

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: P628482

Luminaire Tested: **IFLD-S-SA6D-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628482
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31244.9 lumens	Max Intensity:	10184.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	84.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

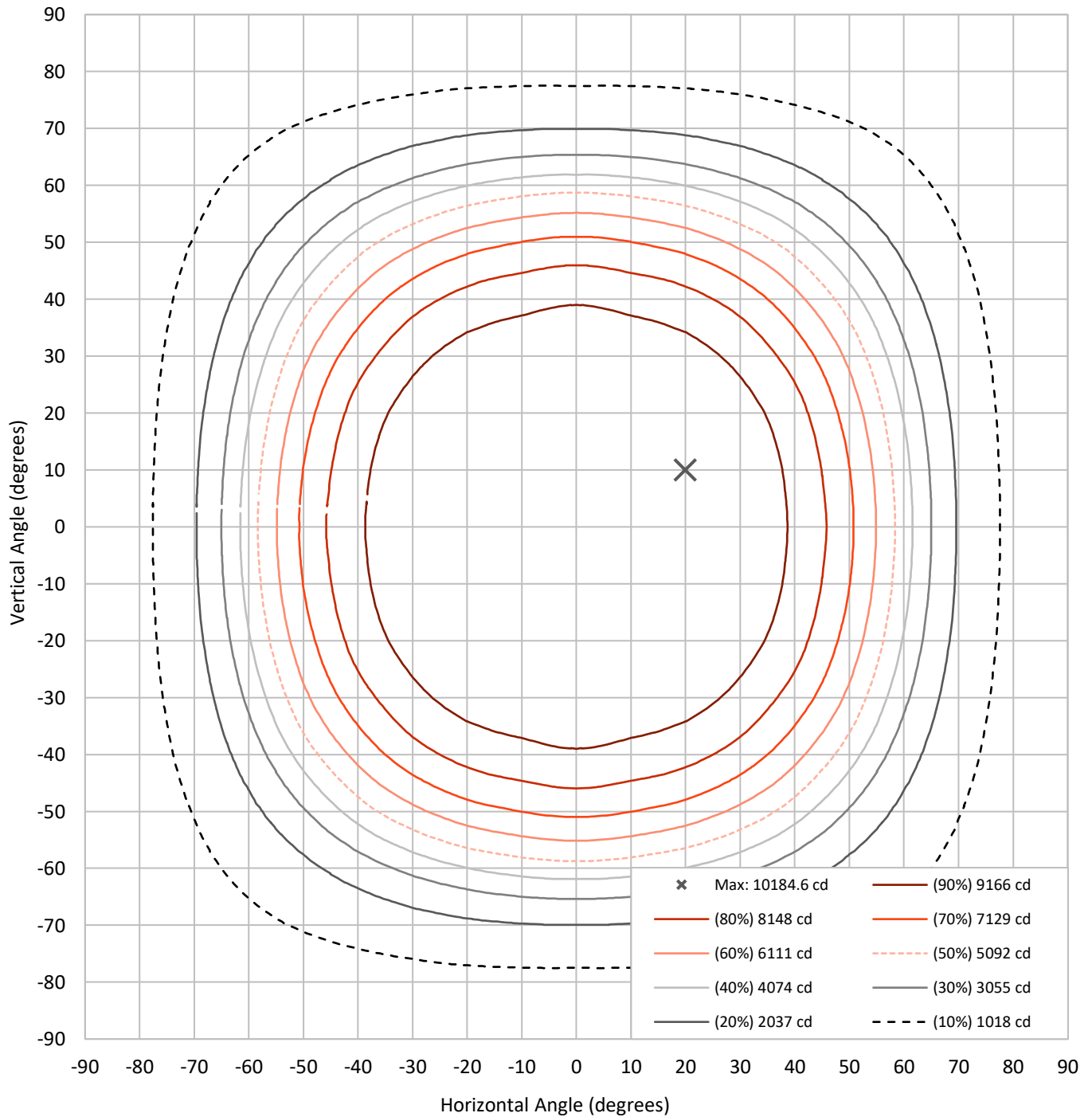
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	19172.5 lumens	Field Lumens:	22984.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 368.2
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



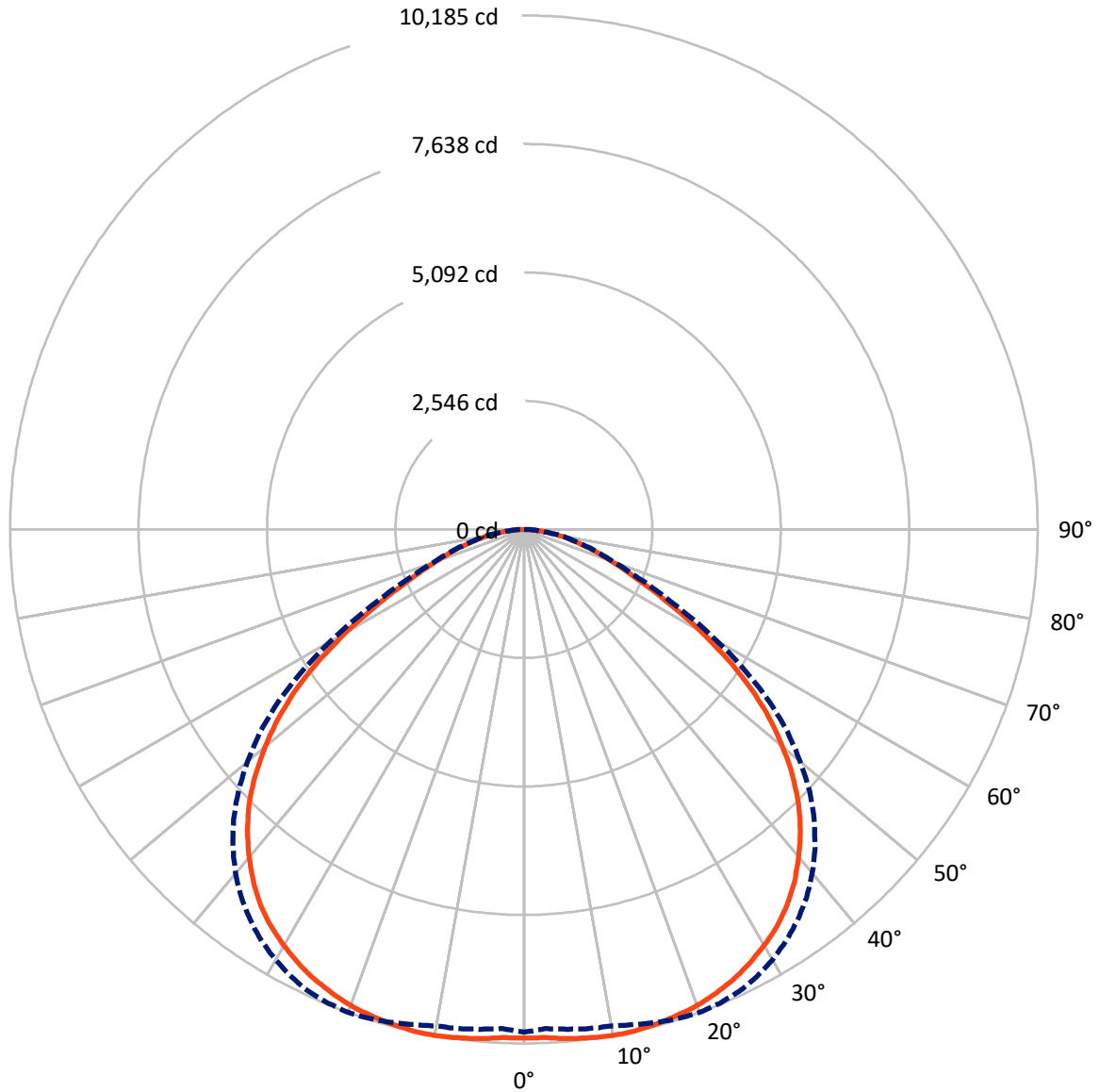
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Iso-Candela Plot



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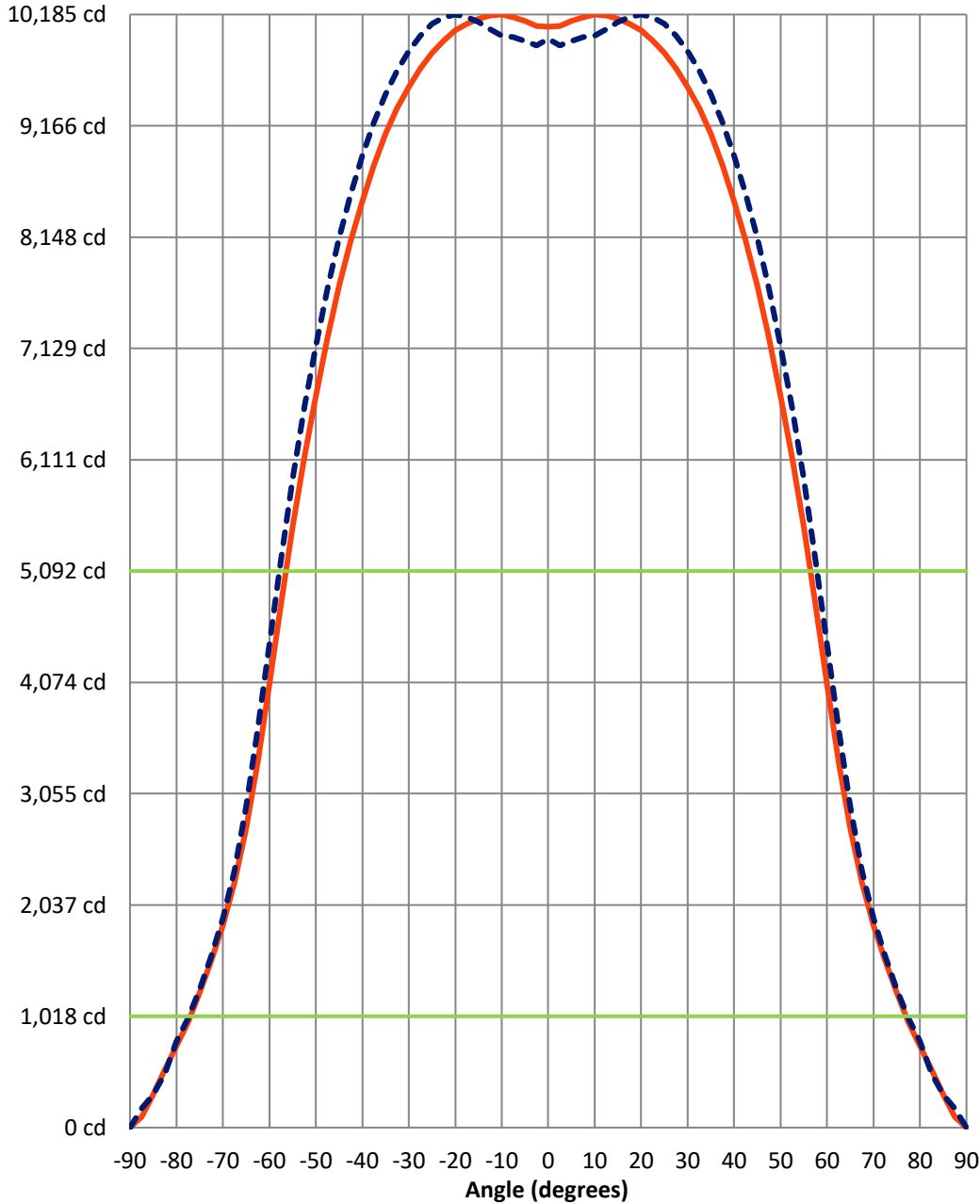
Luminous Intensity Polar Plot



— 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: 19172.5
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 22984.6
 Efficiency: 73.6%

Spill:
 Lumens: 8260.3
 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°	82.2	88.8	92.0	95.3	98.6	101.9	105.2	101.9	98.6	98.6	95.3
85°	220.3	226.8	230.1	253.1	276.1	289.3	305.7	302.4	302.4	299.2	295.9
82.5°	440.5	460.2	476.7	499.7	512.8	532.6	545.7	535.9	529.3	516.1	506.3
80°	782.4	789.0	792.3	795.6	779.1	775.8	769.3	759.4	746.3	729.8	713.4
77.5°	996.1	1002.7	1009.3	1002.7	999.4	996.1	986.2	976.4	963.2	950.1	930.4
75°	1318.3	1318.3	1318.3	1308.4	1301.8	1292.0	1275.5	1259.1	1236.1	1209.8	1180.2
72.5°	1660.2	1656.9	1653.6	1633.9	1617.4	1597.7	1574.7	1555.0	1528.7	1499.1	1459.6
70°	2018.5	2025.1	2028.4	2002.1	1982.3	1956.0	1926.5	1890.3	1850.8	1808.1	1752.2
67.5°	2511.6	2505.1	2498.5	2462.3	2436.0	2399.9	2357.1	2304.5	2245.3	2179.6	2100.7
65°	3123.1	3133.0	3113.2	3077.1	3027.8	2968.6	2902.8	2827.2	2738.5	2639.8	2528.1
62.5°	3862.8	3879.2	3856.2	3810.2	3747.7	3668.8	3576.8	3468.3	3346.6	3208.6	3070.5
60°	4704.4	4701.1	4658.3	4595.9	4513.7	4415.1	4313.2	4194.8	4056.7	3895.7	3728.0
57.5°	5476.9	5470.4	5417.8	5355.3	5273.1	5167.9	5059.4	4934.5	4789.8	4618.9	4424.9
55°	6170.6	6164.0	6111.4	6045.7	5960.2	5855.0	5756.4	5638.0	5496.7	5315.8	5108.7
52.5°	6785.3	6788.6	6742.6	6670.3	6578.2	6476.3	6381.0	6262.6	6127.8	5947.0	5746.5
50°	7350.8	7347.5	7298.2	7232.4	7147.0	7048.3	6953.0	6834.7	6693.3	6519.1	6325.1
47.5°	7876.8	7870.2	7814.3	7742.0	7653.2	7567.8	7479.0	7373.8	7225.9	7051.6	6857.7
45°	8317.3	8304.2	8248.3	8179.2	8093.8	8018.1	7939.2	7860.3	7702.5	7541.5	7357.4
42.5°	8695.4	8692.1	8636.2	8567.1	8481.7	8415.9	8343.6	8245.0	8113.5	7965.5	7784.7
40°	9057.0	9030.7	8974.8	8909.0	8830.1	8774.3	8701.9	8603.3	8475.1	8330.5	8156.2
37.5°	9326.6	9329.8	9270.7	9198.3	9129.3	9076.7	9011.0	8918.9	8807.1	8665.8	8491.5
35°	9583.0	9566.5	9517.2	9454.8	9392.3	9333.1	9264.1	9185.2	9093.1	8961.6	8797.3
32.5°	9750.6	9773.6	9714.5	9648.7	9612.6	9566.5	9494.2	9412.0	9329.8	9198.3	9050.4
30°	9934.7	9915.0	9869.0	9813.1	9786.8	9757.2	9694.8	9615.9	9520.5	9402.2	9264.1
27.5°	10062.9	10053.1	9997.2	9944.6	9931.4	9905.1	9855.8	9786.8	9691.5	9576.4	9448.2
25°	10118.8	10125.4	10072.8	10043.2	10043.2	10026.8	9987.3	9928.2	9832.8	9727.6	9602.7
22.5°	10145.1	10138.6	10102.4	10095.8	10112.3	10099.1	10082.7	10030.1	9944.6	9859.1	9753.9
20°	10161.6	10115.5	10082.7	10109.0	10128.7	10125.4	10112.3	10079.4	10039.9	9967.6	9875.6
17.5°	10125.4	10095.8	10056.4	10095.8	10138.6	10141.8	10128.7	10109.0	10099.1	10053.1	9970.9
15°	10036.6	10013.6	10020.2	10059.7	10109.0	10125.4	10135.3	10158.3	10145.1	10109.0	10036.6
12.5°	9977.5	9947.9	9977.5	10016.9	10043.2	10053.1	10132.0	10174.7	10174.7	10141.8	10095.8
10°	9961.0	9901.9	9941.3	9977.5	9990.6	10049.8	10115.5	10161.6	10184.6	10158.3	10099.1
7.5°	9928.2	9888.7	9905.1	9921.6	9997.2	10039.9	10076.1	10125.4	10158.3	10155.0	10102.4
5°	9911.7	9862.4	9869.0	9938.0	9990.6	10020.2	10033.4	10076.1	10125.4	10135.3	10095.8
2.5°	9869.0	9846.0	9895.3	9901.9	9941.3	9964.3	9977.5	10016.9	10079.4	10102.4	10086.0
0°	9846.0	9813.1	9780.2	9806.5	9872.3	9921.6	9941.3	10000.5	10072.8	10095.8	10059.7



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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°	92.0	88.8	85.5	82.2	85.5	85.5	85.5	82.2	85.5	82.2	82.2
85°	286.0	272.9	263.0	249.8	236.7	226.8	213.7	200.5	197.2	194.0	187.4
82.5°	493.1	476.7	460.2	440.5	420.8	397.8	374.8	348.5	341.9	335.3	325.5
80°	693.7	670.6	647.6	624.6	604.9	581.9	555.6	526.0	506.3	489.8	470.1
77.5°	904.1	871.2	838.3	798.9	775.8	752.8	726.5	696.9	667.4	641.1	611.5
75°	1144.0	1107.9	1075.0	1035.6	992.8	950.1	907.3	867.9	825.2	785.7	746.3
72.5°	1410.3	1357.7	1305.1	1255.8	1203.2	1150.6	1094.7	1042.1	989.5	936.9	881.0
70°	1689.8	1624.0	1558.3	1492.5	1423.5	1354.4	1288.7	1222.9	1157.2	1088.2	1025.7
67.5°	2018.5	1942.9	1857.4	1765.4	1663.5	1574.7	1489.2	1410.3	1331.4	1252.5	1173.6
65°	2429.4	2324.2	2209.2	2084.3	1965.9	1847.6	1722.6	1604.3	1512.2	1420.2	1331.4
62.5°	2935.7	2787.8	2626.7	2465.6	2321.0	2166.4	2021.8	1867.3	1722.6	1591.1	1482.6
60°	3540.6	3340.1	3142.8	2935.7	2735.2	2524.8	2340.7	2150.0	1969.2	1808.1	1650.3
57.5°	4208.0	3974.6	3737.9	3484.7	3211.9	2965.3	2715.5	2465.6	2251.9	2038.2	1860.7
55°	4885.2	4638.6	4372.3	4086.3	3787.2	3471.6	3133.0	2853.5	2560.9	2311.1	2081.0
52.5°	5529.5	5273.1	4997.0	4734.0	4375.6	4014.0	3642.5	3274.3	2932.4	2613.5	2334.1
50°	6104.8	5855.0	5588.7	5283.0	4950.9	4566.3	4152.1	3737.9	3333.5	2958.7	2610.3
47.5°	6630.8	6387.6	6121.3	5815.5	5513.1	5085.7	4668.2	4211.2	3760.9	3330.2	2922.6
45°	7123.9	6877.4	6601.2	6308.7	5960.2	5578.8	5148.2	4687.9	4204.7	3721.4	3251.3
42.5°	7571.0	7324.5	7045.0	6742.6	6397.4	6019.4	5601.8	5138.3	4651.8	4125.8	3609.6
40°	7962.3	7722.3	7452.7	7137.1	6814.9	6417.1	6006.2	5565.7	5062.7	4533.4	3964.7
37.5°	8304.2	8080.6	7814.3	7502.0	7160.1	6805.1	6381.0	5940.5	5486.8	4911.5	4329.6
35°	8606.6	8399.5	8126.6	7830.8	7495.4	7120.7	6722.9	6292.2	5802.4	5263.2	4697.8
32.5°	8869.6	8659.2	8409.3	8113.5	7788.0	7436.3	7028.6	6594.7	6131.1	5582.1	4967.4
30°	9093.1	8889.3	8652.6	8373.2	8060.9	7712.4	7314.6	6877.4	6404.0	5858.3	5250.1
27.5°	9287.1	9093.1	8863.0	8603.3	8304.2	7968.8	7567.8	7127.2	6644.0	6118.0	5509.8
25°	9454.8	9267.4	9053.7	8807.1	8511.3	8182.5	7804.5	7344.2	6861.0	6331.7	5730.1
22.5°	9606.0	9425.2	9211.5	8971.5	8701.9	8373.2	7991.8	7534.9	7045.0	6522.3	5930.6
20°	9740.8	9573.1	9362.7	9116.2	8846.6	8514.5	8136.5	7702.5	7209.4	6696.6	6111.4
17.5°	9849.3	9701.3	9490.9	9231.2	8961.6	8639.5	8271.3	7873.5	7350.8	6844.5	6262.6
15°	9924.9	9780.2	9589.6	9326.6	9063.6	8744.7	8376.5	7965.5	7479.0	6962.9	6387.6
12.5°	9977.5	9823.0	9645.4	9402.2	9139.2	8823.6	8465.2	8060.9	7587.5	7068.1	6496.0
10°	9990.6	9849.3	9671.7	9454.8	9198.3	8892.6	8540.8	8139.8	7676.2	7150.2	6584.8
7.5°	9997.2	9862.4	9701.3	9494.2	9241.1	8945.2	8596.7	8202.2	7742.0	7219.3	6650.6
5°	9993.9	9865.7	9721.1	9520.5	9267.4	8974.8	8632.9	8245.0	7788.0	7265.3	6699.9
2.5°	9984.0	9869.0	9734.2	9540.2	9297.0	9007.7	8669.1	8294.3	7837.3	7304.8	6739.3
0°	10010.3	9911.7	9740.8	9533.7	9303.5	9007.7	8665.8	8300.9	7843.9	7301.5	6736.0



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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°	82.2	78.9	78.9	75.6	72.3	69.0	62.5	59.2	52.6	42.7	32.9
85°	177.5	167.7	157.8	151.2	144.6	138.1	128.2	118.3	105.2	85.5	65.7
82.5°	312.3	292.6	272.9	249.8	230.1	210.4	194.0	177.5	157.8	128.2	98.6
80°	447.1	417.5	387.9	355.0	325.5	292.6	263.0	236.7	210.4	170.9	131.5
77.5°	581.9	542.4	499.7	460.2	417.5	374.8	332.0	295.9	256.4	210.4	164.4
75°	706.8	660.8	621.3	565.4	512.8	457.0	401.1	351.8	302.4	246.6	197.2
72.5°	831.7	772.6	716.7	664.1	604.9	535.9	473.4	410.9	348.5	282.7	223.5
70°	956.7	884.3	815.3	752.8	687.1	618.0	542.4	470.1	394.5	315.6	246.6
67.5°	1084.9	1002.7	923.8	844.9	769.3	690.4	611.5	529.3	440.5	348.5	272.9
65°	1226.2	1124.3	1029.0	940.2	851.5	766.0	677.2	588.5	489.8	384.6	295.9
62.5°	1367.6	1255.8	1144.0	1032.3	933.6	838.3	743.0	644.3	535.9	424.1	318.9
60°	1518.8	1390.6	1262.4	1137.5	1015.8	910.6	805.4	700.2	585.2	460.2	341.9
57.5°	1686.5	1532.0	1387.3	1246.0	1107.9	983.0	867.9	756.1	627.9	496.4	368.2
55°	1877.1	1686.5	1515.5	1357.7	1206.5	1055.3	930.4	815.3	677.2	532.6	397.8
52.5°	2077.7	1857.4	1650.3	1472.8	1311.7	1140.8	989.5	861.3	726.5	568.7	424.1
50°	2311.1	2031.7	1801.5	1584.6	1403.7	1226.2	1052.0	913.9	775.8	611.5	450.4
47.5°	2551.1	2242.1	1952.8	1716.1	1502.4	1308.4	1124.3	959.9	821.9	650.9	476.7
45°	2830.5	2442.6	2123.7	1844.3	1597.7	1393.9	1196.6	1009.3	861.3	690.4	503.0
42.5°	3100.1	2679.3	2301.2	1985.6	1706.2	1476.1	1262.4	1061.9	900.8	729.8	526.0
40°	3419.0	2916.0	2472.2	2120.4	1814.7	1555.0	1328.1	1117.7	936.9	766.0	549.0
37.5°	3724.7	3156.0	2679.3	2268.4	1919.9	1633.9	1393.9	1170.3	969.8	802.1	578.6
35°	4027.2	3422.3	2876.5	2406.4	2028.4	1722.6	1459.6	1219.7	1002.7	831.7	604.9
32.5°	4316.4	3672.1	3077.1	2560.9	2146.7	1804.8	1518.8	1265.7	1035.6	858.0	631.2
30°	4586.0	3908.8	3274.3	2718.7	2255.2	1880.4	1574.7	1311.7	1075.0	881.0	657.5
27.5°	4832.6	4138.9	3471.6	2866.7	2357.1	1949.5	1633.9	1354.4	1107.9	904.1	680.5
25°	5056.1	4346.0	3652.4	3001.5	2449.2	2025.1	1689.8	1397.2	1137.5	923.8	700.2
22.5°	5266.5	4536.7	3816.8	3136.2	2560.9	2100.7	1742.4	1436.6	1167.1	943.5	720.0
20°	5450.6	4710.9	3974.6	3271.0	2659.6	2169.7	1788.4	1472.8	1193.4	956.7	739.7
17.5°	5598.6	4865.5	4115.9	3389.4	2745.0	2228.9	1827.8	1505.7	1216.4	973.1	752.8
15°	5730.1	4997.0	4234.3	3491.3	2820.6	2278.2	1864.0	1532.0	1236.1	983.0	769.3
12.5°	5841.8	5108.7	4336.2	3580.1	2886.4	2321.0	1893.6	1551.7	1252.5	992.8	779.1
10°	5933.9	5197.5	4421.6	3649.1	2939.0	2353.8	1916.6	1571.4	1265.7	1002.7	789.0
7.5°	6002.9	5263.2	4484.1	3708.3	2981.7	2376.8	1936.3	1584.6	1278.8	1009.3	805.4
5°	6055.5	5319.1	4533.4	3747.7	3014.6	2409.7	1959.3	1601.0	1292.0	1015.8	805.4
2.5°	6095.0	5365.2	4572.9	3780.6	3040.9	2403.1	1959.3	1597.7	1292.0	1015.8	802.1
0°	6088.4	5368.4	4569.6	3780.6	3040.9	2396.6	1959.3	1594.4	1292.0	1015.8	802.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.0	16.4	6.6	0.0
85°	49.3	32.9	16.4	0.0
82.5°	72.3	46.0	23.0	0.0
80°	95.3	62.5	29.6	0.0
77.5°	121.6	78.9	39.4	0.0
75°	144.6	92.0	46.0	0.0
72.5°	167.7	108.5	52.6	0.0
70°	187.4	121.6	59.2	0.0
67.5°	207.1	138.1	69.0	0.0
65°	223.5	151.2	75.6	0.0
62.5°	236.7	167.7	82.2	0.0
60°	253.1	180.8	88.8	0.0
57.5°	266.3	190.7	95.3	0.0
55°	279.4	197.2	101.9	0.0
52.5°	292.6	207.1	108.5	0.0
50°	305.7	217.0	115.1	0.0
47.5°	318.9	223.5	118.3	0.0
45°	338.6	233.4	124.9	0.0
42.5°	355.0	240.0	131.5	0.0
40°	371.5	246.6	134.8	0.0
37.5°	387.9	253.1	141.4	0.0
35°	404.4	259.7	144.6	0.0
32.5°	417.5	266.3	147.9	0.0
30°	430.7	272.9	151.2	0.0
27.5°	443.8	276.1	154.5	0.0
25°	453.7	282.7	157.8	0.0
22.5°	463.5	286.0	161.1	0.0
20°	470.1	289.3	164.4	0.0
17.5°	480.0	292.6	167.7	0.0
15°	483.3	295.9	174.2	0.0
12.5°	489.8	299.2	174.2	0.0
10°	493.1	302.4	174.2	0.0
7.5°	499.7	302.4	174.2	0.0
5°	496.4	302.4	174.2	0.0
2.5°	496.4	302.4	174.2	0.0
0°	493.1	302.4	174.2	0.0

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