

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: P628451

Luminaire Tested: **IFLD-S-SA6B-930-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628451  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-930-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21986.2 lumens	Max Intensity:	7166.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	89.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

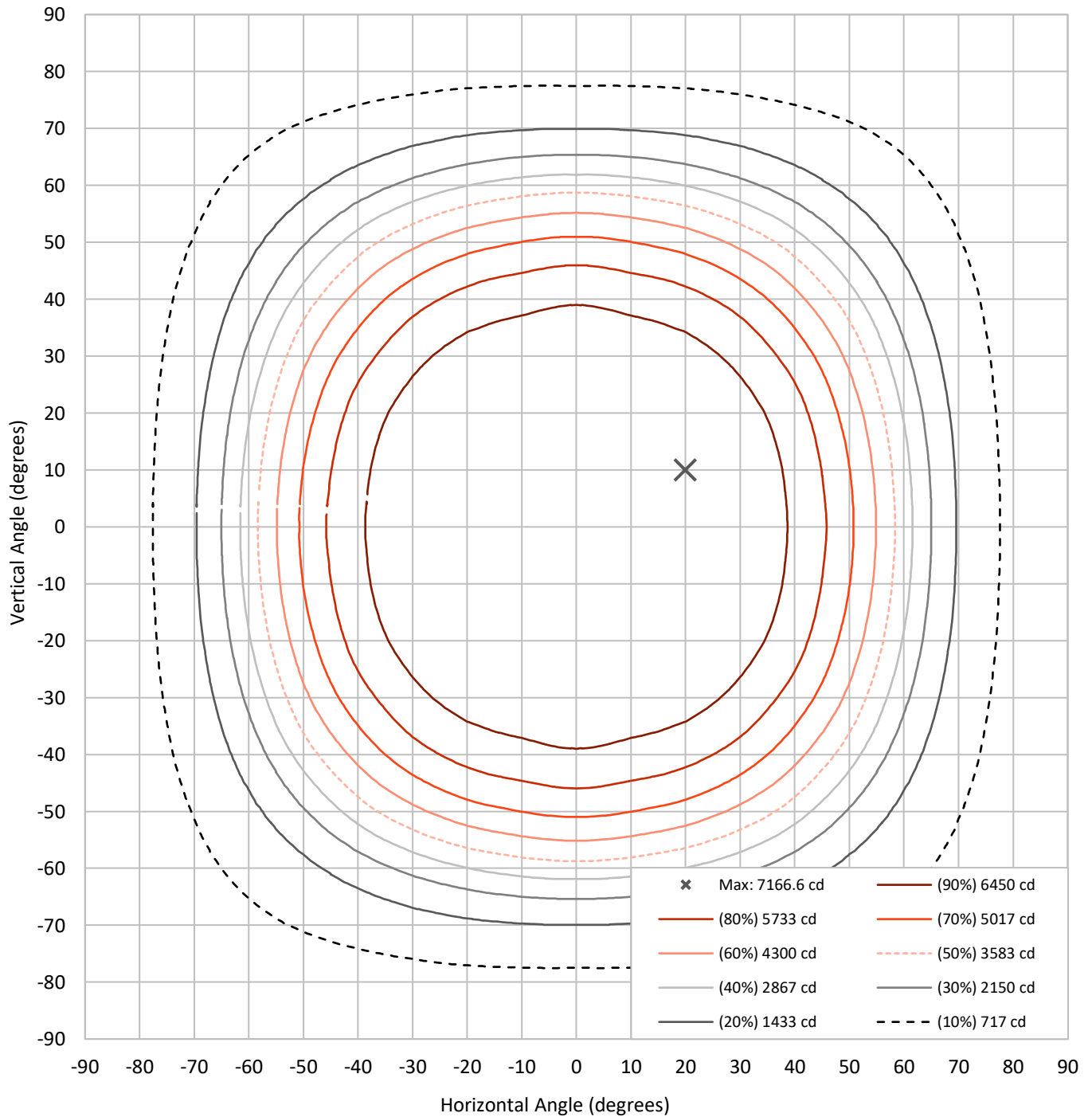
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	13491.2 lumens	Field Lumens:	16173.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 244.9  
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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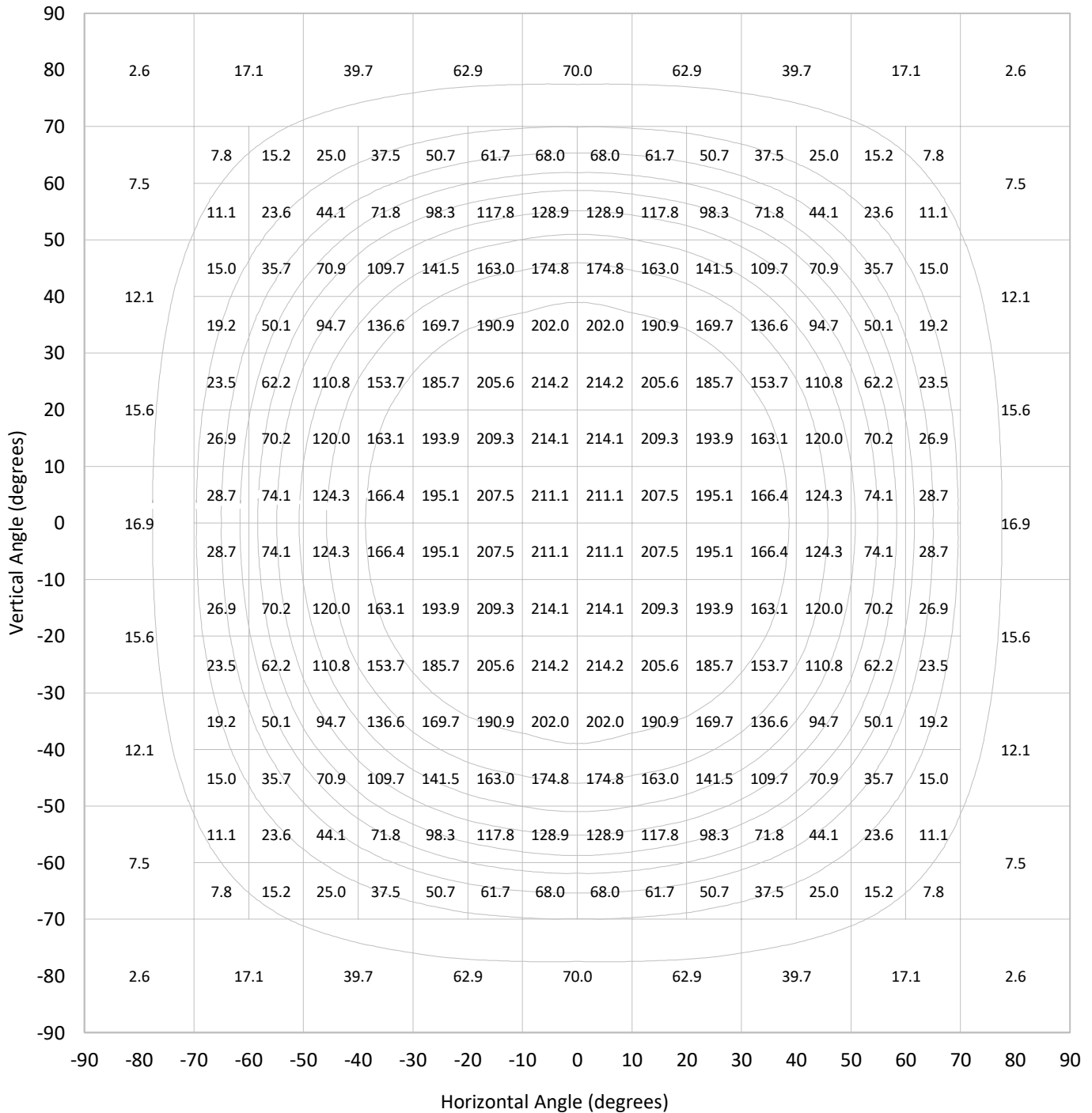
### Iso-Candela Plot





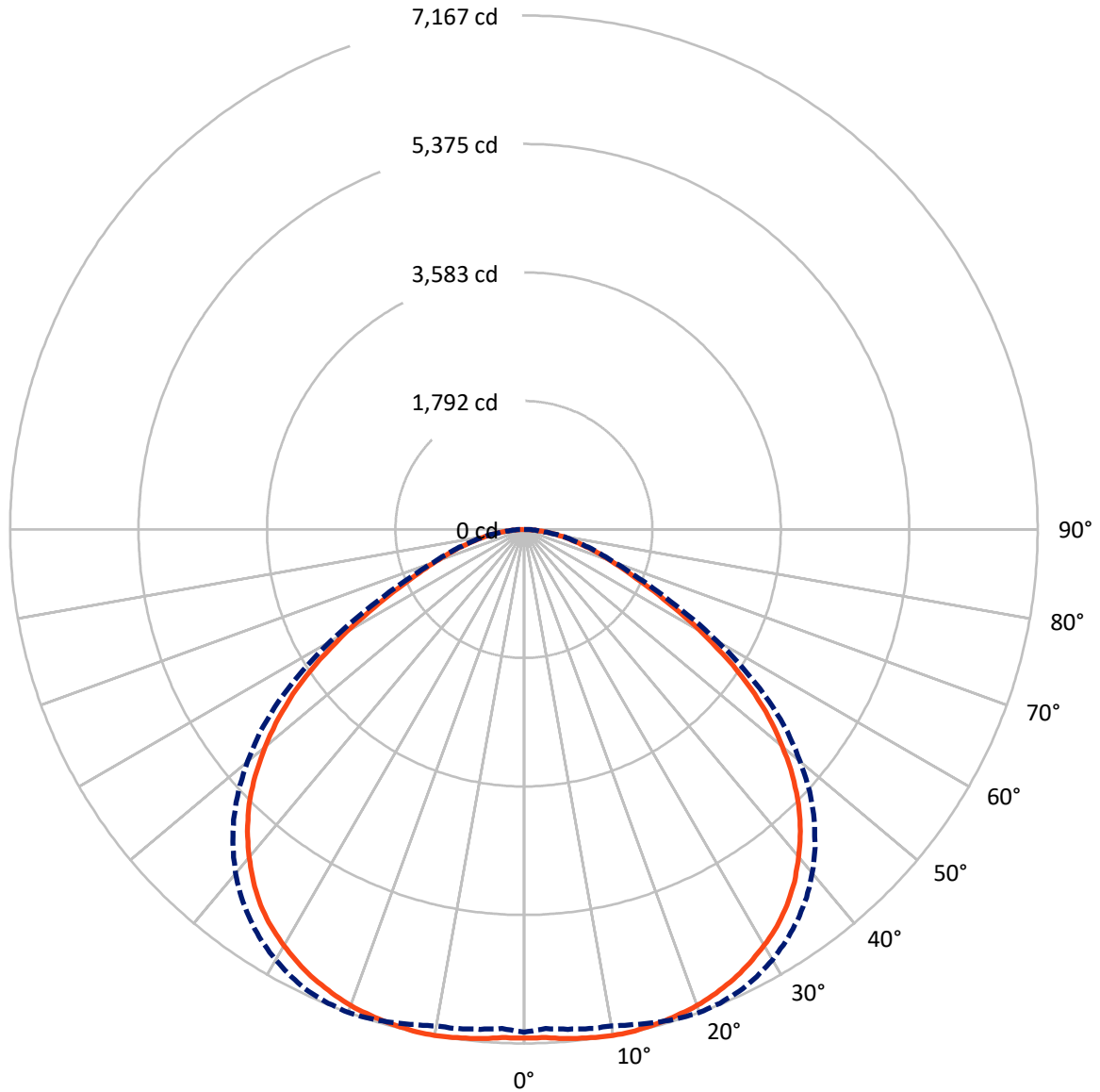
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### Lumen Table



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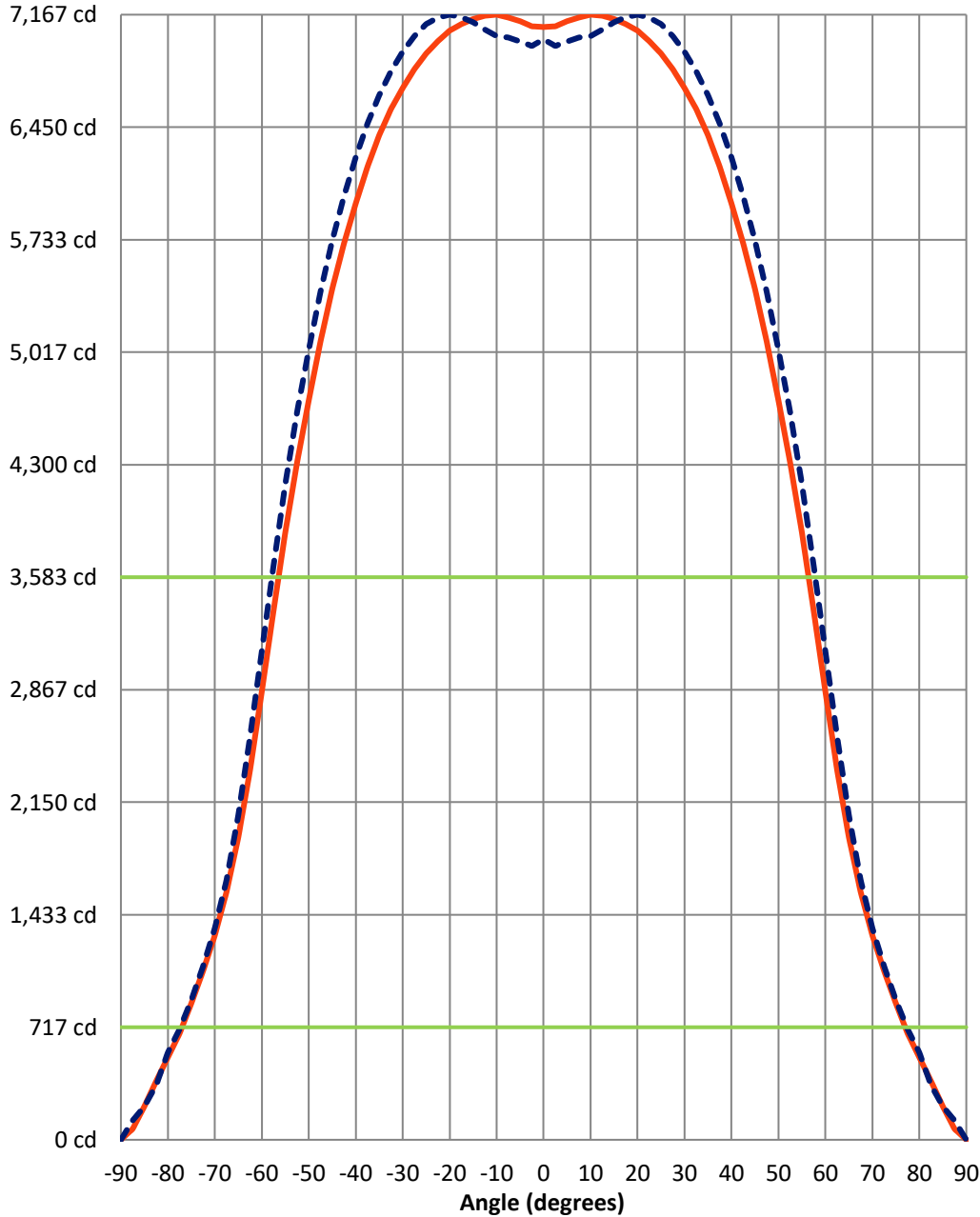
### Luminous Intensity Polar Plot



— 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: 13491.2  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 16173.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 5812.6  
 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°	57.8	62.5	64.8	67.1	69.4	71.7	74.0	71.7	69.4	69.4	67.1
85°	155.0	159.6	161.9	178.1	194.3	203.6	215.1	212.8	212.8	210.5	208.2
82.5°	310.0	323.9	335.4	351.6	360.9	374.8	384.0	377.1	372.4	363.2	356.2
80°	550.6	555.2	557.5	559.8	548.3	545.9	541.3	534.4	525.1	513.6	502.0
77.5°	700.9	705.6	710.2	705.6	703.2	700.9	694.0	687.1	677.8	668.5	654.7
75°	927.6	927.6	927.6	920.7	916.1	909.1	897.6	886.0	869.8	851.3	830.5
72.5°	1168.2	1165.9	1163.6	1149.7	1138.1	1124.3	1108.1	1094.2	1075.7	1054.9	1027.1
70°	1420.4	1425.0	1427.3	1408.8	1394.9	1376.4	1355.6	1330.1	1302.4	1272.3	1233.0
67.5°	1767.4	1762.7	1758.1	1732.7	1714.2	1688.7	1658.6	1621.6	1580.0	1533.7	1478.2
65°	2197.6	2204.6	2190.7	2165.2	2130.6	2088.9	2042.6	1989.4	1927.0	1857.6	1778.9
62.5°	2718.1	2729.7	2713.5	2681.1	2637.2	2581.6	2516.9	2440.5	2354.9	2257.8	2160.6
60°	3310.3	3308.0	3277.9	3234.0	3176.2	3106.8	3035.1	2951.8	2854.6	2741.3	2623.3
57.5°	3854.0	3849.3	3812.3	3768.4	3710.5	3636.5	3560.2	3472.3	3370.5	3250.2	3113.7
55°	4342.1	4337.4	4300.4	4254.2	4194.0	4120.0	4050.6	3967.3	3867.8	3740.6	3594.9
52.5°	4774.7	4777.0	4744.6	4693.7	4628.9	4557.2	4490.1	4406.8	4312.0	4184.8	4043.7
50°	5172.5	5170.2	5135.5	5089.3	5029.1	4959.7	4892.6	4809.4	4709.9	4587.3	4450.8
47.5°	5542.7	5538.0	5498.7	5447.8	5385.4	5325.2	5262.8	5188.7	5084.6	4962.0	4825.5
45°	5852.7	5843.4	5804.1	5755.5	5695.3	5642.1	5586.6	5531.1	5420.1	5306.7	5177.2
42.5°	6118.7	6116.4	6077.0	6028.5	5968.3	5922.1	5871.2	5801.8	5709.2	5605.1	5477.9
40°	6373.1	6354.6	6315.3	6269.0	6213.5	6174.2	6123.3	6053.9	5963.7	5861.9	5739.3
37.5°	6562.8	6565.1	6523.5	6472.6	6424.0	6387.0	6340.8	6276.0	6197.3	6097.9	5975.3
35°	6743.3	6731.7	6697.0	6653.1	6609.1	6567.5	6518.9	6463.4	6398.6	6306.1	6190.4
32.5°	6861.3	6877.4	6835.8	6789.5	6764.1	6731.7	6680.8	6623.0	6565.1	6472.6	6368.5
30°	6990.8	6976.9	6944.5	6905.2	6886.7	6865.9	6821.9	6766.4	6699.3	6616.0	6518.9
27.5°	7081.0	7074.1	7034.7	6997.7	6988.5	6970.0	6935.3	6886.7	6819.6	6738.6	6648.4
25°	7120.3	7125.0	7088.0	7067.1	7067.1	7055.6	7027.8	6986.2	6919.1	6845.1	6757.2
22.5°	7138.8	7134.2	7108.8	7104.1	7115.7	7106.5	7094.9	7057.9	6997.7	6937.6	6863.6
20°	7150.4	7118.0	7094.9	7113.4	7127.3	7125.0	7115.7	7092.6	7064.8	7013.9	6949.2
17.5°	7125.0	7104.1	7076.4	7104.1	7134.2	7136.5	7127.3	7113.4	7106.5	7074.1	7016.2
15°	7062.5	7046.3	7050.9	7078.7	7113.4	7125.0	7131.9	7148.1	7138.8	7113.4	7062.5
12.5°	7020.9	7000.0	7020.9	7048.6	7067.1	7074.1	7129.6	7159.7	7159.7	7136.5	7104.1
10°	7009.3	6967.7	6995.4	7020.9	7030.1	7071.8	7118.0	7150.4	7166.6	7148.1	7106.5
7.5°	6986.2	6958.4	6970.0	6981.5	7034.7	7064.8	7090.3	7125.0	7148.1	7145.8	7108.8
5°	6974.6	6939.9	6944.5	6993.1	7030.1	7050.9	7060.2	7090.3	7125.0	7131.9	7104.1
2.5°	6944.5	6928.3	6963.0	6967.7	6995.4	7011.6	7020.9	7048.6	7092.6	7108.8	7097.2
0°	6928.3	6905.2	6882.1	6900.6	6946.8	6981.5	6995.4	7037.1	7088.0	7104.1	7078.7



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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°	64.8	62.5	60.1	57.8	60.1	60.1	60.1	57.8	60.1	57.8	57.8
85°	201.3	192.0	185.1	175.8	166.6	159.6	150.4	141.1	138.8	136.5	131.9
82.5°	347.0	335.4	323.9	310.0	296.1	279.9	263.7	245.2	240.6	236.0	229.0
80°	488.1	471.9	455.7	439.5	425.6	409.5	390.9	370.1	356.2	344.7	330.8
77.5°	636.2	613.0	589.9	562.1	545.9	529.7	511.2	490.4	469.6	451.1	430.3
75°	805.0	779.6	756.4	728.7	698.6	668.5	638.5	610.7	580.6	552.9	525.1
72.5°	992.4	955.4	918.4	883.7	846.7	809.7	770.3	733.3	696.3	659.3	620.0
70°	1189.0	1142.8	1096.5	1050.2	1001.7	953.1	906.8	860.5	814.3	765.7	721.7
67.5°	1420.4	1367.2	1307.0	1242.2	1170.5	1108.1	1047.9	992.4	936.9	881.4	825.8
65°	1709.5	1635.5	1554.5	1466.6	1383.4	1300.1	1212.2	1128.9	1064.1	999.3	936.9
62.5°	2065.8	1961.7	1848.3	1735.0	1633.2	1524.5	1422.7	1314.0	1212.2	1119.6	1043.3
60°	2491.4	2350.3	2211.5	2065.8	1924.7	1776.6	1647.1	1512.9	1385.7	1272.3	1161.3
57.5°	2961.0	2796.8	2630.2	2452.1	2260.1	2086.6	1910.8	1735.0	1584.6	1434.2	1309.3
55°	3437.6	3264.1	3076.7	2875.4	2664.9	2442.8	2204.6	2007.9	1802.1	1626.3	1464.3
52.5°	3891.0	3710.5	3516.2	3331.2	3079.0	2824.5	2563.1	2304.0	2063.5	1839.1	1642.4
50°	4295.8	4120.0	3932.6	3717.5	3483.8	3213.2	2921.7	2630.2	2345.7	2082.0	1836.8
47.5°	4665.9	4494.7	4307.4	4092.2	3879.4	3578.7	3284.9	2963.3	2646.4	2343.4	2056.5
45°	5012.9	4839.4	4645.1	4439.2	4194.0	3925.7	3622.6	3298.8	2958.7	2618.7	2287.9
42.5°	5327.5	5154.0	4957.4	4744.6	4501.7	4235.7	3941.9	3615.7	3273.3	2903.2	2540.0
40°	5602.8	5433.9	5244.3	5022.2	4795.5	4515.6	4226.4	3916.4	3562.5	3190.0	2789.8
37.5°	5843.4	5686.1	5498.7	5279.0	5038.4	4788.5	4490.1	4180.1	3860.9	3456.1	3046.6
35°	6056.2	5910.5	5718.5	5510.3	5274.3	5010.6	4730.7	4427.7	4083.0	3703.6	3305.7
32.5°	6241.3	6093.2	5917.4	5709.2	5480.2	5232.7	4945.8	4640.5	4314.3	3928.0	3495.4
30°	6398.6	6255.2	6088.6	5892.0	5672.2	5427.0	5147.1	4839.4	4506.3	4122.3	3694.3
27.5°	6535.1	6398.6	6236.7	6053.9	5843.4	5607.4	5325.2	5015.2	4675.2	4305.1	3877.1
25°	6653.1	6521.2	6370.8	6197.3	5989.1	5757.8	5491.8	5167.9	4827.9	4455.4	4032.1
22.5°	6759.5	6632.2	6481.9	6313.0	6123.3	5892.0	5623.6	5302.1	4957.4	4589.6	4173.2
20°	6854.3	6736.3	6588.3	6414.8	6225.1	5991.4	5725.4	5420.1	5073.1	4712.2	4300.4
17.5°	6930.7	6826.6	6678.5	6495.7	6306.1	6079.4	5820.3	5540.4	5172.5	4816.3	4406.8
15°	6983.9	6882.1	6747.9	6562.8	6377.8	6153.4	5894.3	5605.1	5262.8	4899.6	4494.7
12.5°	7020.9	6912.1	6787.2	6616.0	6431.0	6208.9	5956.8	5672.2	5339.1	4973.6	4571.1
10°	7030.1	6930.7	6805.7	6653.1	6472.6	6257.5	6010.0	5727.7	5401.6	5031.4	4633.5
7.5°	7034.7	6939.9	6826.6	6680.8	6502.7	6294.5	6049.3	5771.7	5447.8	5080.0	4679.8
5°	7032.4	6942.2	6840.4	6699.3	6521.2	6315.3	6074.7	5801.8	5480.2	5112.4	4714.5
2.5°	7025.5	6944.5	6849.7	6713.2	6542.0	6338.4	6100.2	5836.5	5514.9	5140.2	4742.3
0°	7044.0	6974.6	6854.3	6708.6	6546.6	6338.4	6097.9	5841.1	5519.5	5137.8	4740.0





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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°	57.8	55.5	55.5	53.2	50.9	48.6	44.0	41.6	37.0	30.1	23.1
85°	124.9	118.0	111.0	106.4	101.8	97.2	90.2	83.3	74.0	60.1	46.3
82.5°	219.8	205.9	192.0	175.8	161.9	148.1	136.5	124.9	111.0	90.2	69.4
80°	314.6	293.8	273.0	249.8	229.0	205.9	185.1	166.6	148.1	120.3	92.5
77.5°	409.5	381.7	351.6	323.9	293.8	263.7	233.6	208.2	180.4	148.1	115.7
75°	497.4	465.0	437.2	397.9	360.9	321.5	282.2	247.5	212.8	173.5	138.8
72.5°	585.3	543.6	504.3	467.3	425.6	377.1	333.1	289.2	245.2	198.9	157.3
70°	673.2	622.3	573.7	529.7	483.5	434.9	381.7	330.8	277.6	222.1	173.5
67.5°	763.4	705.6	650.0	594.5	541.3	485.8	430.3	372.4	310.0	245.2	192.0
65°	862.9	791.1	724.1	661.6	599.1	539.0	476.5	414.1	344.7	270.7	208.2
62.5°	962.3	883.7	805.0	726.4	657.0	589.9	522.8	453.4	377.1	298.4	224.4
60°	1068.7	978.5	888.3	800.4	714.8	640.8	566.8	492.7	411.8	323.9	240.6
57.5°	1186.7	1078.0	976.2	876.7	779.6	691.7	610.7	532.1	441.8	349.3	259.1
55°	1320.9	1186.7	1066.4	955.4	849.0	742.6	654.7	573.7	476.5	374.8	279.9
52.5°	1462.0	1307.0	1161.3	1036.4	923.0	802.7	696.3	606.1	511.2	400.2	298.4
50°	1626.3	1429.6	1267.7	1115.0	987.8	862.9	740.3	643.1	545.9	430.3	316.9
47.5°	1795.1	1577.7	1374.1	1207.5	1057.2	920.7	791.1	675.5	578.3	458.0	335.4
45°	1991.8	1718.8	1494.4	1297.8	1124.3	980.8	842.0	710.2	606.1	485.8	353.9
42.5°	2181.4	1885.3	1619.3	1397.2	1200.6	1038.7	888.3	747.2	633.8	513.6	370.1
40°	2405.8	2051.9	1739.6	1492.1	1276.9	1094.2	934.6	786.5	659.3	539.0	386.3
37.5°	2621.0	2220.8	1885.3	1596.2	1351.0	1149.7	980.8	823.5	682.4	564.4	407.1
35°	2833.8	2408.1	2024.1	1693.3	1427.3	1212.2	1027.1	858.2	705.6	585.3	425.6
32.5°	3037.4	2584.0	2165.2	1802.1	1510.6	1270.0	1068.7	890.6	728.7	603.8	444.2
30°	3227.1	2750.5	2304.0	1913.1	1586.9	1323.2	1108.1	923.0	756.4	620.0	462.7
27.5°	3400.6	2912.4	2442.8	2017.2	1658.6	1371.8	1149.7	953.1	779.6	636.2	478.9
25°	3557.9	3058.2	2570.1	2112.0	1723.4	1425.0	1189.0	983.2	800.4	650.0	492.7
22.5°	3705.9	3192.4	2685.7	2206.9	1802.1	1478.2	1226.0	1010.9	821.2	663.9	506.6
20°	3835.5	3315.0	2796.8	2301.7	1871.5	1526.8	1258.4	1036.4	839.7	673.2	520.5
17.5°	3939.6	3423.7	2896.3	2385.0	1931.6	1568.4	1286.2	1059.5	855.9	684.7	529.7
15°	4032.1	3516.2	2979.5	2456.7	1984.8	1603.1	1311.6	1078.0	869.8	691.7	541.3
12.5°	4110.7	3594.9	3051.2	2519.2	2031.1	1633.2	1332.5	1091.9	881.4	698.6	548.3
10°	4175.5	3657.3	3111.4	2567.8	2068.1	1656.3	1348.7	1105.8	890.6	705.6	555.2
7.5°	4224.1	3703.6	3155.3	2609.4	2098.2	1672.5	1362.5	1115.0	899.9	710.2	566.8
5°	4261.1	3742.9	3190.0	2637.2	2121.3	1695.6	1378.7	1126.6	909.1	714.8	566.8
2.5°	4288.9	3775.3	3217.8	2660.3	2139.8	1691.0	1378.7	1124.3	909.1	714.8	564.4
0°	4284.2	3777.6	3215.5	2660.3	2139.8	1686.4	1378.7	1122.0	909.1	714.8	564.4



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.2	11.6	4.6	0.0
85°	34.7	23.1	11.6	0.0
82.5°	50.9	32.4	16.2	0.0
80°	67.1	44.0	20.8	0.0
77.5°	85.6	55.5	27.8	0.0
75°	101.8	64.8	32.4	0.0
72.5°	118.0	76.3	37.0	0.0
70°	131.9	85.6	41.6	0.0
67.5°	145.7	97.2	48.6	0.0
65°	157.3	106.4	53.2	0.0
62.5°	166.6	118.0	57.8	0.0
60°	178.1	127.2	62.5	0.0
57.5°	187.4	134.2	67.1	0.0
55°	196.6	138.8	71.7	0.0
52.5°	205.9	145.7	76.3	0.0
50°	215.1	152.7	81.0	0.0
47.5°	224.4	157.3	83.3	0.0
45°	238.3	164.2	87.9	0.0
42.5°	249.8	168.9	92.5	0.0
40°	261.4	173.5	94.8	0.0
37.5°	273.0	178.1	99.5	0.0
35°	284.5	182.8	101.8	0.0
32.5°	293.8	187.4	104.1	0.0
30°	303.0	192.0	106.4	0.0
27.5°	312.3	194.3	108.7	0.0
25°	319.2	198.9	111.0	0.0
22.5°	326.2	201.3	113.4	0.0
20°	330.8	203.6	115.7	0.0
17.5°	337.7	205.9	118.0	0.0
15°	340.1	208.2	122.6	0.0
12.5°	344.7	210.5	122.6	0.0
10°	347.0	212.8	122.6	0.0
7.5°	351.6	212.8	122.6	0.0
5°	349.3	212.8	122.6	0.0
2.5°	349.3	212.8	122.6	0.0
0°	347.0	212.8	122.6	0.0

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