

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: P628450

Luminaire Tested: **IFLD-S-SA6A-930-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628450  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-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

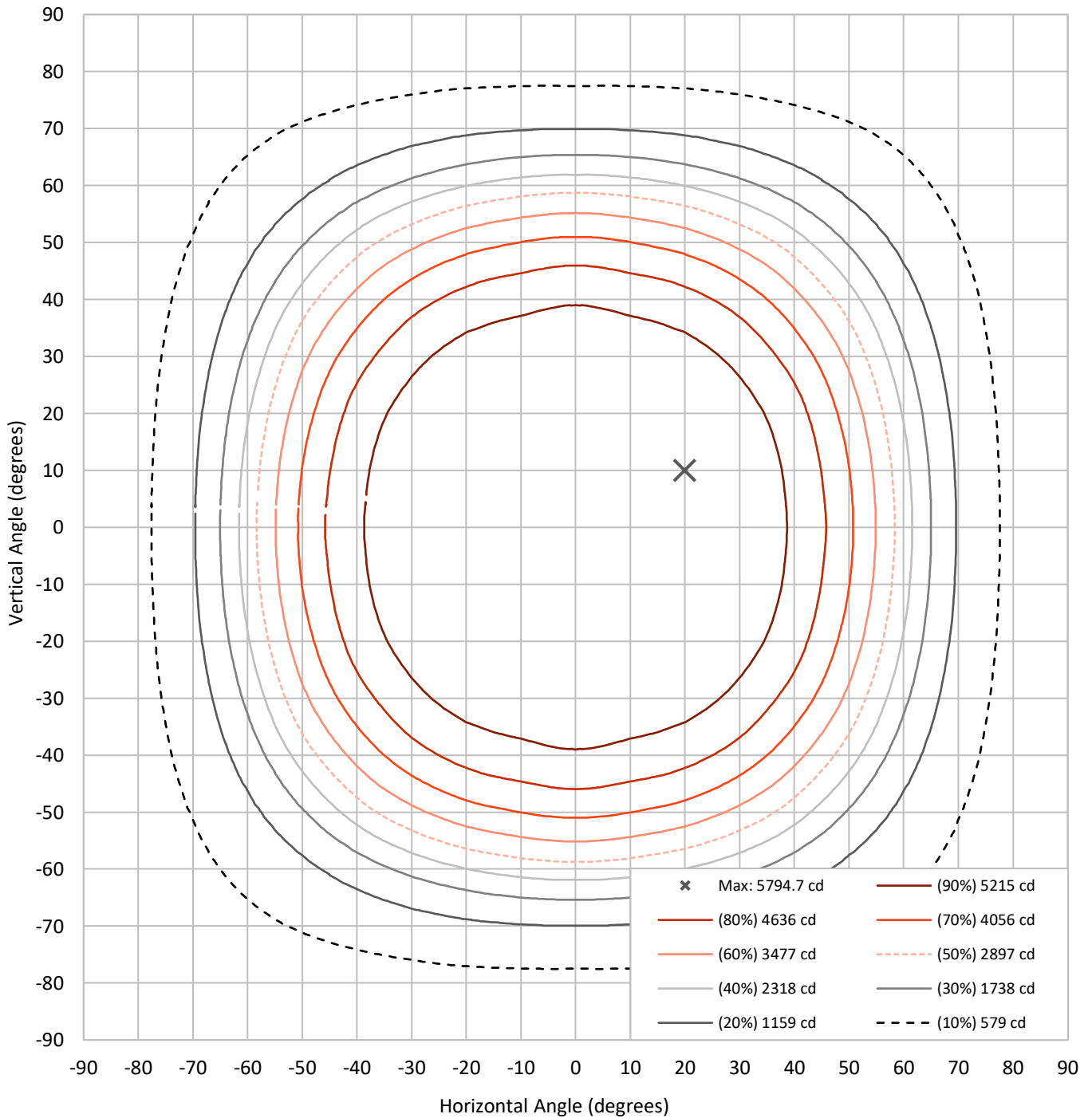
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17777.4 lumens	Max Intensity:	5794.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	93.8 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:	10908.6 lumens	Field Lumens:	13077.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	189.6		
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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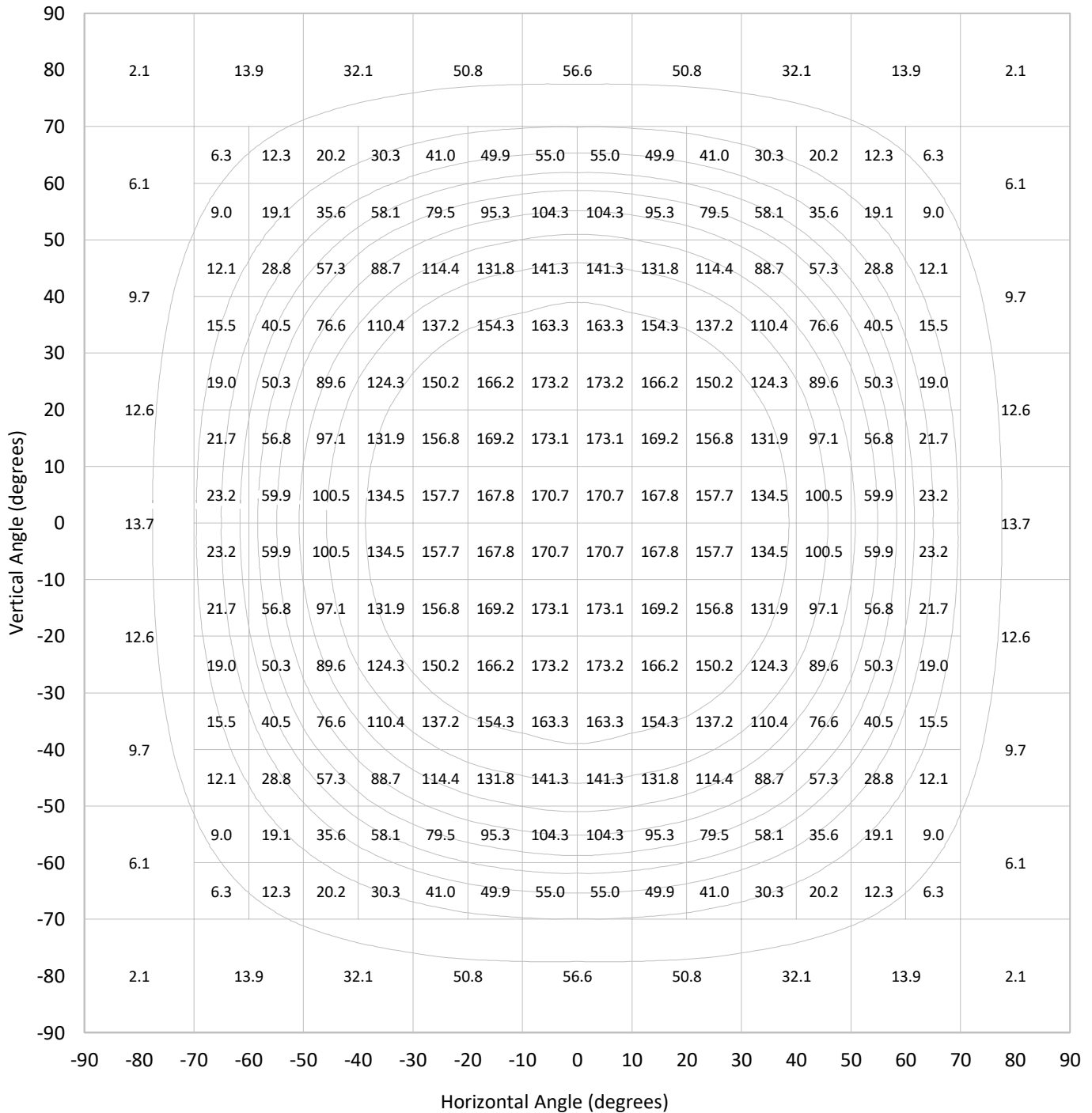
### Iso-Candela Plot





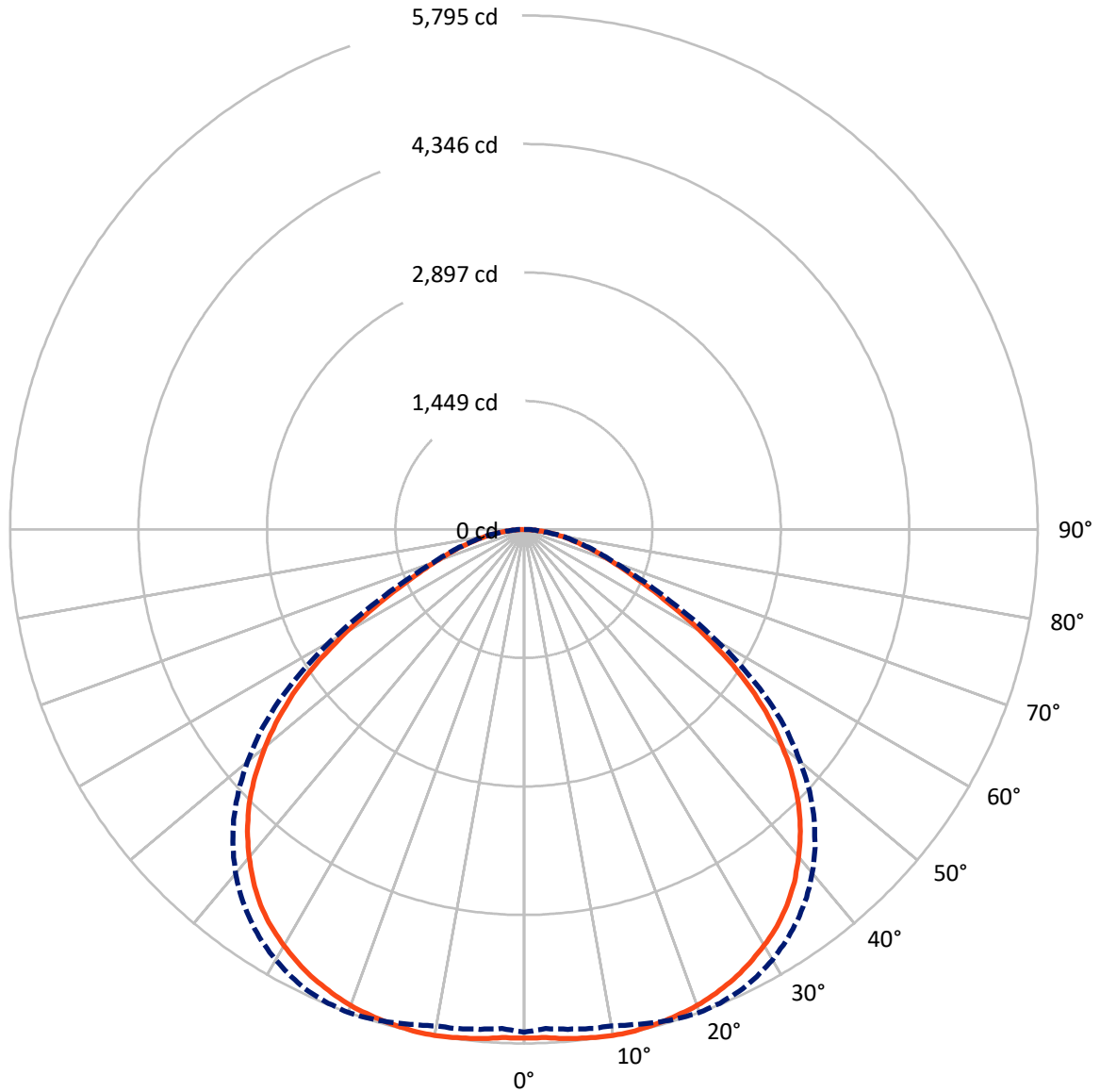
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### Lumen Table



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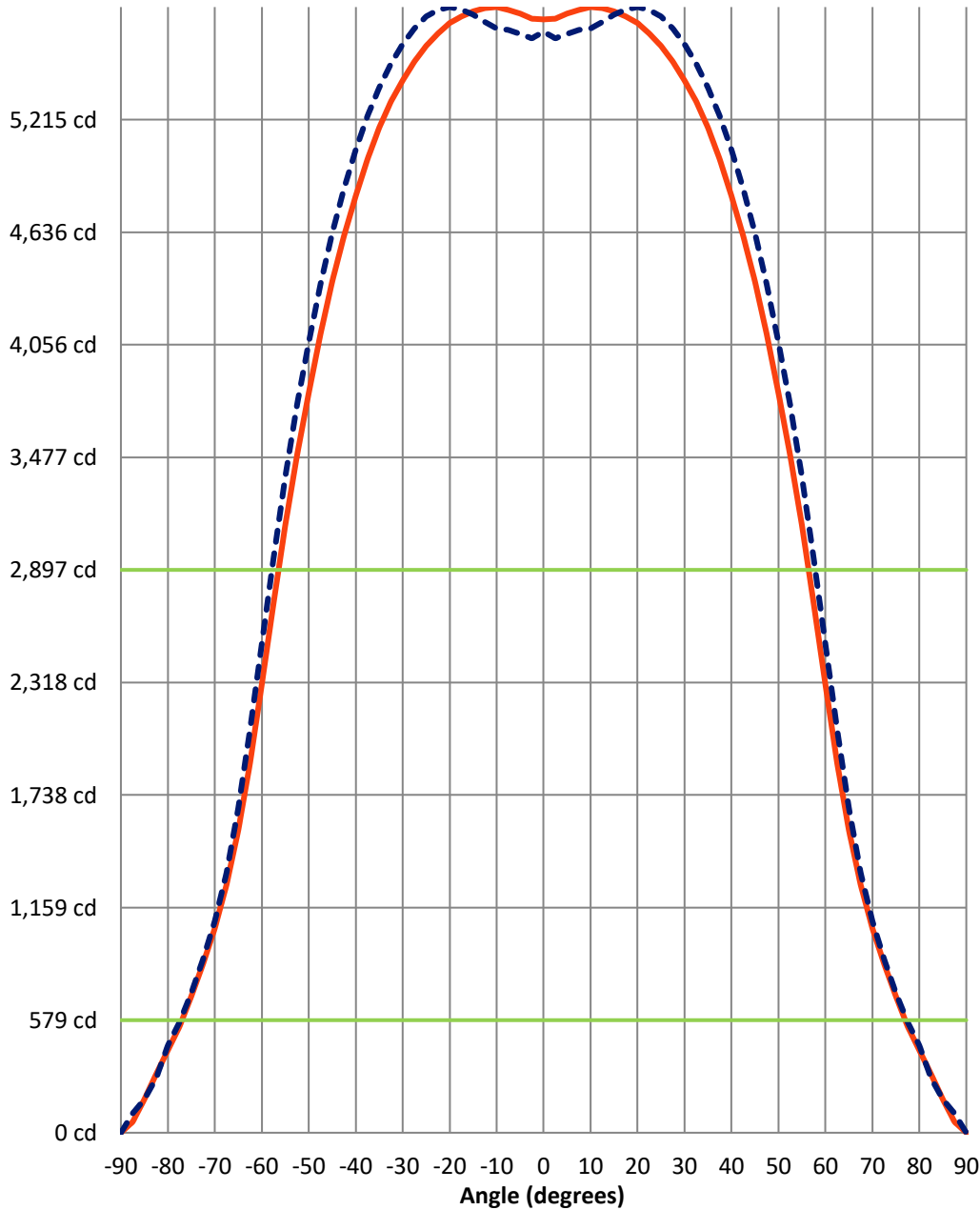
### Luminous Intensity Polar Plot



— 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: 10908.6  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 13077.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 4699.9  
 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°	46.8	50.5	52.4	54.2	56.1	58.0	59.9	58.0	56.1	56.1	54.2
85°	125.3	129.1	130.9	144.0	157.1	164.6	174.0	172.1	172.1	170.2	168.3
82.5°	250.6	261.9	271.2	284.3	291.8	303.0	310.5	304.9	301.1	293.7	288.1
80°	445.2	448.9	450.8	452.7	443.3	441.4	437.7	432.1	424.6	415.2	405.9
77.5°	566.8	570.5	574.2	570.5	568.6	566.8	561.1	555.5	548.0	540.6	529.3
75°	750.1	750.1	750.1	744.4	740.7	735.1	725.7	716.4	703.3	688.3	671.5
72.5°	944.6	942.7	940.8	929.6	920.3	909.1	896.0	884.7	869.8	852.9	830.5
70°	1148.5	1152.2	1154.1	1139.1	1127.9	1112.9	1096.1	1075.5	1053.1	1028.8	997.0
67.5°	1429.0	1425.3	1421.6	1401.0	1386.0	1365.4	1341.1	1311.2	1277.5	1240.1	1195.2
65°	1777.0	1782.6	1771.3	1750.8	1722.7	1689.0	1651.6	1608.6	1558.1	1502.0	1438.4
62.5°	2197.8	2207.2	2194.1	2167.9	2132.3	2087.5	2035.1	1973.4	1904.1	1825.6	1747.0
60°	2676.7	2674.8	2650.5	2614.9	2568.2	2512.0	2454.1	2386.7	2308.2	2216.5	2121.1
57.5°	3116.2	3112.5	3082.5	3047.0	3000.2	2940.4	2878.7	2807.6	2725.3	2628.0	2517.7
55°	3510.9	3507.1	3477.2	3439.8	3391.2	3331.3	3275.2	3207.9	3127.4	3024.6	2906.7
52.5°	3860.7	3862.5	3836.3	3795.2	3742.8	3684.8	3630.6	3563.3	3486.6	3383.7	3269.6
50°	4182.4	4180.5	4152.5	4115.0	4066.4	4010.3	3956.1	3888.7	3808.3	3709.2	3598.8
47.5°	4481.7	4477.9	4446.1	4405.0	4354.5	4305.8	4255.3	4195.5	4111.3	4012.2	3901.8
45°	4732.3	4724.8	4693.0	4653.7	4605.1	4562.1	4517.2	4472.3	4382.5	4290.9	4186.1
42.5°	4947.4	4945.5	4913.7	4874.5	4825.8	4788.4	4747.3	4691.2	4616.3	4532.2	4429.3
40°	5153.2	5138.2	5106.4	5069.0	5024.1	4992.3	4951.1	4895.0	4822.1	4739.8	4640.6
37.5°	5306.5	5308.4	5274.7	5233.6	5194.3	5164.4	5127.0	5074.6	5011.0	4930.6	4831.4
35°	5452.4	5443.1	5415.0	5379.5	5343.9	5310.3	5271.0	5226.1	5173.7	5098.9	5005.4
32.5°	5547.8	5560.9	5527.3	5489.8	5469.3	5443.1	5401.9	5355.2	5308.4	5233.6	5149.4
30°	5652.6	5641.4	5615.2	5583.4	5568.4	5551.6	5516.0	5471.1	5416.9	5349.6	5271.0
27.5°	5725.5	5719.9	5688.1	5658.2	5650.7	5635.7	5607.7	5568.4	5514.2	5448.7	5375.7
25°	5757.3	5761.1	5731.1	5714.3	5714.3	5704.9	5682.5	5648.8	5594.6	5534.7	5463.7
22.5°	5772.3	5768.5	5748.0	5744.2	5753.6	5746.1	5736.7	5706.8	5658.2	5609.6	5549.7
20°	5781.6	5755.5	5736.7	5751.7	5762.9	5761.1	5753.6	5734.9	5712.4	5671.3	5618.9
17.5°	5761.1	5744.2	5721.8	5744.2	5768.5	5770.4	5762.9	5751.7	5746.1	5719.9	5673.2
15°	5710.6	5697.5	5701.2	5723.7	5751.7	5761.1	5766.7	5779.8	5772.3	5751.7	5710.6
12.5°	5676.9	5660.1	5676.9	5699.3	5714.3	5719.9	5764.8	5789.1	5789.1	5770.4	5744.2
10°	5667.5	5633.9	5656.3	5676.9	5684.4	5718.0	5755.5	5781.6	5794.7	5779.8	5746.1
7.5°	5648.8	5626.4	5635.7	5645.1	5688.1	5712.4	5733.0	5761.1	5779.8	5777.9	5748.0
5°	5639.5	5611.4	5615.2	5654.4	5684.4	5701.2	5708.7	5733.0	5761.1	5766.7	5744.2
2.5°	5615.2	5602.1	5630.1	5633.9	5656.3	5669.4	5676.9	5699.3	5734.9	5748.0	5738.6
0°	5602.1	5583.4	5564.7	5579.6	5617.0	5645.1	5656.3	5690.0	5731.1	5744.2	5723.7



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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°	52.4	50.5	48.6	46.8	48.6	48.6	48.6	46.8	48.6	46.8	46.8
85°	162.7	155.2	149.6	142.2	134.7	129.1	121.6	114.1	112.2	110.4	106.6
82.5°	280.6	271.2	261.9	250.6	239.4	226.3	213.2	198.3	194.5	190.8	185.2
80°	394.7	381.6	368.5	355.4	344.2	331.1	316.1	299.3	288.1	278.7	267.5
77.5°	514.4	495.7	477.0	454.5	441.4	428.3	413.4	396.5	379.7	364.7	347.9
75°	650.9	630.4	611.6	589.2	564.9	540.6	516.3	493.8	469.5	447.0	424.6
72.5°	802.4	772.5	742.6	714.5	684.6	654.7	622.9	592.9	563.0	533.1	501.3
70°	961.4	924.0	886.6	849.2	809.9	770.6	733.2	695.8	658.4	619.1	583.6
67.5°	1148.5	1105.5	1056.8	1004.4	946.5	896.0	847.3	802.4	757.5	712.7	667.8
65°	1382.3	1322.4	1257.0	1185.9	1118.5	1051.2	980.1	912.8	860.4	808.0	757.5
62.5°	1670.3	1586.2	1494.5	1402.9	1320.6	1232.6	1150.3	1062.4	980.1	905.3	843.6
60°	2014.5	1900.4	1788.2	1670.3	1556.2	1436.5	1331.8	1223.3	1120.4	1028.8	939.0
57.5°	2394.2	2261.4	2126.7	1982.7	1827.5	1687.2	1545.0	1402.9	1281.3	1159.7	1058.7
55°	2779.5	2639.2	2487.7	2325.0	2154.8	1975.2	1782.6	1623.6	1457.1	1314.9	1184.0
52.5°	3146.1	3000.2	2843.1	2693.5	2489.6	2283.9	2072.5	1863.0	1668.5	1487.0	1328.0
50°	3473.5	3331.3	3179.8	3005.9	2816.9	2598.1	2362.4	2126.7	1896.7	1683.4	1485.2
47.5°	3772.7	3634.3	3482.8	3308.9	3136.8	2893.6	2656.1	2396.1	2139.8	1894.8	1662.9
45°	4053.3	3913.0	3755.9	3589.4	3391.2	3174.2	2929.2	2667.3	2392.3	2117.4	1849.9
42.5°	4307.7	4167.4	4008.4	3836.3	3639.9	3424.8	3187.3	2923.6	2646.7	2347.4	2053.8
40°	4530.3	4393.7	4240.4	4060.8	3877.5	3651.2	3417.4	3166.7	2880.5	2579.4	2255.8
37.5°	4724.8	4597.6	4446.1	4268.4	4073.9	3871.9	3630.6	3379.9	3121.8	2794.5	2463.4
35°	4896.9	4779.1	4623.8	4455.5	4264.7	4051.4	3825.1	3580.1	3301.4	2994.6	2672.9
32.5°	5046.5	4926.8	4784.7	4616.3	4431.2	4231.0	3999.1	3752.2	3488.4	3176.1	2826.3
30°	5173.7	5057.8	4923.1	4764.1	4586.4	4388.1	4161.8	3913.0	3643.7	3333.2	2987.1
27.5°	5284.1	5173.7	5042.8	4895.0	4724.8	4534.0	4305.8	4055.2	3780.2	3481.0	3134.9
25°	5379.5	5272.9	5151.3	5011.0	4842.7	4655.6	4440.5	4178.6	3903.7	3602.5	3260.2
22.5°	5465.5	5362.7	5241.1	5104.5	4951.1	4764.1	4547.1	4287.1	4008.4	3711.0	3374.3
20°	5542.2	5446.8	5327.1	5186.8	5033.4	4844.5	4629.4	4382.5	4102.0	3810.2	3477.2
17.5°	5603.9	5519.8	5400.1	5252.3	5098.9	4915.6	4706.1	4479.8	4182.4	3894.3	3563.3
15°	5647.0	5564.7	5456.2	5306.5	5156.9	4975.5	4766.0	4532.2	4255.3	3961.7	3634.3
12.5°	5676.9	5589.0	5488.0	5349.6	5199.9	5020.4	4816.5	4586.4	4317.1	4021.5	3696.1
10°	5684.4	5603.9	5502.9	5379.5	5233.6	5059.6	4859.5	4631.3	4367.6	4068.3	3746.6
7.5°	5688.1	5611.4	5519.8	5401.9	5257.9	5089.6	4891.3	4666.8	4405.0	4107.6	3784.0
5°	5686.2	5613.3	5531.0	5416.9	5272.9	5106.4	4911.9	4691.2	4431.2	4133.8	3812.0
2.5°	5680.6	5615.2	5538.5	5428.1	5289.7	5125.1	4932.4	4719.2	4459.2	4156.2	3834.5
0°	5695.6	5639.5	5542.2	5424.4	5293.4	5125.1	4930.6	4723.0	4463.0	4154.3	3832.6





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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°	46.8	44.9	44.9	43.0	41.2	39.3	35.5	33.7	29.9	24.3	18.7
85°	101.0	95.4	89.8	86.0	82.3	78.6	72.9	67.3	59.9	48.6	37.4
82.5°	177.7	166.5	155.2	142.2	130.9	119.7	110.4	101.0	89.8	72.9	56.1
80°	254.4	237.6	220.7	202.0	185.2	166.5	149.6	134.7	119.7	97.3	74.8
77.5°	331.1	308.6	284.3	261.9	237.6	213.2	188.9	168.3	145.9	119.7	93.5
75°	402.2	376.0	353.5	321.7	291.8	260.0	228.2	200.1	172.1	140.3	112.2
72.5°	473.2	439.6	407.8	377.8	344.2	304.9	269.3	233.8	198.3	160.9	127.2
70°	544.3	503.2	463.9	428.3	390.9	351.6	308.6	267.5	224.5	179.6	140.3
67.5°	617.3	570.5	525.6	480.7	437.7	392.8	347.9	301.1	250.6	198.3	155.2
65°	697.7	639.7	585.5	535.0	484.5	435.8	385.3	334.8	278.7	218.8	168.3
62.5°	778.1	714.5	650.9	587.3	531.2	477.0	422.7	366.6	304.9	241.3	181.4
60°	864.2	791.2	718.3	647.2	578.0	518.1	458.3	398.4	332.9	261.9	194.5
57.5°	959.6	871.6	789.3	708.9	630.4	559.3	493.8	430.2	357.3	282.4	209.5
55°	1068.0	959.6	862.3	772.5	686.5	600.4	529.3	463.9	385.3	303.0	226.3
52.5°	1182.1	1056.8	939.0	838.0	746.3	649.1	563.0	490.1	413.4	323.6	241.3
50°	1314.9	1156.0	1025.0	901.6	798.7	697.7	598.6	520.0	441.4	347.9	256.3
47.5°	1451.5	1275.7	1111.1	976.4	854.8	744.4	639.7	546.2	467.6	370.4	271.2
45°	1610.5	1389.8	1208.3	1049.3	909.1	793.1	680.9	574.2	490.1	392.8	286.2
42.5°	1763.9	1524.4	1309.3	1129.8	970.8	839.8	718.3	604.2	512.5	415.2	299.3
40°	1945.3	1659.1	1406.6	1206.5	1032.5	884.7	755.7	636.0	533.1	435.8	312.4
37.5°	2119.2	1795.7	1524.4	1290.6	1092.4	929.6	793.1	665.9	551.8	456.4	329.2
35°	2291.3	1947.2	1636.7	1369.2	1154.1	980.1	830.5	693.9	570.5	473.2	344.2
32.5°	2455.9	2089.3	1750.8	1457.1	1221.4	1026.9	864.2	720.1	589.2	488.2	359.1
30°	2609.3	2224.0	1863.0	1546.9	1283.1	1069.9	896.0	746.3	611.6	501.3	374.1
27.5°	2749.6	2354.9	1975.2	1631.1	1341.1	1109.2	929.6	770.6	630.4	514.4	387.2
25°	2876.8	2472.8	2078.1	1707.7	1393.5	1152.2	961.4	795.0	647.2	525.6	398.4
22.5°	2996.5	2581.3	2171.6	1784.4	1457.1	1195.2	991.4	817.4	664.0	536.8	409.6
20°	3101.2	2680.4	2261.4	1861.1	1513.2	1234.5	1017.5	838.0	679.0	544.3	420.9
17.5°	3185.4	2768.3	2341.8	1928.5	1561.8	1268.2	1040.0	856.7	692.1	553.7	428.3
15°	3260.2	2843.1	2409.2	1986.4	1604.9	1296.2	1060.6	871.6	703.3	559.3	437.7
12.5°	3323.8	2906.7	2467.2	2036.9	1642.3	1320.6	1077.4	882.9	712.7	564.9	443.3
10°	3376.2	2957.2	2515.8	2076.2	1672.2	1339.3	1090.5	894.1	720.1	570.5	448.9
7.5°	3415.5	2994.6	2551.3	2109.9	1696.5	1352.4	1101.7	901.6	727.6	574.2	458.3
5°	3445.4	3026.4	2579.4	2132.3	1715.2	1371.1	1114.8	910.9	735.1	578.0	458.3
2.5°	3467.9	3052.6	2601.8	2151.0	1730.2	1367.3	1114.8	909.1	735.1	578.0	456.4
0°	3464.1	3054.5	2600.0	2151.0	1730.2	1363.6	1114.8	907.2	735.1	578.0	456.4



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.1	9.4	3.7	0.0
85°	28.1	18.7	9.4	0.0
82.5°	41.2	26.2	13.1	0.0
80°	54.2	35.5	16.8	0.0
77.5°	69.2	44.9	22.4	0.0
75°	82.3	52.4	26.2	0.0
72.5°	95.4	61.7	29.9	0.0
70°	106.6	69.2	33.7	0.0
67.5°	117.8	78.6	39.3	0.0
65°	127.2	86.0	43.0	0.0
62.5°	134.7	95.4	46.8	0.0
60°	144.0	102.9	50.5	0.0
57.5°	151.5	108.5	54.2	0.0
55°	159.0	112.2	58.0	0.0
52.5°	166.5	117.8	61.7	0.0
50°	174.0	123.5	65.5	0.0
47.5°	181.4	127.2	67.3	0.0
45°	192.7	132.8	71.1	0.0
42.5°	202.0	136.5	74.8	0.0
40°	211.4	140.3	76.7	0.0
37.5°	220.7	144.0	80.4	0.0
35°	230.1	147.8	82.3	0.0
32.5°	237.6	151.5	84.2	0.0
30°	245.0	155.2	86.0	0.0
27.5°	252.5	157.1	87.9	0.0
25°	258.1	160.9	89.8	0.0
22.5°	263.7	162.7	91.7	0.0
20°	267.5	164.6	93.5	0.0
17.5°	273.1	166.5	95.4	0.0
15°	275.0	168.3	99.1	0.0
12.5°	278.7	170.2	99.1	0.0
10°	280.6	172.1	99.1	0.0
7.5°	284.3	172.1	99.1	0.0
5°	282.4	172.1	99.1	0.0
2.5°	282.4	172.1	99.1	0.0
0°	280.6	172.1	99.1	0.0

(END OF REPORT)