633.1	641.1	643.1
0°	605.1	606.1	607.1	610.1	613.1	616.1	622.1	626.1	633.1	641.1	643.1



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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°	9.0	9.0	8.0	8.0	8.0	8.0	7.0	7.0	7.0	6.0	6.0
85°	21.0	20.0	20.0	19.0	18.0	17.0	17.0	16.0	15.0	14.0	13.0
82.5°	35.0	34.0	33.0	32.0	30.0	29.0	28.0	26.0	24.0	23.0	22.0
80°	51.0	49.0	48.0	46.0	44.0	42.0	40.0	38.0	36.0	34.0	31.0
77.5°	66.0	64.0	63.0	60.0	58.0	56.0	53.0	50.0	48.0	45.0	42.0
75°	82.0	80.0	77.0	74.0	72.0	69.0	66.0	63.0	59.0	56.0	52.0
72.5°	100.0	97.0	94.0	90.0	86.0	83.0	78.0	74.0	71.0	67.0	63.0
70°	121.0	117.0	112.0	108.0	103.0	98.0	93.0	88.0	83.0	78.0	73.0
67.5°	144.0	139.0	133.0	127.0	121.0	115.0	109.0	102.0	96.0	90.0	84.0
65°	174.0	167.0	158.0	150.0	142.0	134.0	126.0	118.0	111.0	103.0	96.0
62.5°	211.0	200.0	189.0	177.0	167.0	156.0	146.0	136.0	126.0	117.0	108.0
60°	256.1	241.1	226.0	211.0	197.0	181.0	169.0	156.0	143.0	132.0	121.0
57.5°	305.1	288.1	270.1	251.1	231.1	213.0	196.0	179.0	164.0	149.0	136.0
55°	351.1	334.1	315.1	295.1	273.1	250.1	226.0	207.0	186.0	169.0	152.0
52.5°	393.1	376.1	357.1	339.1	314.1	290.1	264.1	237.1	213.0	191.0	171.0
50°	429.1	413.1	396.1	375.1	352.1	328.1	301.1	272.1	243.1	215.0	191.0
47.5°	462.1	446.1	428.1	409.1	390.1	363.1	336.1	306.1	275.1	243.1	213.0
45°	491.1	477.1	459.1	439.1	418.1	395.1	368.1	339.1	306.1	272.1	237.1
42.5°	518.1	503.1	486.1	467.1	446.1	422.1	397.1	368.1	336.1	301.1	264.1
40°	542.1	527.1	510.1	492.1	473.1	448.1	422.1	395.1	363.1	328.1	290.1
37.5°	560.1	548.1	533.1	514.1	493.1	473.1	446.1	418.1	390.1	352.1	314.1
35°	576.1	564.1	551.1	534.1	514.1	492.1	467.1	439.1	409.1	375.1	339.1
32.5°	590.1	578.1	566.1	551.1	533.1	510.1	486.1	459.1	428.1	396.1	357.1
30°	602.1	591.1	578.1	564.1	548.1	527.1	503.1	477.1	446.1	413.1	376.1
27.5°	612.1	602.1	590.1	576.1	560.1	542.1	518.1	491.1	462.1	429.1	393.1
25°	620.1	611.1	600.1	586.1	571.1	553.1	532.1	505.1	476.1	443.1	407.1
22.5°	627.1	619.1	608.1	595.1	580.1	563.1	543.1	517.1	488.1	456.1	420.1
20°	632.1	625.1	616.1	603.1	588.1	571.1	552.1	528.1	499.1	468.1	431.1
17.5°	636.1	629.1	621.1	609.1	595.1	578.1	560.1	539.1	508.1	477.1	441.1
15°	638.1	633.1	625.1	615.1	601.1	585.1	566.1	545.1	516.1	485.1	449.1
12.5°	640.1	635.1	628.1	619.1	606.1	590.1	571.1	550.1	523.1	492.1	456.1
10°	641.1	637.1	631.1	622.1	609.1	594.1	575.1	555.1	529.1	497.1	462.1
7.5°	643.1	638.1	633.1	624.1	612.1	597.1	579.1	558.1	533.1	501.1	467.1
5°	643.1	639.1	634.1	626.1	614.1	599.1	581.1	561.1	536.1	505.1	470.1
2.5°	644.1	640.1	635.1	627.1	616.1	601.1	583.1	563.1	539.1	507.1	473.1
0°	644.1	640.1	635.1	627.1	616.1	601.1	583.1	563.1	539.1	507.1	473.1



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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°	6.0	5.0	5.0	5.0	4.0	4.0	3.0	3.0	3.0	2.0	2.0
85°	12.0	11.0	10.0	9.0	8.0	8.0	7.0	6.0	5.0	4.0	3.0
82.5°	20.0	19.0	17.0	15.0	14.0	12.0	10.0	9.0	8.0	6.0	5.0
80°	29.0	26.0	24.0	22.0	20.0	17.0	15.0	13.0	10.0	9.0	7.0
77.5°	38.0	35.0	32.0	29.0	26.0	23.0	20.0	17.0	14.0	11.0	9.0
75°	48.0	45.0	41.0	37.0	33.0	29.0	25.0	21.0	18.0	14.0	10.0
72.5°	59.0	54.0	49.0	44.0	40.0	35.0	30.0	25.0	21.0	17.0	13.0
70°	68.0	63.0	58.0	52.0	47.0	41.0	36.0	30.0	25.0	20.0	15.0
67.5°	77.0	72.0	66.0	60.0	54.0	48.0	41.0	35.0	29.0	23.0	17.0
65°	88.0	81.0	74.0	68.0	61.0	54.0	47.0	40.0	33.0	26.0	20.0
62.5°	99.0	91.0	83.0	75.0	68.0	60.0	52.0	44.0	37.0	29.0	22.0
60°	111.0	101.0	92.0	83.0	74.0	66.0	58.0	49.0	41.0	32.0	24.0
57.5°	124.0	112.0	101.0	91.0	81.0	72.0	63.0	54.0	45.0	35.0	26.0
55°	137.0	124.0	111.0	99.0	88.0	77.0	68.0	59.0	48.0	38.0	29.0
52.5°	152.0	136.0	121.0	108.0	96.0	84.0	73.0	63.0	52.0	42.0	31.0
50°	169.0	149.0	132.0	117.0	103.0	90.0	78.0	67.0	56.0	45.0	34.0
47.5°	186.0	164.0	143.0	126.0	111.0	96.0	83.0	71.0	59.0	48.0	36.0
45°	207.0	179.0	156.0	136.0	118.0	102.0	88.0	74.0	63.0	50.0	38.0
42.5°	226.0	196.0	169.0	146.0	126.0	109.0	93.0	78.0	66.0	53.0	40.0
40°	250.1	213.0	181.0	156.0	134.0	115.0	98.0	83.0	69.0	56.0	42.0
37.5°	273.1	231.1	197.0	167.0	142.0	121.0	103.0	86.0	72.0	58.0	44.0
35°	295.1	251.1	211.0	177.0	150.0	127.0	108.0	90.0	74.0	60.0	46.0
32.5°	315.1	270.1	226.0	189.0	158.0	133.0	112.0	94.0	77.0	63.0	48.0
30°	334.1	288.1	241.1	200.0	167.0	139.0	117.0	97.0	80.0	64.0	49.0
27.5°	351.1	305.1	256.1	211.0	174.0	144.0	121.0	100.0	82.0	66.0	51.0
25°	366.1	320.1	270.1	221.0	181.0	150.0	125.0	103.0	85.0	68.0	52.0
22.5°	380.1	334.1	283.1	232.1	190.0	156.0	129.0	106.0	87.0	69.0	53.0
20°	392.1	346.1	295.1	242.1	197.0	161.0	132.0	109.0	89.0	71.0	55.0
17.5°	401.1	356.1	305.1	252.1	204.0	166.0	136.0	111.0	90.0	72.0	56.0
15°	410.1	365.1	314.1	260.1	210.0	170.0	138.0	113.0	92.0	73.0	57.0
12.5°	417.1	372.1	322.1	267.1	215.0	173.0	141.0	115.0	93.0	74.0	57.0
10°	423.1	379.1	328.1	273.1	219.0	176.0	143.0	116.0	94.0	75.0	58.0
7.5°	427.1	384.1	333.1	277.1	222.0	178.0	144.0	118.0	95.0	75.0	59.0
5°	430.1	387.1	336.1	280.1	224.0	181.0	146.0	119.0	96.0	76.0	59.0
2.5°	433.1	390.1	339.1	283.1	226.0	181.0	146.0	119.0	96.0	76.0	59.0
0°	433.1	390.1	339.1	283.1	226.0	181.0	146.0	119.0	96.0	76.0	59.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	0.0	0.0
85°	3.0	2.0	1.0	0.0
82.5°	4.0	3.0	1.0	0.0
80°	5.0	3.0	2.0	0.0
77.5°	6.0	4.0	2.0	0.0
75°	8.0	5.0	3.0	0.0
72.5°	9.0	6.0	3.0	0.0
70°	10.0	7.0	3.0	0.0
67.5°	12.0	8.0	4.0	0.0
65°	14.0	8.0	4.0	0.0
62.5°	15.0	9.0	5.0	0.0
60°	17.0	10.0	5.0	0.0
57.5°	19.0	11.0	5.0	0.0
55°	20.0	12.0	6.0	0.0
52.5°	22.0	13.0	6.0	0.0
50°	23.0	14.0	6.0	0.0
47.5°	24.0	15.0	7.0	0.0
45°	26.0	16.0	7.0	0.0
42.5°	28.0	17.0	7.0	0.0
40°	29.0	17.0	8.0	0.0
37.5°	30.0	18.0	8.0	0.0
35°	32.0	19.0	8.0	0.0
32.5°	33.0	20.0	8.0	0.0
30°	34.0	20.0	9.0	0.0
27.5°	35.0	21.0	9.0	0.0
25°	36.0	21.0	9.0	0.0
22.5°	37.0	22.0	9.0	0.0
20°	38.0	22.0	9.0	0.0
17.5°	39.0	23.0	10.0	0.0
15°	39.0	23.0	10.0	0.0
12.5°	40.0	23.0	10.0	0.0
10°	40.0	24.0	10.0	0.0
7.5°	41.0	24.0	10.0	0.0
5°	41.0	24.0	10.0	0.0
2.5°	41.0	24.0	10.0	0.0
0°	41.0	24.0	10.0	0.0

(END OF REPORT)