

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: P623560

Luminaire Tested: **IFLD-S-SA6A-722-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623560
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-722-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

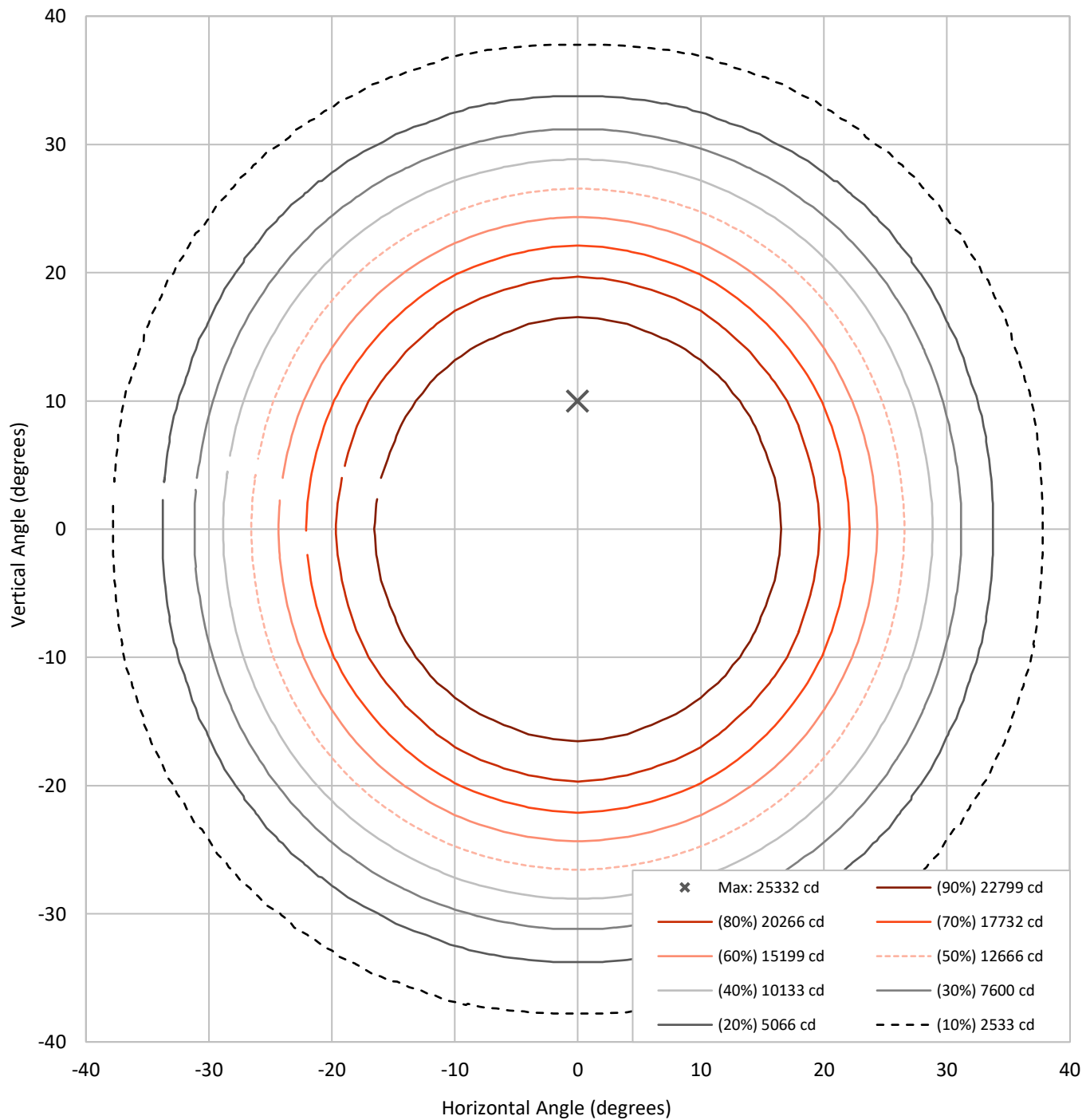
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	20729.2 lumens	Max Intensity:	25332 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	109.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	10302.9 lumens	Field Lumens:	13399.3 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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



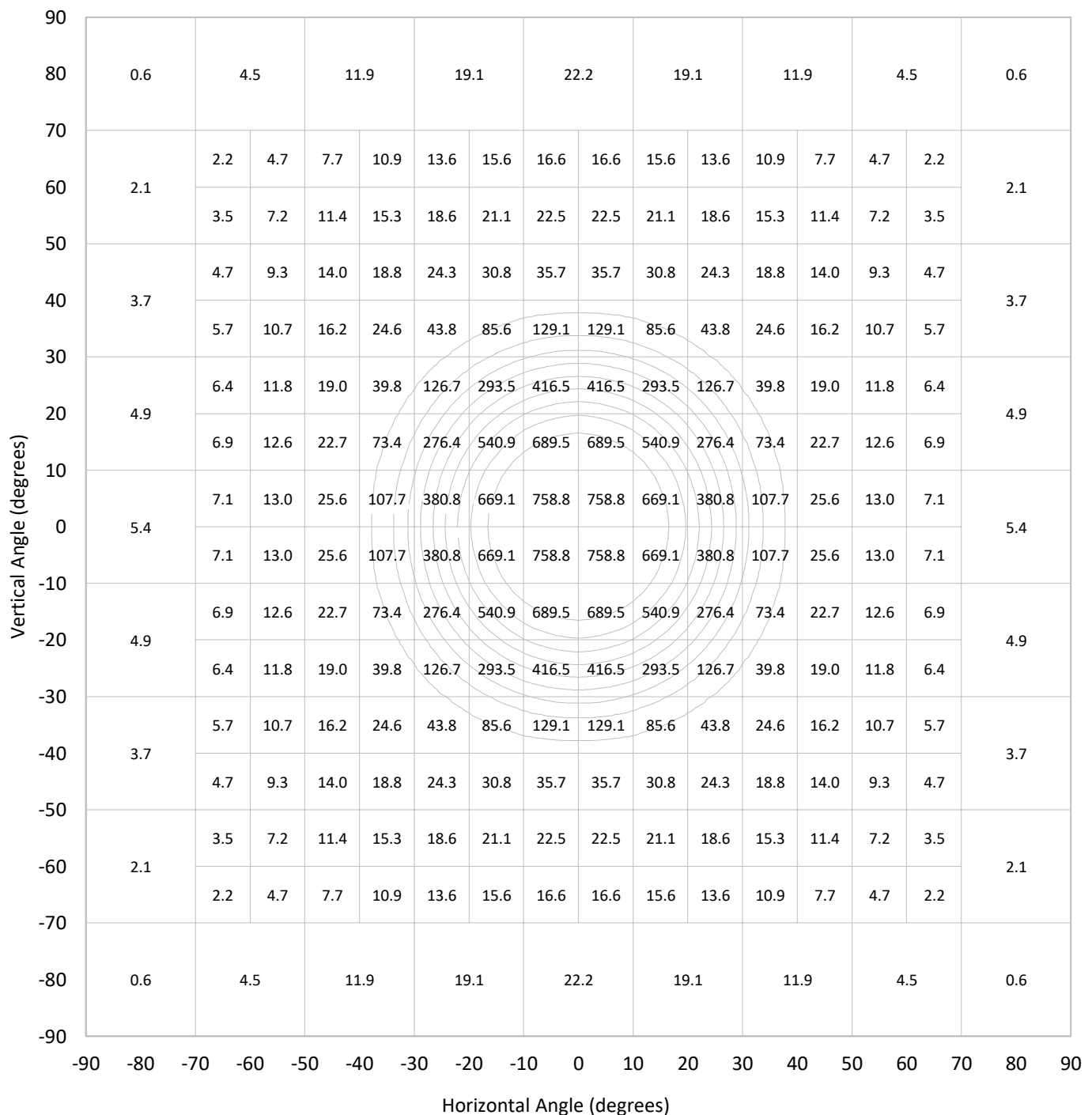
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Iso-Candela Plot



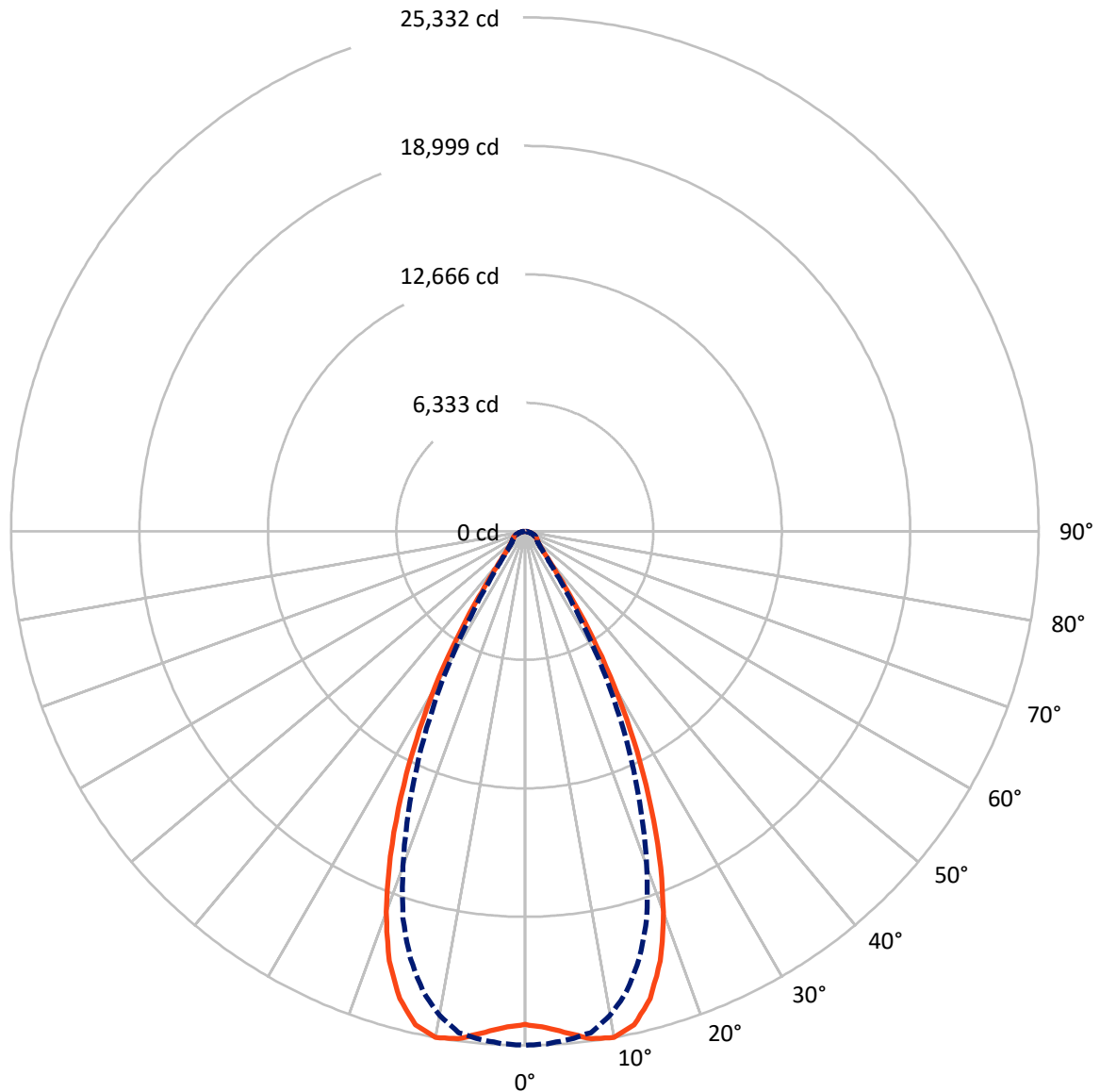
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Lumen Table



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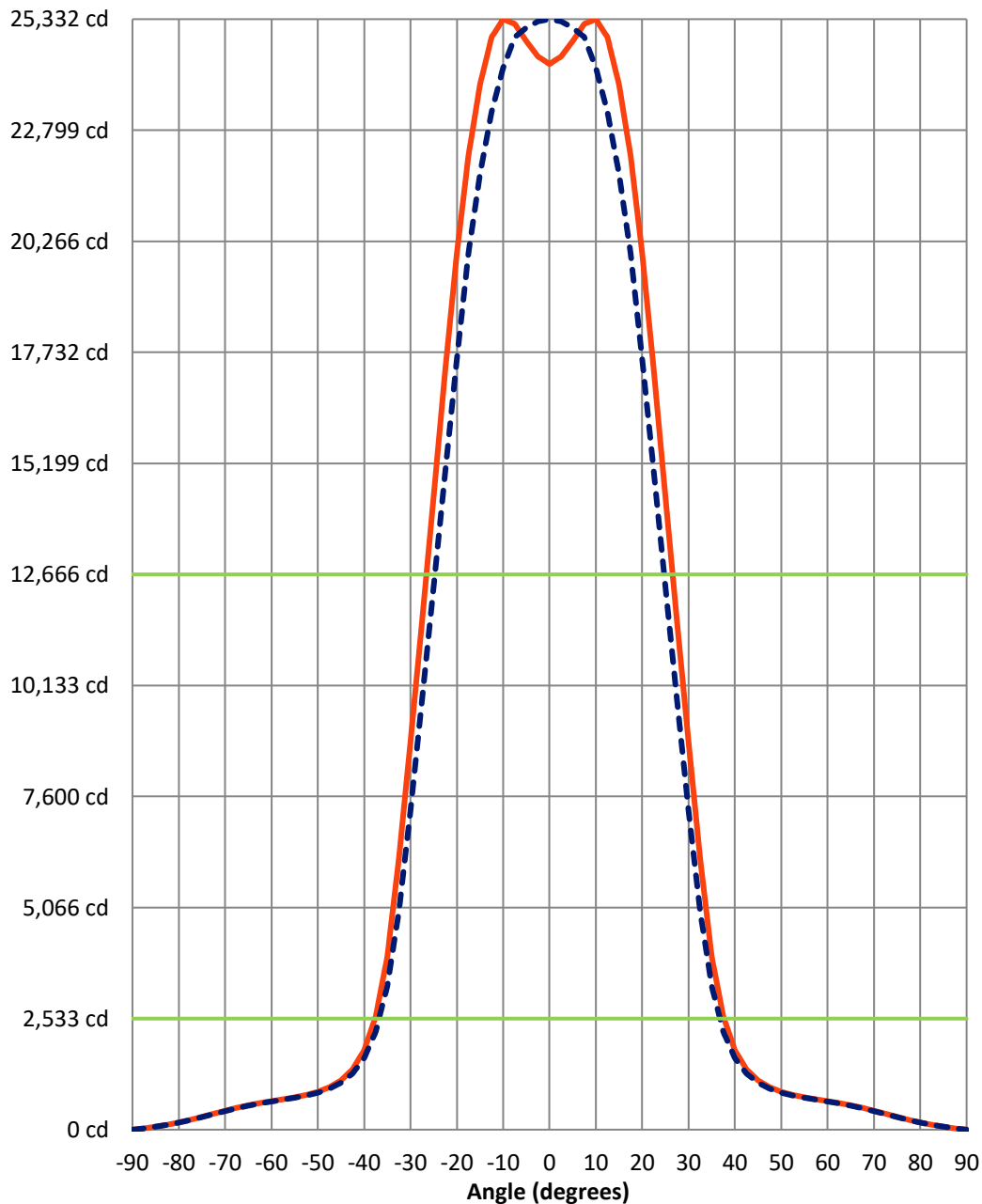
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 10302.9
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 13399.3
Efficiency: 64.6%

Spill:

Lumens: 7329.9
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-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°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	25.8	25.8	25.8	25.8
85°	68.9	68.9	68.9	68.9	68.9	66.8	66.8	64.6	64.6	62.4	60.3
82.5°	112.0	112.0	112.0	112.0	109.8	109.8	107.7	105.5	103.4	101.2	99.1
80°	163.7	163.7	163.7	163.7	161.5	159.3	157.2	155.0	150.7	148.6	144.3
77.5°	223.9	223.9	223.9	221.8	219.6	217.5	213.2	208.9	204.6	200.3	196.0
75°	292.9	292.9	292.9	288.5	286.4	282.1	277.8	273.5	267.0	260.6	254.1
72.5°	363.9	363.9	363.9	359.6	355.3	351.0	346.7	340.2	333.8	325.2	316.5
70°	430.7	430.7	430.7	426.4	422.1	417.7	411.3	404.8	396.2	387.6	379.0
67.5°	499.6	499.6	499.6	493.1	488.8	484.5	478.0	469.4	460.8	450.0	439.3
65°	555.6	555.6	553.4	551.3	547.0	540.5	536.2	527.6	519.0	510.3	499.6
62.5°	607.2	607.2	605.1	602.9	598.6	592.2	585.7	579.3	570.6	559.9	549.1
60°	650.3	650.3	648.2	646.0	641.7	637.4	630.9	624.5	615.9	607.2	596.5
57.5°	693.4	693.4	691.2	689.1	684.8	678.3	671.8	665.4	656.8	646.0	635.2
55°	738.6	738.6	736.4	732.1	727.8	721.4	714.9	706.3	695.5	684.8	674.0
52.5°	792.4	792.4	788.1	783.8	777.4	770.9	760.1	749.4	736.4	723.5	710.6
50°	863.5	863.5	859.2	852.7	842.0	831.2	818.3	801.0	786.0	768.7	751.5
47.5°	969.0	969.0	960.4	949.6	934.6	917.3	893.6	867.8	846.3	824.7	798.9
45°	1124.0	1124.0	1111.1	1093.9	1070.2	1040.1	1005.6	969.0	932.4	895.8	859.2
42.5°	1376.0	1376.0	1352.3	1322.2	1281.2	1229.6	1165.0	1104.7	1053.0	994.8	945.3
40°	1811.0	1811.0	1765.7	1709.8	1632.2	1533.2	1414.7	1320.0	1229.6	1128.4	1059.4
37.5°	2584.0	2584.0	2495.7	2388.1	2237.3	2047.8	1819.6	1666.7	1498.7	1339.4	1223.1
35°	3949.2	3949.2	3779.1	3570.3	3279.5	2913.5	2523.7	2235.2	1914.3	1668.8	1451.4
32.5°	6188.7	6188.7	5882.9	5506.1	4987.2	4330.4	3705.9	3156.8	2584.0	2177.0	1785.1
30°	8850.3	8850.3	8449.7	7956.6	7280.5	6427.7	5538.4	4562.9	3658.5	2932.9	2340.7
27.5°	11602.2	11488.1	11143.6	10581.5	9810.7	8850.3	7741.3	6481.6	5258.5	3979.4	3133.1
25°	14449.0	14315.5	13921.4	13275.4	12392.5	11305.1	10056.1	8647.8	7138.3	5613.8	4149.5
22.5°	17325.8	17175.1	16727.2	15997.2	15006.7	13787.9	12373.1	10807.7	9121.6	7360.1	5613.8
20°	19985.2	19825.9	19356.4	18596.3	17571.3	16234.1	14662.1	12926.5	11061.7	9121.6	7138.3
17.5°	22211.8	22058.9	21606.7	20881.0	19985.2	18505.9	16871.5	14963.6	12926.5	10807.7	8647.8
15°	23837.6	23706.2	23320.8	22711.4	21798.3	20489.1	18824.6	16871.5	14662.1	12373.1	10056.1
12.5°	24916.4	24810.9	24507.2	24033.5	23215.2	22117.0	20489.1	18505.9	16234.1	13787.9	11305.1
10°	25332.0	25280.3	25138.2	24920.7	24223.0	23215.2	21798.3	19985.2	17571.3	15006.7	12392.5
7.5°	25222.2	25239.4	25288.9	25232.9	24920.7	24033.5	22711.4	20881.0	18596.3	15997.2	13275.4
5°	24830.2	24922.8	25153.3	25288.9	25138.2	24507.2	23320.8	21606.7	19356.4	16727.2	13921.4
2.5°	24481.4	24625.7	24922.8	25239.4	25280.3	24810.9	23706.2	22058.9	19825.9	17175.1	14315.5
0°	24309.1	24481.4	24830.2	25222.2	25332.0	24916.4	23837.6	22211.8	19985.2	17325.8	14449.0

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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°	25.8	23.7	23.7	23.7	21.5	21.5	21.5	19.4	19.4	17.2	17.2
85°	60.3	58.1	56.0	53.8	51.7	49.5	47.4	45.2	43.1	38.8	36.6
82.5°	96.9	94.7	92.6	88.3	86.1	81.8	77.5	73.2	68.9	66.8	62.4
80°	140.0	135.7	131.4	127.0	120.6	114.1	109.8	103.4	99.1	92.6	88.3
77.5°	189.5	183.0	176.6	168.0	161.5	155.0	146.4	140.0	131.4	122.7	114.1
75°	245.5	236.9	226.1	217.5	208.9	198.1	187.3	176.6	165.8	155.0	144.3
72.5°	305.8	295.0	284.2	273.5	260.6	245.5	232.6	217.5	204.6	191.6	176.6
70°	368.2	355.3	342.4	329.5	314.4	297.2	282.1	264.9	247.6	230.4	213.2
67.5°	426.4	413.4	398.4	385.4	368.2	351.0	331.6	312.2	292.9	271.3	249.8
65°	486.7	471.6	454.4	437.1	419.9	400.5	381.1	361.8	338.1	314.4	292.9
62.5°	536.2	523.3	508.2	491.0	471.6	450.0	430.7	404.8	381.1	357.5	329.5
60°	583.6	568.5	555.6	536.2	519.0	499.6	475.9	450.0	424.2	396.2	370.4
57.5°	624.5	611.6	596.5	579.3	559.9	540.5	519.0	495.3	465.1	437.1	407.0
55°	661.1	646.0	630.9	615.9	598.6	577.1	555.6	531.9	506.0	475.9	443.6
52.5°	697.7	682.6	665.4	650.3	630.9	611.6	590.0	566.3	540.5	512.5	478.0
50°	734.3	717.1	699.8	680.5	661.1	641.7	620.2	598.6	570.6	542.6	512.5
47.5°	777.4	755.8	734.3	712.8	693.4	669.7	648.2	624.5	600.8	570.6	540.5
45°	831.2	798.9	773.1	747.2	723.5	699.8	674.0	650.3	624.5	598.6	566.3
42.5°	897.9	854.9	820.4	786.0	755.8	727.8	702.0	674.0	648.2	620.2	590.0
40°	988.4	930.2	874.3	831.2	792.4	758.0	727.8	699.8	669.7	641.7	611.6
37.5°	1106.8	1025.0	947.5	885.0	835.5	792.4	755.8	723.5	693.4	661.1	630.9
35°	1285.5	1143.4	1044.4	953.9	885.0	831.2	786.0	747.2	712.8	680.5	650.3
32.5°	1537.5	1317.8	1158.5	1044.4	947.5	874.3	820.4	773.1	734.3	699.8	665.4
30°	1869.1	1565.5	1317.8	1143.4	1025.0	930.2	854.9	798.9	755.8	717.1	682.6
27.5°	2394.5	1869.1	1537.5	1285.5	1106.8	988.4	897.9	831.2	777.4	734.3	697.7
25°	3133.1	2340.7	1785.1	1451.4	1223.1	1059.4	945.3	859.2	798.9	751.5	710.6
22.5°	3979.4	2932.9	2177.0	1668.8	1339.4	1128.4	994.8	895.8	824.7	768.7	723.5
20°	5258.5	3658.5	2584.0	1914.3	1498.7	1229.6	1053.0	932.4	846.3	786.0	736.4
17.5°	6481.6	4562.9	3156.8	2235.2	1666.7	1320.0	1104.7	969.0	867.8	801.0	749.4
15°	7741.3	5538.4	3705.9	2523.7	1819.6	1414.7	1165.0	1005.6	893.6	818.3	760.1
12.5°	8850.3	6427.7	4330.4	2913.5	2047.8	1533.2	1229.6	1040.1	917.3	831.2	770.9
10°	9810.7	7280.5	4987.2	3279.5	2237.3	1632.2	1281.2	1070.2	934.6	842.0	777.4
7.5°	10581.5	7956.6	5506.1	3570.3	2388.1	1709.8	1322.2	1093.9	949.6	852.7	783.8
5°	11143.6	8449.7	5882.9	3779.1	2495.7	1765.7	1352.3	1111.1	960.4	859.2	788.1
2.5°	11488.1	8850.3	6188.7	3949.2	2584.0	1811.0	1376.0	1124.0	969.0	863.5	792.4
0°	11602.2	8850.3	6188.7	3949.2	2584.0	1811.0	1376.0	1124.0	969.0	863.5	792.4

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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°	15.1	15.1	12.9	12.9	10.8	10.8	8.6	8.6	6.5	6.5	4.3
85°	34.5	30.1	28.0	25.8	23.7	21.5	19.4	17.2	15.1	12.9	10.8
82.5°	58.1	53.8	47.4	43.1	38.8	34.5	28.0	25.8	21.5	17.2	15.1
80°	81.8	75.4	68.9	62.4	56.0	49.5	43.1	36.6	30.1	23.7	19.4
77.5°	105.5	96.9	90.4	81.8	73.2	64.6	56.0	47.4	38.8	30.1	23.7
75°	133.5	122.7	112.0	101.2	90.4	79.7	71.1	60.3	49.5	38.8	30.1
72.5°	163.7	148.6	135.7	122.7	107.7	96.9	84.0	73.2	60.3	47.4	36.6
70°	196.0	178.7	161.5	144.3	129.2	112.0	99.1	84.0	71.1	56.0	43.1
67.5°	228.3	208.9	189.5	168.0	148.6	131.4	112.0	96.9	79.7	64.6	49.5
65°	267.0	241.2	217.5	193.8	170.1	148.6	129.2	107.7	90.4	73.2	56.0
62.5°	303.6	275.6	247.6	219.6	193.8	168.0	144.3	122.7	101.2	81.8	62.4
60°	340.2	310.1	277.8	247.6	217.5	189.5	161.5	135.7	112.0	90.4	68.9
57.5°	376.8	342.4	310.1	275.6	241.2	208.9	178.7	148.6	122.7	96.9	75.4
55°	409.1	376.8	340.2	303.6	267.0	228.3	196.0	163.7	133.5	105.5	81.8
52.5°	443.6	407.0	370.4	329.5	292.9	249.8	213.2	176.6	144.3	114.1	88.3
50°	475.9	437.1	396.2	357.5	314.4	271.3	230.4	191.6	155.0	122.7	92.6
47.5°	506.0	465.1	424.2	381.1	338.1	292.9	247.6	204.6	165.8	131.4	99.1
45°	531.9	495.3	450.0	404.8	361.8	312.2	264.9	217.5	176.6	140.0	103.4
42.5°	555.6	519.0	475.9	430.7	381.1	331.6	282.1	232.6	187.3	146.4	109.8
40°	577.1	540.5	499.6	450.0	400.5	351.0	297.2	245.5	198.1	155.0	114.1
37.5°	598.6	559.9	519.0	471.6	419.9	368.2	314.4	260.6	208.9	161.5	120.6
35°	615.9	579.3	536.2	491.0	437.1	385.4	329.5	273.5	217.5	168.0	127.0
32.5°	630.9	596.5	555.6	508.2	454.4	398.4	342.4	284.2	226.1	176.6	131.4
30°	646.0	611.6	568.5	523.3	471.6	413.4	355.3	295.0	236.9	183.0	135.7
27.5°	661.1	624.5	583.6	536.2	486.7	426.4	368.2	305.8	245.5	189.5	140.0
25°	674.0	635.2	596.5	549.1	499.6	439.3	379.0	316.5	254.1	196.0	144.3
22.5°	684.8	646.0	607.2	559.9	510.3	450.0	387.6	325.2	260.6	200.3	148.6
20°	695.5	656.8	615.9	570.6	519.0	460.8	396.2	333.8	267.0	204.6	150.7
17.5°	706.3	665.4	624.5	579.3	527.6	469.4	404.8	340.2	273.5	208.9	155.0
15°	714.9	671.8	630.9	585.7	536.2	478.0	411.3	346.7	277.8	213.2	157.2
12.5°	721.4	678.3	637.4	592.2	540.5	484.5	417.7	351.0	282.1	217.5	159.3
10°	727.8	684.8	641.7	598.6	547.0	488.8	422.1	355.3	286.4	219.6	161.5
7.5°	732.1	689.1	646.0	602.9	551.3	493.1	426.4	359.6	288.5	221.8	163.7
5°	736.4	691.2	648.2	605.1	553.4	499.6	430.7	363.9	292.9	223.9	163.7
2.5°	738.6	693.4	650.3	607.2	555.6	499.6	430.7	363.9	292.9	223.9	163.7
0°	738.6	693.4	650.3	607.2	555.6	499.6	430.7	363.9	292.9	223.9	163.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.3	2.2	2.2	0.0
85°	6.5	4.3	2.2	0.0
82.5°	10.8	6.5	4.3	0.0
80°	15.1	10.8	4.3	0.0
77.5°	17.2	12.9	6.5	0.0
75°	21.5	15.1	6.5	0.0
72.5°	25.8	17.2	8.6	0.0
70°	28.0	19.4	8.6	0.0
67.5°	34.5	21.5	10.8	0.0
65°	38.8	23.7	10.8	0.0
62.5°	43.1	25.8	12.9	0.0
60°	47.4	28.0	12.9	0.0
57.5°	53.8	30.1	15.1	0.0
55°	58.1	34.5	15.1	0.0
52.5°	62.4	36.6	17.2	0.0
50°	66.8	38.8	17.2	0.0
47.5°	68.9	43.1	19.4	0.0
45°	73.2	45.2	19.4	0.0
42.5°	77.5	47.4	21.5	0.0
40°	81.8	49.5	21.5	0.0
37.5°	86.1	51.7	21.5	0.0
35°	88.3	53.8	23.7	0.0
32.5°	92.6	56.0	23.7	0.0
30°	94.7	58.1	23.7	0.0
27.5°	96.9	60.3	25.8	0.0
25°	99.1	60.3	25.8	0.0
22.5°	101.2	62.4	25.8	0.0
20°	103.4	64.6	25.8	0.0
17.5°	105.5	64.6	25.8	0.0
15°	107.7	66.8	28.0	0.0
12.5°	109.8	66.8	28.0	0.0
10°	109.8	68.9	28.0	0.0
7.5°	112.0	68.9	28.0	0.0
5°	112.0	68.9	28.0	0.0
2.5°	112.0	68.9	28.0	0.0
0°	112.0	68.9	28.0	0.0

(END OF REPORT)