

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: P723424

Luminaire Tested: **IFLD-L-SA7D-827-U-22**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P723424
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-22
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

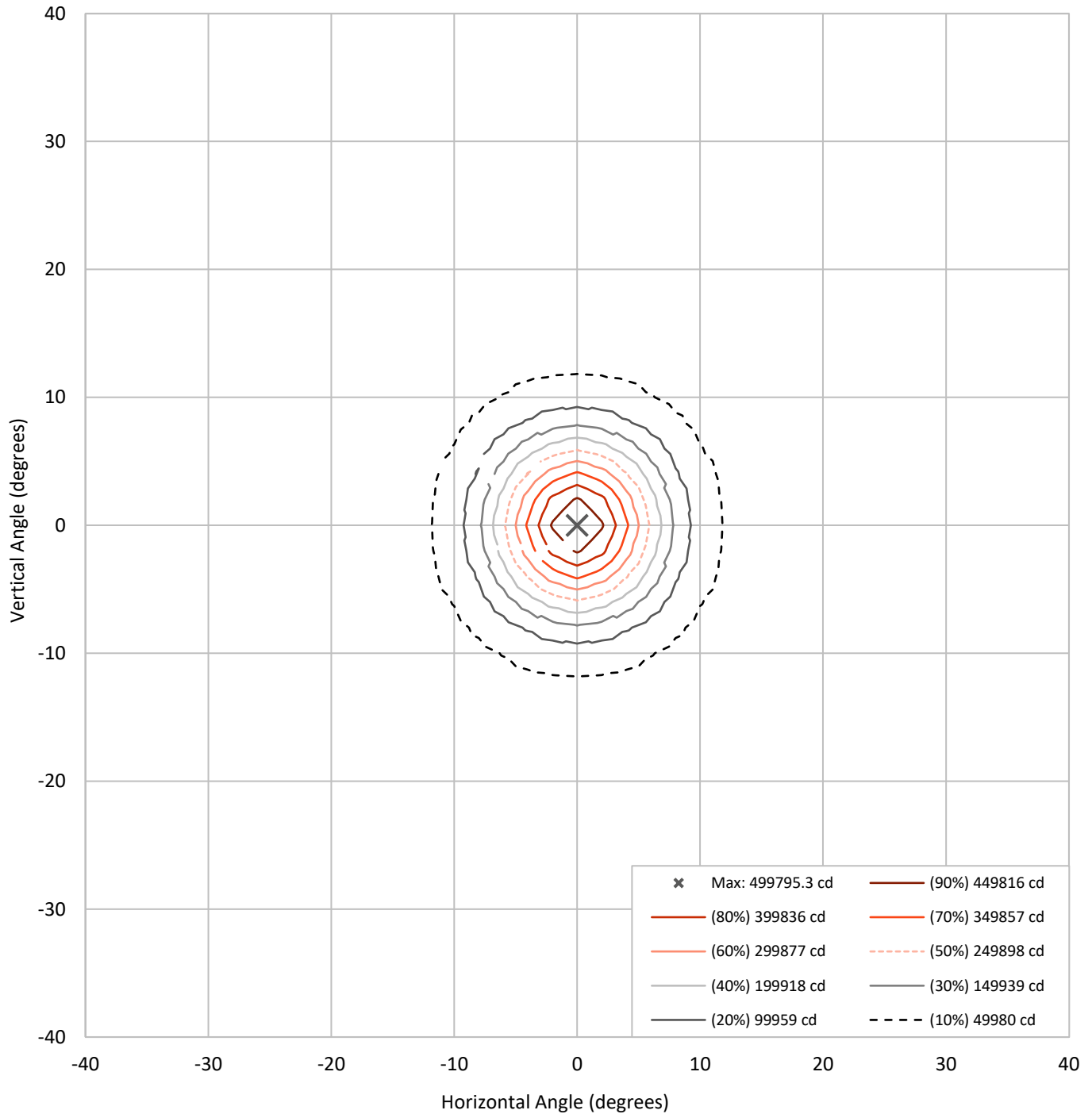
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	33467.6 lumens	Max Intensity:	499795.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	79.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	11.8°H x 11.8°V	Field Angle (10%):	23.7°H x 23.7°V
Beam Lumens:	8107 lumens	Field Lumens:	17422.1 lumens
Beam Efficiency:	24.2%	Field Efficiency:	52.1%

Input Watts (W): 422.6
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: 28.75 FT



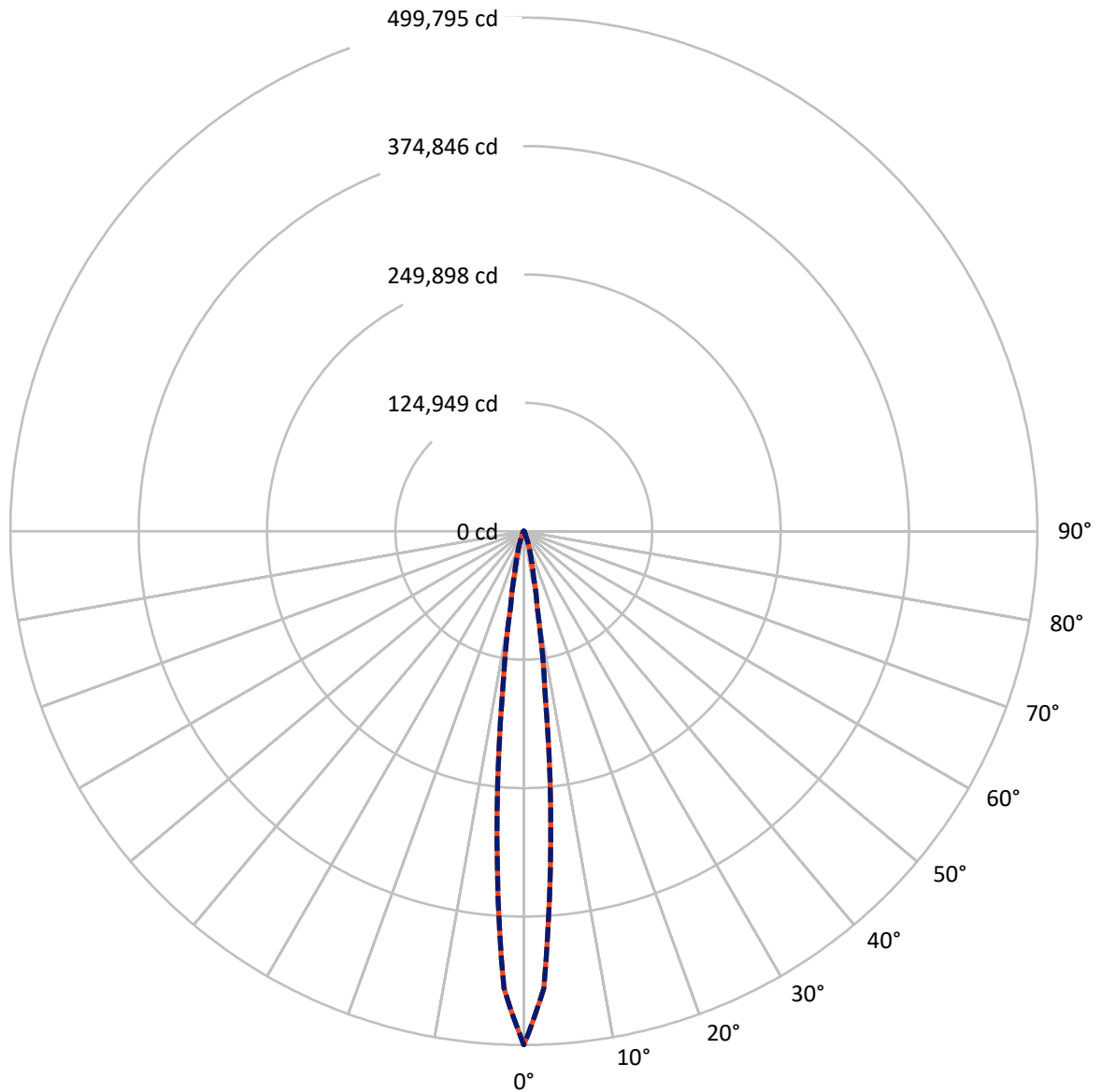
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Iso-Candela Plot



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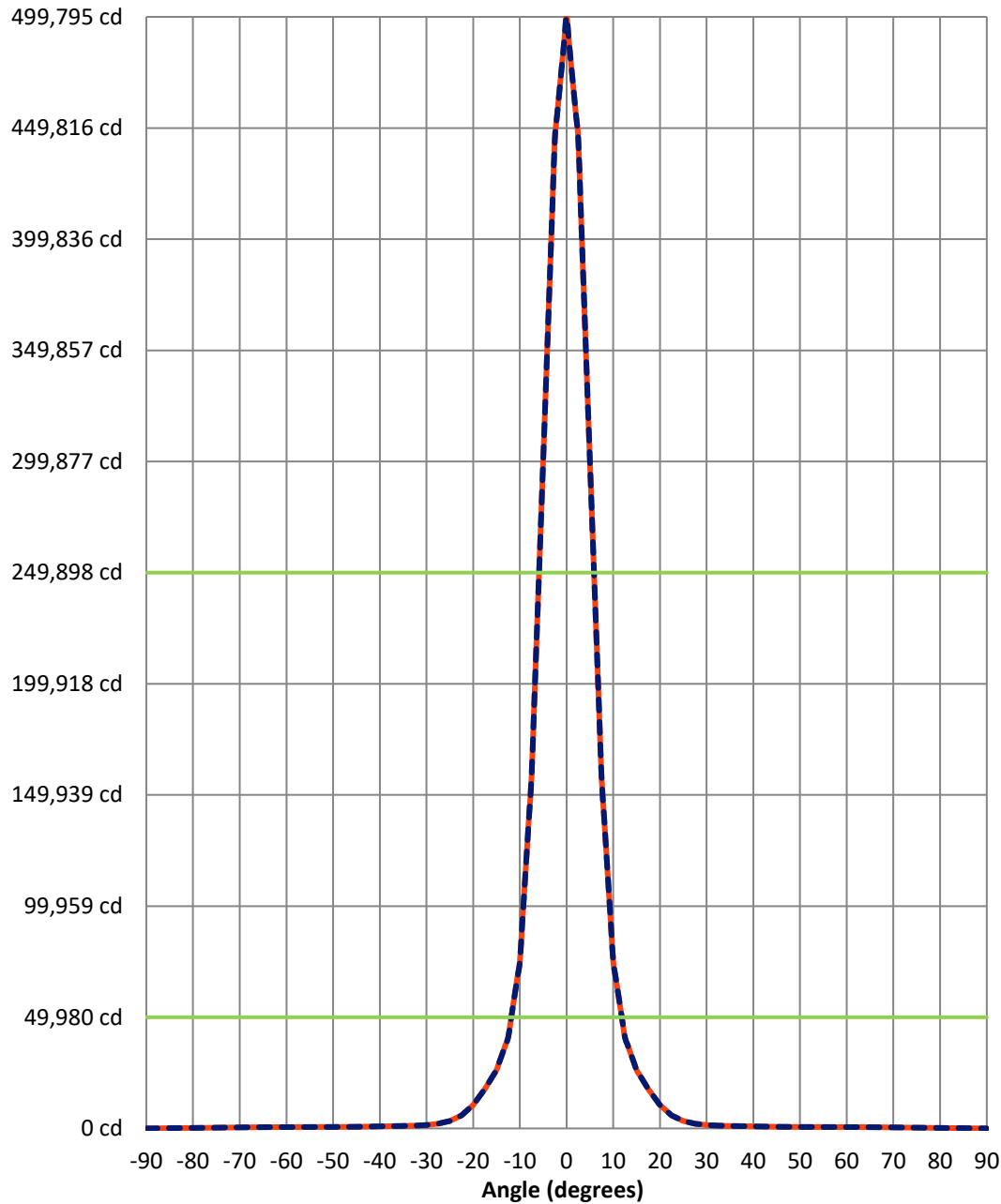
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 11.8°
 V Angle: 11.8°
 Lumens: 8107
 Efficiency: 24.2%

Field:
 H Angle: 23.7°
 V Angle: 23.7°
 Lumens: 17422.1
 Efficiency: 52.1%

Spill:
 Lumens: 16045.5
 Efficiency: 47.9%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-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°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	44.5	44.5	44.5
85°	128.4	128.4	128.4	128.4	128.4	123.5	123.5	123.5	118.5	118.5	113.6
82.5°	172.9	172.9	172.9	172.9	172.9	167.9	167.9	167.9	163.0	163.0	158.1
80°	222.3	222.3	222.3	222.3	217.3	217.3	217.3	212.4	212.4	207.5	202.5
77.5°	276.6	276.6	276.6	276.6	271.7	271.7	266.7	261.8	261.8	256.8	251.9
75°	335.9	335.9	335.9	330.9	330.9	326.0	321.1	321.1	316.1	306.2	301.3
72.5°	400.1	400.1	400.1	395.2	395.2	390.2	385.3	380.3	370.5	365.5	355.6
70°	464.3	464.3	464.3	459.4	454.4	449.5	444.5	439.6	429.7	424.8	414.9
67.5°	513.7	513.7	513.7	508.8	508.8	503.8	498.9	493.9	484.1	479.1	469.2
65°	553.2	553.2	553.2	548.3	548.3	543.3	538.4	533.5	528.5	523.6	513.7
62.5°	582.9	582.9	582.9	577.9	577.9	573.0	573.0	568.0	563.1	558.2	548.3
60°	597.7	597.7	597.7	597.7	592.7	592.7	592.7	587.8	587.8	582.9	577.9
57.5°	617.4	617.4	617.4	617.4	612.5	612.5	607.5	602.6	602.6	597.7	592.7
55°	627.3	627.3	627.3	627.3	627.3	622.4	622.4	622.4	617.4	612.5	607.5
52.5°	642.1	642.1	642.1	642.1	637.2	637.2	632.2	632.2	627.3	622.4	622.4
50°	661.9	661.9	661.9	656.9	656.9	652.0	647.1	642.1	642.1	637.2	632.2
47.5°	691.5	691.5	691.5	686.6	681.6	676.7	671.8	661.9	656.9	652.0	642.1
45°	736.0	736.0	731.0	726.1	721.2	711.3	701.4	691.5	681.6	671.8	661.9
42.5°	824.9	824.9	815.0	805.1	790.3	770.5	750.8	731.0	716.2	701.4	686.6
40°	928.6	928.6	918.7	903.9	884.2	864.4	834.8	805.1	775.5	736.0	716.2
37.5°	1032.3	1032.3	1022.5	1007.6	987.9	958.2	928.6	894.0	854.5	810.1	770.5
35°	1111.4	1111.4	1101.5	1091.6	1071.9	1052.1	1022.5	987.9	943.4	894.0	844.6
32.5°	1249.7	1249.7	1229.9	1205.2	1175.6	1136.1	1096.6	1066.9	1032.3	978.0	923.7
30°	1531.2	1531.2	1486.8	1437.4	1363.3	1274.4	1210.2	1150.9	1096.6	1052.1	997.8
27.5°	2124.0	2099.3	2025.2	1901.7	1738.7	1531.2	1412.7	1279.3	1190.4	1111.4	1062.0
25°	3348.9	3289.7	3121.7	2845.1	2464.8	2059.7	1793.0	1511.5	1348.5	1215.1	1126.2
22.5°	5858.2	5724.8	5334.6	4697.4	3833.0	3062.4	2454.9	1951.1	1590.5	1373.2	1215.1
20°	10530.8	10254.2	9424.4	8090.8	6292.8	4904.8	3536.6	2692.0	2005.4	1590.5	1348.5
17.5°	17712.8	17218.8	15761.7	13425.3	10530.8	7927.8	5463.0	3798.4	2692.0	1951.1	1511.5
15°	26248.1	25556.6	23541.3	20335.6	16379.1	12160.9	8490.9	5463.0	3536.6	2454.9	1793.0
12.5°	40908.3	39480.8	35346.5	28905.5	22978.2	17406.5	12160.9	7927.8	4904.8	3062.4	2059.7
10°	75059.4	70895.5	59090.3	41219.5	31488.8	22978.2	16379.1	10530.8	6292.8	3833.0	2464.8
7.5°	157938.0	139430.0	100650.6	66978.5	41219.5	28905.5	20335.6	13425.3	8090.8	4697.4	2845.1
5°	300331.6	262525.3	180876.7	100650.6	59090.3	35346.5	23541.3	15761.7	9424.4	5334.6	3121.7
2.5°	445224.6	392960.6	262525.3	139430.0	70895.5	39480.8	25556.6	17218.8	10254.2	5724.8	3289.7
0°	499795.3	445224.6	300331.6	157938.0	75059.4	40908.3	26248.1	17712.8	10530.8	5858.2	3348.9



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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°	44.5	44.5	39.5	39.5	39.5	39.5	34.6	34.6	34.6	29.6	29.6
85°	108.7	108.7	103.7	98.8	93.8	93.8	88.9	84.0	79.0	74.1	64.2
82.5°	158.1	153.1	153.1	148.2	143.2	143.2	138.3	133.4	128.4	123.5	113.6
80°	197.6	197.6	192.6	187.7	182.8	177.8	167.9	163.0	158.1	153.1	148.2
77.5°	247.0	242.0	232.2	227.2	222.3	212.4	207.5	197.6	192.6	182.8	172.9
75°	296.4	286.5	281.5	271.7	261.8	251.9	242.0	232.2	222.3	212.4	202.5
72.5°	345.8	335.9	330.9	316.1	306.2	296.4	281.5	271.7	261.8	247.0	232.2
70°	405.0	395.2	380.3	370.5	355.6	340.8	326.0	311.2	296.4	281.5	266.7
67.5°	459.4	449.5	434.7	419.9	405.0	390.2	370.5	355.6	335.9	316.1	301.3
65°	503.8	493.9	484.1	469.2	454.4	434.7	414.9	395.2	375.4	355.6	335.9
62.5°	538.4	528.5	518.6	508.8	493.9	479.1	464.3	439.6	419.9	395.2	370.5
60°	568.0	563.1	553.2	538.4	528.5	513.7	498.9	479.1	459.4	429.7	405.0
57.5°	587.8	582.9	577.9	568.0	558.2	543.3	528.5	508.8	489.0	469.2	439.6
55°	602.6	597.7	592.7	587.8	577.9	568.0	553.2	538.4	518.6	498.9	474.2
52.5°	617.4	612.5	602.6	597.7	592.7	582.9	573.0	558.2	543.3	523.6	498.9
50°	627.3	622.4	617.4	612.5	602.6	592.7	587.8	577.9	563.1	543.3	523.6
47.5°	637.2	632.2	627.3	622.4	617.4	607.5	597.7	587.8	577.9	563.1	543.3
45°	652.0	642.1	637.2	627.3	622.4	617.4	607.5	597.7	587.8	577.9	558.2
42.5°	671.8	656.9	652.0	642.1	632.2	627.3	617.4	607.5	597.7	587.8	573.0
40°	696.5	681.6	666.8	652.0	642.1	632.2	627.3	617.4	607.5	592.7	582.9
37.5°	731.0	706.3	686.6	666.8	652.0	642.1	632.2	622.4	617.4	602.6	592.7
35°	795.2	740.9	711.3	686.6	666.8	652.0	642.1	627.3	622.4	612.5	597.7
32.5°	864.4	805.1	745.9	711.3	686.6	666.8	652.0	637.2	627.3	617.4	602.6
30°	938.5	869.3	805.1	740.9	706.3	681.6	656.9	642.1	632.2	622.4	612.5
27.5°	1007.6	938.5	864.4	795.2	731.0	696.5	671.8	652.0	637.2	627.3	617.4
25°	1062.0	997.8	923.7	844.6	770.5	716.2	686.6	661.9	642.1	632.2	622.4
22.5°	1111.4	1052.1	978.0	894.0	810.1	736.0	701.4	671.8	652.0	637.2	622.4
20°	1190.4	1096.6	1032.3	943.4	854.5	775.5	716.2	681.6	656.9	642.1	627.3
17.5°	1279.3	1150.9	1066.9	987.9	894.0	805.1	731.0	691.5	661.9	642.1	632.2
15°	1412.7	1210.2	1096.6	1022.5	928.6	834.8	750.8	701.4	671.8	647.1	632.2
12.5°	1531.2	1274.4	1136.1	1052.1	958.2	864.4	770.5	711.3	676.7	652.0	637.2
10°	1738.7	1363.3	1175.6	1071.9	987.9	884.2	790.3	721.2	681.6	656.9	637.2
7.5°	1901.7	1437.4	1205.2	1091.6	1007.6	903.9	805.1	726.1	686.6	656.9	642.1
5°	2025.2	1486.8	1229.9	1101.5	1022.5	918.7	815.0	731.0	691.5	661.9	642.1
2.5°	2099.3	1531.2	1249.7	1111.4	1032.3	928.6	824.9	736.0	691.5	661.9	642.1
0°	2124.0	1531.2	1249.7	1111.4	1032.3	928.6	824.9	736.0	691.5	661.9	642.1



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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°	29.6	24.7	24.7	24.7	19.8	19.8	14.8	14.8	14.8	9.9	9.9
85°	59.3	54.3	49.4	44.5	39.5	39.5	34.6	29.6	24.7	19.8	14.8
82.5°	103.7	98.8	88.9	79.0	69.2	59.3	49.4	44.5	39.5	29.6	24.7
80°	143.2	133.4	128.4	113.6	103.7	88.9	79.0	64.2	49.4	44.5	34.6
77.5°	167.9	158.1	148.2	143.2	133.4	118.5	103.7	88.9	74.1	54.3	44.5
75°	192.6	182.8	172.9	163.0	153.1	138.3	128.4	113.6	93.8	74.1	49.4
72.5°	222.3	207.5	197.6	182.8	167.9	158.1	143.2	133.4	113.6	88.9	64.2
70°	251.9	237.1	217.3	202.5	187.7	172.9	158.1	143.2	128.4	103.7	79.0
67.5°	281.5	261.8	247.0	227.2	207.5	192.6	172.9	158.1	138.3	118.5	88.9
65°	311.2	291.4	271.7	251.9	227.2	207.5	187.7	167.9	153.1	133.4	103.7
62.5°	345.8	321.1	296.4	271.7	251.9	227.2	202.5	182.8	163.0	143.2	113.6
60°	380.3	350.7	321.1	296.4	271.7	247.0	217.3	197.6	172.9	148.2	128.4
57.5°	410.0	380.3	350.7	321.1	291.4	261.8	237.1	207.5	182.8	158.1	133.4
55°	444.5	410.0	380.3	345.8	311.2	281.5	251.9	222.3	192.6	167.9	143.2
52.5°	474.2	439.6	405.0	370.5	335.9	301.3	266.7	232.2	202.5	172.9	148.2
50°	498.9	469.2	429.7	395.2	355.6	316.1	281.5	247.0	212.4	182.8	153.1
47.5°	518.6	489.0	459.4	419.9	375.4	335.9	296.4	261.8	222.3	192.6	158.1
45°	538.4	508.8	479.1	439.6	395.2	355.6	311.2	271.7	232.2	197.6	163.0
42.5°	553.2	528.5	498.9	464.3	414.9	370.5	326.0	281.5	242.0	207.5	167.9
40°	568.0	543.3	513.7	479.1	434.7	390.2	340.8	296.4	251.9	212.4	177.8
37.5°	577.9	558.2	528.5	493.9	454.4	405.0	355.6	306.2	261.8	222.3	182.8
35°	587.8	568.0	538.4	508.8	469.2	419.9	370.5	316.1	271.7	227.2	187.7
32.5°	592.7	577.9	553.2	518.6	484.1	434.7	380.3	330.9	281.5	232.2	192.6
30°	597.7	582.9	563.1	528.5	493.9	449.5	395.2	335.9	286.5	242.0	197.6
27.5°	602.6	587.8	568.0	538.4	503.8	459.4	405.0	345.8	296.4	247.0	197.6
25°	607.5	592.7	577.9	548.3	513.7	469.2	414.9	355.6	301.3	251.9	202.5
22.5°	612.5	597.7	582.9	558.2	523.6	479.1	424.8	365.5	306.2	256.8	207.5
20°	617.4	602.6	587.8	563.1	528.5	484.1	429.7	370.5	316.1	261.8	212.4
17.5°	622.4	602.6	587.8	568.0	533.5	493.9	439.6	380.3	321.1	261.8	212.4
15°	622.4	607.5	592.7	573.0	538.4	498.9	444.5	385.3	321.1	266.7	217.3
12.5°	622.4	612.5	592.7	573.0	543.3	503.8	449.5	390.2	326.0	271.7	217.3
10°	627.3	612.5	592.7	577.9	548.3	508.8	454.4	395.2	330.9	271.7	217.3
7.5°	627.3	617.4	597.7	577.9	548.3	508.8	459.4	395.2	330.9	276.6	222.3
5°	627.3	617.4	597.7	582.9	553.2	513.7	464.3	400.1	335.9	276.6	222.3
2.5°	627.3	617.4	597.7	582.9	553.2	513.7	464.3	400.1	335.9	276.6	222.3
0°	627.3	617.4	597.7	582.9	553.2	513.7	464.3	400.1	335.9	276.6	222.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.9	4.9	0.0	0.0
85°	14.8	9.9	4.9	0.0
82.5°	19.8	14.8	4.9	0.0
80°	24.7	14.8	9.9	0.0
77.5°	29.6	19.8	9.9	0.0
75°	39.5	24.7	14.8	0.0
72.5°	44.5	29.6	14.8	0.0
70°	49.4	34.6	14.8	0.0
67.5°	59.3	39.5	19.8	0.0
65°	69.2	39.5	19.8	0.0
62.5°	79.0	44.5	24.7	0.0
60°	88.9	49.4	24.7	0.0
57.5°	98.8	54.3	24.7	0.0
55°	103.7	59.3	29.6	0.0
52.5°	113.6	64.2	29.6	0.0
50°	123.5	74.1	29.6	0.0
47.5°	128.4	79.0	34.6	0.0
45°	133.4	84.0	34.6	0.0
42.5°	138.3	88.9	34.6	0.0
40°	143.2	93.8	39.5	0.0
37.5°	143.2	93.8	39.5	0.0
35°	148.2	98.8	39.5	0.0
32.5°	153.1	103.7	39.5	0.0
30°	153.1	108.7	44.5	0.0
27.5°	158.1	108.7	44.5	0.0
25°	158.1	113.6	44.5	0.0
22.5°	163.0	118.5	44.5	0.0
20°	163.0	118.5	44.5	0.0
17.5°	167.9	123.5	49.4	0.0
15°	167.9	123.5	49.4	0.0
12.5°	167.9	123.5	49.4	0.0
10°	172.9	128.4	49.4	0.0
7.5°	172.9	128.4	49.4	0.0
5°	172.9	128.4	49.4	0.0
2.5°	172.9	128.4	49.4	0.0
0°	172.9	128.4	49.4	0.0

(END OF REPORT)