

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: P628379

Luminaire Tested: **IFLD-L-SA8B-827-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628379
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

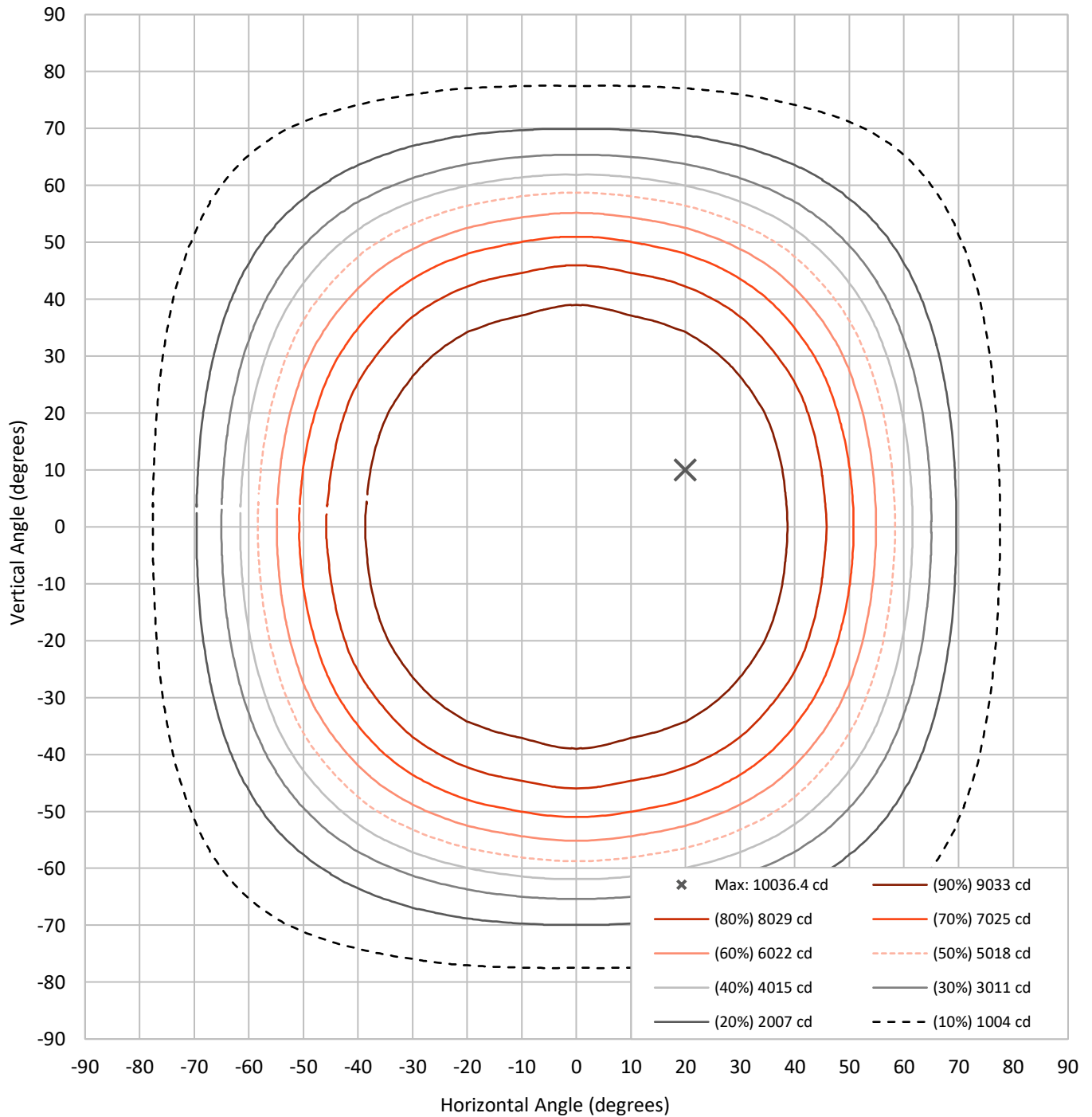
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30790.3 lumens	Max Intensity:	10036.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	96.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	18893.6 lumens	Field Lumens:	22650.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 320
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



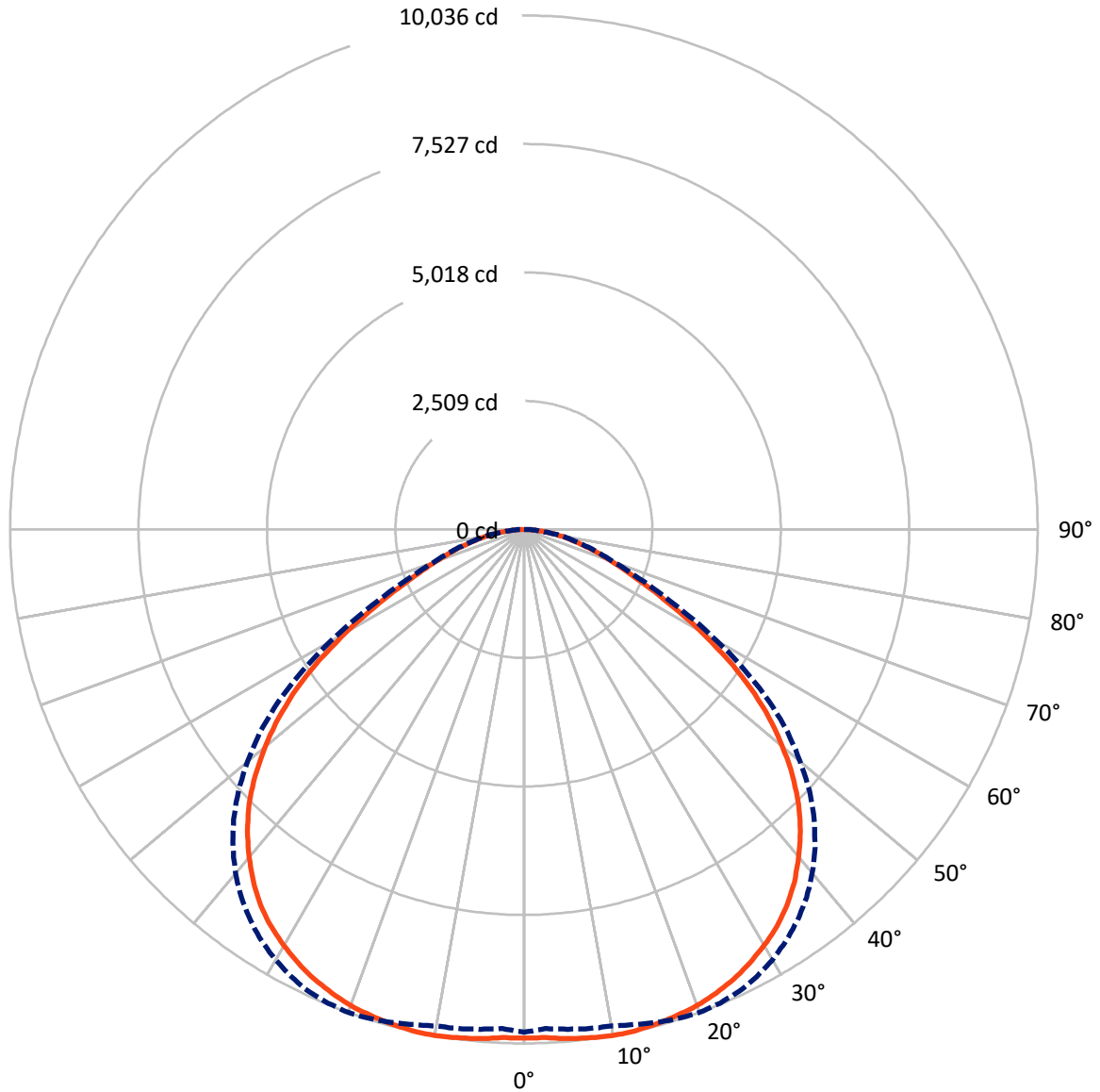
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Iso-Candela Plot



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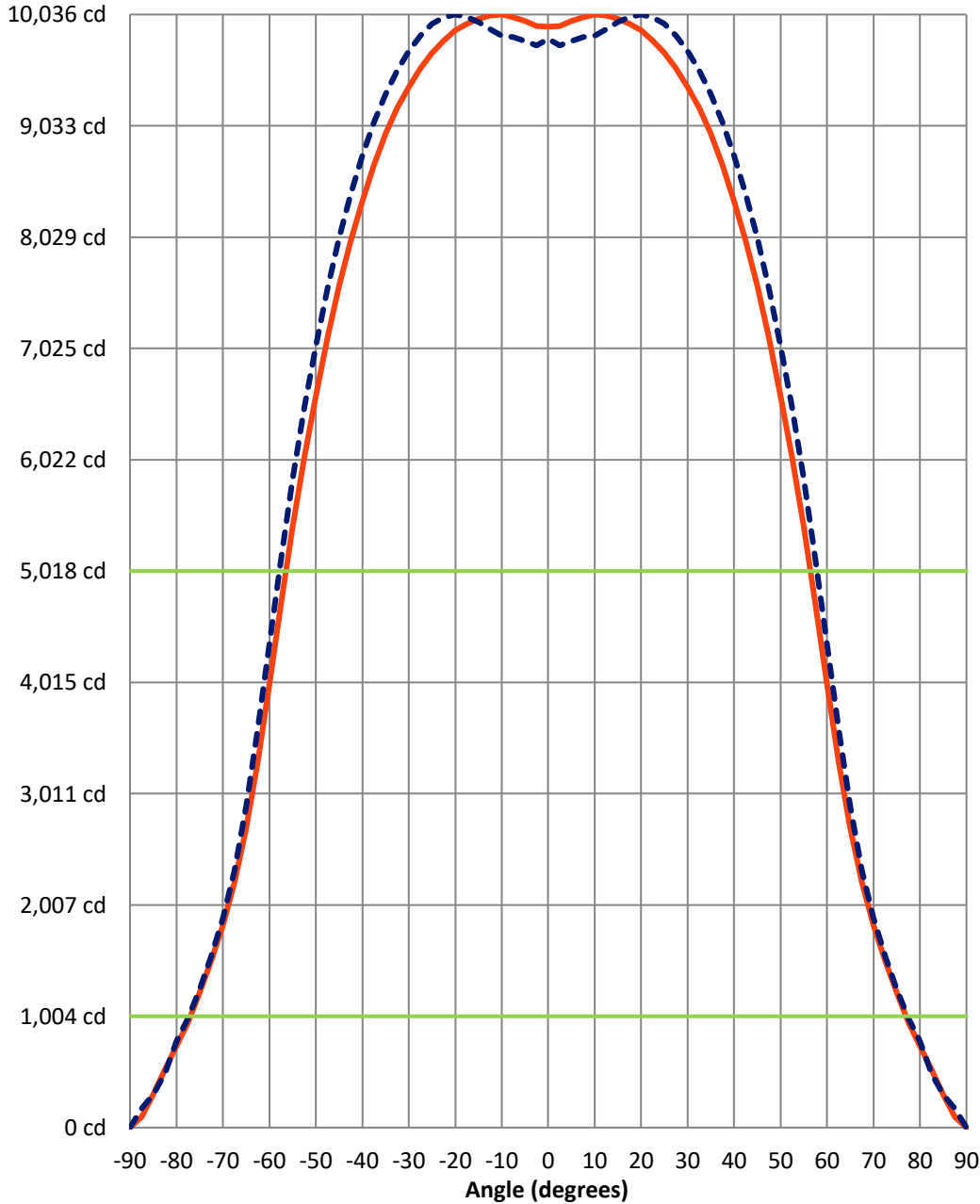
Luminous Intensity Polar Plot



— 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: 18893.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 22650.2
 Efficiency: 73.6%

Spill:
 Lumens: 8140.1
 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°	81.0	87.5	90.7	93.9	97.2	100.4	103.7	100.4	97.2	97.2	93.9
85°	217.1	223.5	226.8	249.5	272.1	285.1	301.3	298.0	298.0	294.8	291.6
82.5°	434.1	453.5	469.7	492.4	505.4	524.8	537.8	528.1	521.6	508.6	498.9
80°	771.0	777.5	780.8	784.0	767.8	764.6	758.1	748.4	735.4	719.2	703.0
77.5°	981.6	988.1	994.6	988.1	984.9	981.6	971.9	962.2	949.2	936.3	916.8
75°	1299.1	1299.1	1299.1	1289.4	1282.9	1273.2	1257.0	1240.8	1218.1	1192.2	1163.0
72.5°	1636.0	1632.8	1629.5	1610.1	1593.9	1574.5	1551.8	1532.4	1506.4	1477.3	1438.4
70°	1989.1	1995.6	1998.9	1972.9	1953.5	1927.6	1898.4	1862.8	1823.9	1781.8	1726.7
67.5°	2475.1	2468.6	2462.1	2426.5	2400.6	2364.9	2322.8	2271.0	2212.7	2147.9	2070.1
65°	3077.7	3087.4	3067.9	3032.3	2983.7	2925.4	2860.6	2786.1	2698.6	2601.4	2491.3
62.5°	3806.6	3822.8	3800.1	3754.7	3693.2	3615.4	3524.7	3417.8	3298.0	3161.9	3025.8
60°	4635.9	4632.7	4590.6	4529.0	4448.0	4350.8	4250.4	4133.8	3997.7	3839.0	3673.8
57.5°	5397.2	5390.8	5338.9	5277.4	5196.4	5092.7	4985.8	4862.7	4720.2	4551.7	4360.6
55°	6080.8	6074.3	6022.5	5957.7	5873.5	5769.8	5672.6	5556.0	5416.7	5238.5	5034.4
52.5°	6686.6	6689.9	6644.5	6573.2	6482.5	6382.1	6288.1	6171.5	6038.7	5860.5	5662.9
50°	7243.8	7240.6	7192.0	7127.2	7043.0	6945.8	6851.8	6735.2	6595.9	6424.2	6233.1
47.5°	7762.2	7755.7	7700.6	7629.4	7541.9	7457.7	7370.2	7266.5	7120.7	6949.0	6757.9
45°	8196.3	8183.3	8128.3	8060.2	7976.0	7901.5	7823.7	7746.0	7590.5	7431.7	7250.3
42.5°	8568.9	8565.6	8510.5	8442.5	8358.3	8293.5	8222.2	8125.0	7995.4	7849.6	7671.5
40°	8925.2	8899.3	8844.2	8779.4	8701.7	8646.6	8575.3	8478.1	8351.8	8209.3	8037.5
37.5°	9190.9	9194.1	9135.8	9064.5	8996.5	8944.6	8879.9	8789.1	8679.0	8539.7	8368.0
35°	9443.6	9427.4	9378.8	9317.2	9255.7	9197.3	9129.3	9051.6	8960.8	8831.3	8669.3
32.5°	9608.8	9631.5	9573.1	9508.3	9472.7	9427.4	9356.1	9275.1	9194.1	9064.5	8918.7
30°	9790.2	9770.8	9725.4	9670.3	9644.4	9615.3	9553.7	9475.9	9382.0	9265.4	9129.3
27.5°	9916.5	9906.8	9851.7	9799.9	9787.0	9761.0	9712.4	9644.4	9550.5	9437.1	9310.7
25°	9971.6	9978.1	9926.3	9897.1	9897.1	9880.9	9842.0	9783.7	9689.8	9586.1	9463.0
22.5°	9997.5	9991.1	9955.4	9948.9	9965.1	9952.2	9936.0	9884.1	9799.9	9715.7	9612.0
20°	10013.7	9968.4	9936.0	9961.9	9981.3	9978.1	9965.1	9932.7	9893.9	9822.6	9731.9
17.5°	9978.1	9948.9	9910.1	9948.9	9991.1	9994.3	9981.3	9961.9	9952.2	9906.8	9825.8
15°	9890.6	9867.9	9874.4	9913.3	9961.9	9978.1	9987.8	10010.5	9997.5	9961.9	9890.6
12.5°	9832.3	9803.2	9832.3	9871.2	9897.1	9906.8	9984.6	10026.7	10026.7	9994.3	9948.9
10°	9816.1	9757.8	9796.7	9832.3	9845.3	9903.6	9968.4	10013.7	10036.4	10010.5	9952.2
7.5°	9783.7	9744.8	9761.0	9777.2	9851.7	9893.9	9929.5	9978.1	10010.5	10007.3	9955.4
5°	9767.5	9718.9	9725.4	9793.4	9845.3	9874.4	9887.4	9929.5	9978.1	9987.8	9948.9
2.5°	9725.4	9702.7	9751.3	9757.8	9796.7	9819.4	9832.3	9871.2	9932.7	9955.4	9939.2
0°	9702.7	9670.3	9637.9	9663.8	9728.6	9777.2	9796.7	9855.0	9926.3	9948.9	9913.3



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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°	90.7	87.5	84.2	81.0	84.2	84.2	84.2	81.0	84.2	81.0	81.0
85°	281.8	268.9	259.2	246.2	233.3	223.5	210.6	197.6	194.4	191.1	184.7
82.5°	485.9	469.7	453.5	434.1	414.7	392.0	369.3	343.4	336.9	330.4	320.7
80°	683.6	660.9	638.2	615.5	596.1	573.4	547.5	518.3	498.9	482.7	463.3
77.5°	890.9	858.5	826.1	787.2	764.6	741.9	716.0	686.8	657.6	631.7	602.6
75°	1127.4	1091.8	1059.4	1020.5	978.4	936.3	894.1	855.3	813.1	774.3	735.4
72.5°	1389.8	1338.0	1286.1	1237.5	1185.7	1133.9	1078.8	1027.0	975.1	923.3	868.2
70°	1665.2	1600.4	1535.6	1470.8	1402.8	1334.7	1269.9	1205.1	1140.4	1072.3	1010.8
67.5°	1989.1	1914.6	1830.4	1739.7	1639.3	1551.8	1467.6	1389.8	1312.1	1234.3	1156.6
65°	2394.1	2290.4	2177.0	2053.9	1937.3	1820.7	1697.6	1580.9	1490.2	1399.5	1312.1
62.5°	2893.0	2747.2	2588.5	2429.7	2287.2	2134.9	1992.4	1840.1	1697.6	1568.0	1461.1
60°	3489.1	3291.5	3097.1	2893.0	2695.4	2488.0	2306.6	2118.7	1940.5	1781.8	1626.3
57.5°	4146.7	3916.7	3683.5	3434.0	3165.1	2922.2	2675.9	2429.7	2219.2	2008.6	1833.6
55°	4814.1	4571.1	4308.7	4026.9	3732.1	3421.1	3087.4	2812.0	2523.7	2277.5	2050.7
52.5°	5449.1	5196.4	4924.3	4665.1	4312.0	3955.6	3589.5	3226.7	2889.8	2575.5	2300.1
50°	6016.0	5769.8	5507.4	5206.1	4878.9	4499.9	4091.7	3683.5	3285.0	2915.7	2572.3
47.5°	6534.4	6294.6	6032.2	5730.9	5432.9	5011.7	4600.3	4150.0	3706.1	3281.8	2880.0
45°	7020.3	6777.3	6505.2	6216.9	5873.5	5497.7	5073.3	4619.7	4143.5	3667.3	3204.0
42.5°	7460.9	7217.9	6942.6	6644.5	6304.3	5931.8	5520.3	5063.6	4584.1	4065.7	3557.1
40°	7846.4	7609.9	7344.3	7033.3	6715.8	6323.8	5918.8	5484.7	4989.0	4467.5	3907.0
37.5°	8183.3	7963.0	7700.6	7392.9	7055.9	6706.1	6288.1	5854.0	5407.0	4840.0	4266.6
35°	8481.4	8277.3	8008.4	7716.8	7386.4	7017.1	6625.1	6200.7	5718.0	5186.7	4629.4
32.5°	8740.6	8533.2	8287.0	7995.4	7674.7	7328.1	6926.4	6498.7	6041.9	5500.9	4895.1
30°	8960.8	8760.0	8526.7	8251.4	7943.6	7600.2	7208.2	6777.3	6310.8	5773.0	5173.7
27.5°	9152.0	8960.8	8734.1	8478.1	8183.3	7852.9	7457.7	7023.5	6547.3	6029.0	5429.6
25°	9317.2	9132.5	8922.0	8679.0	8387.4	8063.5	7690.9	7237.4	6761.1	6239.5	5646.7
22.5°	9466.2	9288.1	9077.5	8841.0	8575.3	8251.4	7875.6	7425.3	6942.6	6427.4	5844.3
20°	9599.1	9433.8	9226.5	8983.5	8717.9	8390.7	8018.1	7590.5	7104.5	6599.1	6022.5
17.5°	9706.0	9560.2	9352.8	9096.9	8831.3	8513.8	8150.9	7758.9	7243.8	6744.9	6171.5
15°	9780.5	9637.9	9450.0	9190.9	8931.7	8617.4	8254.6	7849.6	7370.2	6861.6	6294.6
12.5°	9832.3	9680.0	9505.1	9265.4	9006.2	8695.2	8342.1	7943.6	7477.1	6965.2	6401.5
10°	9845.3	9706.0	9531.0	9317.2	9064.5	8763.2	8416.6	8021.4	7564.6	7046.2	6489.0
7.5°	9851.7	9718.9	9560.2	9356.1	9106.6	8815.1	8471.7	8082.9	7629.4	7114.3	6553.8
5°	9848.5	9722.2	9579.6	9382.0	9132.5	8844.2	8507.3	8125.0	7674.7	7159.6	6602.4
2.5°	9838.8	9725.4	9592.6	9401.4	9161.7	8876.6	8542.9	8173.6	7723.3	7198.5	6641.3
0°	9864.7	9767.5	9599.1	9395.0	9168.2	8876.6	8539.7	8180.1	7729.8	7195.2	6638.0



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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°	81.0	77.8	77.8	74.5	71.3	68.0	61.6	58.3	51.8	42.1	32.4
85°	174.9	165.2	155.5	149.0	142.5	136.1	126.3	116.6	103.7	84.2	64.8
82.5°	307.8	288.3	268.9	246.2	226.8	207.3	191.1	174.9	155.5	126.3	97.2
80°	440.6	411.4	382.3	349.9	320.7	288.3	259.2	233.3	207.3	168.5	129.6
77.5°	573.4	534.5	492.4	453.5	411.4	369.3	327.2	291.6	252.7	207.3	162.0
75°	696.5	651.2	612.3	557.2	505.4	450.3	395.2	346.6	298.0	243.0	194.4
72.5°	819.6	761.3	706.2	654.4	596.1	528.1	466.5	405.0	343.4	278.6	220.3
70°	942.7	871.5	803.4	741.9	677.1	609.1	534.5	463.3	388.8	311.0	243.0
67.5°	1069.1	988.1	910.3	832.6	758.1	680.3	602.6	521.6	434.1	343.4	268.9
65°	1208.4	1108.0	1014.0	926.5	839.1	754.8	667.4	579.9	482.7	379.0	291.6
62.5°	1347.7	1237.5	1127.4	1017.2	920.1	826.1	732.2	635.0	528.1	417.9	314.2
60°	1496.7	1370.4	1244.0	1120.9	1001.0	897.4	793.7	690.0	576.7	453.5	336.9
57.5°	1661.9	1509.7	1367.1	1227.8	1091.8	968.7	855.3	745.1	618.8	489.2	362.8
55°	1849.8	1661.9	1493.5	1338.0	1188.9	1039.9	916.8	803.4	667.4	524.8	392.0
52.5°	2047.5	1830.4	1626.3	1451.4	1292.6	1124.2	975.1	848.8	716.0	560.5	417.9
50°	2277.5	2002.1	1775.3	1561.5	1383.3	1208.4	1036.7	900.6	764.6	602.6	443.8
47.5°	2514.0	2209.4	1924.3	1691.1	1480.5	1289.4	1108.0	946.0	809.9	641.4	469.7
45°	2789.3	2407.1	2092.8	1817.4	1574.5	1373.6	1179.2	994.6	848.8	680.3	495.7
42.5°	3055.0	2640.3	2267.7	1956.7	1681.4	1454.6	1244.0	1046.4	887.7	719.2	518.3
40°	3369.2	2873.6	2436.2	2089.6	1788.3	1532.4	1308.8	1101.5	923.3	754.8	541.0
37.5°	3670.5	3110.1	2640.3	2235.4	1892.0	1610.1	1373.6	1153.3	955.7	790.5	570.2
35°	3968.6	3372.5	2834.7	2371.4	1998.9	1697.6	1438.4	1201.9	988.1	819.6	596.1
32.5°	4253.6	3618.7	3032.3	2523.7	2115.5	1778.6	1496.7	1247.3	1020.5	845.5	622.0
30°	4519.3	3851.9	3226.7	2679.2	2222.4	1853.1	1551.8	1292.6	1059.4	868.2	647.9
27.5°	4762.3	4078.7	3421.1	2825.0	2322.8	1921.1	1610.1	1334.7	1091.8	890.9	670.6
25°	4982.6	4282.8	3599.2	2957.8	2413.5	1995.6	1665.2	1376.8	1120.9	910.3	690.0
22.5°	5189.9	4470.7	3761.2	3090.6	2523.7	2070.1	1717.0	1415.7	1150.1	929.8	709.5
20°	5371.3	4642.4	3916.7	3223.4	2620.9	2138.2	1762.4	1451.4	1176.0	942.7	728.9
17.5°	5517.1	4794.7	4056.0	3340.1	2705.1	2196.5	1801.2	1483.8	1198.7	958.9	741.9
15°	5646.7	4924.3	4172.7	3440.5	2779.6	2245.1	1836.9	1509.7	1218.1	968.7	758.1
12.5°	5756.8	5034.4	4273.1	3528.0	2844.4	2287.2	1866.0	1529.1	1234.3	978.4	767.8
10°	5847.6	5121.9	4357.3	3596.0	2896.2	2319.6	1888.7	1548.5	1247.3	988.1	777.5
7.5°	5915.6	5186.7	4418.9	3654.3	2938.4	2342.3	1908.1	1561.5	1260.2	994.6	793.7
5°	5967.4	5241.7	4467.5	3693.2	2970.8	2374.7	1930.8	1577.7	1273.2	1001.0	793.7
2.5°	6006.3	5287.1	4506.3	3725.6	2996.7	2368.2	1930.8	1574.5	1273.2	1001.0	790.5
0°	5999.8	5290.3	4503.1	3725.6	2996.7	2361.7	1930.8	1571.2	1273.2	1001.0	790.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.7	16.2	6.5	0.0
85°	48.6	32.4	16.2	0.0
82.5°	71.3	45.4	22.7	0.0
80°	93.9	61.6	29.2	0.0
77.5°	119.9	77.8	38.9	0.0
75°	142.5	90.7	45.4	0.0
72.5°	165.2	106.9	51.8	0.0
70°	184.7	119.9	58.3	0.0
67.5°	204.1	136.1	68.0	0.0
65°	220.3	149.0	74.5	0.0
62.5°	233.3	165.2	81.0	0.0
60°	249.5	178.2	87.5	0.0
57.5°	262.4	187.9	93.9	0.0
55°	275.4	194.4	100.4	0.0
52.5°	288.3	204.1	106.9	0.0
50°	301.3	213.8	113.4	0.0
47.5°	314.2	220.3	116.6	0.0
45°	333.7	230.0	123.1	0.0
42.5°	349.9	236.5	129.6	0.0
40°	366.1	243.0	132.8	0.0
37.5°	382.3	249.5	139.3	0.0
35°	398.5	255.9	142.5	0.0
32.5°	411.4	262.4	145.8	0.0
30°	424.4	268.9	149.0	0.0
27.5°	437.4	272.1	152.3	0.0
25°	447.1	278.6	155.5	0.0
22.5°	456.8	281.8	158.7	0.0
20°	463.3	285.1	162.0	0.0
17.5°	473.0	288.3	165.2	0.0
15°	476.2	291.6	171.7	0.0
12.5°	482.7	294.8	171.7	0.0
10°	485.9	298.0	171.7	0.0
7.5°	492.4	298.0	171.7	0.0
5°	489.2	298.0	171.7	0.0
2.5°	489.2	298.0	171.7	0.0
0°	485.9	298.0	171.7	0.0

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