

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: P628221

Luminaire Tested: **IFLD-S-SA6D-730-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628221  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-730-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

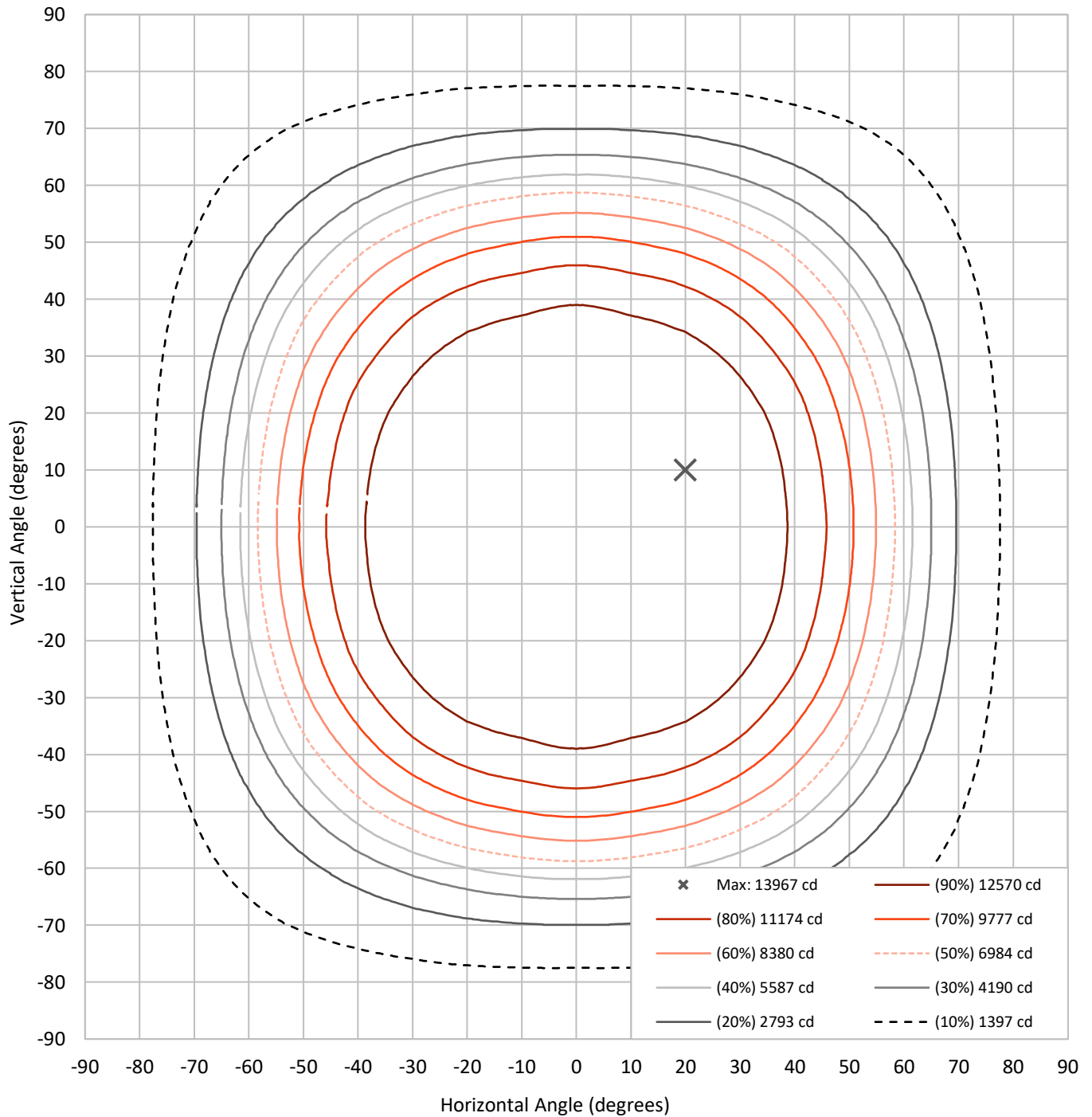
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	42848.8 lumens	Max Intensity:	13967 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	116.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	26292.9 lumens	Field Lumens:	31520.7 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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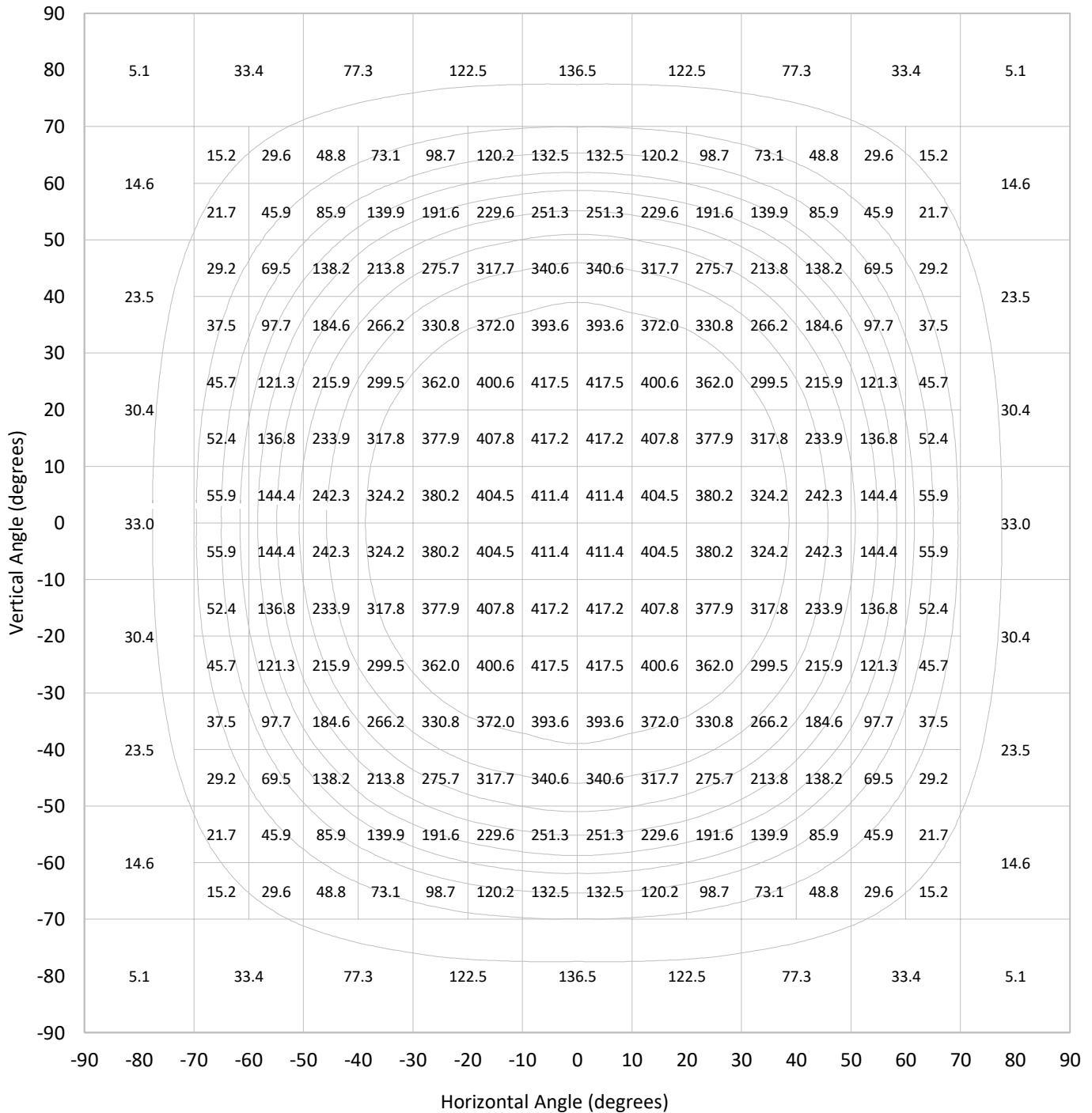
### Iso-Candela Plot





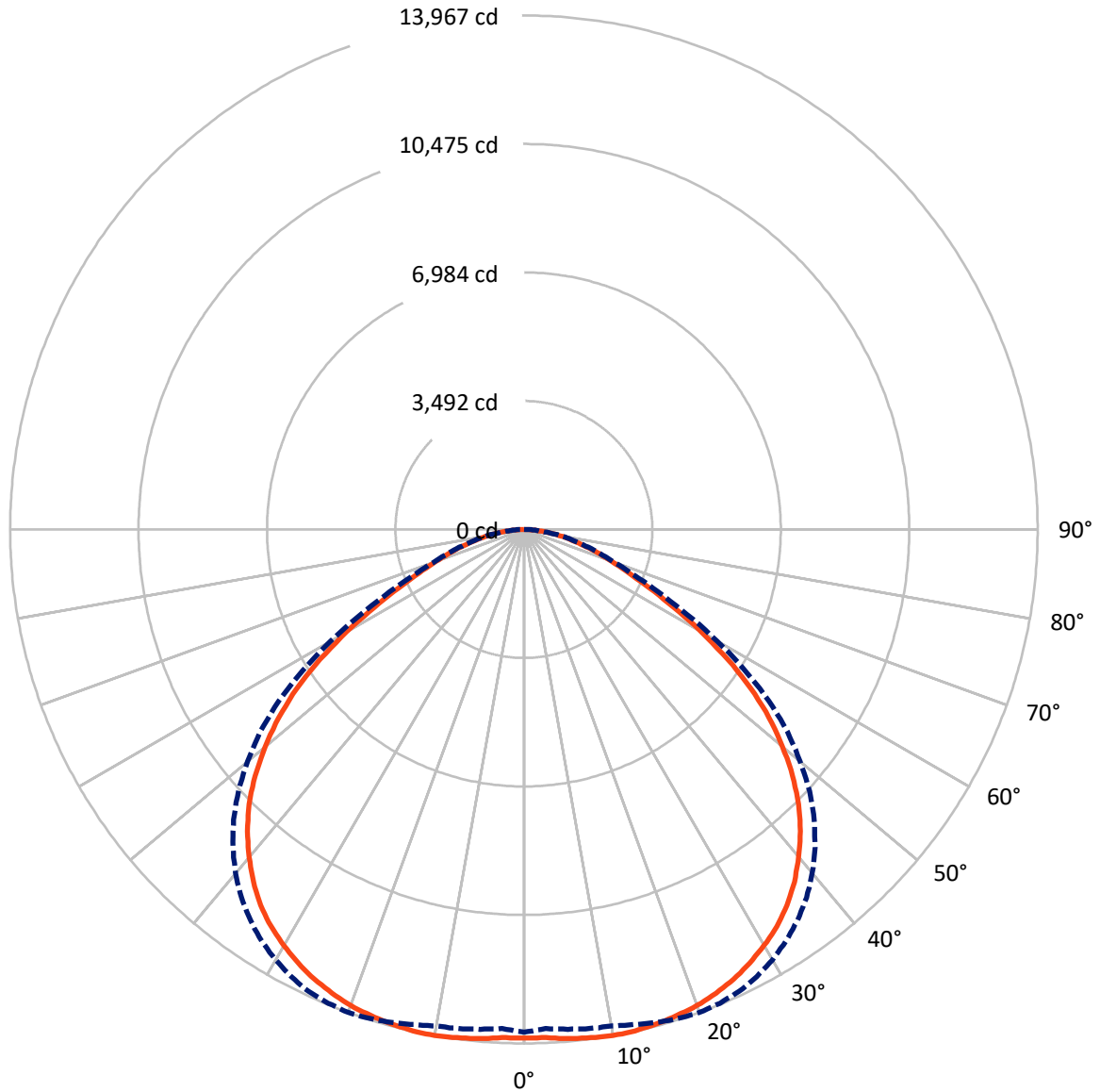
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### Lumen Table



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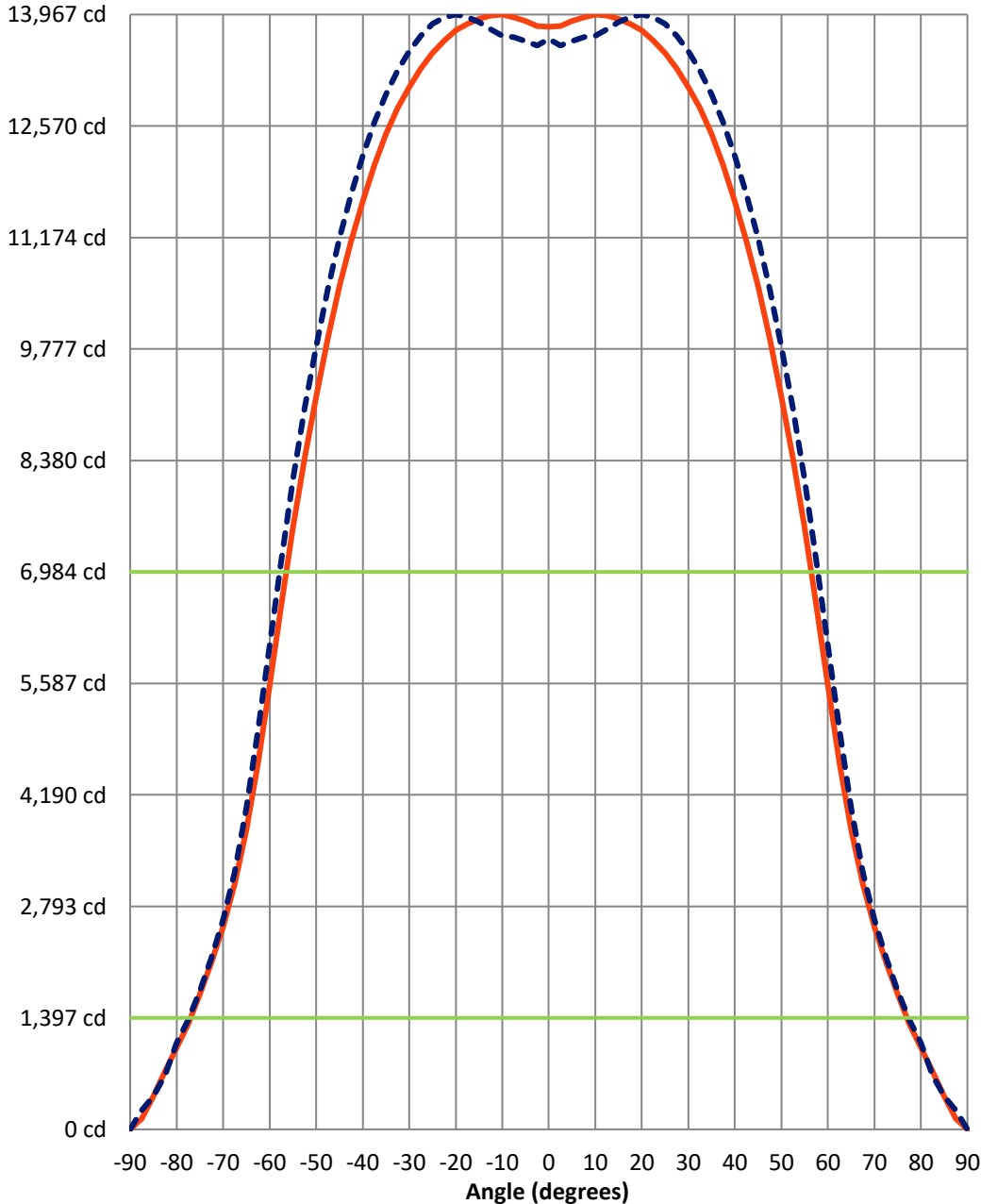
### Luminous Intensity Polar Plot



— 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: 26292.9  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 31520.7  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 11328.1  
 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°	112.7	121.7	126.2	130.7	135.3	139.8	144.3	139.8	135.3	135.3	130.7
85°	302.1	311.1	315.6	347.1	378.7	396.7	419.3	414.8	414.8	410.3	405.8
82.5°	604.1	631.2	653.7	685.3	703.3	730.4	748.4	734.9	725.9	707.8	694.3
80°	1073.0	1082.0	1086.5	1091.0	1068.5	1064.0	1055.0	1041.4	1023.4	1000.9	978.3
77.5°	1366.0	1375.1	1384.1	1375.1	1370.6	1366.0	1352.5	1339.0	1321.0	1302.9	1275.9
75°	1807.9	1807.9	1807.9	1794.3	1785.3	1771.8	1749.3	1726.7	1695.2	1659.1	1618.5
72.5°	2276.7	2272.2	2267.7	2240.7	2218.1	2191.1	2159.5	2132.5	2096.4	2055.8	2001.7
70°	2768.2	2777.2	2781.7	2745.6	2718.6	2682.5	2641.9	2592.3	2538.2	2479.6	2403.0
67.5°	3444.4	3435.4	3426.4	3376.8	3340.7	3291.1	3232.5	3160.4	3079.2	2989.1	2880.9
65°	4283.0	4296.5	4269.4	4219.9	4152.2	4071.1	3980.9	3877.2	3755.5	3620.2	3467.0
62.5°	5297.4	5319.9	5288.3	5225.2	5139.6	5031.4	4905.1	4756.4	4589.5	4400.2	4210.8
60°	6451.5	6447.0	6388.4	6302.7	6190.0	6054.8	5915.0	5752.7	5563.4	5342.4	5112.5
57.5°	7511.0	7502.0	7429.8	7344.2	7231.5	7087.2	6938.4	6767.1	6568.7	6334.3	6068.3
55°	8462.2	8453.2	8381.1	8290.9	8173.7	8029.4	7894.2	7731.9	7538.0	7290.1	7006.0
52.5°	9305.3	9309.8	9246.7	9147.5	9021.3	8881.5	8750.8	8588.5	8403.6	8155.7	7880.7
50°	10080.8	10076.3	10008.6	9918.5	9801.2	9666.0	9535.2	9372.9	9179.1	8940.1	8674.1
47.5°	10802.1	10793.1	10716.4	10617.3	10495.5	10378.3	10256.6	10112.3	9909.4	9670.5	9404.5
45°	11406.2	11388.2	11311.5	11216.9	11099.7	10996.0	10887.8	10779.6	10563.2	10342.2	10089.8
42.5°	11924.7	11920.2	11843.5	11748.9	11631.6	11541.5	11442.3	11307.0	11126.7	10923.8	10675.9
40°	12420.6	12384.5	12307.9	12217.7	12109.5	12032.9	11933.7	11798.5	11622.6	11424.3	11185.3
37.5°	12790.3	12794.8	12713.7	12614.5	12519.8	12447.7	12357.5	12231.3	12078.0	11884.1	11645.2
35°	13142.0	13119.4	13051.8	12966.1	12880.5	12799.3	12704.6	12596.4	12470.2	12289.9	12064.5
32.5°	13371.9	13403.4	13322.3	13232.1	13182.5	13119.4	13020.2	12907.5	12794.8	12614.5	12411.6
30°	13624.4	13597.3	13534.2	13457.5	13421.5	13380.9	13295.2	13187.0	13056.3	12894.0	12704.6
27.5°	13800.2	13786.7	13710.0	13637.9	13619.8	13583.8	13516.2	13421.5	13290.7	13132.9	12957.1
25°	13876.8	13885.8	13813.7	13773.1	13773.1	13750.6	13696.5	13615.3	13484.6	13340.3	13169.0
22.5°	13912.9	13903.9	13854.3	13845.3	13867.8	13849.8	13827.2	13755.1	13637.9	13520.7	13376.4
20°	13935.4	13872.3	13827.2	13863.3	13890.3	13885.8	13867.8	13822.7	13768.6	13669.4	13543.2
17.5°	13885.8	13845.3	13791.2	13845.3	13903.9	13908.4	13890.3	13863.3	13849.8	13786.7	13673.9
15°	13764.1	13732.6	13741.6	13795.7	13863.3	13885.8	13899.4	13930.9	13912.9	13863.3	13764.1
12.5°	13683.0	13642.4	13683.0	13737.1	13773.1	13786.7	13894.9	13953.5	13953.5	13908.4	13845.3
10°	13660.4	13579.3	13633.4	13683.0	13701.0	13782.1	13872.3	13935.4	13967.0	13930.9	13849.8
7.5°	13615.3	13561.2	13583.8	13606.3	13710.0	13768.6	13818.2	13885.8	13930.9	13926.4	13854.3
5°	13592.8	13525.2	13534.2	13628.9	13701.0	13741.6	13759.6	13818.2	13885.8	13899.4	13845.3
2.5°	13534.2	13502.6	13570.3	13579.3	13633.4	13664.9	13683.0	13737.1	13822.7	13854.3	13831.7
0°	13502.6	13457.5	13412.5	13448.5	13538.7	13606.3	13633.4	13714.5	13813.7	13845.3	13795.7



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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°	126.2	121.7	117.2	112.7	117.2	117.2	117.2	112.7	117.2	112.7	112.7
85°	392.2	374.2	360.7	342.6	324.6	311.1	293.0	275.0	270.5	266.0	257.0
82.5°	676.3	653.7	631.2	604.1	577.1	545.5	514.0	477.9	468.9	459.9	446.3
80°	951.3	919.7	888.2	856.6	829.5	798.0	761.9	721.3	694.3	671.8	644.7
77.5°	1239.8	1194.7	1149.6	1095.5	1064.0	1032.4	996.4	955.8	915.2	879.1	838.6
75°	1568.9	1519.3	1474.2	1420.1	1361.5	1302.9	1244.3	1190.2	1131.6	1077.5	1023.4
72.5°	1934.1	1862.0	1789.8	1722.2	1650.1	1577.9	1501.3	1429.2	1357.0	1284.9	1208.2
70°	2317.3	2227.1	2137.0	2046.8	1952.1	1857.5	1767.3	1677.1	1587.0	1492.3	1406.6
67.5°	2768.2	2664.5	2547.2	2421.0	2281.2	2159.5	2042.3	1934.1	1825.9	1717.7	1609.5
65°	3331.7	3187.4	3029.6	2858.3	2696.0	2533.7	2362.4	2200.1	2073.9	1947.6	1825.9
62.5°	4026.0	3823.1	3602.2	3381.3	3182.9	2971.0	2772.7	2560.8	2362.4	2182.1	2033.3
60°	4855.5	4580.5	4310.0	4026.0	3751.0	3462.4	3210.0	2948.5	2700.5	2479.6	2263.2
57.5°	5770.7	5450.6	5126.0	4778.9	4404.7	4066.6	3723.9	3381.3	3088.2	2795.2	2551.7
55°	6699.5	6361.3	5996.2	5603.9	5193.7	4760.9	4296.5	3913.3	3512.0	3169.4	2853.8
52.5°	7583.1	7231.5	6852.8	6492.1	6000.7	5504.7	4995.3	4490.4	4021.5	3584.2	3201.0
50°	8372.1	8029.4	7664.3	7245.0	6789.6	6262.2	5694.1	5126.0	4571.5	4057.6	3579.7
47.5°	9093.4	8759.8	8394.6	7975.3	7560.6	6974.5	6401.9	5775.2	5157.6	4567.0	4008.0
45°	9769.7	9431.6	9052.8	8651.6	8173.7	7650.7	7060.1	6429.0	5766.2	5103.5	4458.8
42.5°	10382.8	10044.7	9661.5	9246.7	8773.3	8254.9	7682.3	7046.6	6379.4	5658.0	4950.2
40°	10919.3	10590.2	10220.5	9787.7	9345.9	8800.4	8236.8	7632.7	6942.9	6217.1	5437.1
37.5°	11388.2	11081.6	10716.4	10288.1	9819.3	9332.4	8750.8	8146.7	7524.5	6735.5	5937.5
35°	11803.0	11518.9	11144.7	10739.0	10279.1	9765.2	9219.7	8629.1	7957.3	7217.9	6442.5
32.5°	12163.6	11875.1	11532.5	11126.7	10680.4	10198.0	9638.9	9043.8	8408.1	7655.2	6812.2
30°	12470.2	12190.7	11866.1	11482.9	11054.6	10576.7	10031.2	9431.6	8782.3	8033.9	7199.9
27.5°	12736.2	12470.2	12154.6	11798.5	11388.2	10928.3	10378.3	9774.2	9111.5	8390.1	7556.1
25°	12966.1	12709.1	12416.1	12078.0	11672.2	11221.4	10702.9	10071.7	9409.0	8683.2	7858.1
22.5°	13173.5	12925.6	12632.5	12303.4	11933.7	11482.9	10959.9	10333.2	9661.5	8944.6	8133.1
20°	13358.4	13128.4	12839.9	12501.8	12132.1	11676.7	11158.3	10563.2	9886.9	9183.6	8381.1
17.5°	13507.1	13304.3	13015.7	12659.6	12289.9	11848.0	11343.1	10797.6	10080.8	9386.5	8588.5
15°	13610.8	13412.5	13151.0	12790.3	12429.6	11992.3	11487.4	10923.8	10256.6	9548.8	8759.8
12.5°	13683.0	13471.1	13227.6	12894.0	12533.3	12100.5	11609.1	11054.6	10405.4	9693.0	8908.6
10°	13701.0	13507.1	13263.7	12966.1	12614.5	12195.2	11712.8	11162.8	10527.1	9805.7	9030.3
7.5°	13710.0	13525.2	13304.3	13020.2	12673.1	12267.3	11789.4	11248.4	10617.3	9900.4	9120.5
5°	13705.5	13529.7	13331.3	13056.3	12709.1	12307.9	11839.0	11307.0	10680.4	9963.5	9188.1
2.5°	13692.0	13534.2	13349.3	13083.3	12749.7	12353.0	11888.6	11374.7	10748.0	10017.6	9242.2
0°	13728.0	13592.8	13358.4	13074.3	12758.7	12353.0	11884.1	11383.7	10757.0	10013.1	9237.7





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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°	112.7	108.2	108.2	103.7	99.2	94.7	85.7	81.2	72.1	58.6	45.1
85°	243.5	229.9	216.4	207.4	198.4	189.4	175.8	162.3	144.3	117.2	90.2
82.5°	428.3	401.2	374.2	342.6	315.6	288.5	266.0	243.5	216.4	175.8	135.3
80°	613.1	572.6	532.0	486.9	446.3	401.2	360.7	324.6	288.5	234.4	180.3
77.5°	798.0	743.9	685.3	631.2	572.6	514.0	455.3	405.8	351.7	288.5	225.4
75°	969.3	906.2	852.1	775.4	703.3	626.7	550.0	482.4	414.8	338.1	270.5
72.5°	1140.6	1059.5	982.8	910.7	829.5	734.9	649.2	563.5	477.9	387.7	306.6
70°	1311.9	1212.8	1118.1	1032.4	942.3	847.6	743.9	644.7	541.0	432.8	338.1
67.5°	1487.8	1375.1	1266.9	1158.7	1055.0	946.8	838.6	725.9	604.1	477.9	374.2
65°	1681.6	1541.9	1411.1	1289.4	1167.7	1050.5	928.7	807.0	671.8	527.5	405.8
62.5°	1875.5	1722.2	1568.9	1415.6	1280.4	1149.6	1018.9	883.6	734.9	581.6	437.3
60°	2082.9	1907.0	1731.2	1559.9	1393.1	1248.8	1104.6	960.3	802.5	631.2	468.9
57.5°	2312.8	2100.9	1902.5	1708.7	1519.3	1348.0	1190.2	1036.9	861.1	680.8	504.9
55°	2574.3	2312.8	2078.4	1862.0	1654.6	1447.2	1275.9	1118.1	928.7	730.4	545.5
52.5°	2849.3	2547.2	2263.2	2019.8	1798.8	1564.4	1357.0	1181.2	996.4	780.0	581.6
50°	3169.4	2786.2	2470.6	2173.0	1925.1	1681.6	1442.7	1253.3	1064.0	838.6	617.6
47.5°	3498.5	3074.7	2678.0	2353.4	2060.3	1794.3	1541.9	1316.4	1127.1	892.7	653.7
45°	3881.7	3349.7	2912.4	2529.2	2191.1	1911.6	1641.1	1384.1	1181.2	946.8	689.8
42.5°	4251.4	3674.3	3155.9	2723.1	2339.9	2024.3	1731.2	1456.2	1235.3	1000.9	721.3
40°	4688.7	3998.9	3390.3	2907.9	2488.6	2132.5	1821.4	1532.9	1284.9	1050.5	752.9
37.5°	5108.0	4328.1	3674.3	3110.8	2632.9	2240.7	1911.6	1605.0	1330.0	1100.0	793.5
35°	5522.8	4693.2	3944.8	3300.1	2781.7	2362.4	2001.7	1672.6	1375.1	1140.6	829.5
32.5°	5919.5	5035.9	4219.9	3512.0	2944.0	2475.1	2082.9	1735.7	1420.1	1176.7	865.6
30°	6289.2	5360.5	4490.4	3728.4	3092.8	2578.8	2159.5	1798.8	1474.2	1208.2	901.7
27.5°	6627.3	5676.1	4760.9	3931.3	3232.5	2673.5	2240.7	1857.5	1519.3	1239.8	933.2
25°	6933.9	5960.1	5008.8	4116.2	3358.8	2777.2	2317.3	1916.1	1559.9	1266.9	960.3
22.5°	7222.4	6221.6	5234.2	4301.0	3512.0	2880.9	2389.4	1970.2	1600.5	1293.9	987.3
20°	7474.9	6460.5	5450.6	4485.8	3647.3	2975.5	2452.6	2019.8	1636.5	1311.9	1014.4
17.5°	7677.8	6672.4	5644.5	4648.1	3764.5	3056.7	2506.7	2064.8	1668.1	1334.5	1032.4
15°	7858.1	6852.8	5806.8	4787.9	3868.2	3124.3	2556.3	2100.9	1695.2	1348.0	1055.0
12.5°	8011.4	7006.0	5946.6	4909.6	3958.4	3182.9	2596.8	2128.0	1717.7	1361.5	1068.5
10°	8137.6	7127.8	6063.8	5004.3	4030.5	3228.0	2628.4	2155.0	1735.7	1375.1	1082.0
7.5°	8232.3	7217.9	6149.4	5085.5	4089.1	3259.6	2655.4	2173.0	1753.8	1384.1	1104.6
5°	8304.5	7294.6	6217.1	5139.6	4134.2	3304.6	2687.0	2195.6	1771.8	1393.1	1104.6
2.5°	8358.6	7357.7	6271.2	5184.6	4170.3	3295.6	2687.0	2191.1	1771.8	1393.1	1100.0
0°	8349.5	7362.2	6266.7	5184.6	4170.3	3286.6	2687.0	2186.6	1771.8	1393.1	1100.0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	31.6	22.5	9.0	0.0
85°	67.6	45.1	22.5	0.0
82.5°	99.2	63.1	31.6	0.0
80°	130.7	85.7	40.6	0.0
77.5°	166.8	108.2	54.1	0.0
75°	198.4	126.2	63.1	0.0
72.5°	229.9	148.8	72.1	0.0
70°	257.0	166.8	81.2	0.0
67.5°	284.0	189.4	94.7	0.0
65°	306.6	207.4	103.7	0.0
62.5°	324.6	229.9	112.7	0.0
60°	347.1	248.0	121.7	0.0
57.5°	365.2	261.5	130.7	0.0
55°	383.2	270.5	139.8	0.0
52.5°	401.2	284.0	148.8	0.0
50°	419.3	297.6	157.8	0.0
47.5°	437.3	306.6	162.3	0.0
45°	464.4	320.1	171.3	0.0
42.5°	486.9	329.1	180.3	0.0
40°	509.4	338.1	184.8	0.0
37.5°	532.0	347.1	193.9	0.0
35°	554.5	356.2	198.4	0.0
32.5°	572.6	365.2	202.9	0.0
30°	590.6	374.2	207.4	0.0
27.5°	608.6	378.7	211.9	0.0
25°	622.2	387.7	216.4	0.0
22.5°	635.7	392.2	220.9	0.0
20°	644.7	396.7	225.4	0.0
17.5°	658.2	401.2	229.9	0.0
15°	662.7	405.8	238.9	0.0
12.5°	671.8	410.3	238.9	0.0
10°	676.3	414.8	238.9	0.0
7.5°	685.3	414.8	238.9	0.0
5°	680.8	414.8	238.9	0.0
2.5°	680.8	414.8	238.9	0.0
0°	676.3	414.8	238.9	0.0

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