

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: P628465

Luminaire Tested: **IFLD-L-SA8A-930-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628465  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-930-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

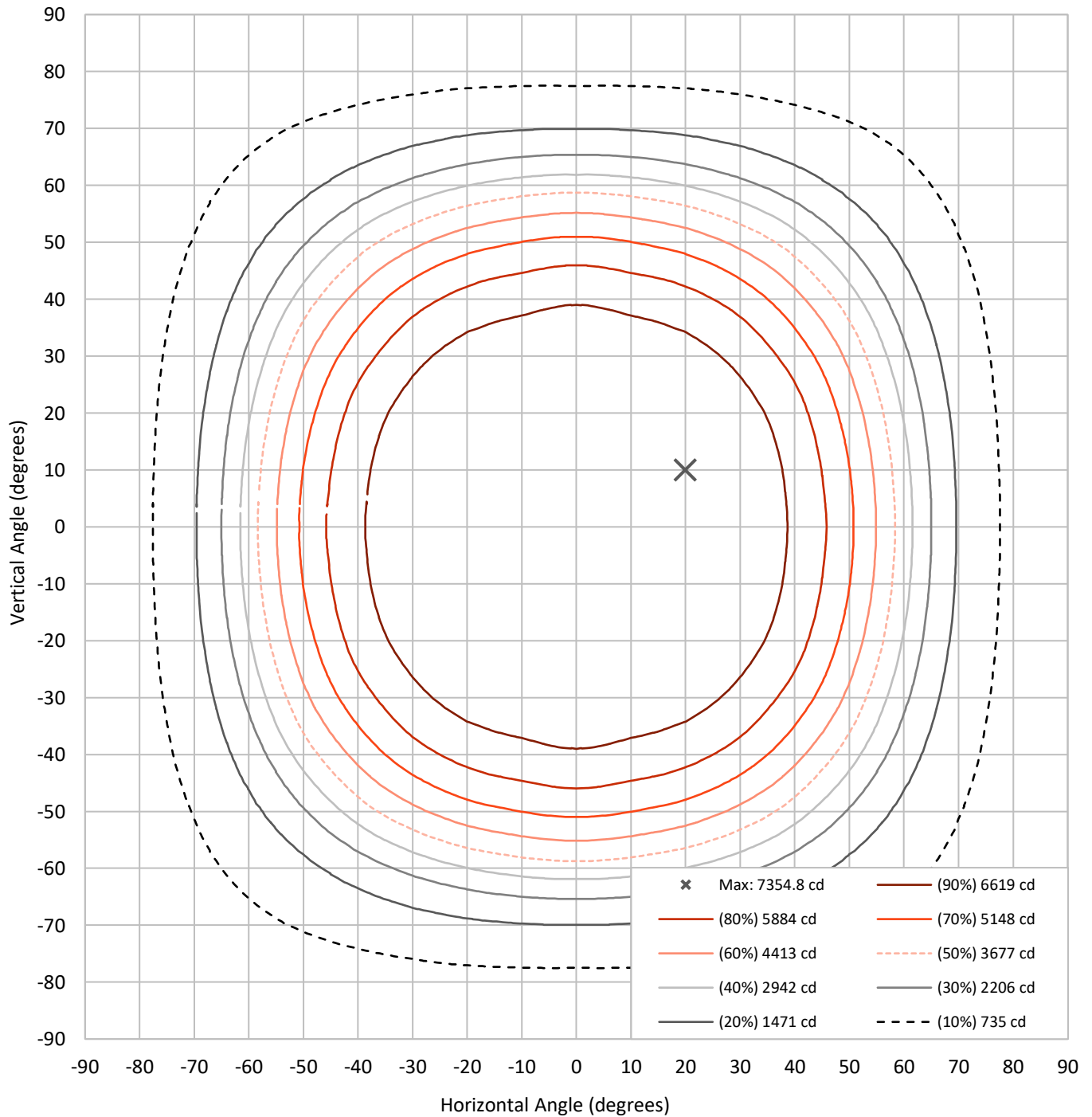
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22563.5 lumens	Max Intensity:	7354.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	91.1 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:	13845.5 lumens	Field Lumens:	16598.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	247.8		
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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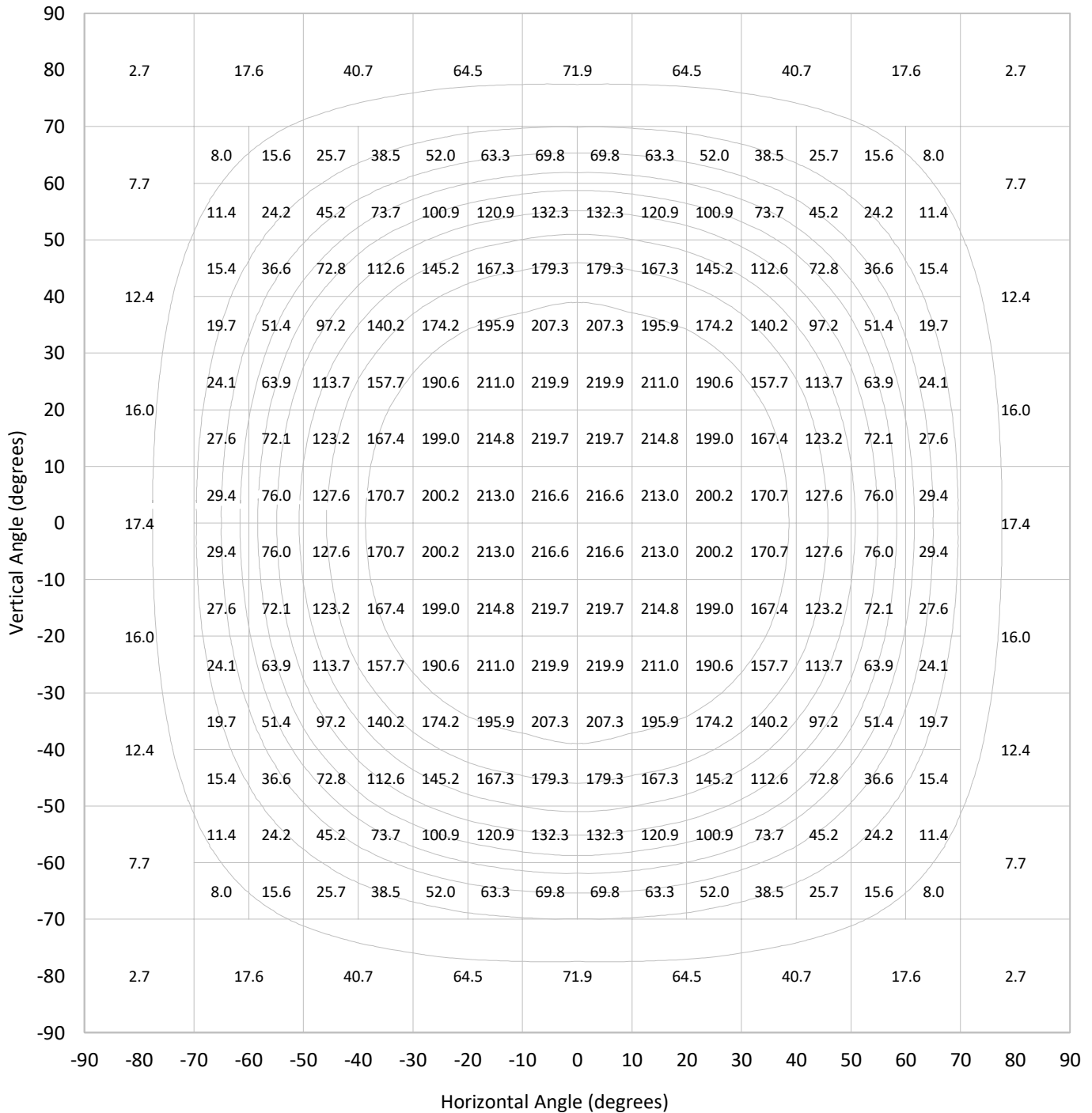
### Iso-Candela Plot





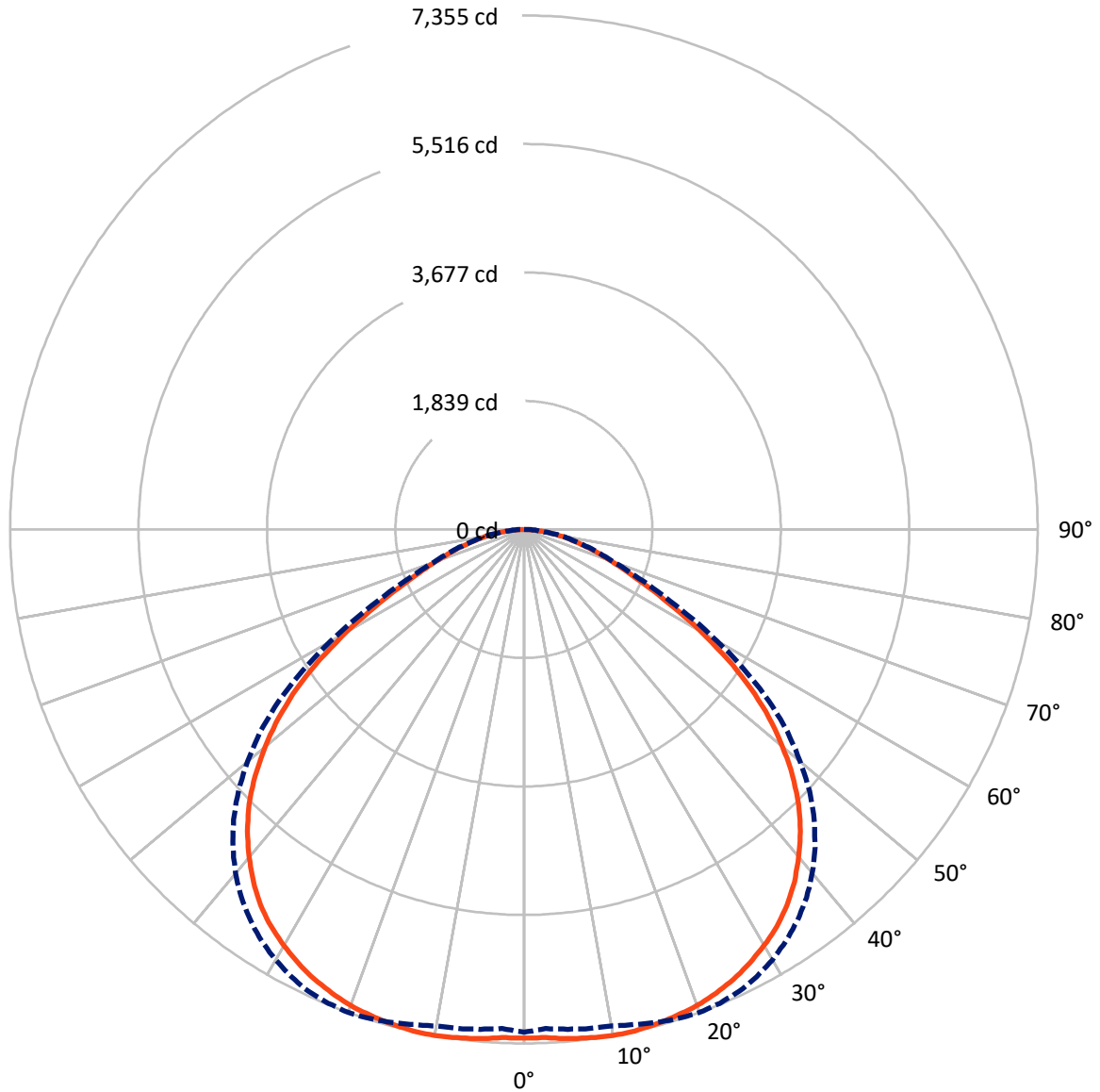
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### Lumen Table



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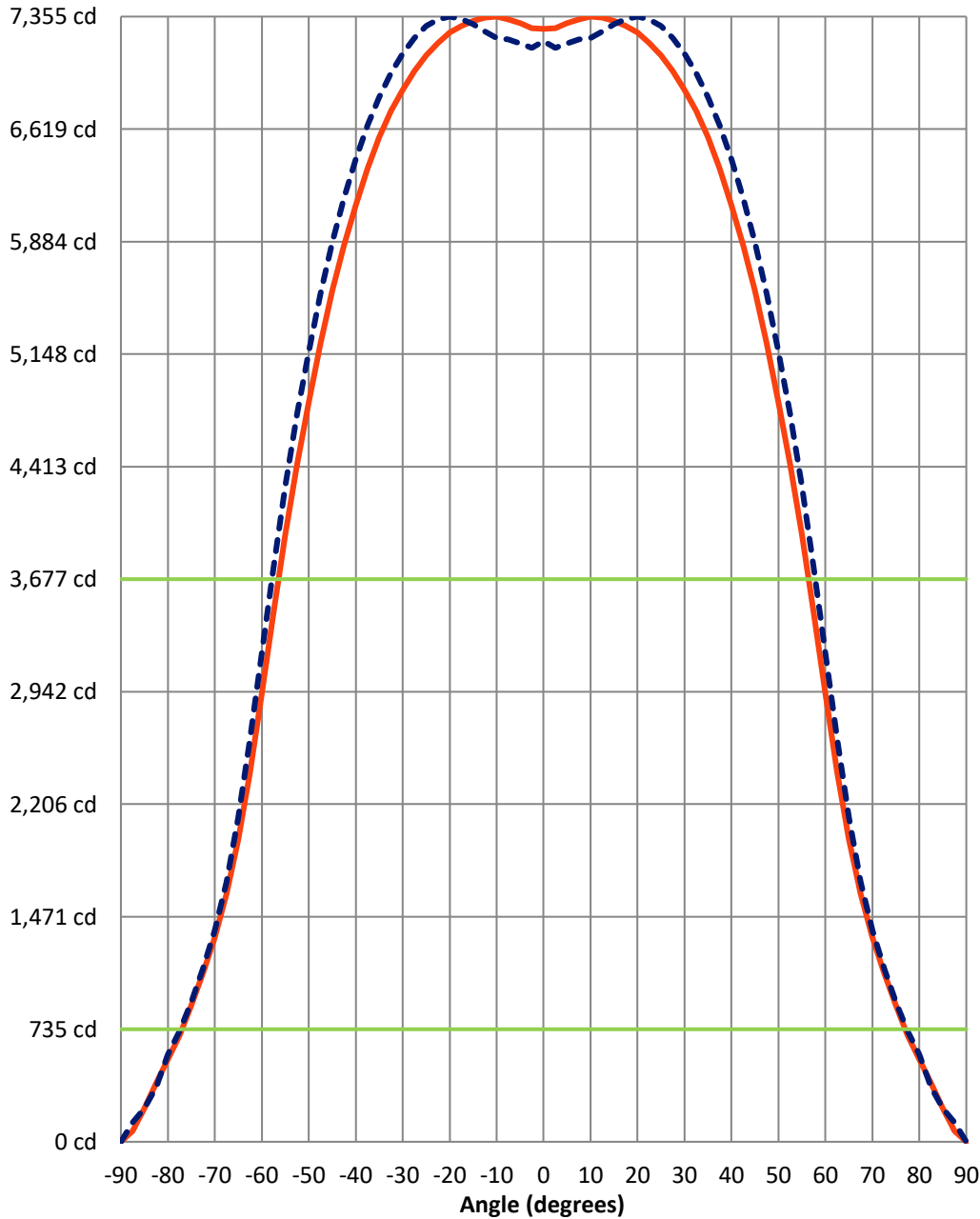
### Luminous Intensity Polar Plot



— 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: 13845.5  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 16598.3  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 5965.2  
 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°	59.4	64.1	66.5	68.8	71.2	73.6	76.0	73.6	71.2	71.2	68.8
85°	159.1	163.8	166.2	182.8	199.4	208.9	220.8	218.4	218.4	216.0	213.7
82.5°	318.1	332.4	344.2	360.9	370.4	384.6	394.1	387.0	382.2	372.7	365.6
80°	565.0	569.8	572.1	574.5	562.6	560.3	555.5	548.4	538.9	527.0	515.2
77.5°	719.3	724.1	728.8	724.1	721.7	719.3	712.2	705.1	695.6	686.1	671.9
75°	952.0	952.0	952.0	944.9	940.1	933.0	921.1	909.3	892.6	873.7	852.3
72.5°	1198.9	1196.5	1194.1	1179.9	1168.0	1153.8	1137.2	1122.9	1103.9	1082.6	1054.1
70°	1457.7	1462.4	1464.8	1445.8	1431.6	1412.6	1391.2	1365.1	1336.6	1305.7	1265.4
67.5°	1813.8	1809.0	1804.3	1778.2	1759.2	1733.1	1702.2	1664.2	1621.5	1574.0	1517.0
65°	2255.3	2262.5	2248.2	2222.1	2186.5	2143.8	2096.3	2041.7	1977.6	1906.4	1825.6
62.5°	2789.5	2801.4	2784.8	2751.5	2706.4	2649.4	2583.0	2504.6	2416.8	2317.1	2217.4
60°	3397.3	3394.9	3364.0	3318.9	3259.6	3188.3	3114.8	3029.3	2929.6	2813.2	2692.2
57.5°	3955.2	3950.4	3912.4	3867.3	3808.0	3732.0	3653.7	3563.4	3459.0	3335.5	3195.5
55°	4456.1	4451.3	4413.4	4365.9	4304.2	4228.2	4157.0	4071.5	3969.4	3838.8	3689.3
52.5°	4900.0	4902.4	4869.2	4816.9	4750.5	4676.9	4608.0	4522.6	4425.2	4294.7	4149.8
50°	5308.4	5306.0	5270.4	5222.9	5161.2	5090.0	5021.1	4935.6	4833.6	4707.7	4567.7
47.5°	5688.2	5683.5	5643.1	5590.9	5526.8	5465.1	5401.0	5325.0	5218.2	5092.3	4952.3
45°	6006.3	5996.8	5956.5	5906.6	5844.9	5790.3	5733.3	5676.4	5562.4	5446.1	5313.1
42.5°	6279.4	6277.0	6236.6	6186.8	6125.0	6077.6	6025.3	5954.1	5859.2	5752.3	5621.7
40°	6540.5	6521.5	6481.2	6433.7	6376.7	6336.3	6284.1	6212.9	6120.3	6015.8	5890.0
37.5°	6735.2	6737.6	6694.8	6642.6	6592.7	6554.8	6507.3	6440.8	6360.1	6258.0	6132.2
35°	6920.4	6908.5	6872.9	6827.8	6782.7	6739.9	6690.1	6633.1	6566.6	6471.7	6353.0
32.5°	7041.4	7058.0	7015.3	6967.8	6941.7	6908.5	6856.3	6796.9	6737.6	6642.6	6535.8
30°	7174.4	7160.1	7126.9	7086.5	7067.5	7046.2	7001.1	6944.1	6875.2	6789.8	6690.1
27.5°	7267.0	7259.8	7219.5	7181.5	7172.0	7153.0	7117.4	7067.5	6998.7	6915.6	6823.0
25°	7307.3	7312.1	7274.1	7252.7	7252.7	7240.9	7212.4	7169.6	7100.8	7024.8	6934.6
22.5°	7326.3	7321.6	7295.5	7290.7	7302.6	7293.1	7281.2	7243.2	7181.5	7119.8	7043.8
20°	7338.2	7304.9	7281.2	7300.2	7314.4	7312.1	7302.6	7278.8	7250.3	7198.1	7131.6
17.5°	7312.1	7290.7	7262.2	7290.7	7321.6	7323.9	7314.4	7300.2	7293.1	7259.8	7200.5
15°	7248.0	7231.4	7236.1	7264.6	7300.2	7312.1	7319.2	7335.8	7326.3	7300.2	7248.0
12.5°	7205.2	7183.9	7205.2	7233.7	7252.7	7259.8	7316.8	7347.7	7347.7	7323.9	7290.7
10°	7193.4	7150.6	7179.1	7205.2	7214.7	7257.5	7304.9	7338.2	7354.8	7335.8	7293.1
7.5°	7169.6	7141.1	7153.0	7164.9	7219.5	7250.3	7276.5	7312.1	7335.8	7333.4	7295.5
5°	7157.8	7122.1	7126.9	7176.8	7214.7	7236.1	7245.6	7276.5	7312.1	7319.2	7290.7
2.5°	7126.9	7110.3	7145.9	7150.6	7179.1	7195.7	7205.2	7233.7	7278.8	7295.5	7283.6
0°	7110.3	7086.5	7062.8	7081.8	7129.3	7164.9	7179.1	7221.9	7274.1	7290.7	7264.6



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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°	66.5	64.1	61.7	59.4	61.7	61.7	61.7	59.4	61.7	59.4	59.4
85°	206.5	197.0	189.9	180.4	170.9	163.8	154.3	144.8	142.4	140.1	135.3
82.5°	356.1	344.2	332.4	318.1	303.9	287.3	270.6	251.6	246.9	242.2	235.0
80°	500.9	484.3	467.7	451.1	436.8	420.2	401.2	379.8	365.6	353.7	339.5
77.5°	652.9	629.1	605.4	576.9	560.3	543.7	524.7	503.3	481.9	462.9	441.6
75°	826.2	800.1	776.3	747.8	717.0	686.1	655.2	626.7	595.9	567.4	538.9
72.5°	1018.5	980.5	942.5	906.9	868.9	830.9	790.6	752.6	714.6	676.6	636.2
70°	1220.3	1172.8	1125.3	1077.8	1028.0	978.1	930.6	883.1	835.7	785.8	740.7
67.5°	1457.7	1403.1	1341.3	1274.9	1201.3	1137.2	1075.4	1018.5	961.5	904.5	847.5
65°	1754.4	1678.5	1595.4	1505.1	1419.7	1334.2	1244.0	1158.5	1092.1	1025.6	961.5
62.5°	2120.0	2013.2	1896.9	1780.5	1676.1	1564.5	1460.0	1348.5	1244.0	1149.0	1070.7
60°	2556.9	2412.0	2269.6	2120.0	1975.2	1823.3	1690.3	1552.6	1422.1	1305.7	1191.8
57.5°	3038.8	2870.2	2699.3	2516.5	2319.4	2141.4	1961.0	1780.5	1626.2	1471.9	1343.7
55°	3527.8	3349.8	3157.5	2950.9	2734.9	2507.0	2262.5	2060.7	1849.4	1669.0	1502.8
52.5°	3993.2	3808.0	3608.6	3418.6	3159.9	2898.7	2630.4	2364.6	2117.7	1887.4	1685.6
50°	4408.6	4228.2	4035.9	3815.1	3575.3	3297.6	2998.4	2699.3	2407.3	2136.6	1885.0
47.5°	4788.5	4612.8	4420.5	4199.7	3981.3	3672.7	3371.2	3041.2	2715.9	2404.9	2110.5
45°	5144.6	4966.5	4767.1	4555.8	4304.2	4028.8	3717.8	3385.4	3036.4	2687.4	2347.9
42.5°	5467.4	5289.4	5087.6	4869.2	4619.9	4346.9	4045.4	3710.6	3359.3	2979.4	2606.7
40°	5749.9	5576.6	5382.0	5154.1	4921.4	4634.1	4337.4	4019.3	3656.0	3273.8	2863.1
37.5°	5996.8	5835.4	5643.1	5417.6	5170.7	4914.3	4608.0	4289.9	3962.3	3546.8	3126.6
35°	6215.3	6065.7	5868.6	5655.0	5412.8	5142.2	4854.9	4543.9	4190.2	3800.9	3392.5
32.5°	6405.2	6253.2	6072.8	5859.2	5624.1	5370.1	5075.7	4762.3	4427.6	4031.1	3587.2
30°	6566.6	6419.4	6248.5	6046.7	5821.2	5569.5	5282.3	4966.5	4624.6	4230.6	3791.4
27.5°	6706.7	6566.6	6400.4	6212.9	5996.8	5754.7	5465.1	5146.9	4798.0	4418.1	3978.9
25°	6827.8	6692.4	6538.1	6360.1	6146.4	5909.0	5636.0	5303.6	4954.6	4572.4	4138.0
22.5°	6937.0	6806.4	6652.1	6478.8	6284.1	6046.7	5771.3	5441.3	5087.6	4710.1	4282.8
20°	7034.3	6913.2	6761.3	6583.2	6388.6	6148.8	5875.8	5562.4	5206.3	4835.9	4413.4
17.5°	7112.7	7005.8	6853.9	6666.3	6471.7	6239.0	5973.1	5685.8	5308.4	4942.8	4522.6
15°	7167.3	7062.8	6925.1	6735.2	6545.3	6315.0	6049.1	5752.3	5401.0	5028.2	4612.8
12.5°	7205.2	7093.7	6965.5	6789.8	6599.9	6371.9	6113.2	5821.2	5479.3	5104.2	4691.1
10°	7214.7	7112.7	6984.5	6827.8	6642.6	6421.8	6167.8	5878.1	5543.4	5163.6	4755.2
7.5°	7219.5	7122.1	7005.8	6856.3	6673.5	6459.8	6208.1	5923.3	5590.9	5213.4	4802.7
5°	7217.1	7124.5	7020.1	6875.2	6692.4	6481.2	6234.3	5954.1	5624.1	5246.6	4838.3
2.5°	7210.0	7126.9	7029.6	6889.5	6713.8	6504.9	6260.4	5989.7	5659.7	5275.1	4866.8
0°	7229.0	7157.8	7034.3	6884.7	6718.6	6504.9	6258.0	5994.5	5664.5	5272.8	4864.4





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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°	59.4	57.0	57.0	54.6	52.2	49.9	45.1	42.7	38.0	30.9	23.7
85°	128.2	121.1	114.0	109.2	104.5	99.7	92.6	85.5	76.0	61.7	47.5
82.5°	225.5	211.3	197.0	180.4	166.2	151.9	140.1	128.2	114.0	92.6	71.2
80°	322.9	301.5	280.1	256.4	235.0	211.3	189.9	170.9	151.9	123.5	95.0
77.5°	420.2	391.7	360.9	332.4	301.5	270.6	239.8	213.7	185.2	151.9	118.7
75°	510.4	477.2	448.7	408.3	370.4	330.0	289.6	254.0	218.4	178.1	142.4
72.5°	600.6	557.9	517.5	479.6	436.8	387.0	341.9	296.8	251.6	204.2	161.4
70°	690.8	638.6	588.8	543.7	496.2	446.3	391.7	339.5	284.9	227.9	178.1
67.5°	783.4	724.1	667.1	610.1	555.5	498.6	441.6	382.2	318.1	251.6	197.0
65°	885.5	811.9	743.1	679.0	614.9	553.2	489.1	425.0	353.7	277.8	213.7
62.5°	987.6	906.9	826.2	745.5	674.2	605.4	536.5	465.3	387.0	306.3	230.3
60°	1096.8	1004.2	911.6	821.4	733.6	657.6	581.6	505.7	422.6	332.4	246.9
57.5°	1217.9	1106.3	1001.8	899.8	800.1	709.8	626.7	546.0	453.4	358.5	265.9
55°	1355.6	1217.9	1094.4	980.5	871.3	762.1	671.9	588.8	489.1	384.6	287.3
52.5°	1500.4	1341.3	1191.8	1063.6	947.2	823.8	714.6	622.0	524.7	410.7	306.3
50°	1669.0	1467.2	1301.0	1144.3	1013.7	885.5	759.7	660.0	560.3	441.6	325.2
47.5°	1842.3	1619.1	1410.2	1239.3	1084.9	944.9	811.9	693.2	593.5	470.1	344.2
45°	2044.1	1763.9	1533.6	1331.8	1153.8	1006.6	864.2	728.8	622.0	498.6	363.2
42.5°	2238.7	1934.9	1661.8	1433.9	1232.1	1065.9	911.6	766.8	650.5	527.0	379.8
40°	2469.0	2105.8	1785.3	1531.3	1310.5	1122.9	959.1	807.2	676.6	553.2	396.5
37.5°	2689.8	2279.1	1934.9	1638.1	1386.4	1179.9	1006.6	845.2	700.3	579.3	417.8
35°	2908.2	2471.4	2077.3	1737.8	1464.8	1244.0	1054.1	880.8	724.1	600.6	436.8
32.5°	3117.1	2651.8	2222.1	1849.4	1550.3	1303.4	1096.8	914.0	747.8	619.6	455.8
30°	3311.8	2822.7	2364.6	1963.3	1628.6	1358.0	1137.2	947.2	776.3	636.2	474.8
27.5°	3489.9	2988.9	2507.0	2070.2	1702.2	1407.8	1179.9	978.1	800.1	652.9	491.4
25°	3651.3	3138.5	2637.6	2167.5	1768.7	1462.4	1220.3	1009.0	821.4	667.1	505.7
22.5°	3803.2	3276.2	2756.3	2264.8	1849.4	1517.0	1258.2	1037.5	842.8	681.4	519.9
20°	3936.2	3402.0	2870.2	2362.2	1920.6	1566.9	1291.5	1063.6	861.8	690.8	534.2
17.5°	4043.0	3513.6	2972.3	2447.6	1982.3	1609.6	1320.0	1087.3	878.4	702.7	543.7
15°	4138.0	3608.6	3057.8	2521.2	2036.9	1645.2	1346.1	1106.3	892.6	709.8	555.5
12.5°	4218.7	3689.3	3131.4	2585.3	2084.4	1676.1	1367.5	1120.6	904.5	717.0	562.6
10°	4285.2	3753.4	3193.1	2635.2	2122.4	1699.8	1384.1	1134.8	914.0	724.1	569.8
7.5°	4335.0	3800.9	3238.2	2677.9	2153.3	1716.4	1398.3	1144.3	923.5	728.8	581.6
5°	4373.0	3841.2	3273.8	2706.4	2177.0	1740.2	1414.9	1156.2	933.0	733.6	581.6
2.5°	4401.5	3874.4	3302.3	2730.2	2196.0	1735.4	1414.9	1153.8	933.0	733.6	579.3
0°	4396.7	3876.8	3299.9	2730.2	2196.0	1730.7	1414.9	1151.4	933.0	733.6	579.3



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.6	11.9	4.7	0.0
85°	35.6	23.7	11.9	0.0
82.5°	52.2	33.2	16.6	0.0
80°	68.8	45.1	21.4	0.0
77.5°	87.8	57.0	28.5	0.0
75°	104.5	66.5	33.2	0.0
72.5°	121.1	78.3	38.0	0.0
70°	135.3	87.8	42.7	0.0
67.5°	149.6	99.7	49.9	0.0
65°	161.4	109.2	54.6	0.0
62.5°	170.9	121.1	59.4	0.0
60°	182.8	130.6	64.1	0.0
57.5°	192.3	137.7	68.8	0.0
55°	201.8	142.4	73.6	0.0
52.5°	211.3	149.6	78.3	0.0
50°	220.8	156.7	83.1	0.0
47.5°	230.3	161.4	85.5	0.0
45°	244.5	168.6	90.2	0.0
42.5°	256.4	173.3	95.0	0.0
40°	268.3	178.1	97.3	0.0
37.5°	280.1	182.8	102.1	0.0
35°	292.0	187.5	104.5	0.0
32.5°	301.5	192.3	106.8	0.0
30°	311.0	197.0	109.2	0.0
27.5°	320.5	199.4	111.6	0.0
25°	327.6	204.2	114.0	0.0
22.5°	334.7	206.5	116.3	0.0
20°	339.5	208.9	118.7	0.0
17.5°	346.6	211.3	121.1	0.0
15°	349.0	213.7	125.8	0.0
12.5°	353.7	216.0	125.8	0.0
10°	356.1	218.4	125.8	0.0
7.5°	360.9	218.4	125.8	0.0
5°	358.5	218.4	125.8	0.0
2.5°	358.5	218.4	125.8	0.0
0°	356.1	218.4	125.8	0.0

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