

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: P628525

Luminaire Tested: **IFLD-L-SA8C-940-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628525
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-940-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	37677.7 lumens	Max Intensity:	12281.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	89.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

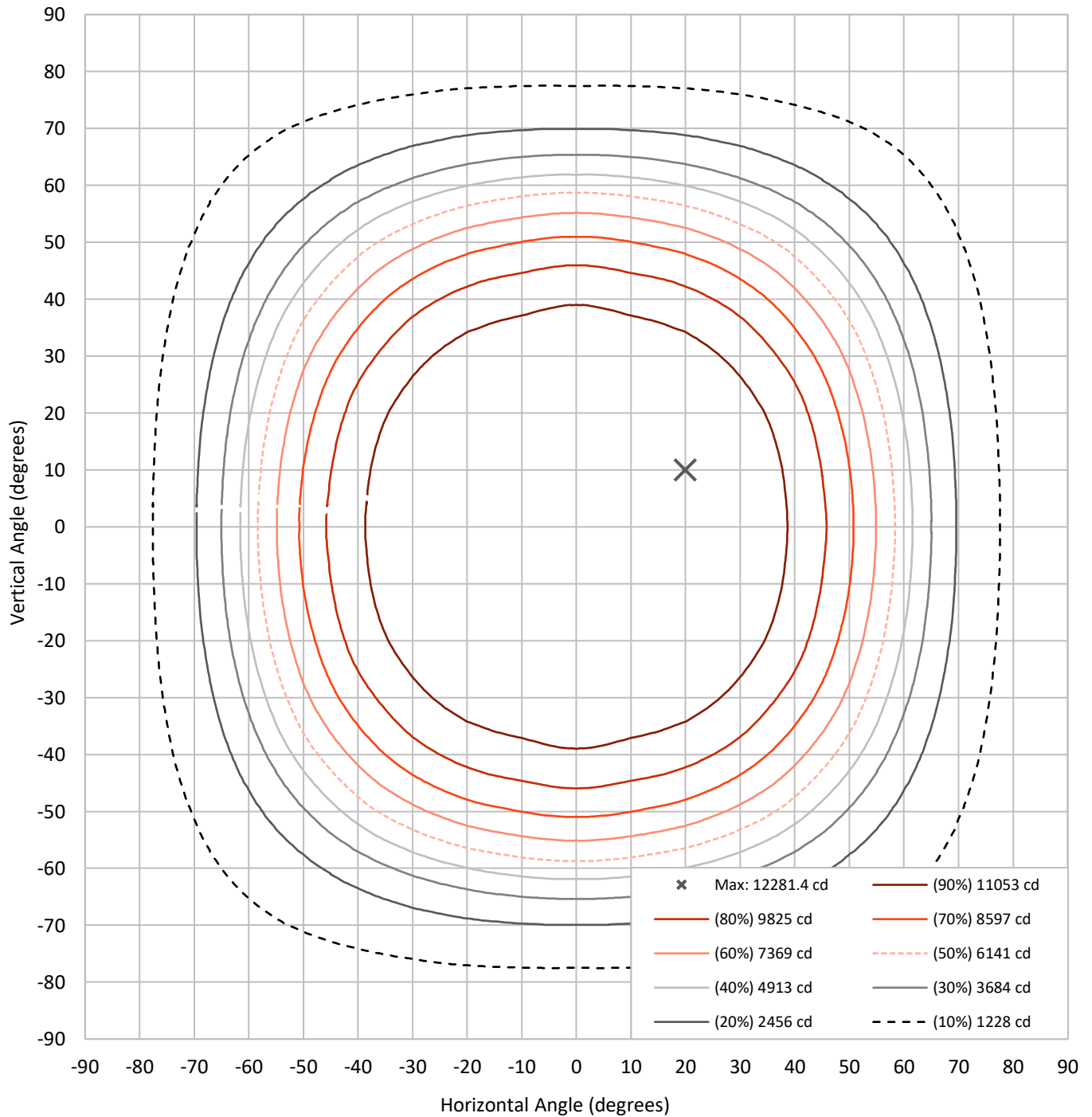
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	23119.8 lumens	Field Lumens:	27716.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 420.3
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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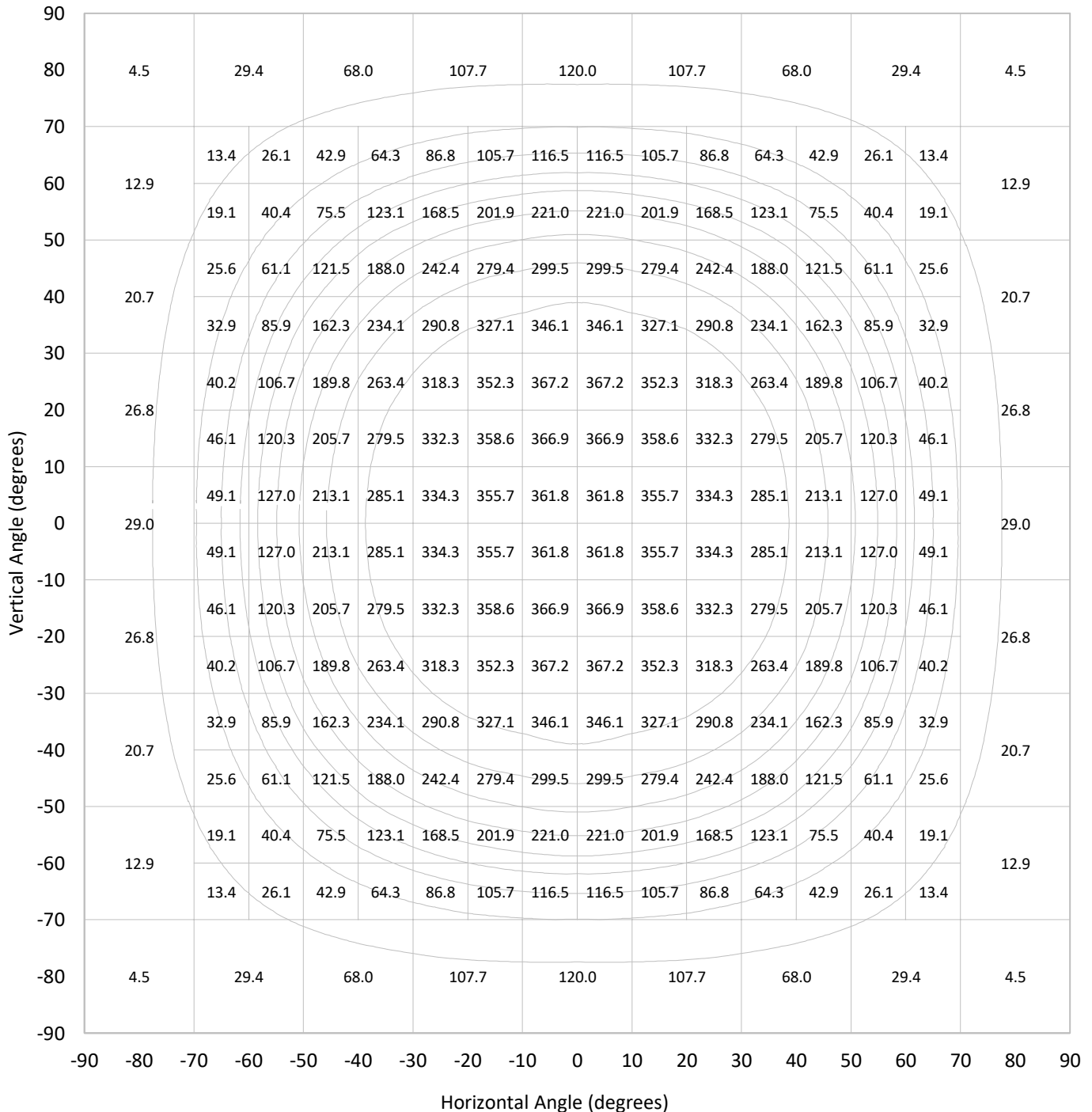
Iso-Candela Plot





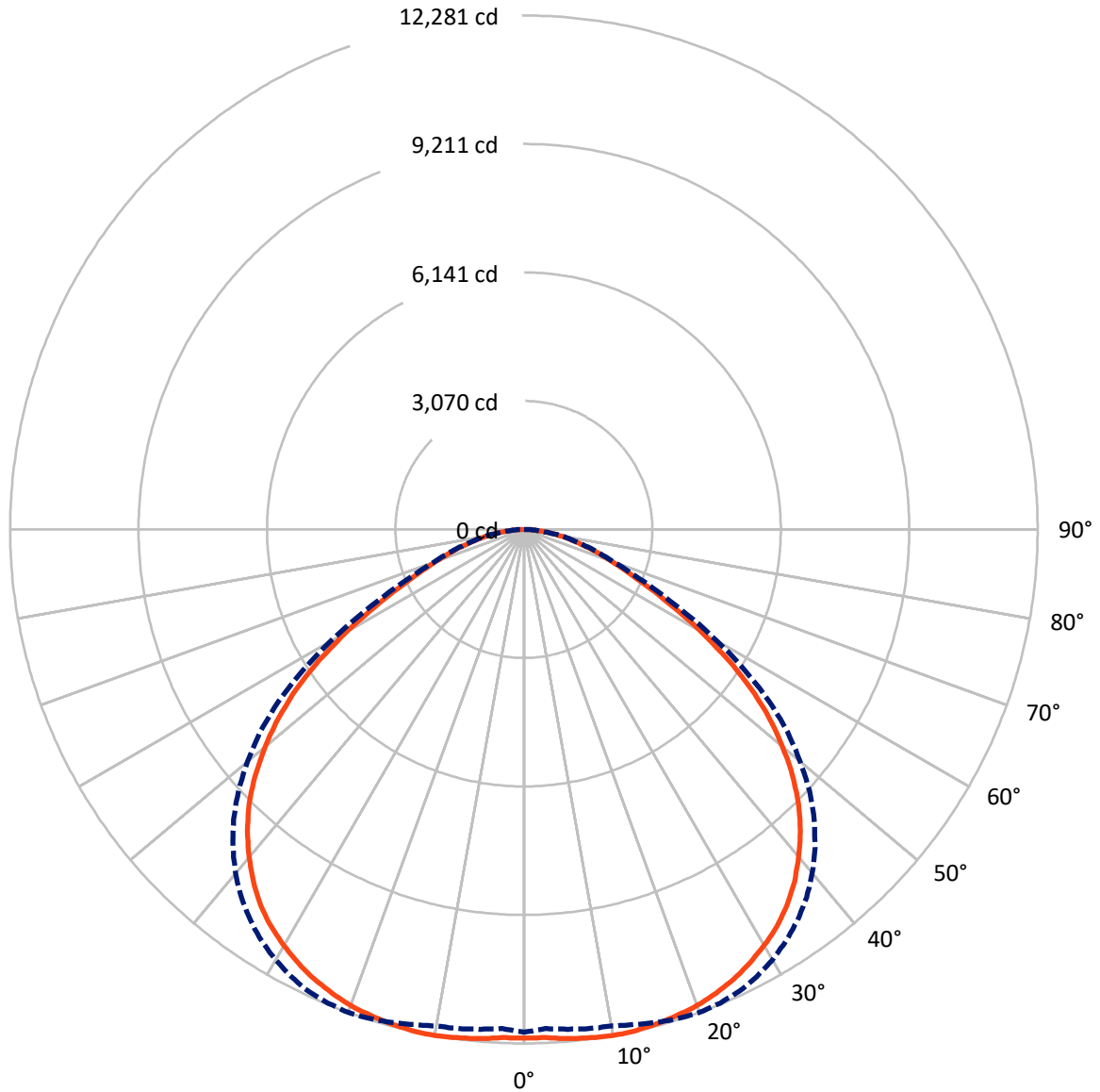
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Lumen Table



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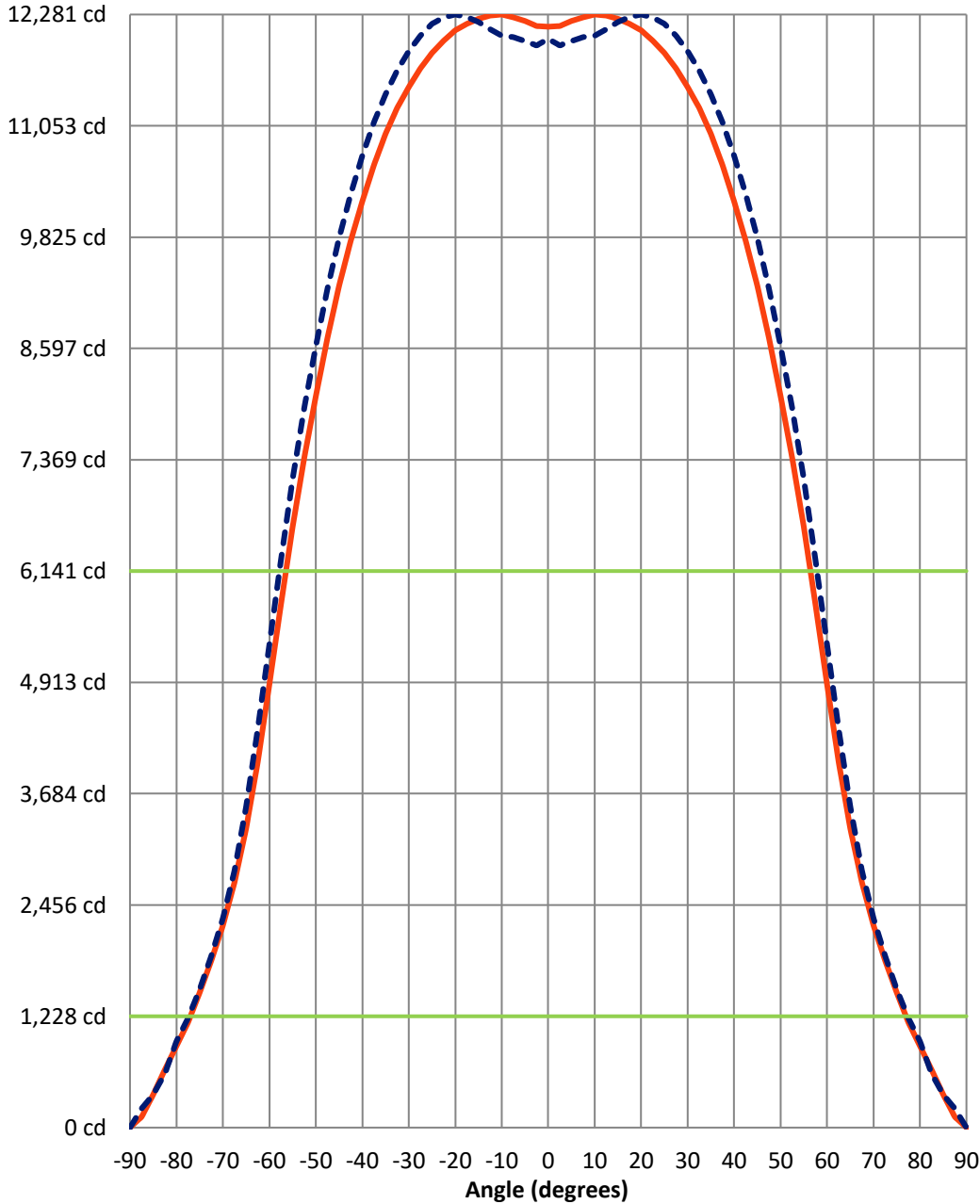
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 23119.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 27716.8
 Efficiency: 73.6%

Spill:
 Lumens: 9961
 Efficiency: 26.4%

- Vertical Distribution through 20-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°	99.1	107.0	111.0	115.0	118.9	122.9	126.9	122.9	118.9	118.9	115.0
85°	265.6	273.5	277.5	305.3	333.0	348.9	368.7	364.7	364.7	360.8	356.8
82.5°	531.2	555.0	574.8	602.6	618.4	642.2	658.1	646.2	638.3	622.4	610.5
80°	943.5	951.4	955.4	959.4	939.5	935.6	927.6	915.8	899.9	880.1	860.3
77.5°	1201.2	1209.1	1217.0	1209.1	1205.1	1201.2	1189.3	1177.4	1161.5	1145.7	1121.9
75°	1589.7	1589.7	1589.7	1577.8	1569.9	1558.0	1538.2	1518.3	1490.6	1458.9	1423.2
72.5°	2002.0	1998.0	1994.0	1970.3	1950.4	1926.7	1898.9	1875.1	1843.4	1807.7	1760.2
70°	2434.1	2442.0	2446.0	2414.3	2390.5	2358.8	2323.1	2279.5	2231.9	2180.4	2113.0
67.5°	3028.7	3020.8	3012.9	2969.3	2937.6	2893.9	2842.4	2779.0	2707.6	2628.3	2533.2
65°	3766.1	3778.0	3754.2	3710.6	3651.1	3579.8	3500.5	3409.3	3302.3	3183.3	3048.6
62.5°	4658.1	4677.9	4650.1	4594.6	4519.3	4424.2	4313.2	4182.3	4035.7	3869.2	3702.7
60°	5672.9	5669.0	5617.4	5542.1	5443.0	5324.1	5201.2	5058.5	4892.0	4697.7	4495.5
57.5°	6604.5	6596.6	6533.2	6457.9	6358.7	6231.9	6101.1	5950.4	5776.0	5569.9	5336.0
55°	7441.0	7433.1	7369.6	7290.4	7187.3	7060.4	6941.5	6798.8	6628.3	6410.3	6160.5
52.5°	8182.3	8186.3	8130.8	8043.6	7932.6	7809.7	7694.7	7552.0	7389.5	7171.4	6929.6
50°	8864.2	8860.2	8800.8	8721.5	8618.4	8499.5	8384.5	8241.8	8071.3	7861.2	7627.3
47.5°	9498.5	9490.6	9423.2	9335.9	9228.9	9125.8	9018.8	8891.9	8713.5	8503.4	8269.5
45°	10029.7	10013.8	9946.4	9863.2	9760.1	9668.9	9573.8	9478.7	9288.4	9094.1	8872.1
42.5°	10485.6	10481.6	10414.2	10331.0	10227.9	10148.6	10061.4	9942.5	9783.9	9605.5	9387.5
40°	10921.7	10890.0	10822.6	10743.3	10648.1	10580.7	10493.5	10374.6	10220.0	10045.6	9835.4
37.5°	11246.7	11250.7	11179.3	11092.1	11008.9	10945.5	10866.2	10755.2	10620.4	10449.9	10239.8
35°	11556.0	11536.1	11476.7	11401.3	11326.0	11254.7	11171.4	11076.3	10965.3	10806.7	10608.5
32.5°	11758.1	11785.9	11714.5	11635.2	11591.6	11536.1	11448.9	11349.8	11250.7	11092.1	10913.7
30°	11980.1	11956.4	11900.9	11833.5	11801.7	11766.1	11690.7	11595.6	11480.6	11337.9	11171.4
27.5°	12134.7	12122.9	12055.5	11992.0	11976.2	11944.5	11885.0	11801.7	11686.8	11548.0	11393.4
25°	12202.1	12210.1	12146.6	12111.0	12111.0	12091.1	12043.6	11972.2	11857.2	11730.4	11579.7
22.5°	12233.9	12225.9	12182.3	12174.4	12194.2	12178.4	12158.5	12095.1	11992.0	11889.0	11762.1
20°	12253.7	12198.2	12158.5	12190.2	12214.0	12210.1	12194.2	12154.6	12107.0	12019.8	11908.8
17.5°	12210.1	12174.4	12126.8	12174.4	12225.9	12229.9	12214.0	12190.2	12178.4	12122.9	12023.7
15°	12103.0	12075.3	12083.2	12130.8	12190.2	12210.1	12222.0	12249.7	12233.9	12190.2	12103.0
12.5°	12031.7	11996.0	12031.7	12079.2	12111.0	12122.9	12218.0	12269.5	12269.5	12229.9	12174.4
10°	12011.9	11940.5	11988.1	12031.7	12047.5	12118.9	12198.2	12253.7	12281.4	12249.7	12178.4
7.5°	11972.2	11924.6	11944.5	11964.3	12055.5	12107.0	12150.6	12210.1	12249.7	12245.7	12182.3
5°	11952.4	11892.9	11900.9	11984.1	12047.5	12083.2	12099.1	12150.6	12210.1	12222.0	12174.4
2.5°	11900.9	11873.1	11932.6	11940.5	11988.1	12015.8	12031.7	12079.2	12154.6	12182.3	12162.5
0°	11873.1	11833.5	11793.8	11825.5	11904.8	11964.3	11988.1	12059.4	12146.6	12174.4	12130.8



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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°	111.0	107.0	103.1	99.1	103.1	103.1	103.1	99.1	103.1	99.1	99.1
85°	344.9	329.0	317.1	301.3	285.4	273.5	257.7	241.8	237.9	233.9	226.0
82.5°	594.6	574.8	555.0	531.2	507.4	479.7	451.9	420.2	412.3	404.4	392.5
80°	836.5	808.7	781.0	753.2	729.4	701.7	670.0	634.3	610.5	590.7	566.9
77.5°	1090.2	1050.5	1010.9	963.3	935.6	907.8	876.1	840.4	804.8	773.0	737.4
75°	1379.6	1336.0	1296.3	1248.8	1197.2	1145.7	1094.1	1046.6	995.0	947.5	899.9
72.5°	1700.7	1637.3	1573.8	1514.4	1450.9	1387.5	1320.1	1256.7	1193.3	1129.8	1062.4
70°	2037.7	1958.4	1879.1	1799.8	1716.5	1633.3	1554.0	1474.7	1395.4	1312.2	1236.9
67.5°	2434.1	2342.9	2239.8	2128.8	2005.9	1898.9	1795.8	1700.7	1605.5	1510.4	1415.3
65°	2929.6	2802.8	2664.0	2513.4	2370.7	2227.9	2077.3	1934.6	1823.6	1712.6	1605.5
62.5°	3540.1	3361.7	3167.5	2973.2	2798.8	2612.5	2438.0	2251.7	2077.3	1918.7	1787.9
60°	4269.6	4027.7	3789.9	3540.1	3298.3	3044.6	2822.6	2592.7	2374.6	2180.4	1990.1
57.5°	5074.3	4792.8	4507.4	4202.2	3873.1	3575.8	3274.5	2973.2	2715.6	2457.9	2243.8
55°	5891.0	5593.6	5272.5	4927.6	4566.9	4186.3	3778.0	3441.0	3088.2	2786.9	2509.4
52.5°	6668.0	6358.7	6025.7	5708.6	5276.5	4840.4	4392.5	3948.5	3536.2	3151.6	2814.7
50°	7361.7	7060.4	6739.3	6370.6	5970.2	5506.4	5006.9	4507.4	4019.8	3567.9	3147.7
47.5°	7996.0	7702.6	7381.5	7012.9	6648.1	6132.8	5629.3	5078.3	4535.2	4015.8	3524.3
45°	8590.7	8293.3	7960.3	7607.5	7187.3	6727.4	6208.1	5653.1	5070.3	4487.6	3920.7
42.5°	9129.8	8832.5	8495.5	8130.8	7714.5	7258.6	6755.2	6196.2	5609.5	4975.2	4352.8
40°	9601.6	9312.2	8987.1	8606.5	8218.0	7738.3	7242.8	6711.6	6105.0	5466.8	4781.0
37.5°	10013.8	9744.3	9423.2	9046.5	8634.3	8206.1	7694.7	7163.5	6616.4	5922.7	5221.0
35°	10378.6	10128.8	9799.8	9443.0	9038.6	8586.7	8107.0	7587.7	6997.0	6346.9	5665.0
32.5°	10695.7	10442.0	10140.7	9783.9	9391.4	8967.3	8475.7	7952.4	7393.4	6731.4	5990.1
30°	10965.3	10719.5	10434.1	10097.1	9720.5	9300.3	8820.6	8293.3	7722.5	7064.4	6331.0
27.5°	11199.2	10965.3	10687.8	10374.6	10013.8	9609.5	9125.8	8594.6	8011.9	7377.6	6644.2
25°	11401.3	11175.4	10917.7	10620.4	10263.6	9867.2	9411.3	8856.3	8273.5	7635.3	6909.8
22.5°	11583.7	11365.7	11108.0	10818.6	10493.5	10097.1	9637.2	9086.2	8495.5	7865.2	7151.6
20°	11746.2	11544.1	11290.3	10993.0	10668.0	10267.6	9811.7	9288.4	8693.7	8075.3	7369.6
17.5°	11877.1	11698.7	11445.0	11131.8	10806.7	10418.2	9974.2	9494.5	8864.2	8253.7	7552.0
15°	11968.2	11793.8	11563.9	11246.7	10929.6	10545.1	10101.1	9605.5	9018.8	8396.4	7702.6
12.5°	12031.7	11845.4	11631.3	11337.9	11020.8	10640.2	10208.1	9720.5	9149.6	8523.3	7833.5
10°	12047.5	11877.1	11663.0	11401.3	11092.1	10723.5	10299.3	9815.6	9256.7	8622.4	7940.5
7.5°	12055.5	11892.9	11698.7	11448.9	11143.7	10786.9	10366.7	9890.9	9335.9	8705.6	8019.8
5°	12051.5	11896.9	11722.5	11480.6	11175.4	10822.6	10410.3	9942.5	9391.4	8761.1	8079.3
2.5°	12039.6	11900.9	11738.3	11504.4	11211.1	10862.2	10453.9	10001.9	9450.9	8808.7	8126.8
0°	12071.3	11952.4	11746.2	11496.5	11219.0	10862.2	10449.9	10009.9	9458.8	8804.7	8122.9



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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°	99.1	95.1	95.1	91.2	87.2	83.3	75.3	71.4	63.4	51.5	39.6
85°	214.1	202.2	190.3	182.4	174.4	166.5	154.6	142.7	126.9	103.1	79.3
82.5°	376.6	352.8	329.0	301.3	277.5	253.7	233.9	214.1	190.3	154.6	118.9
80°	539.1	503.5	467.8	428.1	392.5	352.8	317.1	285.4	253.7	206.1	158.6
77.5°	701.7	654.1	602.6	555.0	503.5	451.9	400.4	356.8	309.2	253.7	198.2
75°	852.3	796.8	749.3	681.9	618.4	551.0	483.6	424.2	364.7	297.3	237.9
72.5°	1003.0	931.6	864.2	800.8	729.4	646.2	570.9	495.5	420.2	340.9	269.6
70°	1153.6	1066.4	983.1	907.8	828.5	745.3	654.1	566.9	475.7	380.6	297.3
67.5°	1308.2	1209.1	1114.0	1018.8	927.6	832.5	737.4	638.3	531.2	420.2	329.0
65°	1478.7	1355.8	1240.8	1133.8	1026.8	923.7	816.6	709.6	590.7	463.8	356.8
62.5°	1649.2	1514.4	1379.6	1244.8	1125.9	1010.9	895.9	777.0	646.2	511.4	384.5
60°	1831.5	1676.9	1522.3	1371.7	1225.0	1098.1	971.3	844.4	705.6	555.0	412.3
57.5°	2033.7	1847.4	1672.9	1502.5	1336.0	1185.3	1046.6	911.8	757.2	598.6	444.0
55°	2263.6	2033.7	1827.5	1637.3	1454.9	1272.5	1121.9	983.1	816.6	642.2	479.7
52.5°	2505.4	2239.8	1990.1	1776.0	1581.8	1375.6	1193.3	1038.6	876.1	685.8	511.4
50°	2786.9	2449.9	2172.4	1910.8	1692.8	1478.7	1268.6	1102.1	935.6	737.4	543.1
47.5°	3076.3	2703.7	2354.8	2069.4	1811.7	1577.8	1355.8	1157.6	991.1	784.9	574.8
45°	3413.3	2945.5	2560.9	2224.0	1926.7	1680.9	1443.0	1217.0	1038.6	832.5	606.5
42.5°	3738.3	3230.9	2775.0	2394.4	2057.5	1780.0	1522.3	1280.5	1086.2	880.1	634.3
40°	4122.9	3516.3	2981.2	2557.0	2188.3	1875.1	1601.6	1347.9	1129.8	923.7	662.0
37.5°	4491.6	3805.7	3230.9	2735.4	2315.2	1970.3	1680.9	1411.3	1169.5	967.3	697.7
35°	4856.3	4126.8	3468.8	2901.9	2446.0	2077.3	1760.2	1470.8	1209.1	1003.0	729.4
32.5°	5205.1	4428.1	3710.6	3088.2	2588.7	2176.4	1831.5	1526.3	1248.8	1034.7	761.1
30°	5530.2	4713.6	3948.5	3278.5	2719.5	2267.6	1898.9	1581.8	1296.3	1062.4	792.9
27.5°	5827.5	4991.1	4186.3	3456.9	2842.4	2350.8	1970.3	1633.3	1336.0	1090.2	820.6
25°	6097.1	5240.8	4404.3	3619.4	2953.4	2442.0	2037.7	1684.8	1371.7	1114.0	844.4
22.5°	6350.8	5470.7	4602.6	3781.9	3088.2	2533.2	2101.1	1732.4	1407.3	1137.8	868.2
20°	6572.8	5680.9	4792.8	3944.5	3207.1	2616.4	2156.6	1776.0	1439.0	1153.6	892.0
17.5°	6751.2	5867.2	4963.3	4087.2	3310.2	2687.8	2204.2	1815.7	1466.8	1173.4	907.8
15°	6909.8	6025.7	5106.0	4210.1	3401.4	2747.3	2247.8	1847.4	1490.6	1185.3	927.6
12.5°	7044.6	6160.5	5228.9	4317.1	3480.7	2798.8	2283.4	1871.2	1510.4	1197.2	939.5
10°	7155.6	6267.6	5332.0	4400.4	3544.1	2838.4	2311.2	1894.9	1526.3	1209.1	951.4
7.5°	7238.8	6346.9	5407.3	4471.7	3595.6	2866.2	2335.0	1910.8	1542.1	1217.0	971.3
5°	7302.3	6414.2	5466.8	4519.3	3635.3	2905.8	2362.7	1930.6	1558.0	1225.0	971.3
2.5°	7349.8	6469.7	5514.4	4559.0	3667.0	2897.9	2362.7	1926.7	1558.0	1225.0	967.3
0°	7341.9	6473.7	5510.4	4559.0	3667.0	2890.0	2362.7	1922.7	1558.0	1225.0	967.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.8	19.8	7.9	0.0
85°	59.5	39.6	19.8	0.0
82.5°	87.2	55.5	27.8	0.0
80°	115.0	75.3	35.7	0.0
77.5°	146.7	95.1	47.6	0.0
75°	174.4	111.0	55.5	0.0
72.5°	202.2	130.8	63.4	0.0
70°	226.0	146.7	71.4	0.0
67.5°	249.8	166.5	83.3	0.0
65°	269.6	182.4	91.2	0.0
62.5°	285.4	202.2	99.1	0.0
60°	305.3	218.0	107.0	0.0
57.5°	321.1	229.9	115.0	0.0
55°	337.0	237.9	122.9	0.0
52.5°	352.8	249.8	130.8	0.0
50°	368.7	261.6	138.8	0.0
47.5°	384.5	269.6	142.7	0.0
45°	408.3	281.5	150.6	0.0
42.5°	428.1	289.4	158.6	0.0
40°	448.0	297.3	162.5	0.0
37.5°	467.8	305.3	170.5	0.0
35°	487.6	313.2	174.4	0.0
32.5°	503.5	321.1	178.4	0.0
30°	519.3	329.0	182.4	0.0
27.5°	535.2	333.0	186.3	0.0
25°	547.1	340.9	190.3	0.0
22.5°	559.0	344.9	194.3	0.0
20°	566.9	348.9	198.2	0.0
17.5°	578.8	352.8	202.2	0.0
15°	582.8	356.8	210.1	0.0
12.5°	590.7	360.8	210.1	0.0
10°	594.6	364.7	210.1	0.0
7.5°	602.6	364.7	210.1	0.0
5°	598.6	364.7	210.1	0.0
2.5°	598.6	364.7	210.1	0.0
0°	594.6	364.7	210.1	0.0

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