

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: P628257

Luminaire Tested: **IFLD-L-SA7A-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628257
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

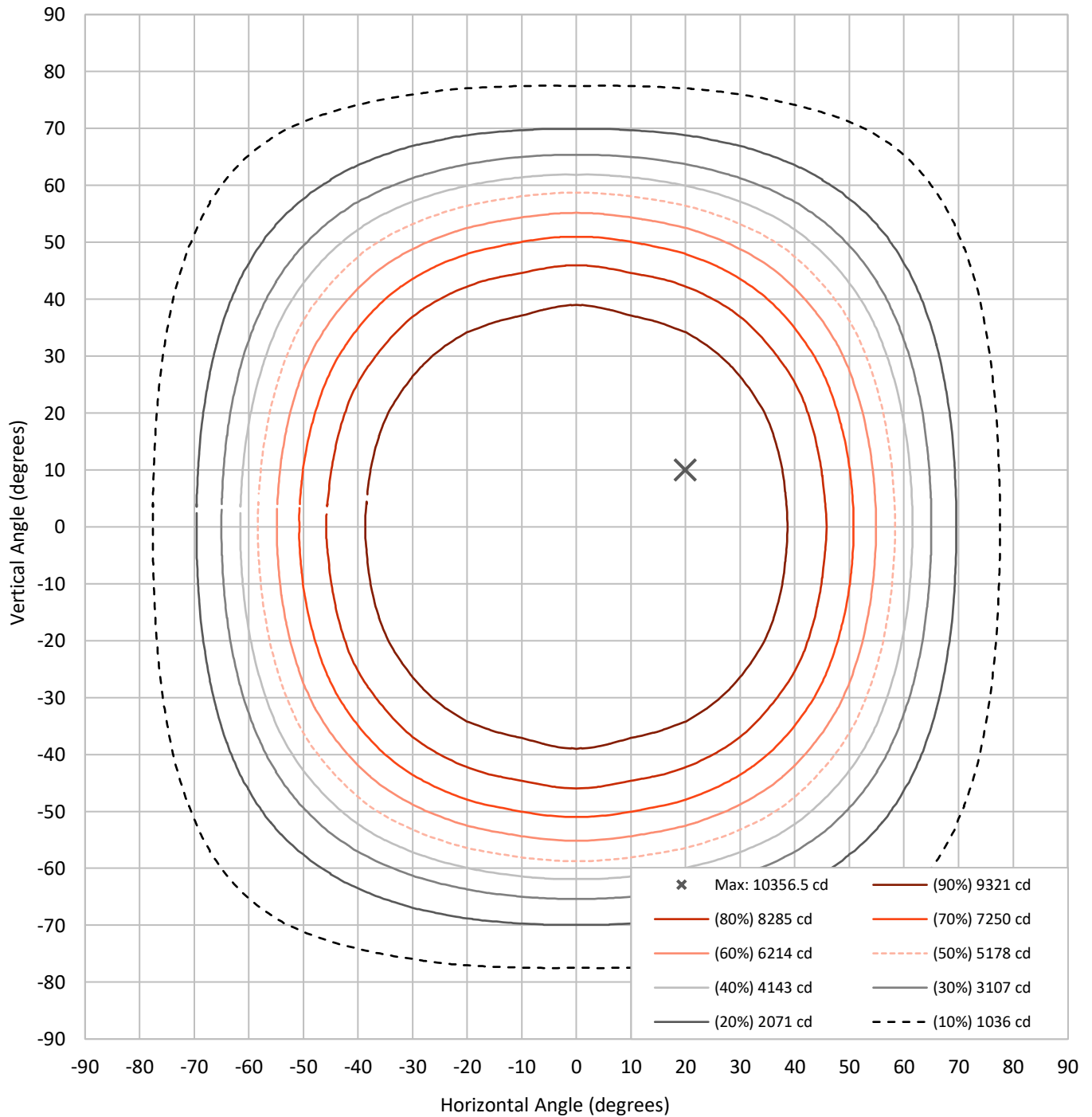
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31772.3 lumens	Max Intensity:	10356.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	146.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	19496.1 lumens	Field Lumens:	23372.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 217.6
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



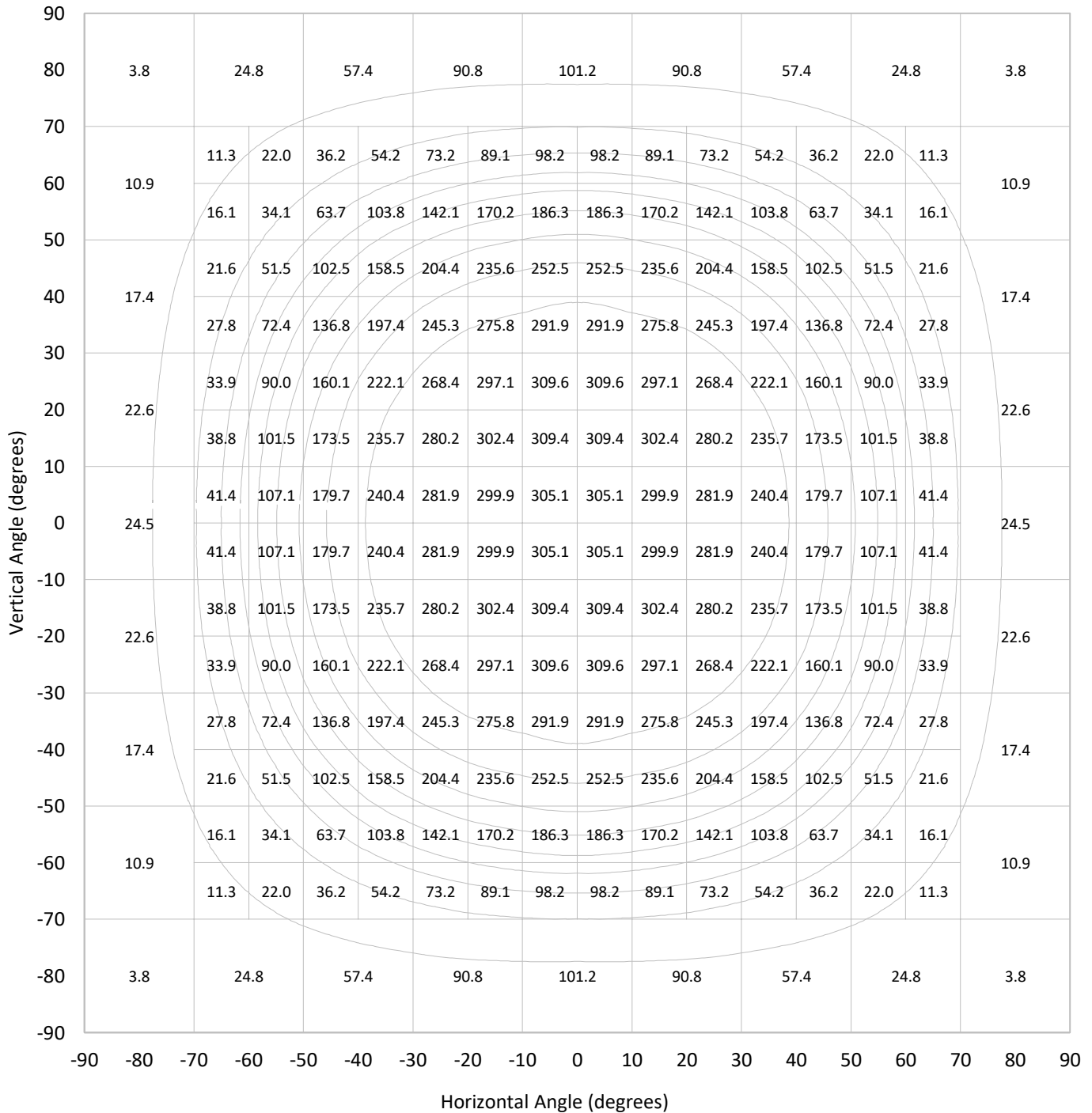
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Iso-Candela Plot



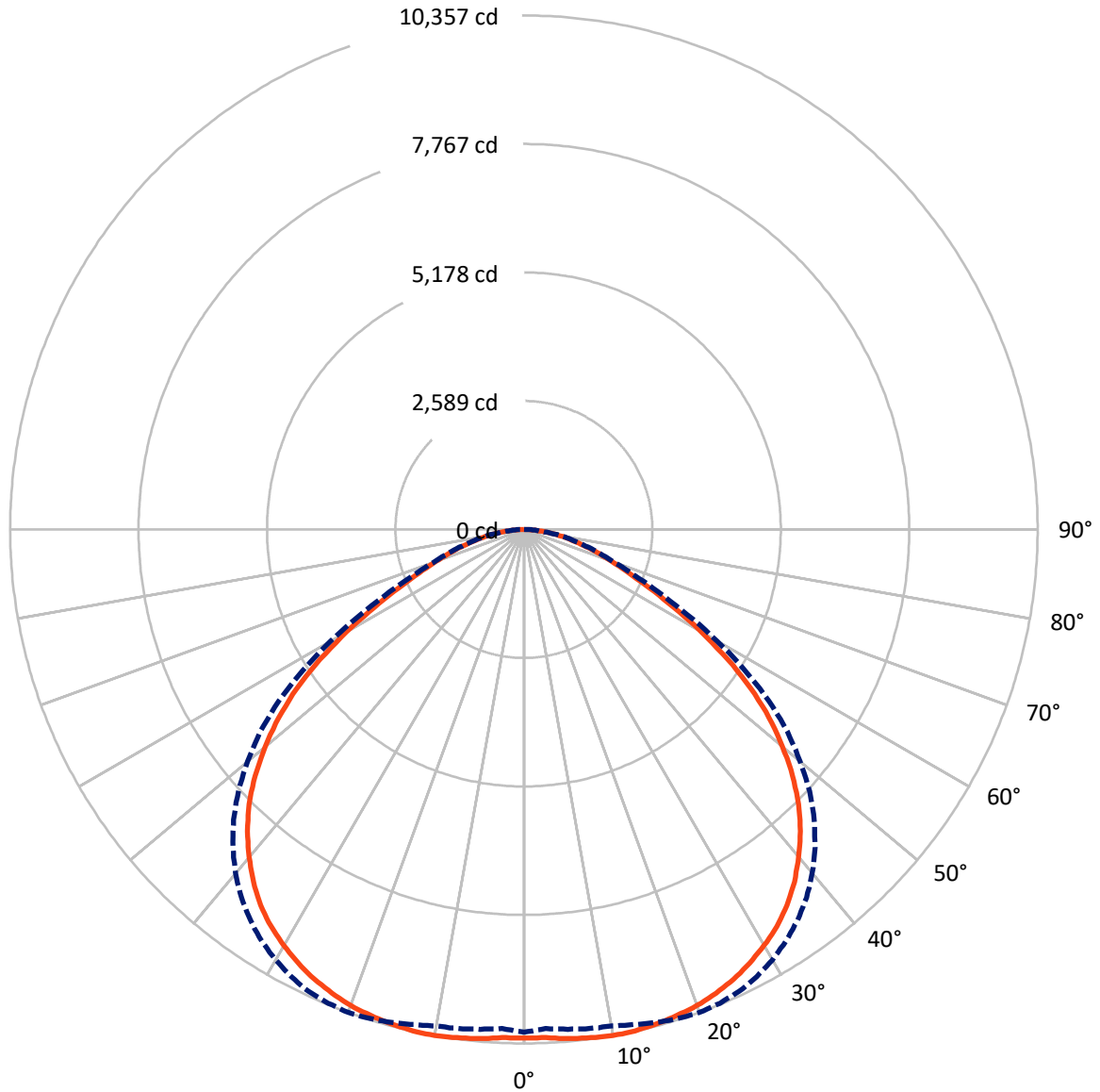
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Lumen Table



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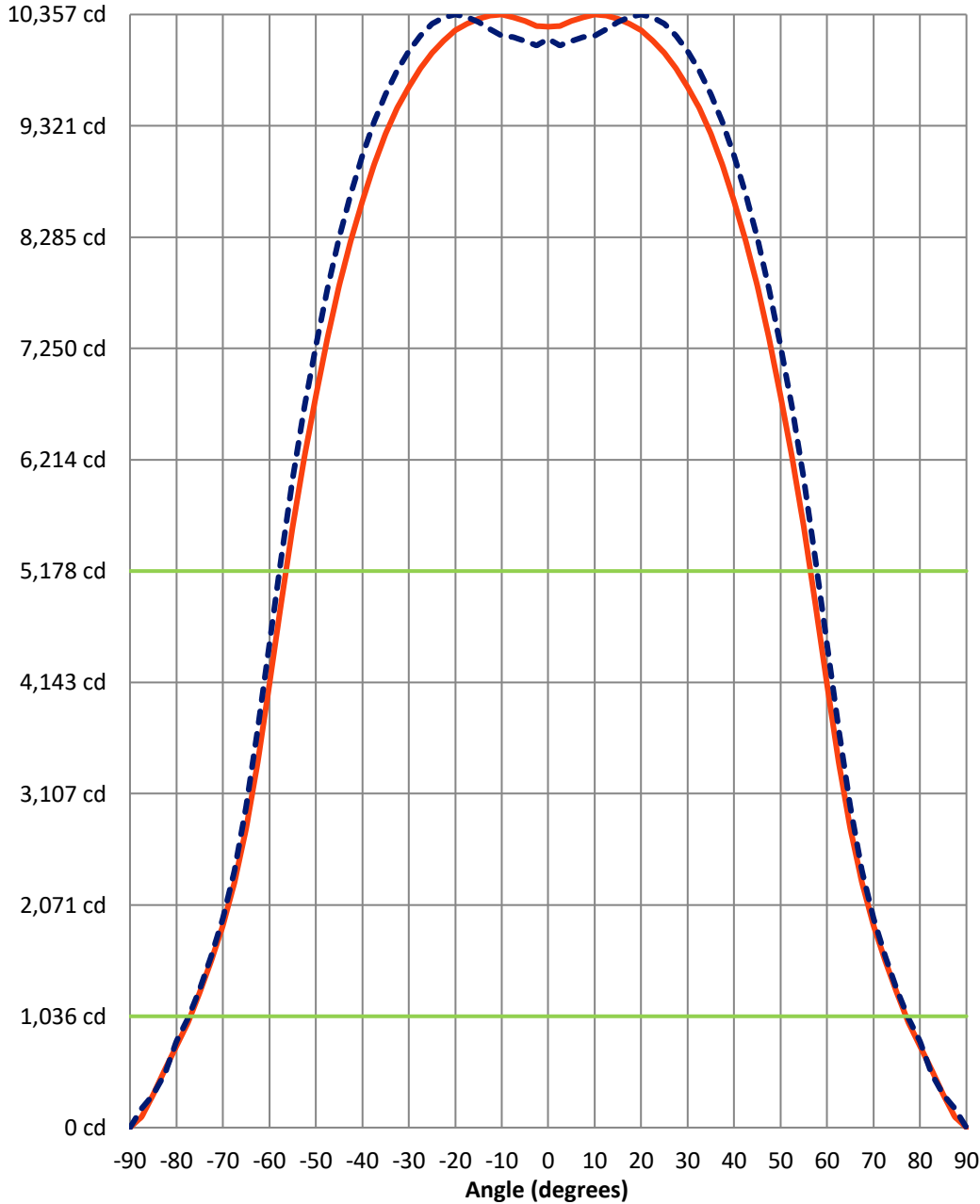
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 19496.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 23372.5
 Efficiency: 73.6%

Spill:
 Lumens: 8399.7
 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°	83.6	90.3	93.6	96.9	100.3	103.6	107.0	103.6	100.3	100.3	96.9
85°	224.0	230.7	234.0	257.4	280.8	294.2	310.9	307.6	307.6	304.2	300.9
82.5°	448.0	468.0	484.7	508.1	521.5	541.6	554.9	544.9	538.2	524.8	514.8
80°	795.6	802.3	805.7	809.0	792.3	788.9	782.3	772.2	758.9	742.1	725.4
77.5°	1012.9	1019.6	1026.3	1019.6	1016.3	1012.9	1002.9	992.9	979.5	966.1	946.1
75°	1340.5	1340.5	1340.5	1330.5	1323.8	1313.8	1297.1	1280.4	1257.0	1230.2	1200.1
72.5°	1688.2	1684.9	1681.5	1661.4	1644.7	1624.7	1601.3	1581.2	1554.5	1524.4	1484.3
70°	2052.6	2059.3	2062.6	2035.9	2015.8	1989.1	1959.0	1922.2	1882.1	1838.6	1781.8
67.5°	2554.0	2547.3	2540.6	2503.9	2477.1	2440.4	2396.9	2343.4	2283.2	2216.4	2136.1
65°	3175.8	3185.8	3165.8	3129.0	3078.9	3018.7	2951.8	2874.9	2784.7	2684.4	2570.7
62.5°	3928.0	3944.7	3921.3	3874.5	3811.0	3730.7	3637.1	3526.8	3403.1	3262.7	3122.3
60°	4783.8	4780.4	4737.0	4673.5	4589.9	4489.6	4386.0	4265.6	4125.2	3961.4	3790.9
57.5°	5569.4	5562.7	5509.2	5445.7	5362.1	5255.1	5144.8	5017.8	4870.7	4696.9	4499.6
55°	6274.7	6268.0	6214.6	6147.7	6060.8	5953.8	5853.5	5733.2	5589.4	5405.6	5195.0
52.5°	6899.9	6903.2	6856.4	6782.9	6689.3	6585.6	6488.7	6368.3	6231.3	6047.4	5843.5
50°	7474.9	7471.5	7421.4	7354.5	7267.6	7167.3	7070.4	6950.0	6806.3	6629.1	6431.8
47.5°	8009.7	8003.0	7946.2	7872.7	7782.4	7695.5	7605.2	7498.3	7347.8	7170.6	6973.4
45°	8457.7	8444.3	8387.5	8317.3	8230.4	8153.5	8073.2	7993.0	7832.5	7668.7	7481.5
42.5°	8842.1	8838.8	8781.9	8711.7	8624.8	8558.0	8484.4	8384.1	8250.4	8100.0	7916.1
40°	9209.8	9183.1	9126.3	9059.4	8979.2	8922.4	8848.8	8748.5	8618.1	8471.1	8293.9
37.5°	9484.0	9487.3	9427.1	9353.6	9283.4	9229.9	9163.0	9069.4	8955.8	8812.0	8634.9
35°	9744.7	9728.0	9677.9	9614.3	9550.8	9490.7	9420.5	9340.2	9246.6	9112.9	8945.8
32.5°	9915.2	9938.6	9878.4	9811.6	9774.8	9728.0	9654.5	9570.9	9487.3	9353.6	9203.2
30°	10102.4	10082.4	10035.6	9978.7	9952.0	9921.9	9858.4	9778.1	9681.2	9560.9	9420.5
27.5°	10232.8	10222.8	10165.9	10112.4	10099.1	10072.3	10022.2	9952.0	9855.0	9738.0	9607.7
25°	10289.6	10296.3	10242.8	10212.7	10212.7	10196.0	10155.9	10095.7	9998.8	9891.8	9764.8
22.5°	10316.4	10309.7	10272.9	10266.2	10282.9	10269.6	10252.8	10199.4	10112.4	10025.5	9918.6
20°	10333.1	10286.3	10252.8	10279.6	10299.6	10296.3	10282.9	10249.5	10209.4	10135.8	10042.2
17.5°	10296.3	10266.2	10226.1	10266.2	10309.7	10313.0	10299.6	10279.6	10269.6	10222.8	10139.2
15°	10206.0	10182.6	10189.3	10229.4	10279.6	10296.3	10306.3	10329.7	10316.4	10279.6	10206.0
12.5°	10145.9	10115.8	10145.9	10186.0	10212.7	10222.8	10303.0	10346.5	10346.5	10313.0	10266.2
10°	10129.2	10069.0	10109.1	10145.9	10159.2	10219.4	10286.3	10333.1	10356.5	10329.7	10269.6
7.5°	10095.7	10055.6	10072.3	10089.0	10165.9	10209.4	10246.2	10296.3	10329.7	10326.4	10272.9
5°	10079.0	10028.9	10035.6	10105.8	10159.2	10189.3	10202.7	10246.2	10296.3	10306.3	10266.2
2.5°	10035.6	10012.2	10062.3	10069.0	10109.1	10132.5	10145.9	10186.0	10249.5	10272.9	10256.2
0°	10012.2	9978.7	9945.3	9972.0	10038.9	10089.0	10109.1	10169.3	10242.8	10266.2	10229.4



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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°	93.6	90.3	86.9	83.6	86.9	86.9	86.9	83.6	86.9	83.6	83.6
85°	290.8	277.5	267.4	254.1	240.7	230.7	217.3	203.9	200.6	197.2	190.5
82.5°	501.4	484.7	468.0	448.0	427.9	404.5	381.1	354.4	347.7	341.0	331.0
80°	705.4	682.0	658.6	635.2	615.1	591.7	565.0	534.9	514.8	498.1	478.0
77.5°	919.3	885.9	852.5	812.3	788.9	765.5	738.8	708.7	678.6	651.9	621.8
75°	1163.3	1126.6	1093.1	1053.0	1009.6	966.1	922.7	882.5	839.1	799.0	758.9
72.5°	1434.1	1380.6	1327.2	1277.0	1223.5	1170.0	1113.2	1059.7	1006.2	952.7	895.9
70°	1718.3	1651.4	1584.6	1517.7	1447.5	1377.3	1310.4	1243.6	1176.7	1106.5	1043.0
67.5°	2052.6	1975.7	1888.8	1795.2	1691.5	1601.3	1514.4	1434.1	1353.9	1273.7	1193.4
65°	2470.4	2363.5	2246.5	2119.4	1999.1	1878.7	1751.7	1631.4	1537.8	1444.2	1353.9
62.5°	2985.3	2834.8	2671.0	2507.2	2360.1	2203.0	2055.9	1898.8	1751.7	1618.0	1507.7
60°	3600.4	3396.4	3195.9	2985.3	2781.3	2567.4	2380.2	2186.3	2002.4	1838.6	1678.2
57.5°	4279.0	4041.6	3800.9	3543.5	3266.1	3015.3	2761.3	2507.2	2289.9	2072.6	1892.1
55°	4967.6	4716.9	4446.1	4155.3	3851.1	3530.2	3185.8	2901.7	2604.2	2350.1	2116.1
52.5°	5622.9	5362.1	5081.3	4813.9	4449.5	4081.7	3704.0	3329.6	2981.9	2657.7	2373.5
50°	6207.9	5953.8	5683.0	5372.1	5034.5	4643.4	4222.2	3800.9	3389.8	3008.7	2654.3
47.5°	6742.7	6495.4	6224.6	5913.7	5606.1	5171.6	4747.0	4282.3	3824.3	3386.4	2971.9
45°	7244.2	6993.5	6712.7	6415.1	6060.8	5673.0	5235.1	4767.1	4275.6	3784.2	3306.2
42.5°	7698.8	7448.1	7164.0	6856.4	6505.4	6121.0	5696.4	5225.0	4730.3	4195.4	3670.6
40°	8096.6	7852.6	7578.5	7257.6	6929.9	6525.5	6107.6	5659.6	5148.2	4609.9	4031.6
37.5°	8444.3	8217.0	7946.2	7628.6	7281.0	6919.9	6488.7	6040.7	5579.4	4994.4	4402.7
35°	8751.9	8541.3	8263.8	7962.9	7621.9	7240.8	6836.3	6398.4	5900.3	5352.1	4777.1
32.5°	9019.3	8805.3	8551.3	8250.4	7919.5	7561.8	7147.2	6706.0	6234.6	5676.3	5051.2
30°	9246.6	9039.4	8798.7	8514.5	8196.9	7842.6	7438.1	6993.5	6512.1	5957.1	5338.7
27.5°	9443.9	9246.6	9012.6	8748.5	8444.3	8103.3	7695.5	7247.5	6756.1	6221.2	5602.8
25°	9614.3	9423.8	9206.5	8955.8	8654.9	8320.6	7936.2	7468.2	6976.7	6438.5	5826.8
22.5°	9768.1	9584.3	9367.0	9122.9	8848.8	8514.5	8126.7	7662.1	7164.0	6632.4	6030.7
20°	9905.2	9734.7	9520.7	9270.0	8995.9	8658.3	8273.8	7832.5	7331.1	6809.6	6214.6
17.5°	10015.5	9865.1	9651.1	9387.0	9112.9	8785.3	8410.9	8006.4	7474.9	6960.0	6368.3
15°	10092.4	9945.3	9751.4	9484.0	9216.5	8892.3	8517.9	8100.0	7605.2	7080.4	6495.4
12.5°	10145.9	9988.8	9808.2	9560.9	9293.4	8972.5	8608.1	8196.9	7715.5	7187.4	6605.7
10°	10159.2	10015.5	9835.0	9614.3	9353.6	9042.7	8685.0	8277.2	7805.8	7270.9	6695.9
7.5°	10165.9	10028.9	9865.1	9654.5	9397.1	9096.2	8741.8	8340.7	7872.7	7341.1	6762.8
5°	10162.6	10032.2	9885.1	9681.2	9423.8	9126.3	8778.6	8384.1	7919.5	7387.9	6812.9
2.5°	10152.6	10035.6	9898.5	9701.3	9453.9	9159.7	8815.4	8434.3	7969.6	7428.0	6853.1
0°	10179.3	10079.0	9905.2	9694.6	9460.6	9159.7	8812.0	8441.0	7976.3	7424.7	6849.7



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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°	83.6	80.2	80.2	76.9	73.5	70.2	63.5	60.2	53.5	43.5	33.4
85°	180.5	170.5	160.5	153.8	147.1	140.4	130.4	120.3	107.0	86.9	66.9
82.5°	317.6	297.5	277.5	254.1	234.0	213.9	197.2	180.5	160.5	130.4	100.3
80°	454.6	424.6	394.5	361.0	331.0	297.5	267.4	240.7	213.9	173.8	133.7
77.5°	591.7	551.6	508.1	468.0	424.6	381.1	337.6	300.9	260.8	213.9	167.1
75°	718.7	671.9	631.8	575.0	521.5	464.7	407.8	357.7	307.6	250.7	200.6
72.5°	845.8	785.6	728.8	675.3	615.1	544.9	481.4	417.9	354.4	287.5	227.3
70°	972.8	899.3	829.1	765.5	698.7	628.5	551.6	478.0	401.2	320.9	250.7
67.5°	1103.2	1019.6	939.4	859.1	782.3	702.0	621.8	538.2	448.0	354.4	277.5
65°	1246.9	1143.3	1046.3	956.1	865.8	778.9	688.6	598.4	498.1	391.1	300.9
62.5°	1390.7	1277.0	1163.3	1049.7	949.4	852.5	755.5	655.2	544.9	431.2	324.3
60°	1544.4	1414.1	1283.7	1156.7	1033.0	926.0	819.0	712.0	595.0	468.0	347.7
57.5°	1714.9	1557.8	1410.7	1267.0	1126.6	999.5	882.5	768.9	638.5	504.8	374.4
55°	1908.8	1714.9	1541.1	1380.6	1226.9	1073.1	946.1	829.1	688.6	541.6	404.5
52.5°	2112.7	1888.8	1678.2	1497.6	1333.8	1160.0	1006.2	875.9	738.8	578.3	431.2
50°	2350.1	2065.9	1831.9	1611.3	1427.4	1246.9	1069.7	929.3	788.9	621.8	458.0
47.5°	2594.1	2279.9	1985.7	1745.0	1527.7	1330.5	1143.3	976.1	835.7	661.9	484.7
45°	2878.3	2483.8	2159.5	1875.4	1624.7	1417.4	1216.8	1026.3	875.9	702.0	511.5
42.5°	3152.4	2724.5	2340.1	2019.1	1735.0	1501.0	1283.7	1079.8	916.0	742.1	534.9
40°	3476.7	2965.2	2513.9	2156.2	1845.3	1581.2	1350.6	1136.6	952.7	778.9	558.3
37.5°	3787.6	3209.2	2724.5	2306.6	1952.3	1661.4	1417.4	1190.1	986.2	815.7	588.4
35°	4095.1	3480.0	2925.1	2447.0	2062.6	1751.7	1484.3	1240.2	1019.6	845.8	615.1
32.5°	4389.3	3734.1	3129.0	2604.2	2183.0	1835.3	1544.4	1287.0	1053.0	872.5	641.8
30°	4663.4	3974.8	3329.6	2764.6	2293.3	1912.2	1601.3	1333.8	1093.1	895.9	668.6
27.5°	4914.1	4208.8	3530.2	2915.1	2396.9	1982.4	1661.4	1377.3	1126.6	919.3	692.0
25°	5141.5	4419.4	3714.0	3052.1	2490.5	2059.3	1718.3	1420.8	1156.7	939.4	712.0
22.5°	5355.4	4613.3	3881.2	3189.2	2604.2	2136.1	1771.8	1460.9	1186.7	959.4	732.1
20°	5542.6	4790.5	4041.6	3326.2	2704.5	2206.4	1818.6	1497.6	1213.5	972.8	752.2
17.5°	5693.1	4947.6	4185.4	3446.6	2791.4	2266.5	1858.7	1531.1	1236.9	989.5	765.5
15°	5826.8	5081.3	4305.7	3550.2	2868.3	2316.7	1895.5	1557.8	1257.0	999.5	782.3
12.5°	5940.4	5195.0	4409.4	3640.5	2935.1	2360.1	1925.5	1577.9	1273.7	1009.6	792.3
10°	6034.0	5285.2	4496.3	3710.7	2988.6	2393.6	1948.9	1597.9	1287.0	1019.6	802.3
7.5°	6104.2	5352.1	4559.8	3770.9	3032.1	2417.0	1969.0	1611.3	1300.4	1026.3	819.0
5°	6157.7	5408.9	4609.9	3811.0	3065.5	2450.4	1992.4	1628.0	1313.8	1033.0	819.0
2.5°	6197.8	5455.7	4650.1	3844.4	3092.2	2443.7	1992.4	1624.7	1313.8	1033.0	815.7
0°	6191.2	5459.0	4646.7	3844.4	3092.2	2437.0	1992.4	1621.3	1313.8	1033.0	815.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.4	16.7	6.7	0.0
85°	50.1	33.4	16.7	0.0
82.5°	73.5	46.8	23.4	0.0
80°	96.9	63.5	30.1	0.0
77.5°	123.7	80.2	40.1	0.0
75°	147.1	93.6	46.8	0.0
72.5°	170.5	110.3	53.5	0.0
70°	190.5	123.7	60.2	0.0
67.5°	210.6	140.4	70.2	0.0
65°	227.3	153.8	76.9	0.0
62.5°	240.7	170.5	83.6	0.0
60°	257.4	183.9	90.3	0.0
57.5°	270.8	193.9	96.9	0.0
55°	284.2	200.6	103.6	0.0
52.5°	297.5	210.6	110.3	0.0
50°	310.9	220.6	117.0	0.0
47.5°	324.3	227.3	120.3	0.0
45°	344.3	237.3	127.0	0.0
42.5°	361.0	244.0	133.7	0.0
40°	377.8	250.7	137.1	0.0
37.5°	394.5	257.4	143.7	0.0
35°	411.2	264.1	147.1	0.0
32.5°	424.6	270.8	150.4	0.0
30°	437.9	277.5	153.8	0.0
27.5°	451.3	280.8	157.1	0.0
25°	461.3	287.5	160.5	0.0
22.5°	471.4	290.8	163.8	0.0
20°	478.0	294.2	167.1	0.0
17.5°	488.1	297.5	170.5	0.0
15°	491.4	300.9	177.2	0.0
12.5°	498.1	304.2	177.2	0.0
10°	501.4	307.6	177.2	0.0
7.5°	508.1	307.6	177.2	0.0
5°	504.8	307.6	177.2	0.0
2.5°	504.8	307.6	177.2	0.0
0°	501.4	307.6	177.2	0.0

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