

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: P623415

Luminaire Tested: **IFLD-S-SA6A-740-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623415
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	28024.6 lumens	Max Intensity:	90618.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

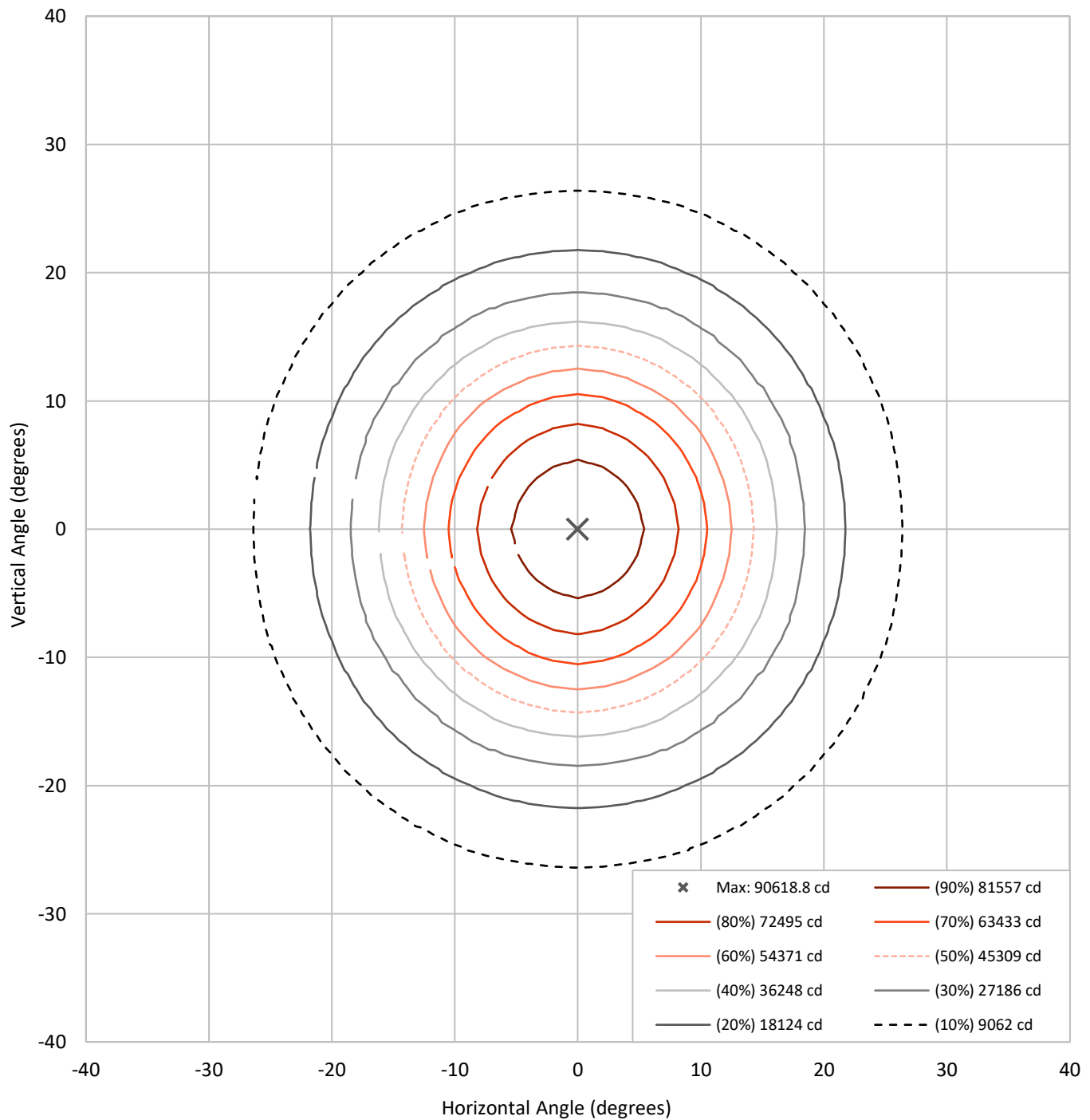
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	10111.8 lumens	Field Lumens:	17075.1 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 189.6
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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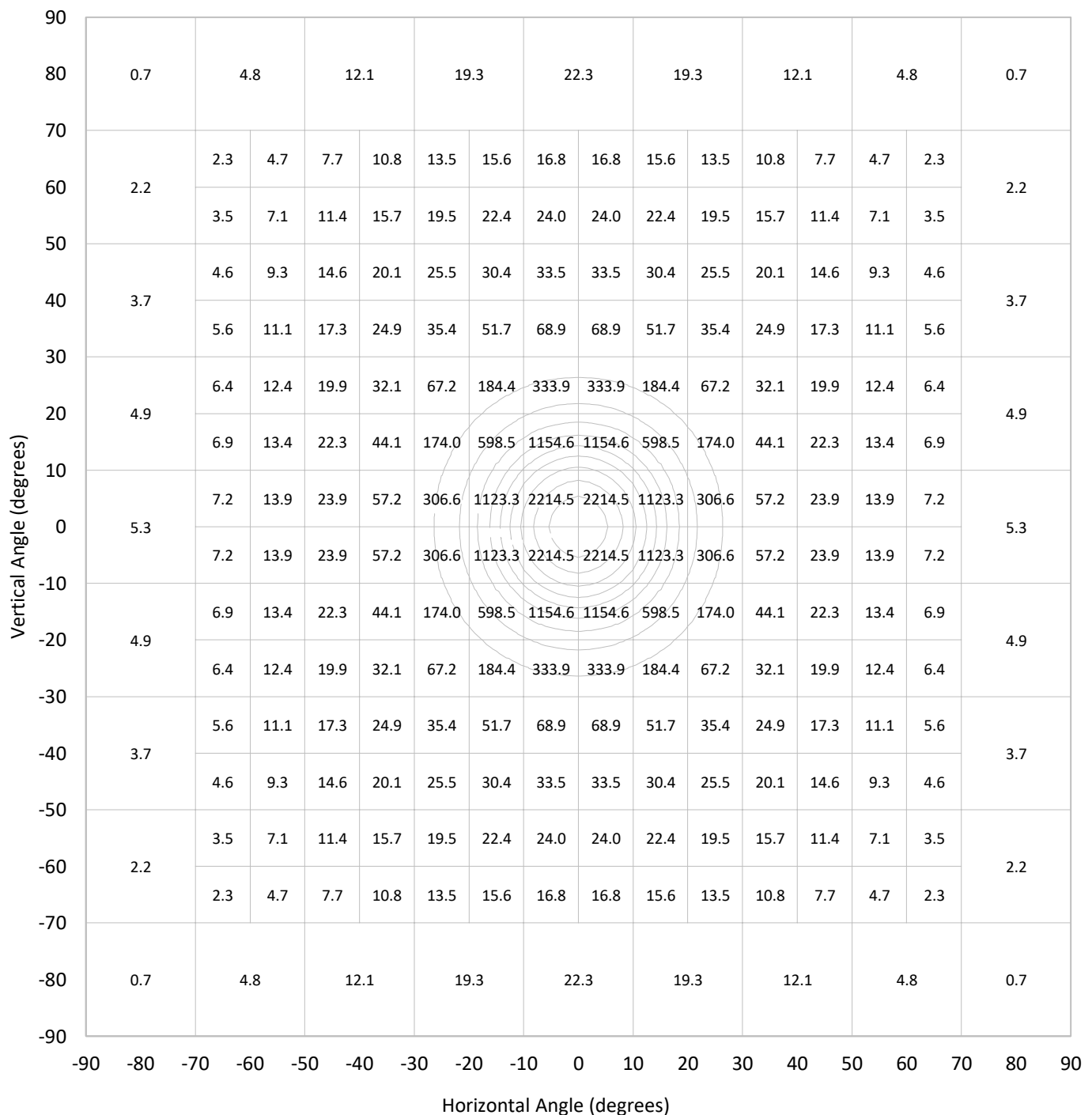
Iso-Candela Plot



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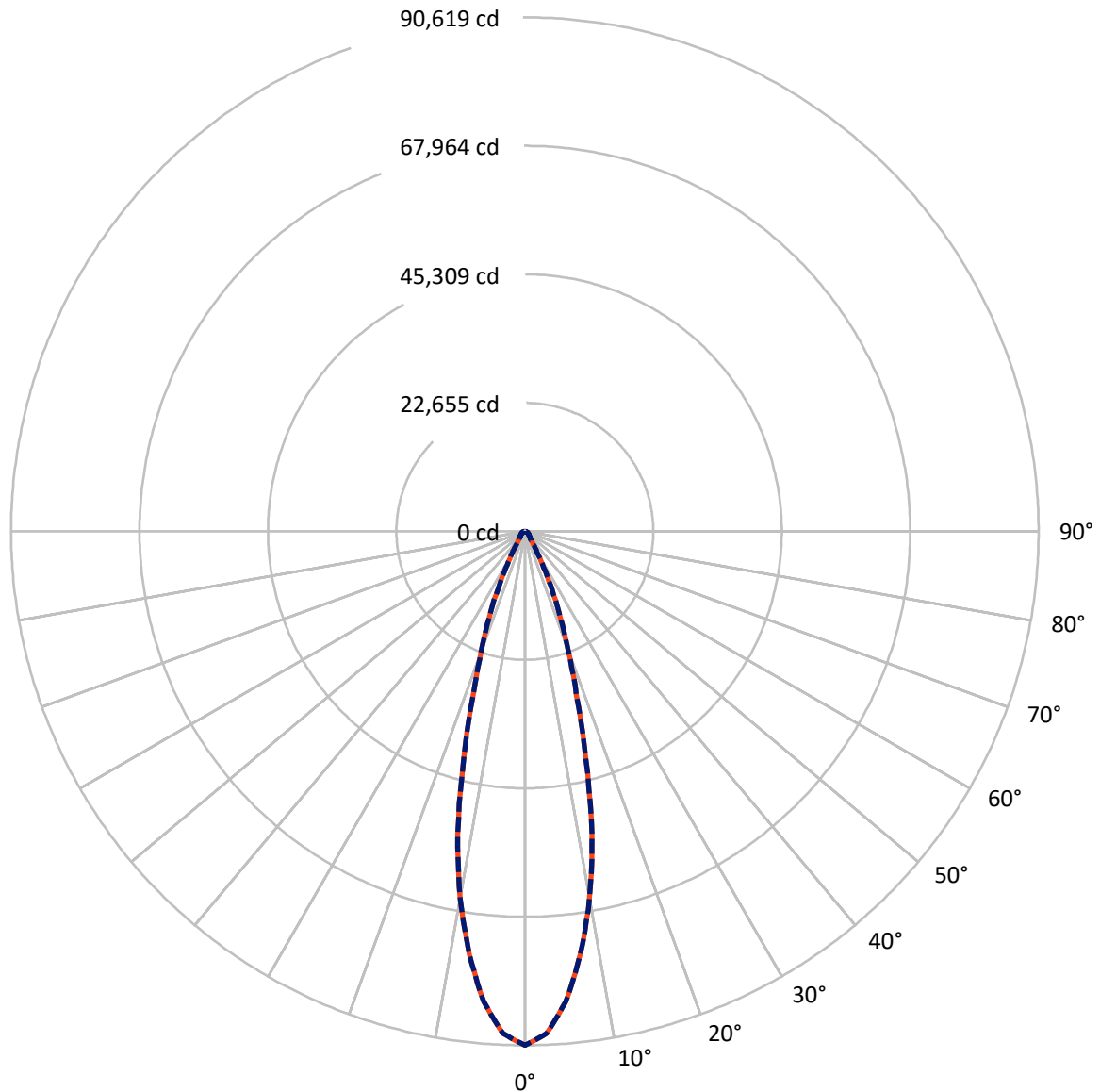
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Lumen Table



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Luminous Intensity Polar Plot

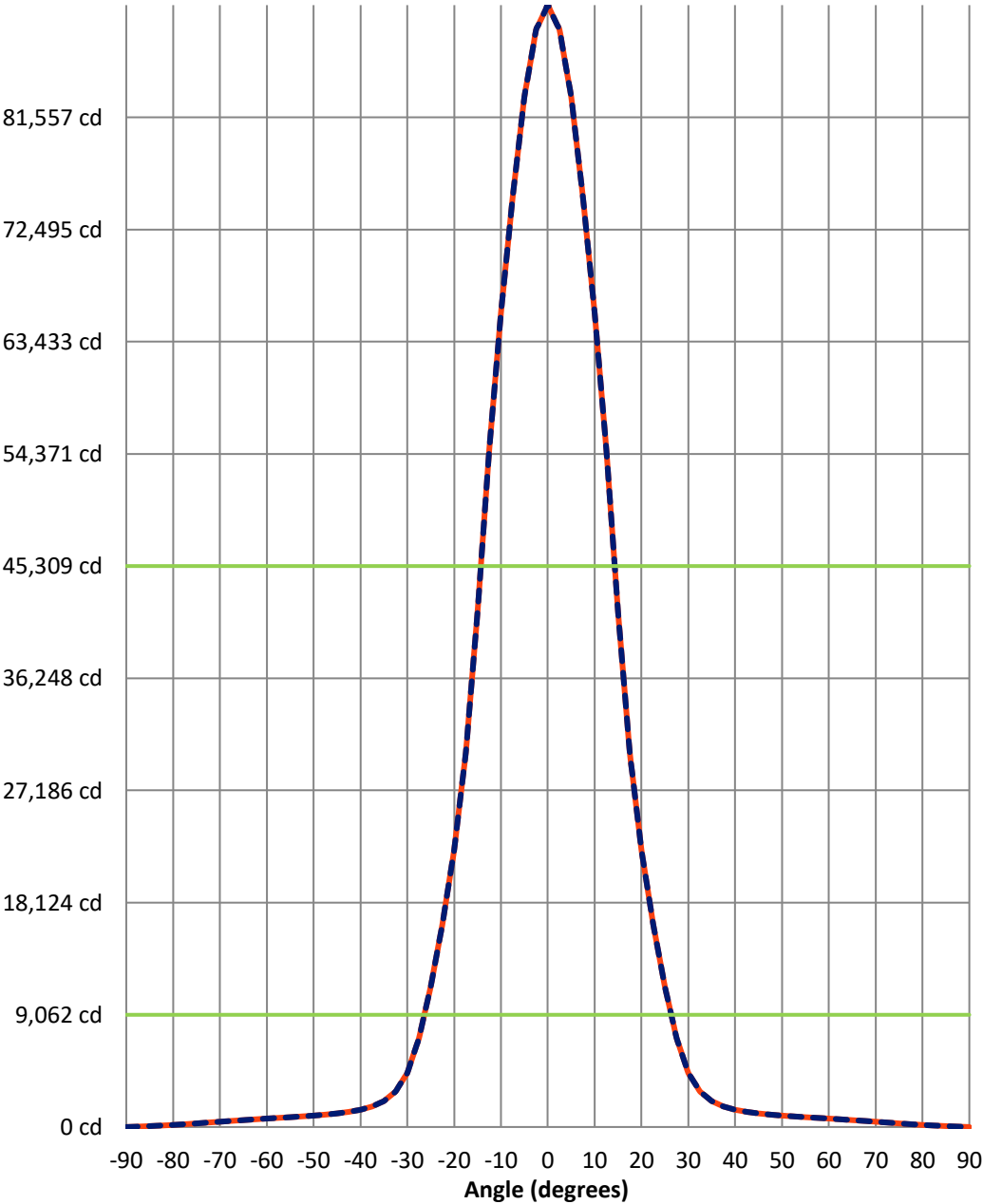


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 28.6°
V Angle: 28.6°
Lumens: 10111.8
Efficiency: 36.1%

Field:
H Angle: 52.7°
V Angle: 52.7°
Lumens: 17075.1
Efficiency: 60.9%

Spill:
Lumens: 10949.4
Efficiency: 39.1%

— 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°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	29.2	29.2	29.2	29.2
85°	73.0	73.0	73.0	73.0	73.0	70.1	70.1	70.1	67.2	67.2	64.3
82.5°	116.9	116.9	116.9	116.9	114.0	114.0	111.0	111.0	108.1	108.1	105.2
80°	166.5	166.5	166.5	166.5	163.6	160.7	160.7	157.8	154.9	151.9	149.0
77.5°	225.0	225.0	225.0	222.1	219.1	219.1	216.2	210.4	207.5	201.6	198.7
75°	289.3	289.3	289.3	286.3	283.4	280.5	274.7	271.7	265.9	260.0	251.3
72.5°	359.4	359.4	359.4	356.5	350.6	347.7	341.9	336.0	330.2	321.4	312.6
70°	426.6	426.6	426.6	420.7	417.8	412.0	406.1	400.3	391.5	382.8	374.0
67.5°	493.8	493.8	493.8	488.0	485.0	479.2	473.3	464.6	455.8	444.1	435.4
65°	555.2	555.2	552.2	549.3	546.4	540.5	531.8	525.9	517.2	505.5	493.8
62.5°	619.4	619.4	616.5	613.6	607.7	601.9	593.1	584.4	572.7	561.0	549.3
60°	683.7	683.7	680.8	677.9	672.0	663.3	654.5	645.7	634.0	619.4	604.8
57.5°	736.3	736.3	733.4	730.5	724.6	718.8	710.0	701.2	689.6	677.9	660.3
55°	791.8	791.8	788.9	783.1	777.2	771.4	762.6	750.9	739.2	724.6	712.9
52.5°	856.1	856.1	853.2	847.3	838.6	829.8	818.1	803.5	788.9	774.3	756.8
50°	920.4	920.4	914.5	908.7	902.9	891.2	879.5	864.9	847.3	829.8	809.4
47.5°	999.3	999.3	993.4	984.7	973.0	961.3	943.8	923.3	905.8	885.3	862.0
45°	1095.7	1095.7	1086.9	1078.2	1063.6	1043.1	1022.7	999.3	973.0	946.7	917.5
42.5°	1221.3	1221.3	1209.7	1195.0	1174.6	1148.3	1116.2	1084.0	1051.9	1016.8	981.7
40°	1390.8	1390.8	1373.3	1352.8	1320.7	1282.7	1235.9	1192.1	1148.3	1098.6	1054.8
37.5°	1656.7	1656.7	1627.5	1589.5	1536.9	1472.6	1393.7	1335.3	1268.1	1203.8	1145.4
35°	2092.1	2092.1	2039.5	1972.3	1878.8	1761.9	1636.2	1536.9	1425.9	1335.3	1250.6
32.5°	2866.4	2866.4	2761.2	2629.7	2451.4	2223.5	2013.2	1837.9	1656.7	1516.4	1382.0
30°	4365.3	4365.3	4140.3	3862.7	3479.9	3000.8	2641.4	2305.4	1998.6	1767.7	1572.0
27.5°	7179.0	7062.2	6711.5	6135.9	5347.0	4365.3	3740.0	3030.0	2544.9	2103.7	1832.0
25°	11333.9	11141.1	10562.5	9618.8	8333.2	6875.2	5598.3	4251.3	3401.1	2667.7	2162.2
22.5°	16382.9	16117.0	15331.0	14048.3	12309.8	10369.7	8303.9	6366.7	4642.8	3526.7	2667.7
20°	22361.0	22004.6	20949.8	19237.6	16935.1	14466.2	11707.9	9113.3	6626.8	4642.8	3401.1
17.5°	30253.0	29709.5	28111.3	25540.0	22361.0	19033.0	15585.2	12236.8	9113.3	6366.7	4251.3
15°	41598.6	40681.2	37998.9	33738.8	28789.2	24149.2	19751.8	15585.2	11707.9	8303.9	5598.3
12.5°	54714.9	53438.0	49741.9	43977.0	37250.9	29914.1	24149.2	19033.0	14466.2	10369.7	6875.2
10°	65765.4	64418.4	60599.5	54817.2	46288.2	37250.9	28789.2	22361.0	16935.1	12309.8	8333.2
7.5°	75100.8	73593.1	69476.2	63150.3	54817.2	43977.0	33738.8	25540.0	19237.6	14048.3	9618.8
5°	83208.9	81298.0	76506.2	69476.2	60599.5	49741.9	37998.9	28111.3	20949.8	15331.0	10562.5
2.5°	88626.1	86382.1	81298.0	73593.1	64418.4	53438.0	40681.2	29709.5	22004.6	16117.0	11141.1
0°	90618.8	88626.1	83208.9	75100.8	65765.4	54714.9	41598.6	30253.0	22361.0	16382.9	11333.9

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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°	29.2	29.2	26.3	26.3	26.3	23.4	23.4	23.4	20.5	20.5	20.5
85°	64.3	61.4	61.4	58.4	55.5	52.6	52.6	49.7	46.7	43.8	40.9
82.5°	102.3	99.3	96.4	93.5	90.6	84.7	81.8	78.9	73.0	70.1	67.2
80°	143.2	140.2	134.4	131.5	125.6	119.8	114.0	108.1	102.3	96.4	90.6
77.5°	192.8	184.1	178.2	172.4	163.6	157.8	149.0	143.2	134.4	125.6	116.9
75°	245.4	236.7	227.9	219.1	210.4	198.7	189.9	178.2	169.5	157.8	149.0
72.5°	303.9	292.2	280.5	268.8	257.1	245.4	233.7	219.1	207.5	192.8	178.2
70°	362.3	350.6	338.9	324.3	309.7	295.1	280.5	263.0	248.4	230.8	213.3
67.5°	423.7	409.1	394.5	379.8	365.2	347.7	327.2	309.7	289.3	268.8	251.3
65°	482.1	467.5	450.0	432.4	414.9	397.4	376.9	356.5	333.1	309.7	289.3
62.5°	534.7	520.1	505.5	485.0	467.5	447.0	426.6	400.3	376.9	353.5	327.2
60°	590.2	572.7	555.2	534.7	514.2	493.8	470.4	444.1	420.7	391.5	365.2
57.5°	642.8	625.3	604.8	584.4	561.0	537.6	514.2	488.0	461.7	432.4	403.2
55°	695.4	677.9	657.4	634.0	607.7	581.5	555.2	528.9	502.6	470.4	438.3
52.5°	739.2	721.7	701.2	683.7	654.5	628.2	599.0	566.8	537.6	505.5	473.3
50°	786.0	765.5	742.2	721.7	698.3	672.0	639.9	607.7	572.7	540.5	505.5
47.5°	838.6	812.3	786.0	759.7	736.3	707.1	680.8	645.7	610.7	572.7	537.6
45°	891.2	862.0	832.7	800.6	771.4	742.2	712.9	683.7	645.7	607.7	566.8
42.5°	946.7	911.6	879.5	847.3	812.3	777.2	745.1	712.9	680.8	639.9	599.0
40°	1011.0	970.1	929.2	891.2	856.1	815.2	777.2	742.2	707.1	672.0	628.2
37.5°	1084.0	1034.3	984.7	937.9	894.1	856.1	812.3	771.4	736.3	698.3	654.5
35°	1177.5	1104.5	1046.0	987.6	937.9	891.2	847.3	800.6	759.7	721.7	683.7
32.5°	1282.7	1192.1	1113.2	1046.0	984.7	929.2	879.5	832.7	786.0	742.2	701.2
30°	1411.3	1294.4	1192.1	1104.5	1034.3	970.1	911.6	862.0	812.3	765.5	721.7
27.5°	1592.4	1411.3	1282.7	1177.5	1084.0	1011.0	946.7	891.2	838.6	786.0	739.2
25°	1832.0	1572.0	1382.0	1250.6	1145.4	1054.8	981.7	917.5	862.0	809.4	756.8
22.5°	2103.7	1767.7	1516.4	1335.3	1203.8	1098.6	1016.8	946.7	885.3	829.8	774.3
20°	2544.9	1998.6	1656.7	1425.9	1268.1	1148.3	1051.9	973.0	905.8	847.3	788.9
17.5°	3030.0	2305.4	1837.9	1536.9	1335.3	1192.1	1084.0	999.3	923.3	864.9	803.5
15°	3740.0	2641.4	2013.2	1636.2	1393.7	1235.9	1116.2	1022.7	943.8	879.5	818.1
12.5°	4365.3	3000.8	2223.5	1761.9	1472.6	1282.7	1148.3	1043.1	961.3	891.2	829.8
10°	5347.0	3479.9	2451.4	1878.8	1536.9	1320.7	1174.6	1063.6	973.0	902.9	838.6
7.5°	6135.9	3862.7	2629.7	1972.3	1589.5	1352.8	1195.0	1078.2	984.7	908.7	847.3
5°	6711.5	4140.3	2761.2	2039.5	1627.5	1373.3	1209.7	1086.9	993.4	914.5	853.2
2.5°	7062.2	4365.3	2866.4	2092.1	1656.7	1390.8	1221.3	1095.7	999.3	920.4	856.1
0°	7179.0	4365.3	2866.4	2092.1	1656.7	1390.8	1221.3	1095.7	999.3	920.4	856.1

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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°	17.5	17.5	14.6	14.6	14.6	11.7	11.7	8.8	8.8	5.8	5.8
85°	38.0	35.1	32.1	29.2	26.3	23.4	23.4	20.5	17.5	14.6	11.7
82.5°	61.4	58.4	52.6	46.7	43.8	38.0	32.1	29.2	26.3	20.5	17.5
80°	84.7	78.9	73.0	67.2	61.4	52.6	46.7	40.9	32.1	26.3	23.4
77.5°	111.0	102.3	93.5	84.7	76.0	70.1	61.4	52.6	43.8	35.1	26.3
75°	137.3	125.6	116.9	105.2	96.4	84.7	73.0	64.3	55.5	43.8	32.1
72.5°	166.5	151.9	140.2	125.6	114.0	102.3	87.7	76.0	64.3	52.6	40.9
70°	198.7	181.2	163.6	149.0	134.4	116.9	102.3	87.7	73.0	61.4	46.7
67.5°	230.8	210.4	189.9	169.5	151.9	134.4	116.9	102.3	84.7	70.1	52.6
65°	263.0	239.6	219.1	195.8	172.4	151.9	134.4	114.0	96.4	76.0	61.4
62.5°	298.0	271.7	245.4	219.1	195.8	169.5	149.0	125.6	105.2	84.7	67.2
60°	336.0	306.8	274.7	245.4	219.1	189.9	163.6	140.2	116.9	93.5	73.0
57.5°	371.1	338.9	306.8	271.7	239.6	210.4	181.2	151.9	125.6	102.3	78.9
55°	406.1	371.1	336.0	298.0	263.0	230.8	198.7	166.5	137.3	111.0	84.7
52.5°	438.3	403.2	365.2	327.2	289.3	251.3	213.3	178.2	149.0	116.9	90.6
50°	470.4	432.4	391.5	353.5	309.7	268.8	230.8	192.8	157.8	125.6	96.4
47.5°	502.6	461.7	420.7	376.9	333.1	289.3	248.4	207.5	169.5	134.4	102.3
45°	528.9	488.0	444.1	400.3	356.5	309.7	263.0	219.1	178.2	143.2	108.1
42.5°	555.2	514.2	470.4	426.6	376.9	327.2	280.5	233.7	189.9	149.0	114.0
40°	581.5	537.6	493.8	447.0	397.4	347.7	295.1	245.4	198.7	157.8	119.8
37.5°	607.7	561.0	514.2	467.5	414.9	365.2	309.7	257.1	210.4	163.6	125.6
35°	634.0	584.4	534.7	485.0	432.4	379.8	324.3	268.8	219.1	172.4	131.5
32.5°	657.4	604.8	555.2	505.5	450.0	394.5	338.9	280.5	227.9	178.2	134.4
30°	677.9	625.3	572.7	520.1	467.5	409.1	350.6	292.2	236.7	184.1	140.2
27.5°	695.4	642.8	590.2	534.7	482.1	423.7	362.3	303.9	245.4	192.8	143.2
25°	712.9	660.3	604.8	549.3	493.8	435.4	374.0	312.6	251.3	198.7	149.0
22.5°	724.6	677.9	619.4	561.0	505.5	444.1	382.8	321.4	260.0	201.6	151.9
20°	739.2	689.6	634.0	572.7	517.2	455.8	391.5	330.2	265.9	207.5	154.9
17.5°	750.9	701.2	645.7	584.4	525.9	464.6	400.3	336.0	271.7	210.4	157.8
15°	762.6	710.0	654.5	593.1	531.8	473.3	406.1	341.9	274.7	216.2	160.7
12.5°	771.4	718.8	663.3	601.9	540.5	479.2	412.0	347.7	280.5	219.1	160.7
10°	777.2	724.6	672.0	607.7	546.4	485.0	417.8	350.6	283.4	219.1	163.6
7.5°	783.1	730.5	677.9	613.6	549.3	488.0	420.7	356.5	286.3	222.1	166.5
5°	788.9	733.4	680.8	616.5	552.2	493.8	426.6	359.4	289.3	225.0	166.5
2.5°	791.8	736.3	683.7	619.4	555.2	493.8	426.6	359.4	289.3	225.0	166.5
0°	791.8	736.3	683.7	619.4	555.2	493.8	426.6	359.4	289.3	225.0	166.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.9	2.9	0.0	0.0
85°	8.8	5.8	2.9	0.0
82.5°	11.7	8.8	2.9	0.0
80°	17.5	11.7	5.8	0.0
77.5°	20.5	14.6	5.8	0.0
75°	26.3	17.5	8.8	0.0
72.5°	29.2	20.5	8.8	0.0
70°	32.1	23.4	11.7	0.0
67.5°	38.0	23.4	11.7	0.0
65°	43.8	26.3	14.6	0.0
62.5°	46.7	29.2	14.6	0.0
60°	52.6	32.1	14.6	0.0
57.5°	58.4	35.1	17.5	0.0
55°	61.4	38.0	17.5	0.0
52.5°	67.2	40.9	20.5	0.0
50°	70.1	43.8	20.5	0.0
47.5°	73.0	46.7	20.5	0.0
45°	78.9	49.7	23.4	0.0
42.5°	81.8	52.6	23.4	0.0
40°	84.7	52.6	23.4	0.0
37.5°	90.6	55.5	26.3	0.0
35°	93.5	58.4	26.3	0.0
32.5°	96.4	61.4	26.3	0.0
30°	99.3	61.4	29.2	0.0
27.5°	102.3	64.3	29.2	0.0
25°	105.2	64.3	29.2	0.0
22.5°	108.1	67.2	29.2	0.0
20°	108.1	67.2	29.2	0.0
17.5°	111.0	70.1	29.2	0.0
15°	111.0	70.1	32.1	0.0
12.5°	114.0	70.1	32.1	0.0
10°	114.0	73.0	32.1	0.0
7.5°	116.9	73.0	32.1	0.0
5°	116.9	73.0	32.1	0.0
2.5°	116.9	73.0	32.1	0.0
0°	116.9	73.0	32.1	0.0

(END OF REPORT)