

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: P628365

Luminaire Tested: **IFLD-S-SA6C-827-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628365
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31435.8 lumens	Max Intensity:	10246.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	97.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

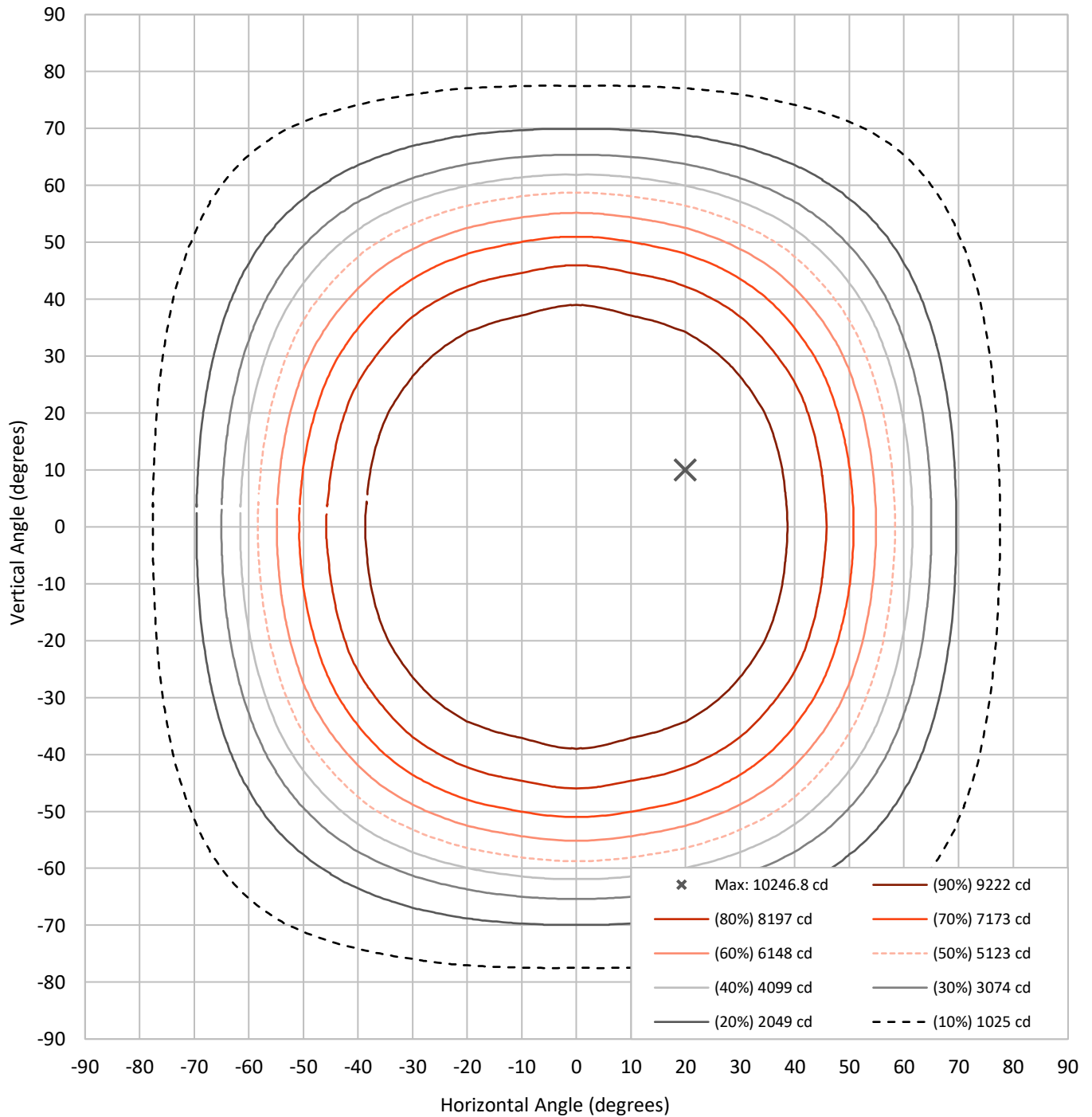
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	19289.6 lumens	Field Lumens:	23125 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 321.5
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



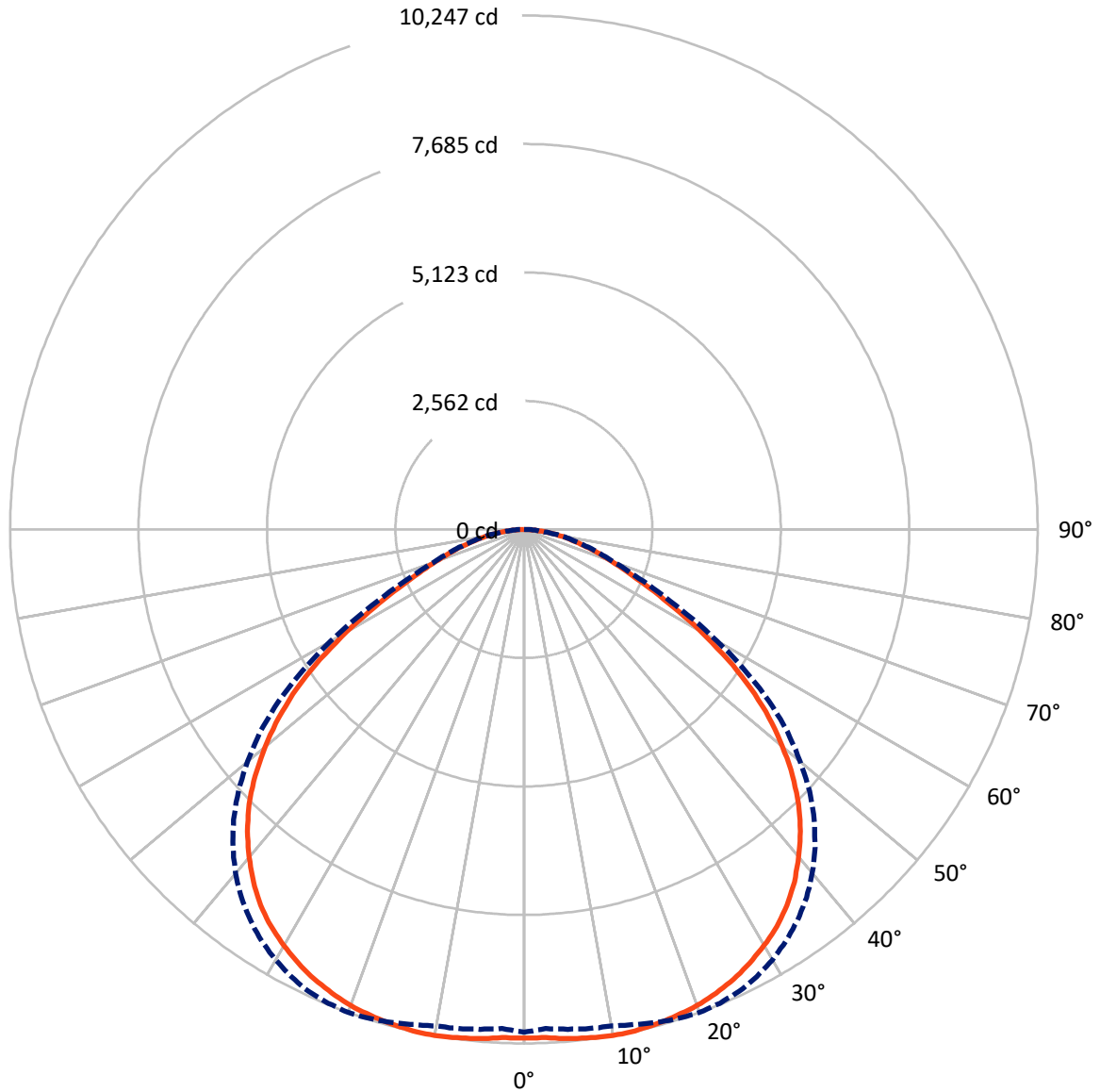
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Iso-Candela Plot



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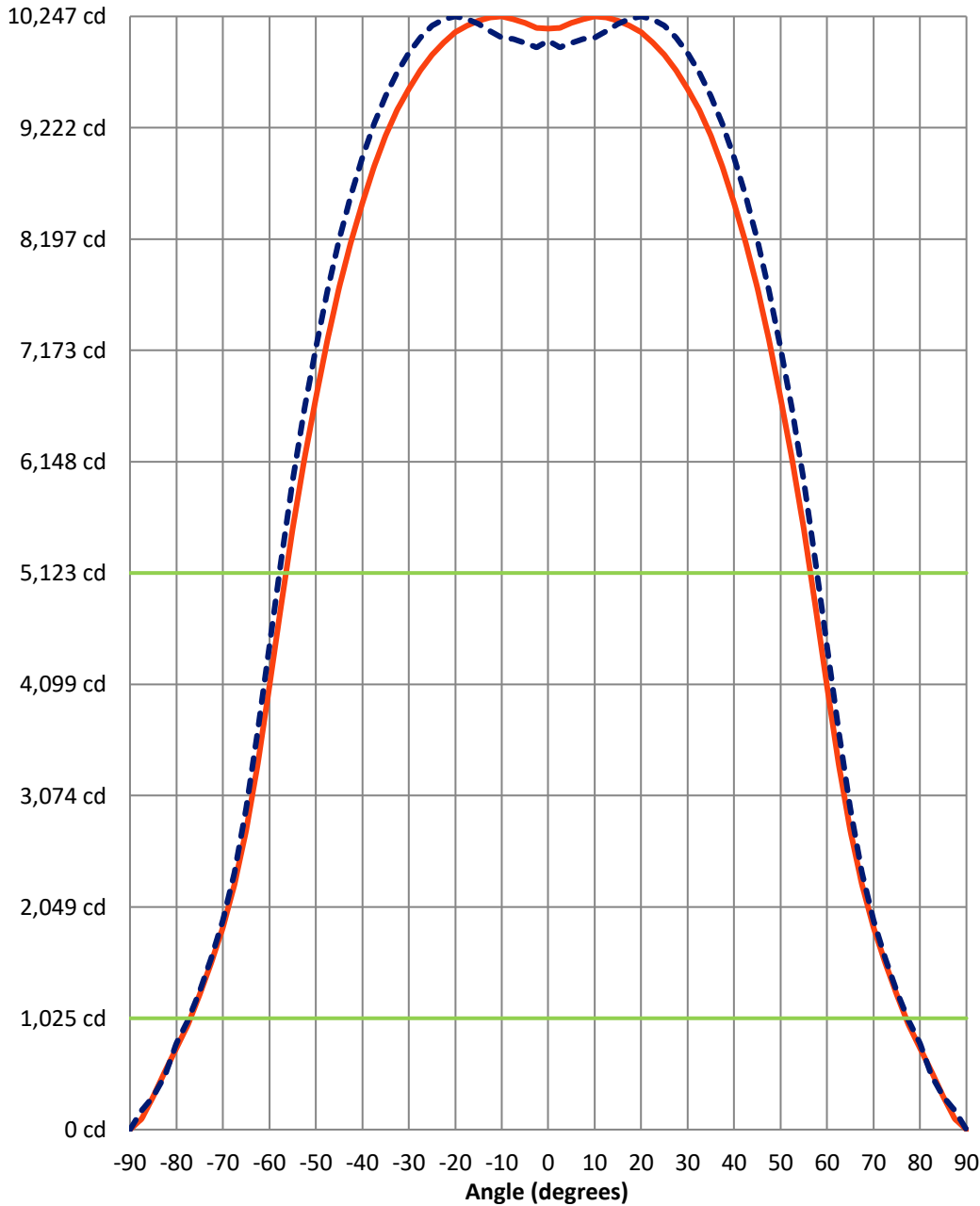
Luminous Intensity Polar Plot



— 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: 19289.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 23125
 Efficiency: 73.6%

Spill:
 Lumens: 8310.8
 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°	82.7	89.3	92.6	95.9	99.2	102.5	105.8	102.5	99.2	99.2	95.9
85°	221.6	228.2	231.5	254.7	277.8	291.1	307.6	304.3	304.3	301.0	297.7
82.5°	443.2	463.1	479.6	502.7	516.0	535.8	549.1	539.1	532.5	519.3	509.4
80°	787.2	793.8	797.1	800.4	783.9	780.6	774.0	764.0	750.8	734.3	717.7
77.5°	1002.2	1008.8	1015.4	1008.8	1005.5	1002.2	992.3	982.3	969.1	955.9	936.0
75°	1326.3	1326.3	1326.3	1316.4	1309.8	1299.9	1283.3	1266.8	1243.6	1217.2	1187.4
72.5°	1670.3	1667.0	1663.7	1643.9	1627.3	1607.5	1584.3	1564.5	1538.0	1508.2	1468.6
70°	2030.8	2037.5	2040.8	2014.3	1994.5	1968.0	1938.2	1901.8	1862.2	1819.2	1762.9
67.5°	2527.0	2520.4	2513.7	2477.4	2450.9	2414.5	2371.5	2318.6	2259.1	2192.9	2113.5
65°	3142.2	3152.1	3132.3	3095.9	3046.3	2986.7	2920.6	2844.5	2755.2	2656.0	2543.5
62.5°	3886.4	3902.9	3879.8	3833.5	3770.6	3691.2	3598.6	3489.5	3367.1	3228.2	3089.3
60°	4733.1	4729.8	4686.8	4624.0	4541.3	4442.0	4339.5	4220.4	4081.5	3919.4	3750.8
57.5°	5510.4	5503.8	5450.8	5388.0	5305.3	5199.5	5090.3	4964.6	4819.1	4647.1	4452.0
55°	6208.3	6201.7	6148.7	6082.6	5996.6	5890.7	5791.5	5672.5	5530.2	5348.3	5139.9
52.5°	6826.8	6830.1	6783.8	6711.0	6618.4	6515.9	6420.0	6300.9	6165.3	5983.4	5781.6
50°	7395.7	7392.4	7342.8	7276.6	7190.6	7091.4	6995.5	6876.4	6734.2	6558.9	6363.7
47.5°	7924.9	7918.3	7862.0	7789.3	7700.0	7614.0	7524.7	7418.8	7270.0	7094.7	6899.6
45°	8368.1	8354.9	8298.6	8229.2	8143.2	8067.1	7987.7	7908.4	7749.6	7587.5	7402.3
42.5°	8748.5	8745.2	8688.9	8619.5	8533.5	8467.3	8394.6	8295.3	8163.0	8014.2	7832.3
40°	9112.3	9085.8	9029.6	8963.5	8884.1	8827.9	8755.1	8655.9	8526.9	8381.3	8206.0
37.5°	9383.5	9386.8	9327.3	9254.5	9185.1	9132.1	9066.0	8973.4	8860.9	8718.7	8543.4
35°	9641.5	9625.0	9575.4	9512.5	9449.7	9390.1	9320.7	9241.3	9148.7	9016.4	8851.0
32.5°	9810.2	9833.3	9773.8	9707.7	9671.3	9625.0	9552.2	9469.5	9386.8	9254.5	9105.7
30°	9995.4	9975.6	9929.3	9873.0	9846.6	9816.8	9754.0	9674.6	9578.7	9459.6	9320.7
27.5°	10124.4	10114.5	10058.3	10005.3	9992.1	9965.7	9916.0	9846.6	9750.7	9634.9	9505.9
25°	10180.6	10187.3	10134.3	10104.6	10104.6	10088.0	10048.3	9988.8	9892.9	9787.0	9661.4
22.5°	10207.1	10200.5	10164.1	10157.5	10174.0	10160.8	10144.3	10091.3	10005.3	9919.3	9813.5
20°	10223.6	10177.3	10144.3	10170.7	10190.6	10187.3	10174.0	10141.0	10101.3	10028.5	9935.9
17.5°	10187.3	10157.5	10117.8	10157.5	10200.5	10203.8	10190.6	10170.7	10160.8	10114.5	10031.8
15°	10098.0	10074.8	10081.4	10121.1	10170.7	10187.3	10197.2	10220.3	10207.1	10170.7	10098.0
12.5°	10038.4	10008.6	10038.4	10078.1	10104.6	10114.5	10193.9	10236.9	10236.9	10203.8	10157.5
10°	10021.9	9962.3	10002.0	10038.4	10051.6	10111.2	10177.3	10223.6	10246.8	10220.3	10160.8
7.5°	9988.8	9949.1	9965.7	9982.2	10058.3	10101.3	10137.6	10187.3	10220.3	10217.0	10164.1
5°	9972.3	9922.7	9929.3	9998.7	10051.6	10081.4	10094.6	10137.6	10187.3	10197.2	10157.5
2.5°	9929.3	9906.1	9955.7	9962.3	10002.0	10025.2	10038.4	10078.1	10141.0	10164.1	10147.6
0°	9906.1	9873.0	9840.0	9866.4	9932.6	9982.2	10002.0	10061.6	10134.3	10157.5	10121.1



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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°	92.6	89.3	86.0	82.7	86.0	86.0	86.0	82.7	86.0	82.7	82.7
85°	287.8	274.5	264.6	251.4	238.1	228.2	215.0	201.8	198.5	195.1	188.5
82.5°	496.1	479.6	463.1	443.2	423.4	400.2	377.1	350.6	344.0	337.4	327.4
80°	697.9	674.7	651.6	628.4	608.6	585.4	559.0	529.2	509.4	492.8	473.0
77.5°	909.6	876.5	843.4	803.7	780.6	757.4	731.0	701.2	671.4	645.0	615.2
75°	1151.0	1114.6	1081.6	1041.9	998.9	955.9	912.9	873.2	830.2	790.5	750.8
72.5°	1418.9	1366.0	1313.1	1263.5	1210.6	1157.6	1101.4	1048.5	995.6	942.7	886.4
70°	1700.1	1633.9	1567.8	1501.6	1432.2	1362.7	1296.6	1230.4	1164.3	1094.8	1032.0
67.5°	2030.8	1954.8	1868.8	1776.2	1673.6	1584.3	1498.3	1418.9	1339.6	1260.2	1180.8
65°	2444.3	2338.4	2222.7	2097.0	1977.9	1858.8	1733.2	1614.1	1521.5	1428.9	1339.6
62.5°	2953.6	2804.8	2642.7	2480.7	2335.1	2179.7	2034.1	1878.7	1733.2	1600.9	1491.7
60°	3562.2	3360.5	3162.0	2953.6	2751.9	2540.2	2355.0	2163.1	1981.2	1819.2	1660.4
57.5°	4233.7	3998.8	3760.7	3506.0	3231.5	2983.4	2732.0	2480.7	2265.7	2050.7	1872.1
55°	4915.0	4667.0	4399.0	4111.3	3810.3	3492.8	3152.1	2871.0	2576.6	2325.2	2093.7
52.5°	5563.3	5305.3	5027.5	4762.9	4402.4	4038.5	3664.8	3294.3	2950.3	2629.5	2348.4
50°	6142.1	5890.7	5622.8	5315.2	4981.2	4594.2	4177.4	3760.7	3353.9	2976.8	2626.2
47.5°	6671.3	6426.6	6158.7	5851.1	5546.8	5116.8	4696.7	4237.0	3783.8	3350.5	2940.4
45°	7167.5	6919.4	6641.6	6347.2	5996.6	5612.9	5179.6	4716.6	4230.4	3744.1	3271.2
42.5°	7617.3	7369.2	7088.1	6783.8	6436.5	6056.1	5636.1	5169.7	4680.2	4151.0	3631.7
40°	8010.9	7769.4	7498.2	7180.7	6856.6	6456.3	6042.9	5599.7	5093.6	4561.1	3988.9
37.5°	8354.9	8130.0	7862.0	7547.8	7203.8	6846.6	6420.0	5976.7	5520.3	4941.5	4356.0
35°	8659.2	8450.8	8176.3	7878.6	7541.2	7164.2	6763.9	6330.7	5837.8	5295.4	4726.5
32.5°	8923.8	8712.1	8460.7	8163.0	7835.6	7481.7	7071.5	6634.9	6168.6	5616.2	4997.7
30°	9148.7	8943.6	8705.5	8424.3	8110.1	7759.5	7359.3	6919.4	6443.1	5894.1	5282.2
27.5°	9343.8	9148.7	8917.2	8655.9	8354.9	8017.5	7614.0	7170.8	6684.6	6155.4	5543.5
25°	9512.5	9324.0	9109.0	8860.9	8563.2	8232.5	7852.1	7389.1	6902.9	6370.3	5765.1
22.5°	9664.7	9482.7	9267.8	9026.3	8755.1	8424.3	8040.7	7580.9	7088.1	6562.2	5966.8
20°	9800.3	9631.6	9419.9	9171.8	8900.6	8566.6	8186.2	7749.6	7253.5	6737.5	6148.7
17.5°	9909.4	9760.6	9548.9	9287.6	9016.4	8692.2	8321.8	7921.6	7395.7	6886.3	6300.9
15°	9985.5	9840.0	9648.1	9383.5	9118.9	8798.1	8427.6	8014.2	7524.7	7005.4	6426.6
12.5°	10038.4	9883.0	9704.4	9459.6	9195.0	8877.5	8516.9	8110.1	7633.8	7111.2	6535.7
10°	10051.6	9909.4	9730.8	9512.5	9254.5	8946.9	8593.0	8189.5	7723.1	7193.9	6625.0
7.5°	10058.3	9922.7	9760.6	9552.2	9297.5	8999.8	8649.2	8252.3	7789.3	7263.4	6691.2
5°	10055.0	9926.0	9780.4	9578.7	9324.0	9029.6	8685.6	8295.3	7835.6	7309.7	6740.8
2.5°	10045.0	9929.3	9793.7	9598.5	9353.8	9062.7	8722.0	8345.0	7885.2	7349.4	6780.5
0°	10071.5	9972.3	9800.3	9591.9	9360.4	9062.7	8718.7	8351.6	7891.8	7346.1	6777.2



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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°	82.7	79.4	79.4	76.1	72.8	69.5	62.8	59.5	52.9	43.0	33.1
85°	178.6	168.7	158.8	152.1	145.5	138.9	129.0	119.1	105.8	86.0	66.2
82.5°	314.2	294.4	274.5	251.4	231.5	211.7	195.1	178.6	158.8	129.0	99.2
80°	449.8	420.1	390.3	357.2	327.4	294.4	264.6	238.1	211.7	172.0	132.3
77.5°	585.4	545.7	502.7	463.1	420.1	377.1	334.1	297.7	258.0	211.7	165.4
75°	711.1	664.8	625.1	568.9	516.0	459.7	403.5	353.9	304.3	248.1	198.5
72.5°	836.8	777.3	721.0	668.1	608.6	539.1	476.3	413.4	350.6	284.4	224.9
70°	962.5	889.7	820.3	757.4	691.3	621.8	545.7	473.0	396.9	317.5	248.1
67.5°	1091.5	1008.8	929.4	850.0	774.0	694.6	615.2	532.5	443.2	350.6	274.5
65°	1233.7	1131.2	1035.3	946.0	856.7	770.7	681.4	592.1	492.8	387.0	297.7
62.5°	1375.9	1263.5	1151.0	1038.6	939.3	843.4	747.5	648.3	539.1	426.7	320.8
60°	1528.1	1399.1	1270.1	1144.4	1022.0	916.2	810.4	704.5	588.7	463.1	344.0
57.5°	1696.8	1541.3	1395.8	1253.6	1114.6	989.0	873.2	760.7	631.7	499.4	370.4
55°	1888.6	1696.8	1524.8	1366.0	1213.9	1061.7	936.0	820.3	681.4	535.8	400.2
52.5°	2090.4	1868.8	1660.4	1481.8	1319.7	1147.7	995.6	866.6	731.0	572.2	426.7
50°	2325.2	2044.1	1812.5	1594.2	1412.3	1233.7	1058.4	919.5	780.6	615.2	453.1
47.5°	2566.7	2255.7	1964.7	1726.5	1511.6	1316.4	1131.2	965.8	826.9	654.9	479.6
45°	2847.8	2457.5	2136.7	1855.5	1607.5	1402.4	1203.9	1015.4	866.6	694.6	506.1
42.5°	3119.0	2695.7	2315.3	1997.8	1716.6	1485.1	1270.1	1068.3	906.3	734.3	529.2
40°	3439.9	2933.8	2487.3	2133.4	1825.8	1564.5	1336.3	1124.6	942.7	770.7	552.4
37.5°	3747.5	3175.2	2695.7	2282.2	1931.6	1643.9	1402.4	1177.5	975.7	807.0	582.1
35°	4051.8	3443.2	2894.1	2421.1	2040.8	1733.2	1468.6	1227.1	1008.8	836.8	608.6
32.5°	4342.8	3694.5	3095.9	2576.6	2159.8	1815.8	1528.1	1273.4	1041.9	863.3	635.0
30°	4614.0	3932.7	3294.3	2735.3	2269.0	1891.9	1584.3	1319.7	1081.6	886.4	661.5
27.5°	4862.1	4164.2	3492.8	2884.2	2371.5	1961.4	1643.9	1362.7	1114.6	909.6	684.7
25°	5087.0	4372.6	3674.7	3019.8	2464.1	2037.5	1700.1	1405.7	1144.4	929.4	704.5
22.5°	5298.7	4564.4	3840.1	3155.4	2576.6	2113.5	1753.0	1445.4	1174.2	949.3	724.4
20°	5483.9	4739.7	3998.8	3291.0	2675.8	2183.0	1799.3	1481.8	1200.6	962.5	744.2
17.5°	5632.8	4895.2	4141.1	3410.1	2761.8	2242.5	1839.0	1514.9	1223.8	979.0	757.4
15°	5765.1	5027.5	4260.1	3512.6	2837.9	2292.1	1875.4	1541.3	1243.6	989.0	774.0
12.5°	5877.5	5139.9	4362.7	3601.9	2904.0	2335.1	1905.1	1561.2	1260.2	998.9	783.9
10°	5970.1	5229.2	4448.7	3671.4	2957.0	2368.2	1928.3	1581.0	1273.4	1008.8	793.8
7.5°	6039.6	5295.4	4511.5	3730.9	2999.9	2391.4	1948.1	1594.2	1286.6	1015.4	810.4
5°	6092.5	5351.6	4561.1	3770.6	3033.0	2424.4	1971.3	1610.8	1299.9	1022.0	810.4
2.5°	6132.2	5397.9	4600.8	3803.7	3059.5	2417.8	1971.3	1607.5	1299.9	1022.0	807.0
0°	6125.6	5401.2	4597.5	3803.7	3059.5	2411.2	1971.3	1604.2	1299.9	1022.0	807.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.2	16.5	6.6	0.0
85°	49.6	33.1	16.5	0.0
82.5°	72.8	46.3	23.2	0.0
80°	95.9	62.8	29.8	0.0
77.5°	122.4	79.4	39.7	0.0
75°	145.5	92.6	46.3	0.0
72.5°	168.7	109.1	52.9	0.0
70°	188.5	122.4	59.5	0.0
67.5°	208.4	138.9	69.5	0.0
65°	224.9	152.1	76.1	0.0
62.5°	238.1	168.7	82.7	0.0
60°	254.7	181.9	89.3	0.0
57.5°	267.9	191.8	95.9	0.0
55°	281.1	198.5	102.5	0.0
52.5°	294.4	208.4	109.1	0.0
50°	307.6	218.3	115.8	0.0
47.5°	320.8	224.9	119.1	0.0
45°	340.7	234.8	125.7	0.0
42.5°	357.2	241.5	132.3	0.0
40°	373.8	248.1	135.6	0.0
37.5°	390.3	254.7	142.2	0.0
35°	406.8	261.3	145.5	0.0
32.5°	420.1	267.9	148.8	0.0
30°	433.3	274.5	152.1	0.0
27.5°	446.5	277.8	155.5	0.0
25°	456.4	284.4	158.8	0.0
22.5°	466.4	287.8	162.1	0.0
20°	473.0	291.1	165.4	0.0
17.5°	482.9	294.4	168.7	0.0
15°	486.2	297.7	175.3	0.0
12.5°	492.8	301.0	175.3	0.0
10°	496.1	304.3	175.3	0.0
7.5°	502.7	304.3	175.3	0.0
5°	499.4	304.3	175.3	0.0
2.5°	499.4	304.3	175.3	0.0
0°	496.1	304.3	175.3	0.0

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