

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: P623625

Luminaire Tested: **IFLD-M-SA4C-730-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623625
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	26994.8 lumens	Max Intensity:	32988.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	123.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

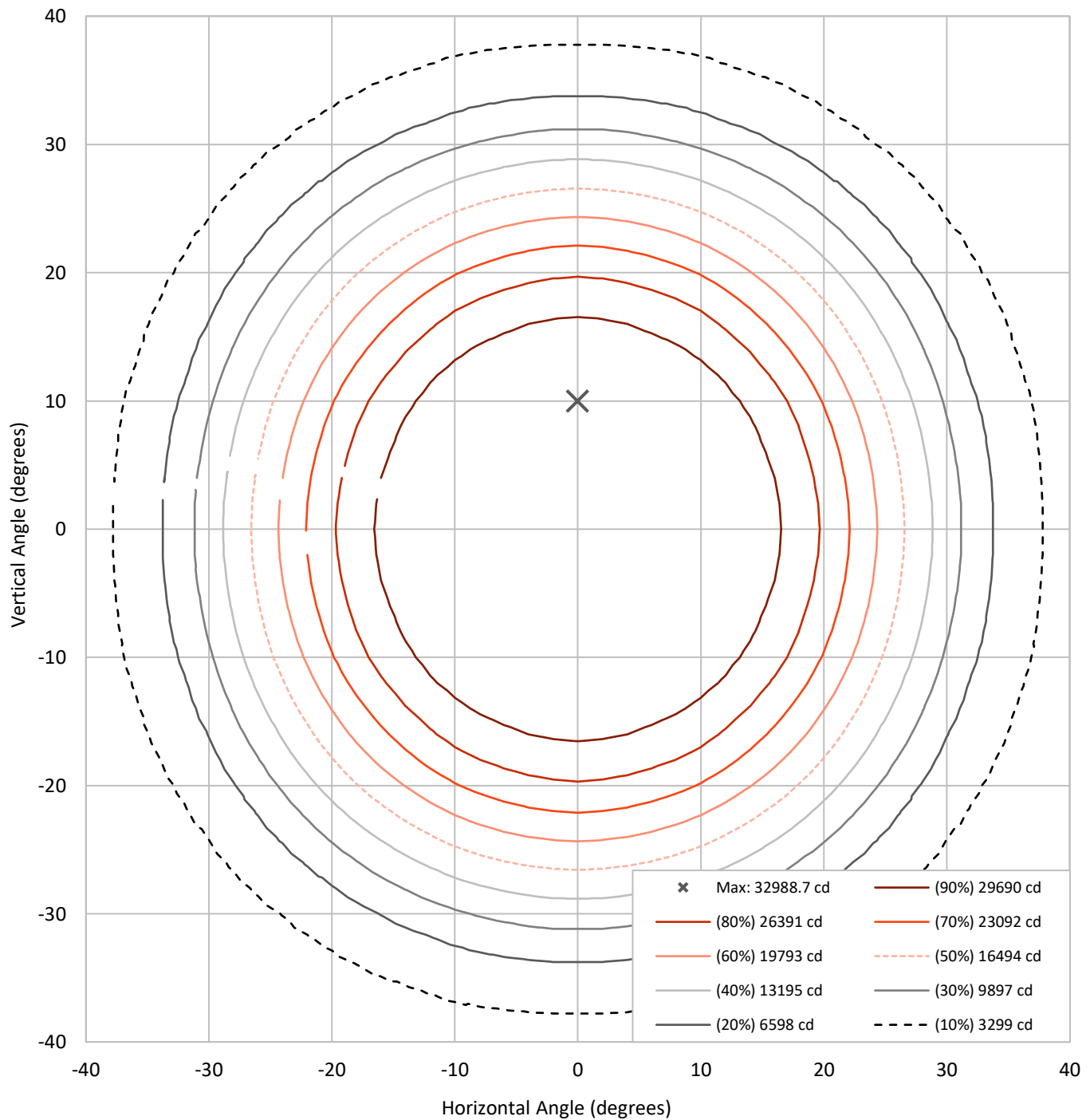
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	13417.1 lumens	Field Lumens:	17449.3 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (A_{in}): 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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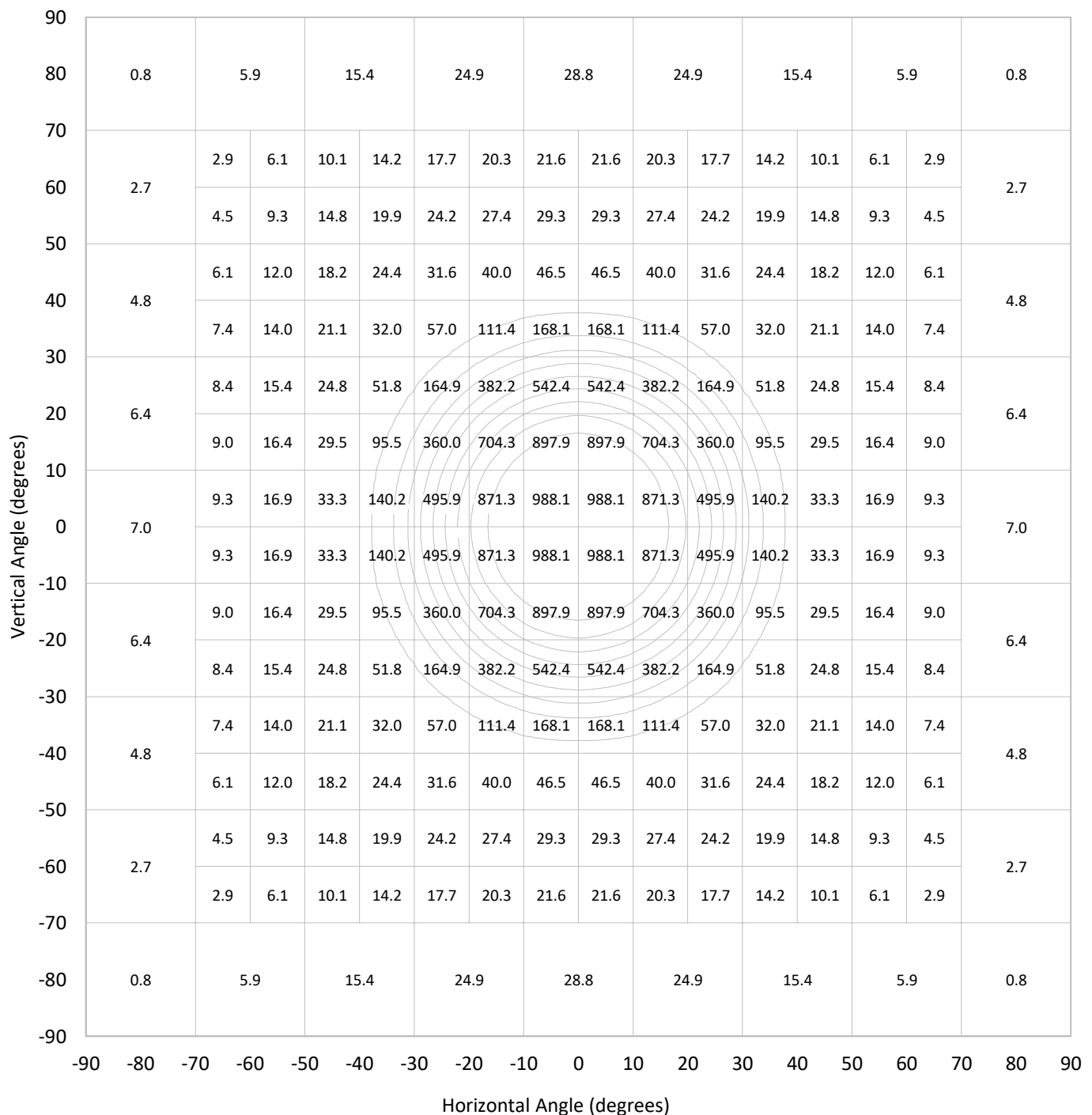
Iso-Candela Plot



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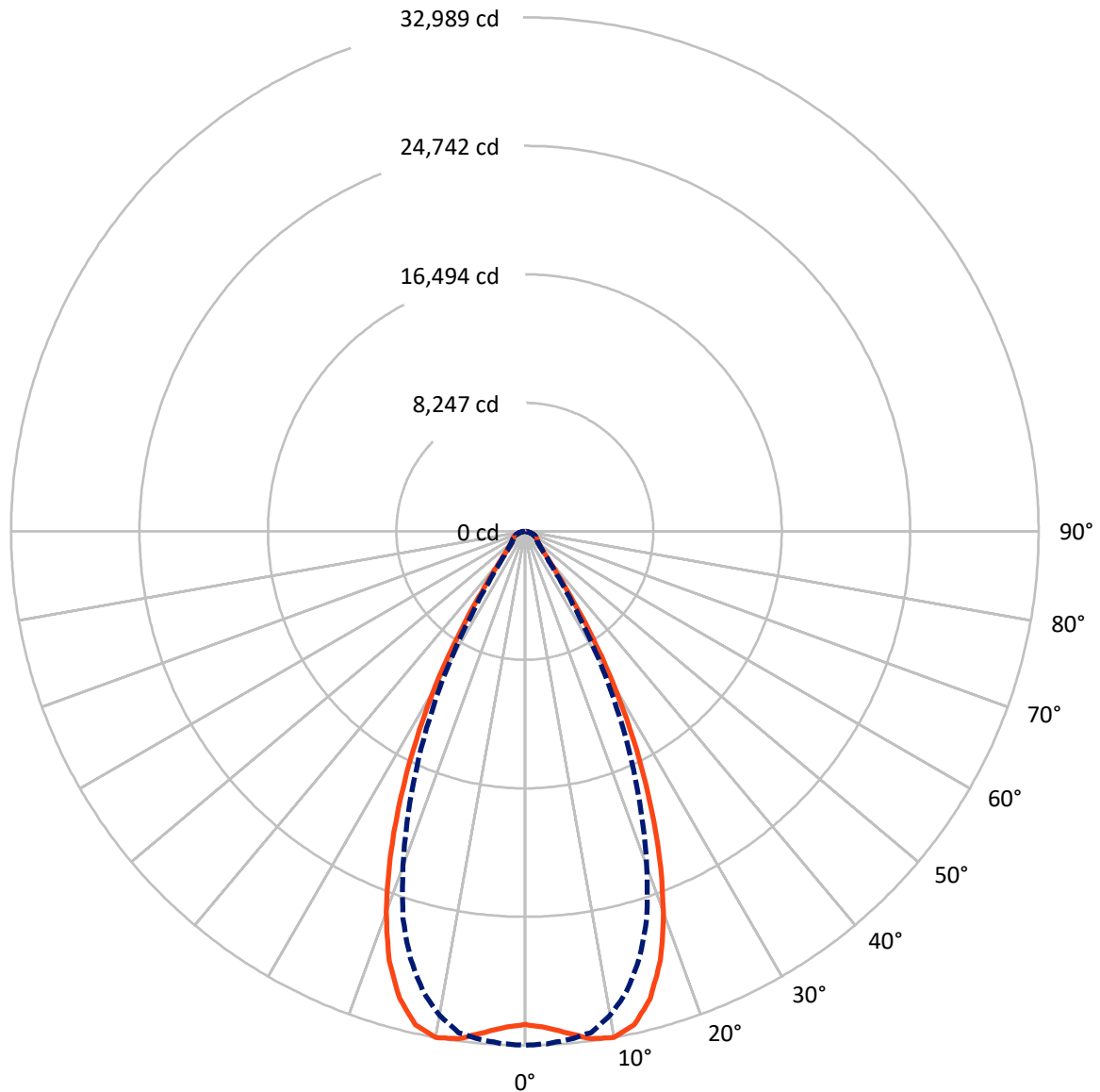
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Lumen Table



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Luminous Intensity Polar Plot

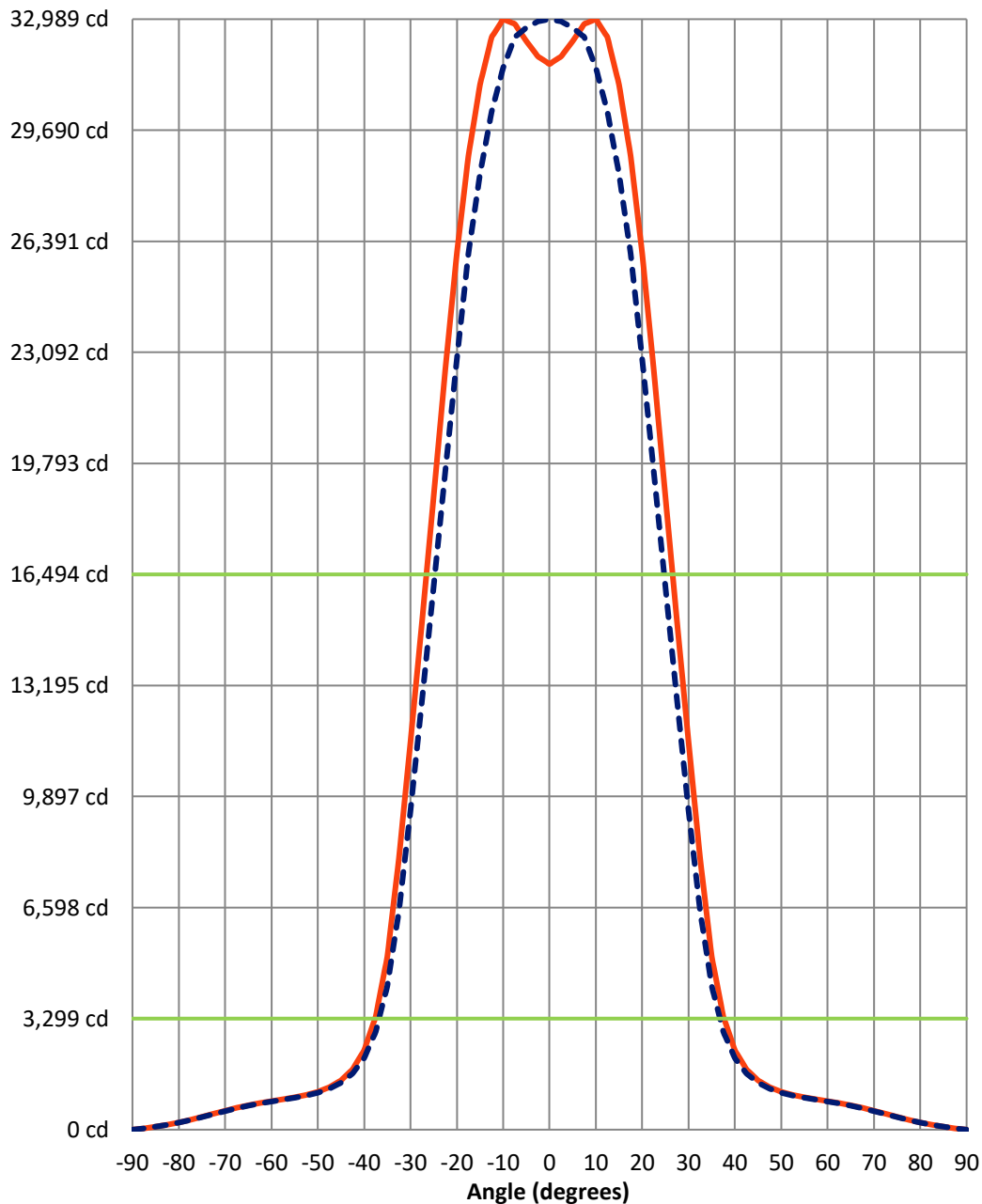


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 13417.1
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 17449.3
Efficiency: 64.6%

Spill:

Lumens: 9545.5
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°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	33.7	33.7	33.7	33.7
85°	89.7	89.7	89.7	89.7	89.7	86.9	86.9	84.1	84.1	81.3	78.5
82.5°	145.8	145.8	145.8	145.8	143.0	143.0	140.2	137.4	134.6	131.8	129.0
80°	213.1	213.1	213.1	213.1	210.3	207.5	204.7	201.9	196.3	193.5	187.9
77.5°	291.6	291.6	291.6	288.8	286.0	283.2	277.6	272.0	266.4	260.8	255.2
75°	381.4	381.4	381.4	375.8	373.0	367.4	361.7	356.1	347.7	339.3	330.9
72.5°	473.9	473.9	473.9	468.3	462.7	457.1	451.5	443.1	434.7	423.4	412.2
70°	560.8	560.8	560.8	555.2	549.6	544.0	535.6	527.2	516.0	504.8	493.5
67.5°	650.6	650.6	650.6	642.2	636.6	630.9	622.5	611.3	600.1	586.1	572.1
65°	723.5	723.5	720.7	717.9	712.3	703.9	698.2	687.0	675.8	664.6	650.6
62.5°	790.8	790.8	788.0	785.2	779.6	771.2	762.7	754.3	743.1	729.1	715.1
60°	846.9	846.9	844.1	841.3	835.7	830.0	821.6	813.2	802.0	790.8	776.8
57.5°	903.0	903.0	900.2	897.3	891.7	883.3	874.9	866.5	855.3	841.3	827.2
55°	961.8	961.8	959.0	953.4	947.8	939.4	931.0	919.8	905.8	891.7	877.7
52.5°	1031.9	1031.9	1026.3	1020.7	1012.3	1003.9	989.9	975.9	959.0	942.2	925.4
50°	1124.5	1124.5	1118.9	1110.5	1096.4	1082.4	1065.6	1043.2	1023.5	1001.1	978.7
47.5°	1261.9	1261.9	1250.7	1236.7	1217.0	1194.6	1163.7	1130.1	1102.1	1074.0	1040.4
45°	1463.8	1463.8	1447.0	1424.5	1393.7	1354.4	1309.6	1261.9	1214.2	1166.6	1118.9
42.5°	1791.9	1791.9	1761.0	1721.8	1668.5	1601.2	1517.1	1438.6	1371.3	1295.5	1231.0
40°	2358.3	2358.3	2299.5	2226.5	2125.6	1996.6	1842.4	1719.0	1601.2	1469.4	1379.7
37.5°	3365.1	3365.1	3250.1	3109.9	2913.6	2666.8	2369.6	2170.5	1951.7	1744.2	1592.8
35°	5142.9	5142.9	4921.4	4649.4	4270.8	3794.1	3286.5	2910.8	2492.9	2173.3	1890.0
32.5°	8059.3	8059.3	7661.1	7170.4	6494.6	5639.3	4826.0	4111.0	3365.1	2835.1	2324.7
30°	11525.3	11525.3	11003.7	10361.6	9481.0	8370.6	7212.4	5942.1	4764.4	3819.3	3048.2
27.5°	15109.1	14960.5	14511.8	13779.9	12776.0	11525.3	10081.1	8440.7	6847.9	5182.2	4080.1
25°	18816.3	18642.4	18129.2	17288.0	16138.2	14722.1	13095.7	11261.7	9296.0	7310.6	5403.7
22.5°	22562.7	22366.4	21783.1	20832.5	19542.5	17955.4	16113.0	14074.3	11878.6	9584.8	7310.6
20°	26025.9	25818.4	25207.1	24217.2	22882.4	21140.9	19093.9	16833.7	14405.2	11878.6	9296.0
17.5°	28925.4	28726.3	28137.5	27192.4	26025.9	24099.4	21971.0	19486.5	16833.7	14074.3	11261.7
15°	31042.6	30871.6	30369.6	29576.0	28387.0	26682.1	24514.4	21971.0	19093.9	16113.0	13095.7
12.5°	32447.5	32310.1	31914.7	31297.8	30232.2	28802.0	26682.1	24099.4	21140.9	17955.4	14722.1
10°	32988.7	32921.4	32736.4	32453.1	31544.6	30232.2	28387.0	26025.9	22882.4	19542.5	16138.2
7.5°	32845.7	32868.2	32932.7	32859.7	32453.1	31297.8	29576.0	27192.4	24217.2	20832.5	17288.0
5°	32335.4	32455.9	32756.0	32932.7	32736.4	31914.7	30369.6	28137.5	25207.1	21783.1	18129.2
2.5°	31881.1	32069.0	32455.9	32868.2	32921.4	32310.1	30871.6	28726.3	25818.4	22366.4	18642.4
0°	31656.7	31881.1	32335.4	32845.7	32988.7	32447.5	31042.6	28925.4	26025.9	22562.7	18816.3

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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°	33.7	30.8	30.8	30.8	28.0	28.0	28.0	25.2	25.2	22.4	22.4
85°	78.5	75.7	72.9	70.1	67.3	64.5	61.7	58.9	56.1	50.5	47.7
82.5°	126.2	123.4	120.6	115.0	112.2	106.6	101.0	95.3	89.7	86.9	81.3
80°	182.3	176.7	171.1	165.4	157.0	148.6	143.0	134.6	129.0	120.6	115.0
77.5°	246.8	238.4	229.9	218.7	210.3	201.9	190.7	182.3	171.1	159.8	148.6
75°	319.7	308.5	294.4	283.2	272.0	258.0	244.0	229.9	215.9	201.9	187.9
72.5°	398.2	384.2	370.2	356.1	339.3	319.7	302.9	283.2	266.4	249.6	229.9
70°	479.5	462.7	445.9	429.0	409.4	387.0	367.4	344.9	322.5	300.1	277.6
67.5°	555.2	538.4	518.8	502.0	479.5	457.1	431.8	406.6	381.4	353.3	325.3
65°	633.8	614.1	591.7	569.3	546.8	521.6	496.3	471.1	440.3	409.4	381.4
62.5°	698.2	681.4	661.8	639.4	614.1	586.1	560.8	527.2	496.3	465.5	429.0
60°	759.9	740.3	723.5	698.2	675.8	650.6	619.7	586.1	552.4	516.0	482.3
57.5°	813.2	796.4	776.8	754.3	729.1	703.9	675.8	645.0	605.7	569.3	530.0
55°	860.9	841.3	821.6	802.0	779.6	751.5	723.5	692.6	659.0	619.7	577.7
52.5°	908.6	888.9	866.5	846.9	821.6	796.4	768.4	737.5	703.9	667.4	622.5
50°	956.2	933.8	911.4	886.1	860.9	835.7	807.6	779.6	743.1	706.7	667.4
47.5°	1012.3	984.3	956.2	928.2	903.0	872.1	844.1	813.2	782.4	743.1	703.9
45°	1082.4	1040.4	1006.7	973.1	942.2	911.4	877.7	846.9	813.2	779.6	737.5
42.5°	1169.4	1113.3	1068.4	1023.5	984.3	947.8	914.2	877.7	844.1	807.6	768.4
40°	1287.1	1211.4	1138.5	1082.4	1031.9	987.1	947.8	911.4	872.1	835.7	796.4
37.5°	1441.4	1334.8	1233.9	1152.5	1088.0	1031.9	984.3	942.2	903.0	860.9	821.6
35°	1674.1	1489.0	1360.0	1242.3	1152.5	1082.4	1023.5	973.1	928.2	886.1	846.9
32.5°	2002.2	1716.2	1508.7	1360.0	1233.9	1138.5	1068.4	1006.7	956.2	911.4	866.5
30°	2434.1	2038.7	1716.2	1489.0	1334.8	1211.4	1113.3	1040.4	984.3	933.8	888.9
27.5°	3118.3	2434.1	2002.2	1674.1	1441.4	1287.1	1169.4	1082.4	1012.3	956.2	908.6
25°	4080.1	3048.2	2324.7	1890.0	1592.8	1379.7	1231.0	1118.9	1040.4	978.7	925.4
22.5°	5182.2	3819.3	2835.1	2173.3	1744.2	1469.4	1295.5	1166.6	1074.0	1001.1	942.2
20°	6847.9	4764.4	3365.1	2492.9	1951.7	1601.2	1371.3	1214.2	1102.1	1023.5	959.0
17.5°	8440.7	5942.1	4111.0	2910.8	2170.5	1719.0	1438.6	1261.9	1130.1	1043.2	975.9
15°	10081.1	7212.4	4826.0	3286.5	2369.6	1842.4	1517.1	1309.6	1163.7	1065.6	989.9
12.5°	11525.3	8370.6	5639.3	3794.1	2666.8	1996.6	1601.2	1354.4	1194.6	1082.4	1003.9
10°	12776.0	9481.0	6494.6	4270.8	2913.6	2125.6	1668.5	1393.7	1217.0	1096.4	1012.3
7.5°	13779.9	10361.6	7170.4	4649.4	3109.9	2226.5	1721.8	1424.5	1236.7	1110.5	1020.7
5°	14511.8	11003.7	7661.1	4921.4	3250.1	2299.5	1761.0	1447.0	1250.7	1118.9	1026.3
2.5°	14960.5	11525.3	8059.3	5142.9	3365.1	2358.3	1791.9	1463.8	1261.9	1124.5	1031.9
0°	15109.1	11525.3	8059.3	5142.9	3365.1	2358.3	1791.9	1463.8	1261.9	1124.5	1031.9

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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°	19.6	19.6	16.8	16.8	14.0	14.0	11.2	11.2	8.4	8.4	5.6
85°	44.9	39.3	36.5	33.7	30.8	28.0	25.2	22.4	19.6	16.8	14.0
82.5°	75.7	70.1	61.7	56.1	50.5	44.9	36.5	33.7	28.0	22.4	19.6
80°	106.6	98.1	89.7	81.3	72.9	64.5	56.1	47.7	39.3	30.8	25.2
77.5°	137.4	126.2	117.8	106.6	95.3	84.1	72.9	61.7	50.5	39.3	30.8
75°	173.9	159.8	145.8	131.8	117.8	103.8	92.5	78.5	64.5	50.5	39.3
72.5°	213.1	193.5	176.7	159.8	140.2	126.2	109.4	95.3	78.5	61.7	47.7
70°	255.2	232.7	210.3	187.9	168.3	145.8	129.0	109.4	92.5	72.9	56.1
67.5°	297.2	272.0	246.8	218.7	193.5	171.1	145.8	126.2	103.8	84.1	64.5
65°	347.7	314.1	283.2	252.4	221.5	193.5	168.3	140.2	117.8	95.3	72.9
62.5°	395.4	358.9	322.5	286.0	252.4	218.7	187.9	159.8	131.8	106.6	81.3
60°	443.1	403.8	361.7	322.5	283.2	246.8	210.3	176.7	145.8	117.8	89.7
57.5°	490.7	445.9	403.8	358.9	314.1	272.0	232.7	193.5	159.8	126.2	98.1
55°	532.8	490.7	443.1	395.4	347.7	297.2	255.2	213.1	173.9	137.4	106.6
52.5°	577.7	530.0	482.3	429.0	381.4	325.3	277.6	229.9	187.9	148.6	115.0
50°	619.7	569.3	516.0	465.5	409.4	353.3	300.1	249.6	201.9	159.8	120.6
47.5°	659.0	605.7	552.4	496.3	440.3	381.4	322.5	266.4	215.9	171.1	129.0
45°	692.6	645.0	586.1	527.2	471.1	406.6	344.9	283.2	229.9	182.3	134.6
42.5°	723.5	675.8	619.7	560.8	496.3	431.8	367.4	302.9	244.0	190.7	143.0
40°	751.5	703.9	650.6	586.1	521.6	457.1	387.0	319.7	258.0	201.9	148.6
37.5°	779.6	729.1	675.8	614.1	546.8	479.5	409.4	339.3	272.0	210.3	157.0
35°	802.0	754.3	698.2	639.4	569.3	502.0	429.0	356.1	283.2	218.7	165.4
32.5°	821.6	776.8	723.5	661.8	591.7	518.8	445.9	370.2	294.4	229.9	171.1
30°	841.3	796.4	740.3	681.4	614.1	538.4	462.7	384.2	308.5	238.4	176.7
27.5°	860.9	813.2	759.9	698.2	633.8	555.2	479.5	398.2	319.7	246.8	182.3
25°	877.7	827.2	776.8	715.1	650.6	572.1	493.5	412.2	330.9	255.2	187.9
22.5°	891.7	841.3	790.8	729.1	664.6	586.1	504.8	423.4	339.3	260.8	193.5
20°	905.8	855.3	802.0	743.1	675.8	600.1	516.0	434.7	347.7	266.4	196.3
17.5°	919.8	866.5	813.2	754.3	687.0	611.3	527.2	443.1	356.1	272.0	201.9
15°	931.0	874.9	821.6	762.7	698.2	622.5	535.6	451.5	361.7	277.6	204.7
12.5°	939.4	883.3	830.0	771.2	703.9	630.9	544.0	457.1	367.4	283.2	207.5
10°	947.8	891.7	835.7	779.6	712.3	636.6	549.6	462.7	373.0	286.0	210.3
7.5°	953.4	897.3	841.3	785.2	717.9	642.2	555.2	468.3	375.8	288.8	213.1
5°	959.0	900.2	844.1	788.0	720.7	650.6	560.8	473.9	381.4	291.6	213.1
2.5°	961.8	903.0	846.9	790.8	723.5	650.6	560.8	473.9	381.4	291.6	213.1
0°	961.8	903.0	846.9	790.8	723.5	650.6	560.8	473.9	381.4	291.6	213.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	2.8	0.0
85°	8.4	5.6	2.8	0.0
82.5°	14.0	8.4	5.6	0.0
80°	19.6	14.0	5.6	0.0
77.5°	22.4	16.8	8.4	0.0
75°	28.0	19.6	8.4	0.0
72.5°	33.7	22.4	11.2	0.0
70°	36.5	25.2	11.2	0.0
67.5°	44.9	28.0	14.0	0.0
65°	50.5	30.8	14.0	0.0
62.5°	56.1	33.7	16.8	0.0
60°	61.7	36.5	16.8	0.0
57.5°	70.1	39.3	19.6	0.0
55°	75.7	44.9	19.6	0.0
52.5°	81.3	47.7	22.4	0.0
50°	86.9	50.5	22.4	0.0
47.5°	89.7	56.1	25.2	0.0
45°	95.3	58.9	25.2	0.0
42.5°	101.0	61.7	28.0	0.0
40°	106.6	64.5	28.0	0.0
37.5°	112.2	67.3	28.0	0.0
35°	115.0	70.1	30.8	0.0
32.5°	120.6	72.9	30.8	0.0
30°	123.4	75.7	30.8	0.0
27.5°	126.2	78.5	33.7	0.0
25°	129.0	78.5	33.7	0.0
22.5°	131.8	81.3	33.7	0.0
20°	134.6	84.1	33.7	0.0
17.5°	137.4	84.1	33.7	0.0
15°	140.2	86.9	36.5	0.0
12.5°	143.0	86.9	36.5	0.0
10°	143.0	89.7	36.5	0.0
7.5°	145.8	89.7	36.5	0.0
5°	145.8	89.7	36.5	0.0
2.5°	145.8	89.7	36.5	0.0
0°	145.8	89.7	36.5	0.0

(END OF REPORT)