

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: P624527

Luminaire Tested: **IFLD-S-SA2D-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624527
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

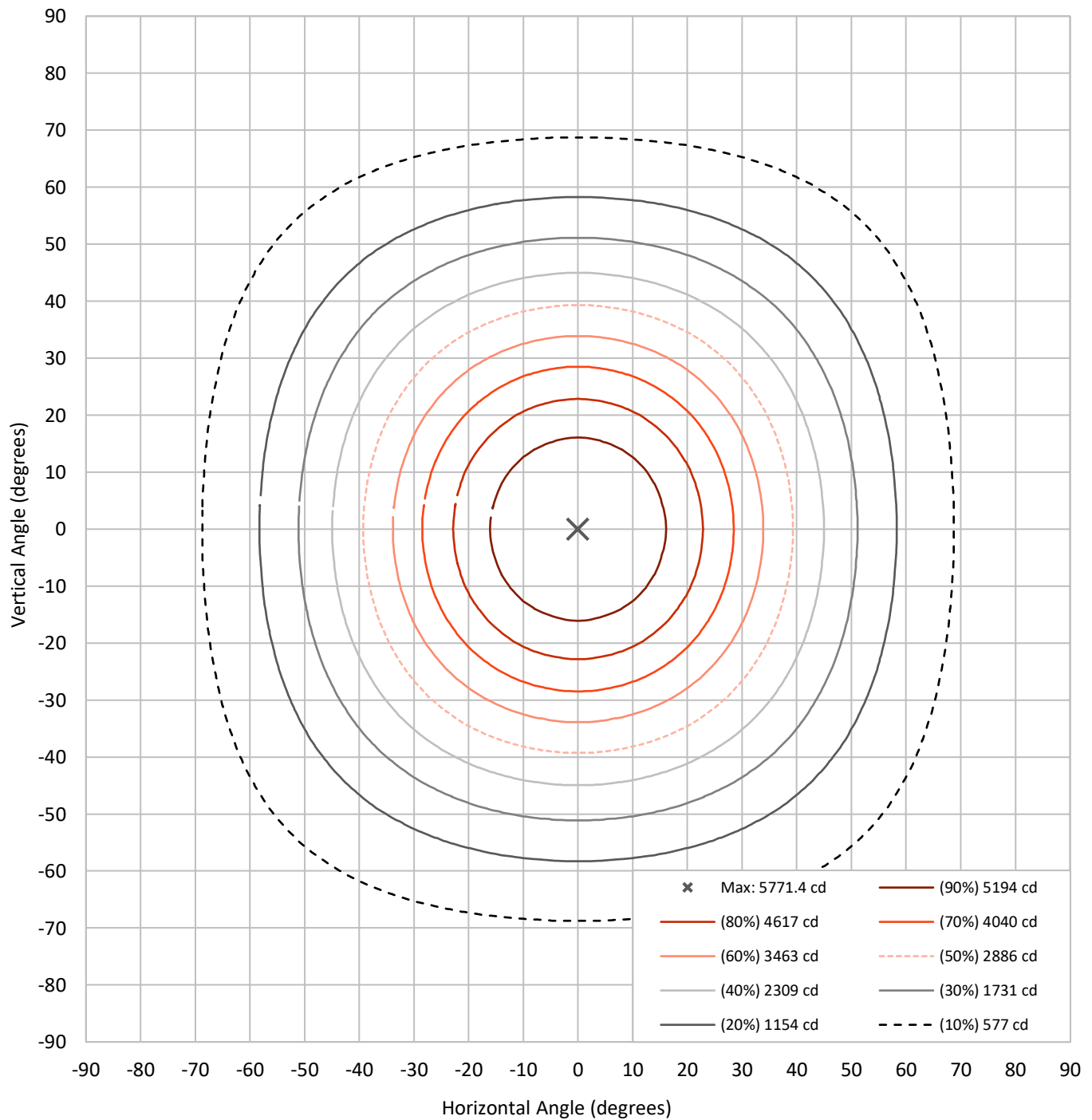
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10391.6 lumens	Max Intensity:	5771.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	83.9 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4496.3 lumens	Field Lumens:	7362.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	123.9		
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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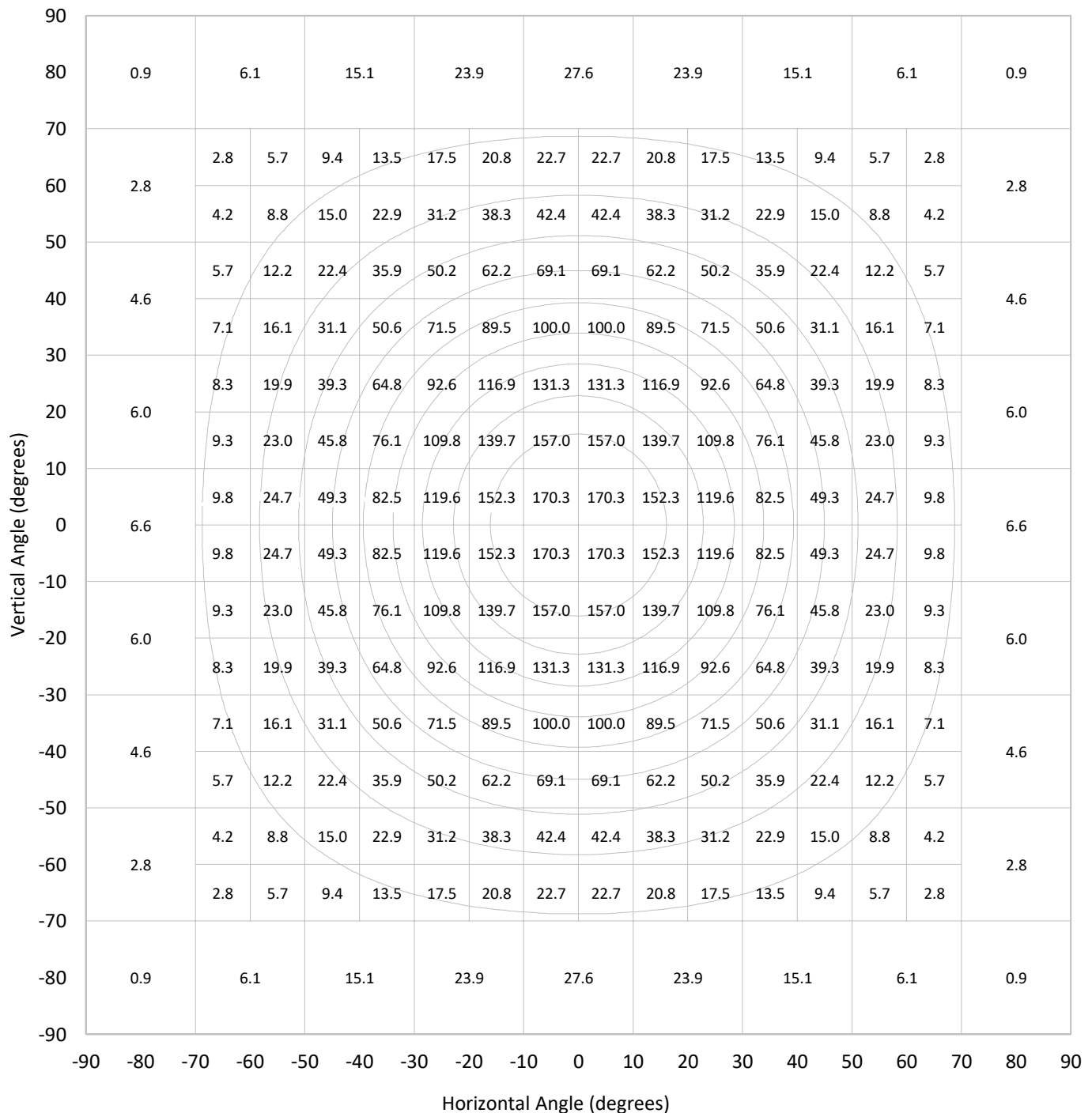
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Iso-Candela Plot



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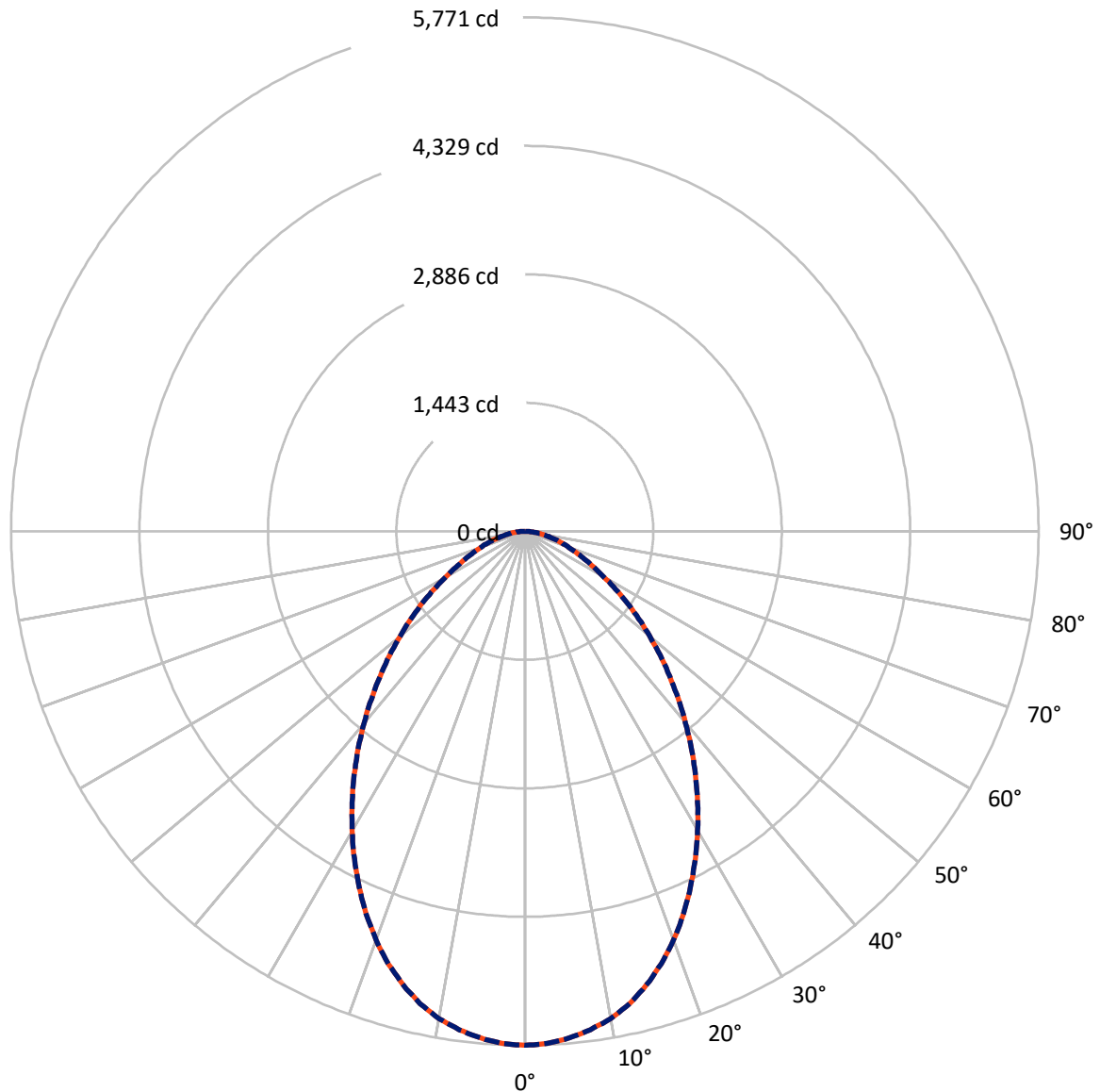
Lumen Table



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Luminous Intensity Polar Plot



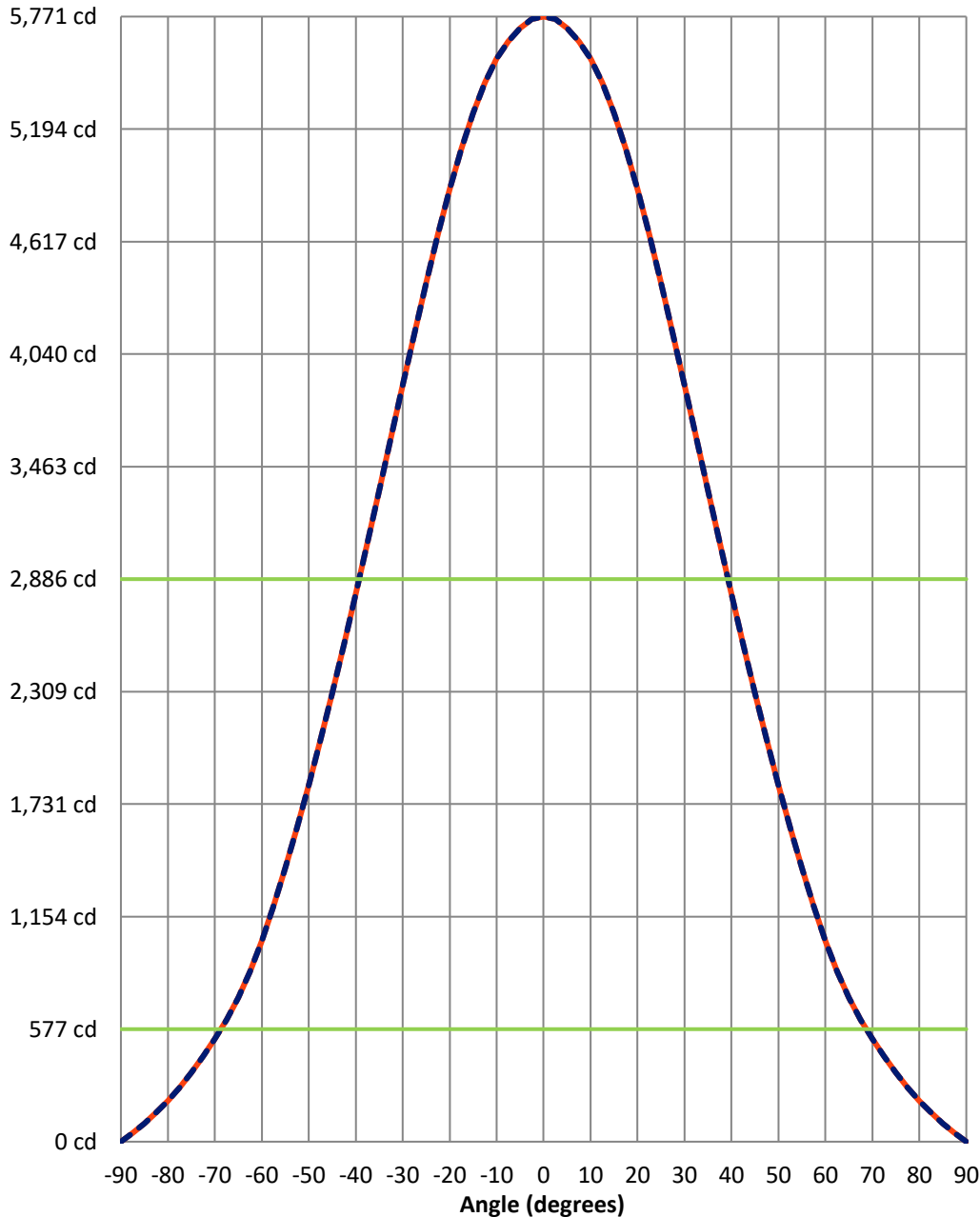
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 4496.3
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 7362.6
Efficiency: 70.9%

Spill:
Lumens: 3029
Efficiency: 29.1%

— 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°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	42.3	42.3	41.2	40.1
85°	93.2	93.2	93.2	93.2	93.2	91.0	89.9	88.8	87.8	85.6	84.5
82.5°	149.5	149.5	149.5	149.5	147.3	145.2	144.1	141.9	139.8	136.5	133.3
80°	209.1	209.1	209.1	209.1	205.9	203.7	200.4	198.3	195.0	190.7	186.3
77.5°	277.4	277.4	277.4	274.1	271.9	268.7	265.4	261.1	256.8	251.4	244.9
75°	354.3	354.3	354.3	349.9	346.7	343.4	338.0	332.6	326.1	318.5	309.9
72.5°	437.7	437.7	437.7	432.3	429.0	423.6	417.1	409.5	402.0	392.2	381.4
70°	527.6	527.6	527.6	521.1	515.7	510.3	501.6	493.0	482.1	471.3	458.3
67.5°	625.1	625.1	625.1	617.6	611.1	603.5	593.7	582.9	569.9	554.7	539.5
65°	738.9	738.9	734.6	728.1	720.5	709.6	697.7	682.6	666.3	646.8	626.2
62.5°	873.2	873.2	866.7	859.2	849.4	835.3	819.1	799.6	776.8	751.9	727.0
60°	1029.3	1029.3	1021.7	1011.9	997.8	980.5	958.8	933.9	905.7	874.3	844.0
57.5°	1209.1	1209.1	1199.4	1186.4	1169.0	1147.3	1120.3	1088.8	1053.1	1014.1	976.2
55°	1404.1	1404.1	1392.2	1377.0	1356.4	1330.4	1297.9	1261.1	1217.8	1173.4	1124.6
52.5°	1611.1	1611.1	1597.0	1579.6	1555.8	1525.5	1488.6	1445.3	1395.5	1343.4	1286.0
50°	1828.8	1828.8	1812.6	1793.1	1766.0	1730.2	1688.0	1638.1	1582.9	1522.2	1456.1
47.5°	2061.8	2061.8	2043.3	2020.6	1988.1	1946.9	1897.1	1839.7	1776.8	1708.6	1633.8
45°	2301.2	2301.2	2280.6	2254.6	2218.9	2172.3	2117.0	2061.8	1981.6	1902.5	1815.8
42.5°	2550.4	2550.4	2526.5	2497.3	2456.1	2405.2	2342.4	2270.9	2191.8	2102.9	2008.7
40°	2809.3	2809.3	2782.2	2748.7	2703.1	2644.6	2574.2	2494.0	2405.2	2306.6	2202.6
37.5°	3073.7	3073.7	3043.3	3006.5	2955.6	2890.6	2811.5	2722.6	2623.0	2513.5	2398.7
35°	3340.2	3340.2	3306.6	3266.5	3210.2	3138.7	3053.1	2954.5	2844.0	2724.8	2595.9
32.5°	3612.1	3612.1	3575.3	3529.8	3465.9	3386.8	3292.5	3185.3	3073.7	2935.0	2794.2
30°	3880.8	3880.8	3840.7	3790.9	3722.7	3636.0	3533.1	3415.0	3283.9	3141.9	2990.3
27.5°	4145.2	4134.4	4100.8	4047.7	3972.9	3880.8	3769.2	3641.4	3499.5	3343.5	3180.9
25°	4405.2	4393.3	4356.5	4298.0	4217.8	4117.0	3996.8	3860.2	3707.5	3542.8	3365.1
22.5°	4654.4	4641.4	4602.4	4539.6	4454.0	4344.5	4215.6	4069.3	3906.8	3730.2	3542.8
20°	4885.2	4871.1	4831.0	4764.9	4676.1	4560.1	4423.6	4266.5	4093.2	3906.8	3707.5
17.5°	5093.2	5079.1	5036.8	4968.6	4885.2	4756.2	4615.4	4449.6	4266.5	4069.3	3860.2
15°	5276.3	5261.1	5217.8	5149.5	5054.2	4932.8	4784.4	4615.4	4423.6	4215.6	3996.8
12.5°	5432.3	5417.1	5372.7	5304.5	5205.9	5084.5	4932.8	4756.2	4560.1	4344.5	4117.0
10°	5555.8	5540.6	5498.4	5433.4	5331.5	5205.9	5054.2	4885.2	4676.1	4454.0	4217.8
7.5°	5644.6	5630.6	5591.6	5526.6	5433.4	5304.5	5149.5	4968.6	4764.9	4539.6	4298.0
5°	5711.8	5695.6	5656.6	5591.6	5498.4	5372.7	5217.8	5036.8	4831.0	4602.4	4356.5
2.5°	5758.4	5738.9	5695.6	5630.6	5540.6	5417.1	5261.1	5079.1	4871.1	4641.4	4393.3
0°	5771.4	5758.4	5711.8	5644.6	5555.8	5432.3	5276.3	5093.2	4885.2	4654.4	4405.2

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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°	39.0	39.0	37.9	36.8	35.8	33.6	32.5	31.4	30.3	28.2	27.1
85°	82.3	80.2	78.0	75.8	72.6	70.4	67.2	65.0	61.8	58.5	55.3
82.5°	130.0	126.8	122.4	119.2	114.8	109.4	105.1	99.7	94.3	89.9	84.5
80°	182.0	176.6	171.2	165.8	159.3	152.8	146.3	139.8	132.2	124.6	117.0
77.5°	238.4	230.8	223.2	214.5	206.9	198.3	189.6	180.9	171.2	161.4	151.7
75°	301.2	291.4	280.6	269.8	260.0	248.1	236.2	224.3	211.3	199.4	186.3
72.5°	369.4	357.5	344.5	331.5	317.4	302.3	287.1	270.9	255.7	240.5	224.3
70°	443.1	429.0	412.8	396.5	379.2	360.8	342.4	322.9	303.4	283.9	264.4
67.5°	522.2	504.9	485.4	465.9	444.2	422.5	400.9	378.1	354.3	330.4	307.7
65°	606.7	585.0	562.3	537.4	512.5	487.5	461.5	434.5	407.4	379.2	354.3
62.5°	701.0	673.9	644.6	614.3	586.1	555.8	527.6	494.0	461.5	430.1	398.7
60°	810.4	774.6	738.9	701.0	665.2	626.2	591.6	554.7	517.9	482.1	445.3
57.5°	932.8	887.3	844.0	798.5	750.8	707.5	663.1	618.6	577.5	535.2	495.1
55°	1071.5	1016.3	962.1	905.7	850.5	796.3	740.0	690.1	639.2	591.6	545.0
52.5°	1223.2	1160.3	1093.2	1029.3	958.8	891.7	828.8	766.0	706.4	649.0	595.9
50°	1385.7	1312.0	1235.1	1157.1	1076.9	997.8	922.0	848.3	779.0	711.8	649.0
47.5°	1554.7	1471.3	1383.5	1294.7	1209.1	1112.7	1021.7	938.2	854.8	779.0	706.4
45°	1728.1	1633.8	1537.4	1436.6	1335.9	1231.9	1131.1	1029.3	938.2	848.3	766.0
42.5°	1906.8	1800.7	1693.4	1581.8	1470.2	1356.4	1242.7	1131.1	1021.7	922.0	828.8
40°	2091.0	1974.0	1851.6	1730.2	1611.1	1481.0	1356.4	1231.9	1112.7	997.8	891.7
37.5°	2275.2	2147.3	2015.2	1878.7	1742.1	1611.1	1470.2	1335.9	1209.1	1076.9	958.8
35°	2460.5	2319.6	2176.6	2028.2	1878.7	1730.2	1581.8	1436.6	1294.7	1157.1	1029.3
32.5°	2646.8	2493.0	2334.8	2176.6	2015.2	1851.6	1693.4	1537.4	1383.5	1235.1	1093.2
30°	2829.9	2663.1	2493.0	2319.6	2147.3	1974.0	1800.7	1633.8	1471.3	1312.0	1160.3
27.5°	3008.7	2829.9	2646.8	2460.5	2275.2	2091.0	1906.8	1728.1	1554.7	1385.7	1223.2
25°	3180.9	2990.3	2794.2	2595.9	2398.7	2202.6	2008.7	1815.8	1633.8	1456.1	1286.0
22.5°	3343.5	3141.9	2935.0	2724.8	2513.5	2306.6	2102.9	1902.5	1708.6	1522.2	1343.4
20°	3499.5	3283.9	3073.7	2844.0	2623.0	2405.2	2191.8	1981.6	1776.8	1582.9	1395.5
17.5°	3641.4	3415.0	3185.3	2954.5	2722.6	2494.0	2270.9	2061.8	1839.7	1638.1	1445.3
15°	3769.2	3533.1	3292.5	3053.1	2811.5	2574.2	2342.4	2117.0	1897.1	1688.0	1488.6
12.5°	3880.8	3636.0	3386.8	3138.7	2890.6	2644.6	2405.2	2172.3	1946.9	1730.2	1525.5
10°	3972.9	3722.7	3465.9	3210.2	2955.6	2703.1	2456.1	2218.9	1988.1	1766.0	1555.8
7.5°	4047.7	3790.9	3529.8	3266.5	3006.5	2748.7	2497.3	2254.6	2020.6	1793.1	1579.6
5°	4100.8	3840.7	3575.3	3306.6	3043.3	2782.2	2526.5	2280.6	2043.3	1812.6	1597.0
2.5°	4134.4	3880.8	3612.1	3340.2	3073.7	2809.3	2550.4	2301.2	2061.8	1828.8	1611.1
0°	4145.2	3880.8	3612.1	3340.2	3073.7	2809.3	2550.4	2301.2	2061.8	1828.8	1611.1

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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°	26.0	23.8	21.7	20.6	18.4	17.3	15.2	13.0	11.9	9.8	7.6
85°	52.0	47.7	44.4	41.2	37.9	33.6	30.3	27.1	22.8	19.5	15.2
82.5°	79.1	73.7	68.3	62.8	57.4	52.0	45.5	40.1	34.7	29.3	22.8
80°	109.4	100.8	93.2	85.6	78.0	70.4	61.8	54.2	45.5	37.9	30.3
77.5°	140.8	131.1	120.3	109.4	98.6	88.8	78.0	68.3	58.5	47.7	37.9
75°	174.4	161.4	149.5	135.4	122.4	108.3	95.3	82.3	70.4	58.5	45.5
72.5°	209.1	192.8	176.6	161.4	145.2	128.9	113.8	97.5	82.3	68.3	54.2
70°	244.9	225.4	205.9	187.4	169.0	149.5	132.2	113.8	95.3	78.0	61.8
67.5°	282.8	260.0	237.3	213.4	192.8	171.2	149.5	128.9	108.3	88.8	70.4
65°	323.9	296.9	268.7	243.8	216.7	192.8	169.0	145.2	122.4	98.6	78.0
62.5°	366.2	334.8	303.4	271.9	243.8	213.4	187.4	161.4	135.4	109.4	85.6
60°	409.5	373.8	338.0	303.4	268.7	237.3	205.9	176.6	149.5	120.3	93.2
57.5°	454.0	413.9	373.8	334.8	296.9	260.0	225.4	192.8	161.4	131.1	100.8
55°	499.5	454.0	409.5	366.2	323.9	282.8	244.9	209.1	174.4	140.8	109.4
52.5°	545.0	495.1	445.3	398.7	354.3	307.7	264.4	224.3	186.3	151.7	117.0
50°	591.6	535.2	482.1	430.1	379.2	330.4	283.9	240.5	199.4	161.4	124.6
47.5°	639.2	577.5	517.9	461.5	407.4	354.3	303.4	255.7	211.3	171.2	132.2
45°	690.1	618.6	554.7	494.0	434.5	378.1	322.9	270.9	224.3	180.9	139.8
42.5°	740.0	663.1	591.6	527.6	461.5	400.9	342.4	287.1	236.2	189.6	146.3
40°	796.3	707.5	626.2	555.8	487.5	422.5	360.8	302.3	248.1	198.3	152.8
37.5°	850.5	750.8	665.2	586.1	512.5	444.2	379.2	317.4	260.0	206.9	159.3
35°	905.7	798.5	701.0	614.3	537.4	465.9	396.5	331.5	269.8	214.5	165.8
32.5°	962.1	844.0	738.9	644.6	562.3	485.4	412.8	344.5	280.6	223.2	171.2
30°	1016.3	887.3	774.6	673.9	585.0	504.9	429.0	357.5	291.4	230.8	176.6
27.5°	1071.5	932.8	810.4	701.0	606.7	522.2	443.1	369.4	301.2	238.4	182.0
25°	1124.6	976.2	844.0	727.0	626.2	539.5	458.3	381.4	309.9	244.9	186.3
22.5°	1173.4	1014.1	874.3	751.9	646.8	554.7	471.3	392.2	318.5	251.4	190.7
20°	1217.8	1053.1	905.7	776.8	666.3	569.9	482.1	402.0	326.1	256.8	195.0
17.5°	1261.1	1088.8	933.9	799.6	682.6	582.9	493.0	409.5	332.6	261.1	198.3
15°	1297.9	1120.3	958.8	819.1	697.7	593.7	501.6	417.1	338.0	265.4	200.4
12.5°	1330.4	1147.3	980.5	835.3	709.6	603.5	510.3	423.6	343.4	268.7	203.7
10°	1356.4	1169.0	997.8	849.4	720.5	611.1	515.7	429.0	346.7	271.9	205.9
7.5°	1377.0	1186.4	1011.9	859.2	728.1	617.6	521.1	432.3	349.9	274.1	209.1
5°	1392.2	1199.4	1021.7	866.7	734.6	625.1	527.6	437.7	354.3	277.4	209.1
2.5°	1404.1	1209.1	1029.3	873.2	738.9	625.1	527.6	437.7	354.3	277.4	209.1
0°	1404.1	1209.1	1029.3	873.2	738.9	625.1	527.6	437.7	354.3	277.4	209.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.4	4.3	2.2	0.0
85°	11.9	7.6	4.3	0.0
82.5°	17.3	11.9	5.4	0.0
80°	22.8	15.2	7.6	0.0
77.5°	29.3	19.5	9.8	0.0
75°	34.7	22.8	11.9	0.0
72.5°	40.1	27.1	13.0	0.0
70°	45.5	30.3	15.2	0.0
67.5°	52.0	33.6	17.3	0.0
65°	57.4	37.9	18.4	0.0
62.5°	62.8	41.2	20.6	0.0
60°	68.3	44.4	21.7	0.0
57.5°	73.7	47.7	23.8	0.0
55°	79.1	52.0	26.0	0.0
52.5°	84.5	55.3	27.1	0.0
50°	89.9	58.5	28.2	0.0
47.5°	94.3	61.8	30.3	0.0
45°	99.7	65.0	31.4	0.0
42.5°	105.1	67.2	32.5	0.0
40°	109.4	70.4	33.6	0.0
37.5°	114.8	72.6	35.8	0.0
35°	119.2	75.8	36.8	0.0
32.5°	122.4	78.0	37.9	0.0
30°	126.8	80.2	39.0	0.0
27.5°	130.0	82.3	39.0	0.0
25°	133.3	84.5	40.1	0.0
22.5°	136.5	85.6	41.2	0.0
20°	139.8	87.8	42.3	0.0
17.5°	141.9	88.8	42.3	0.0
15°	144.1	89.9	44.4	0.0
12.5°	145.2	91.0	44.4	0.0
10°	147.3	93.2	44.4	0.0
7.5°	149.5	93.2	44.4	0.0
5°	149.5	93.2	44.4	0.0
2.5°	149.5	93.2	44.4	0.0
0°	149.5	93.2	44.4	0.0

(END OF REPORT)