

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: P628434

Luminaire Tested: **IFLD-L-SA7D-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628434
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31782.9 lumens	Max Intensity:	10359.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	75.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

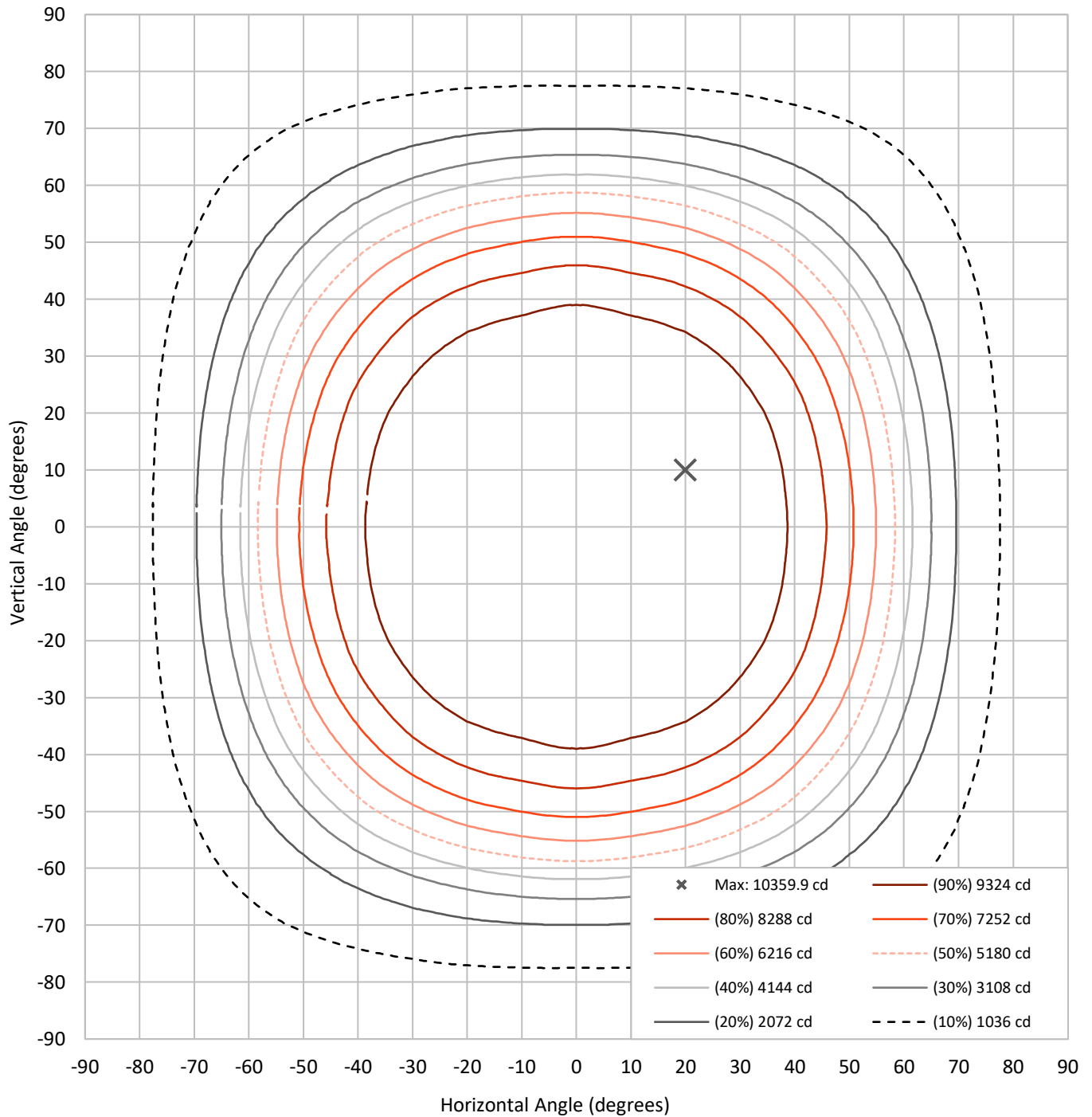
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	19502.6 lumens	Field Lumens:	23380.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 422.6
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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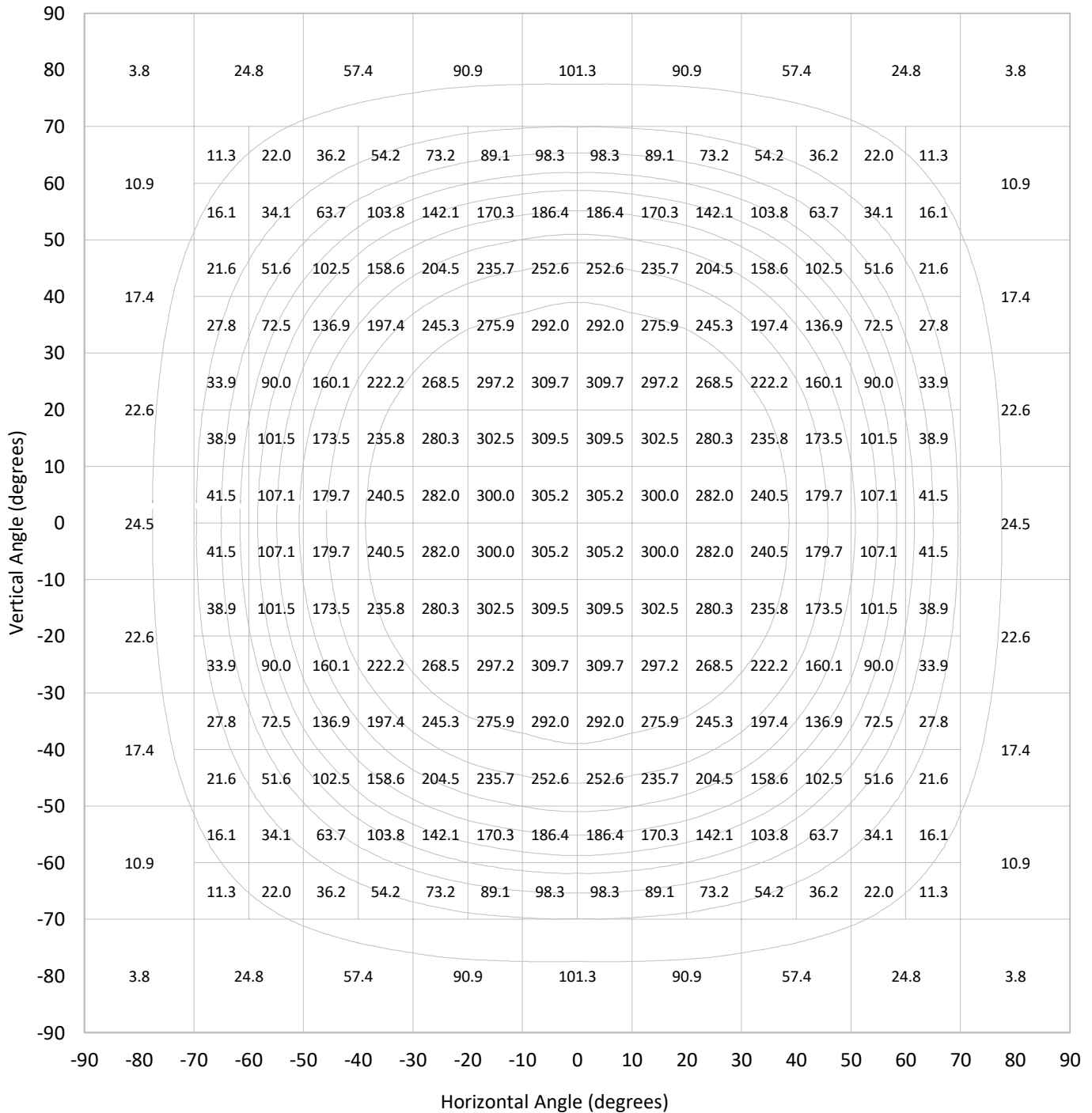
Iso-Candela Plot





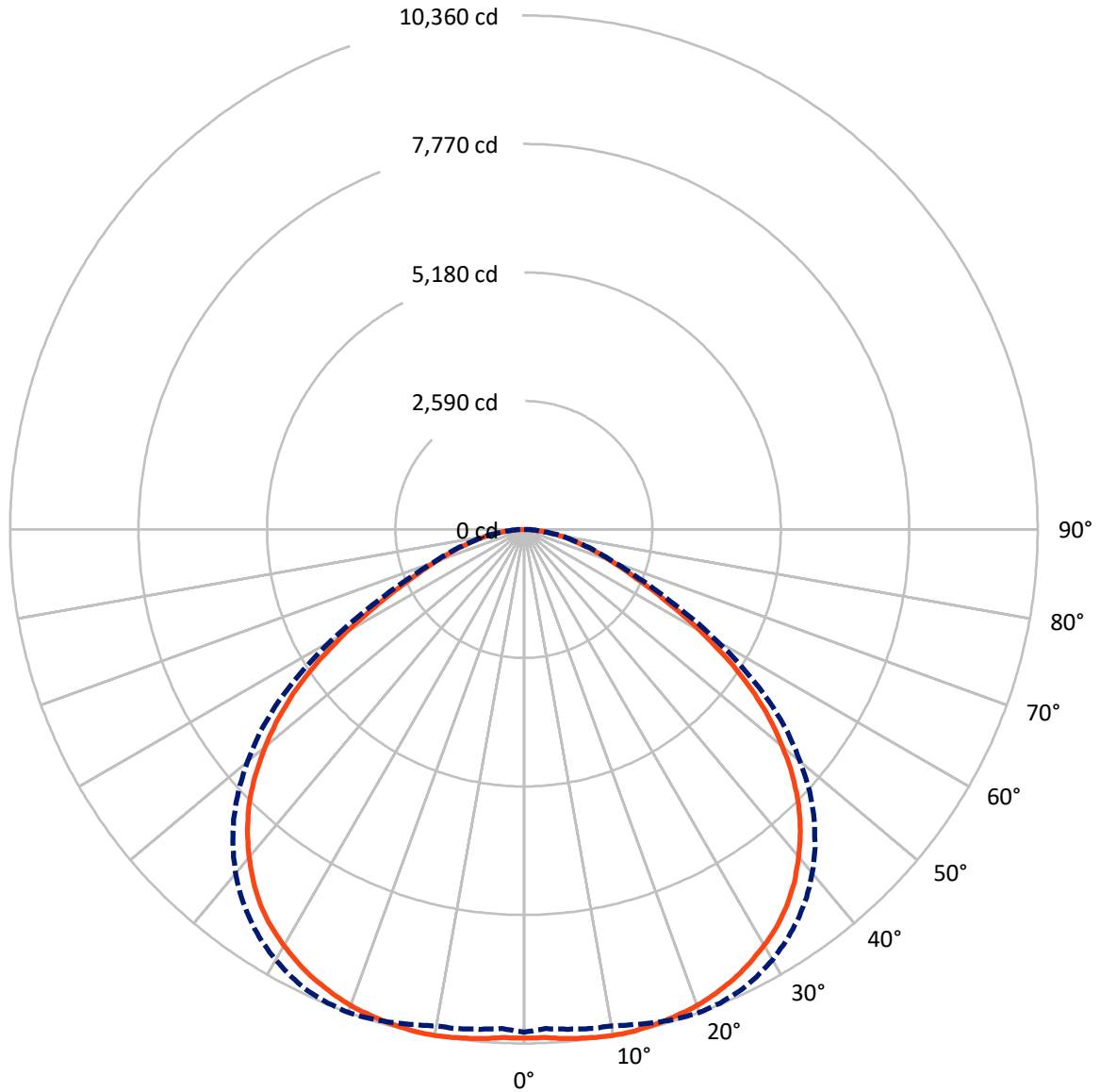
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Lumen Table



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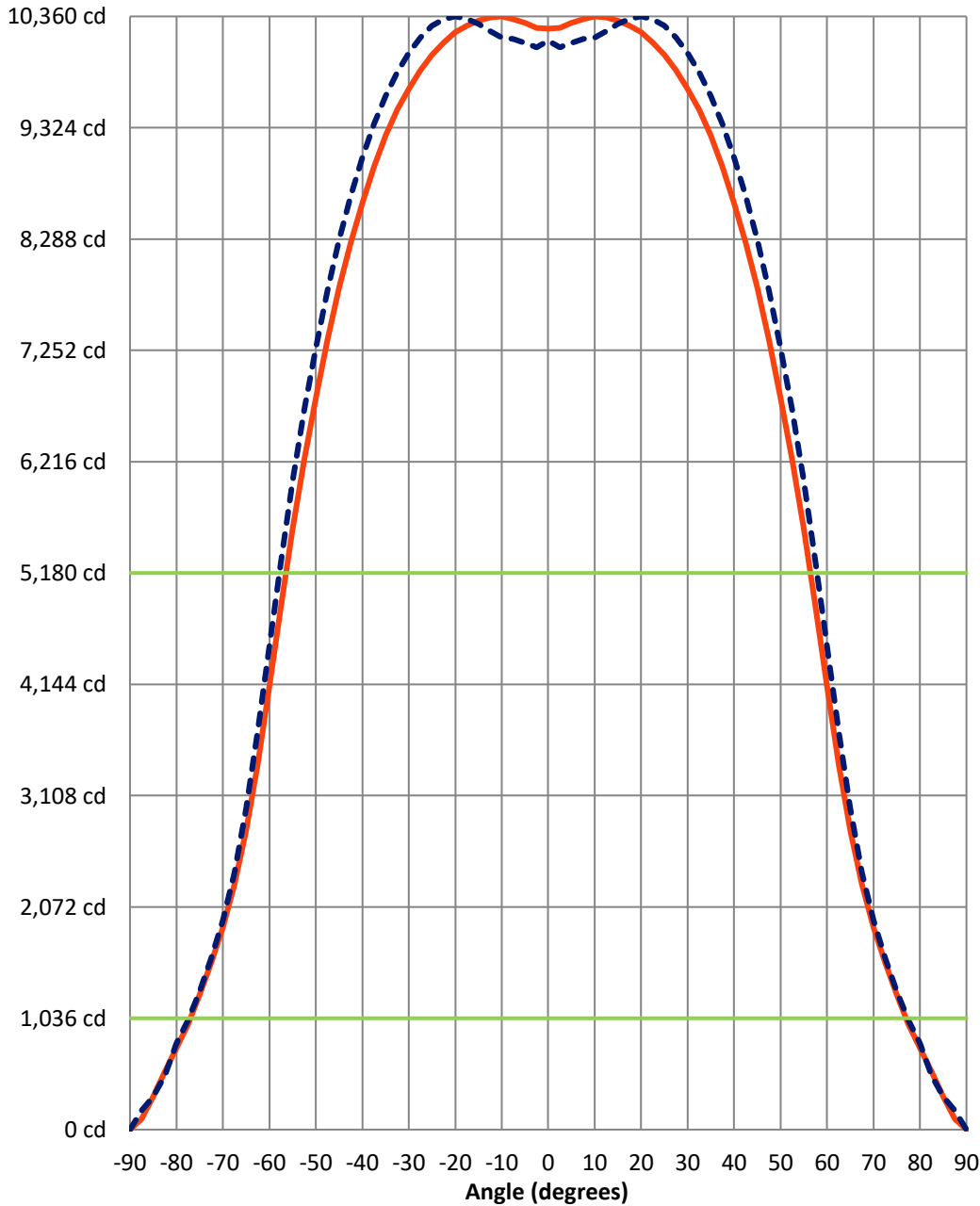
Luminous Intensity Polar Plot



— 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: 19502.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 23380.3
 Efficiency: 73.6%

Spill:
 Lumens: 8402.5
 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	97.0	100.3	103.7	107.0	103.7	100.3	100.3	97.0
85°	224.1	230.7	234.1	257.5	280.9	294.3	311.0	307.7	307.7	304.3	301.0
82.5°	448.1	468.2	484.9	508.3	521.7	541.7	555.1	545.1	538.4	525.0	515.0
80°	795.9	802.6	805.9	809.3	792.5	789.2	782.5	772.5	759.1	742.4	725.7
77.5°	1013.3	1019.9	1026.6	1019.9	1016.6	1013.3	1003.2	993.2	979.8	966.4	946.4
75°	1341.0	1341.0	1341.0	1330.9	1324.3	1314.2	1297.5	1280.8	1257.4	1230.6	1200.5
72.5°	1688.8	1685.4	1682.1	1662.0	1645.3	1625.2	1601.8	1581.7	1555.0	1524.9	1484.8
70°	2053.3	2059.9	2063.3	2036.5	2016.5	1989.7	1959.6	1922.8	1882.7	1839.2	1782.4
67.5°	2554.9	2548.2	2541.5	2504.7	2478.0	2441.2	2397.7	2344.2	2284.0	2217.1	2136.9
65°	3176.9	3186.9	3166.8	3130.1	3079.9	3019.7	2952.8	2875.9	2785.6	2685.3	2571.6
62.5°	3929.3	3946.0	3922.6	3875.8	3812.2	3732.0	3638.4	3528.0	3404.3	3263.8	3123.4
60°	4785.4	4782.0	4738.6	4675.0	4591.4	4491.1	4387.4	4267.0	4126.6	3962.7	3792.2
57.5°	5571.2	5564.5	5511.0	5447.5	5363.9	5256.9	5146.5	5019.5	4872.3	4698.4	4501.1
55°	6276.8	6270.1	6216.6	6149.8	6062.8	5955.8	5855.5	5735.1	5591.3	5407.4	5196.7
52.5°	6902.2	6905.5	6858.7	6785.1	6691.5	6587.8	6490.8	6370.5	6233.4	6049.4	5845.4
50°	7477.4	7474.0	7423.8	7357.0	7270.0	7169.7	7072.7	6952.3	6808.5	6631.3	6434.0
47.5°	8012.4	8005.7	7948.9	7875.3	7785.0	7698.1	7607.8	7500.8	7350.3	7173.0	6975.7
45°	8460.5	8447.1	8390.3	8320.1	8233.1	8156.2	8075.9	7995.7	7835.2	7671.3	7484.0
42.5°	8845.1	8841.7	8784.9	8714.7	8627.7	8560.8	8487.3	8386.9	8253.2	8102.7	7918.8
40°	9212.9	9186.2	9129.3	9062.4	8982.2	8925.3	8851.8	8751.4	8621.0	8473.9	8296.6
37.5°	9487.1	9490.5	9430.3	9356.7	9286.5	9233.0	9166.1	9072.5	8958.8	8815.0	8637.7
35°	9748.0	9731.3	9681.1	9617.6	9554.0	9493.8	9423.6	9343.3	9249.7	9115.9	8948.7
32.5°	9918.5	9941.9	9881.7	9814.9	9778.1	9731.3	9657.7	9574.1	9490.5	9356.7	9206.2
30°	10105.8	10085.7	10038.9	9982.1	9955.3	9925.2	9861.7	9781.4	9684.4	9564.1	9423.6
27.5°	10236.2	10226.2	10169.3	10115.8	10102.4	10075.7	10025.5	9955.3	9858.3	9741.3	9610.9
25°	10293.1	10299.7	10246.2	10216.1	10216.1	10199.4	10159.3	10099.1	10002.1	9895.1	9768.0
22.5°	10319.8	10313.1	10276.3	10269.7	10286.4	10273.0	10256.3	10202.8	10115.8	10028.9	9921.9
20°	10336.5	10289.7	10256.3	10283.0	10303.1	10299.7	10286.4	10252.9	10212.8	10139.2	10045.6
17.5°	10299.7	10269.7	10229.5	10269.7	10313.1	10316.5	10303.1	10283.0	10273.0	10226.2	10142.6
15°	10209.5	10186.1	10192.7	10232.9	10283.0	10299.7	10309.8	10333.2	10319.8	10283.0	10209.5
12.5°	10149.3	10119.2	10149.3	10189.4	10216.1	10226.2	10306.4	10349.9	10349.9	10316.5	10269.7
10°	10132.5	10072.4	10112.5	10149.3	10162.6	10222.8	10289.7	10336.5	10359.9	10333.2	10273.0
7.5°	10099.1	10059.0	10075.7	10092.4	10169.3	10212.8	10249.6	10299.7	10333.2	10329.8	10276.3
5°	10082.4	10032.2	10038.9	10109.1	10162.6	10192.7	10206.1	10249.6	10299.7	10309.8	10269.7
2.5°	10038.9	10015.5	10065.7	10072.4	10112.5	10135.9	10149.3	10189.4	10252.9	10276.3	10259.6
0°	10015.5	9982.1	9948.6	9975.4	10042.3	10092.4	10112.5	10172.7	10246.2	10269.7	10232.9



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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°	290.9	277.6	267.5	254.1	240.8	230.7	217.4	204.0	200.6	197.3	190.6
82.5°	501.6	484.9	468.2	448.1	428.0	404.6	381.2	354.5	347.8	341.1	331.1
80°	705.6	682.2	658.8	635.4	615.3	591.9	565.1	535.1	515.0	498.3	478.2
77.5°	919.6	886.2	852.7	812.6	789.2	765.8	739.0	708.9	678.8	652.1	622.0
75°	1163.7	1127.0	1093.5	1053.4	1009.9	966.4	923.0	882.8	839.4	799.2	759.1
72.5°	1434.6	1381.1	1327.6	1277.4	1223.9	1170.4	1113.6	1060.1	1006.6	953.1	896.2
70°	1718.9	1652.0	1585.1	1518.2	1448.0	1377.8	1310.9	1244.0	1177.1	1106.9	1043.4
67.5°	2053.3	1976.3	1889.4	1795.8	1692.1	1601.8	1514.9	1434.6	1354.4	1274.1	1193.8
65°	2471.3	2364.3	2247.2	2120.1	1999.8	1879.4	1752.3	1631.9	1538.3	1444.6	1354.4
62.5°	2986.3	2835.8	2671.9	2508.1	2360.9	2203.7	2056.6	1899.4	1752.3	1618.5	1508.2
60°	3601.6	3397.6	3196.9	2986.3	2782.3	2568.2	2381.0	2187.0	2003.1	1839.2	1678.7
57.5°	4280.4	4043.0	3802.2	3544.7	3267.2	3016.4	2762.2	2508.1	2290.7	2073.3	1892.7
55°	4969.3	4718.5	4447.6	4156.7	3852.4	3531.3	3186.9	2902.7	2605.0	2350.9	2116.8
52.5°	5624.7	5363.9	5083.0	4815.5	4451.0	4083.1	3705.2	3330.7	2982.9	2658.5	2374.3
50°	6209.9	5955.8	5684.9	5373.9	5036.2	4644.9	4223.6	3802.2	3390.9	3009.7	2655.2
47.5°	6745.0	6497.5	6226.7	5915.7	5608.0	5173.3	4748.6	4283.8	3825.6	3387.5	2972.9
45°	7246.6	6995.8	6714.9	6417.3	6062.8	5674.9	5236.8	4768.7	4277.1	3785.5	3307.3
42.5°	7701.4	7450.6	7166.4	6858.7	6507.6	6123.0	5698.3	5226.8	4731.9	4196.8	3671.8
40°	8099.3	7855.2	7581.0	7260.0	6932.3	6527.6	6109.6	5661.5	5149.9	4611.5	4033.0
37.5°	8447.1	8219.7	7948.9	7631.2	7283.4	6922.2	6490.8	6042.7	5581.3	4996.0	4404.1
35°	8754.8	8544.1	8266.6	7965.6	7624.5	7243.3	6838.6	6400.6	5902.3	5353.9	4778.7
32.5°	9022.3	8808.3	8554.1	8253.2	7922.1	7564.3	7149.6	6708.2	6236.7	5678.2	5052.9
30°	9249.7	9042.4	8801.6	8517.4	8199.7	7845.2	7440.6	6995.8	6514.3	5959.1	5340.5
27.5°	9447.0	9249.7	9015.6	8751.4	8447.1	8106.0	7698.1	7250.0	6758.4	6223.3	5604.7
25°	9617.6	9426.9	9209.6	8958.8	8657.8	8323.4	7938.8	7470.7	6979.1	6440.7	5828.7
22.5°	9771.4	9587.5	9370.1	9126.0	8851.8	8517.4	8129.4	7664.6	7166.4	6634.6	6032.7
20°	9908.5	9737.9	9523.9	9273.1	8998.9	8661.2	8276.6	7835.2	7333.6	6811.9	6216.6
17.5°	10018.8	9868.4	9654.3	9390.2	9115.9	8788.2	8413.7	8009.1	7477.4	6962.4	6370.5
15°	10095.8	9948.6	9754.7	9487.1	9219.6	8895.2	8520.7	8102.7	7607.8	7082.7	6497.5
12.5°	10149.3	9992.1	9811.5	9564.1	9296.5	8975.5	8611.0	8199.7	7718.1	7189.8	6607.9
10°	10162.6	10018.8	9838.3	9617.6	9356.7	9045.7	8687.9	8279.9	7808.4	7273.4	6698.2
7.5°	10169.3	10032.2	9868.4	9657.7	9400.2	9099.2	8744.8	8343.5	7875.3	7343.6	6765.1
5°	10166.0	10035.6	9888.4	9684.4	9426.9	9129.3	8781.5	8386.9	7922.1	7390.4	6815.2
2.5°	10156.0	10038.9	9901.8	9704.5	9457.0	9162.8	8818.3	8437.1	7972.3	7430.5	6855.4
0°	10182.7	10082.4	9908.5	9697.8	9463.7	9162.8	8815.0	8443.8	7979.0	7427.2	6852.0



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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	80.3	80.3	76.9	73.6	70.2	63.5	60.2	53.5	43.5	33.4
85°	180.6	170.5	160.5	153.8	147.1	140.5	130.4	120.4	107.0	86.9	66.9
82.5°	317.7	297.6	277.6	254.1	234.1	214.0	197.3	180.6	160.5	130.4	100.3
80°	454.8	424.7	394.6	361.2	331.1	297.6	267.5	240.8	214.0	173.9	133.8
77.5°	591.9	551.8	508.3	468.2	424.7	381.2	337.8	301.0	260.8	214.0	167.2
75°	719.0	672.2	632.0	575.2	521.7	464.8	408.0	357.8	307.7	250.8	200.6
72.5°	846.1	785.9	729.0	675.5	615.3	545.1	481.5	418.0	354.5	287.6	227.4
70°	973.1	899.6	829.3	765.8	698.9	628.7	551.8	478.2	401.3	321.0	250.8
67.5°	1103.5	1019.9	939.7	859.4	782.5	702.3	622.0	538.4	448.1	354.5	277.6
65°	1247.3	1143.7	1046.7	956.4	866.1	779.2	688.9	598.6	498.3	391.3	301.0
62.5°	1391.1	1277.4	1163.7	1050.0	949.7	852.7	755.8	655.4	545.1	431.4	324.4
60°	1545.0	1414.5	1284.1	1157.0	1033.3	926.3	819.3	712.3	595.2	468.2	347.8
57.5°	1715.5	1558.3	1411.2	1267.4	1127.0	999.9	882.8	769.1	638.7	505.0	374.5
55°	1909.5	1715.5	1541.6	1381.1	1227.3	1073.4	946.4	829.3	688.9	541.7	404.6
52.5°	2113.5	1889.4	1678.7	1498.1	1334.3	1160.4	1006.6	876.1	739.0	578.5	431.4
50°	2350.9	2066.6	1832.6	1611.8	1427.9	1247.3	1070.1	929.7	789.2	622.0	458.1
47.5°	2595.0	2280.7	1986.4	1745.6	1528.2	1330.9	1143.7	976.5	836.0	662.1	484.9
45°	2879.2	2484.6	2160.3	1876.0	1625.2	1417.9	1217.2	1026.6	876.1	702.3	511.6
42.5°	3153.5	2725.4	2340.9	2019.8	1735.6	1501.5	1284.1	1080.1	916.3	742.4	535.1
40°	3477.8	2966.2	2514.7	2156.9	1845.9	1581.7	1351.0	1137.0	953.1	779.2	558.5
37.5°	3788.8	3210.3	2725.4	2307.4	1952.9	1662.0	1417.9	1190.5	986.5	816.0	588.6
35°	4096.5	3481.2	2926.1	2447.9	2063.3	1752.3	1484.8	1240.7	1019.9	846.1	615.3
32.5°	4390.8	3735.3	3130.1	2605.0	2183.7	1835.9	1545.0	1287.5	1053.4	872.8	642.1
30°	4665.0	3976.1	3330.7	2765.5	2294.0	1912.8	1601.8	1334.3	1093.5	896.2	668.8
27.5°	4915.8	4210.2	3531.3	2916.0	2397.7	1983.0	1662.0	1377.8	1127.0	919.6	692.2
25°	5143.2	4420.9	3715.3	3053.1	2491.3	2059.9	1718.9	1421.2	1157.0	939.7	712.3
22.5°	5357.2	4614.8	3882.5	3190.2	2605.0	2136.9	1772.4	1461.4	1187.1	959.7	732.4
20°	5544.5	4792.1	4043.0	3327.4	2705.4	2207.1	1819.2	1498.1	1213.9	973.1	752.4
17.5°	5695.0	4949.2	4186.8	3447.7	2792.3	2267.3	1859.3	1531.6	1237.3	989.8	765.8
15°	5828.7	5083.0	4307.2	3551.4	2869.2	2317.4	1896.1	1558.3	1257.4	999.9	782.5
12.5°	5942.4	5196.7	4410.8	3641.7	2936.1	2360.9	1926.2	1578.4	1274.1	1009.9	792.5
10°	6036.1	5287.0	4497.8	3711.9	2989.6	2394.4	1949.6	1598.5	1287.5	1019.9	802.6
7.5°	6106.3	5353.9	4561.3	3772.1	3033.1	2417.8	1969.7	1611.8	1300.8	1026.6	819.3
5°	6159.8	5410.7	4611.5	3812.2	3066.5	2451.2	1993.1	1628.6	1314.2	1033.3	819.3
2.5°	6199.9	5457.5	4651.6	3845.7	3093.3	2444.5	1993.1	1625.2	1314.2	1033.3	816.0
0°	6193.2	5460.9	4648.3	3845.7	3093.3	2437.8	1993.1	1621.9	1314.2	1033.3	816.0



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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°	50.2	33.4	16.7	0.0
82.5°	73.6	46.8	23.4	0.0
80°	97.0	63.5	30.1	0.0
77.5°	123.7	80.3	40.1	0.0
75°	147.1	93.6	46.8	0.0
72.5°	170.5	110.4	53.5	0.0
70°	190.6	123.7	60.2	0.0
67.5°	210.7	140.5	70.2	0.0
65°	227.4	153.8	76.9	0.0
62.5°	240.8	170.5	83.6	0.0
60°	257.5	183.9	90.3	0.0
57.5°	270.9	194.0	97.0	0.0
55°	284.2	200.6	103.7	0.0
52.5°	297.6	210.7	110.4	0.0
50°	311.0	220.7	117.0	0.0
47.5°	324.4	227.4	120.4	0.0
45°	344.4	237.4	127.1	0.0
42.5°	361.2	244.1	133.8	0.0
40°	377.9	250.8	137.1	0.0
37.5°	394.6	257.5	143.8	0.0
35°	411.3	264.2	147.1	0.0
32.5°	424.7	270.9	150.5	0.0
30°	438.1	277.6	153.8	0.0
27.5°	451.5	280.9	157.2	0.0
25°	461.5	287.6	160.5	0.0
22.5°	471.5	290.9	163.9	0.0
20°	478.2	294.3	167.2	0.0
17.5°	488.2	297.6	170.5	0.0
15°	491.6	301.0	177.2	0.0
12.5°	498.3	304.3	177.2	0.0
10°	501.6	307.7	177.2	0.0
7.5°	508.3	307.7	177.2	0.0
5°	505.0	307.7	177.2	0.0
2.5°	505.0	307.7	177.2	0.0
0°	501.6	307.7	177.2	0.0

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