

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: P628439

Luminaire Tested: **IFLD-L-SA8D-927-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628439  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-927-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

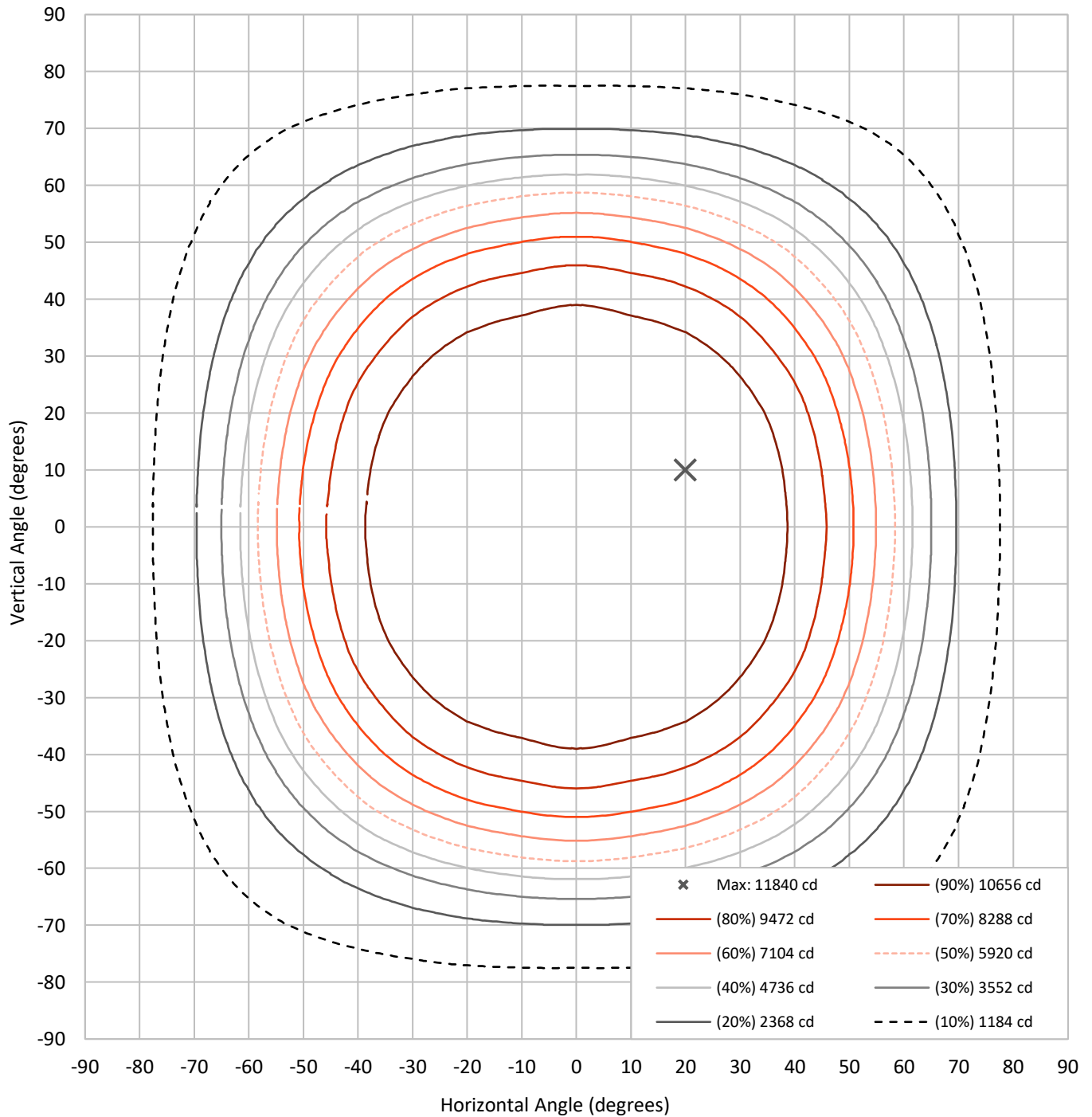
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36323.4 lumens	Max Intensity:	11840 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	74.4 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:	22288.8 lumens	Field Lumens:	26720.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	488.3		
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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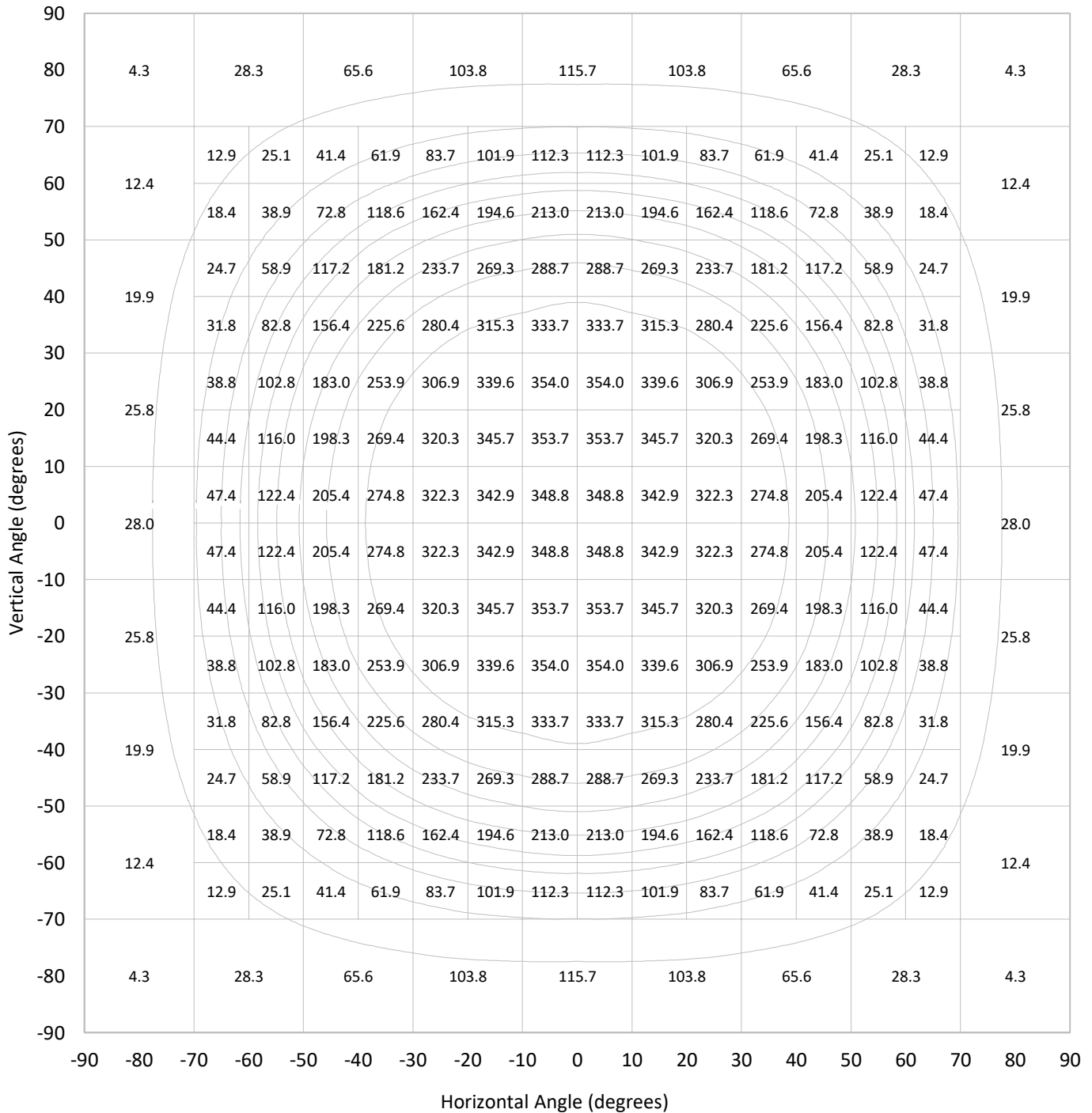
### Iso-Candela Plot





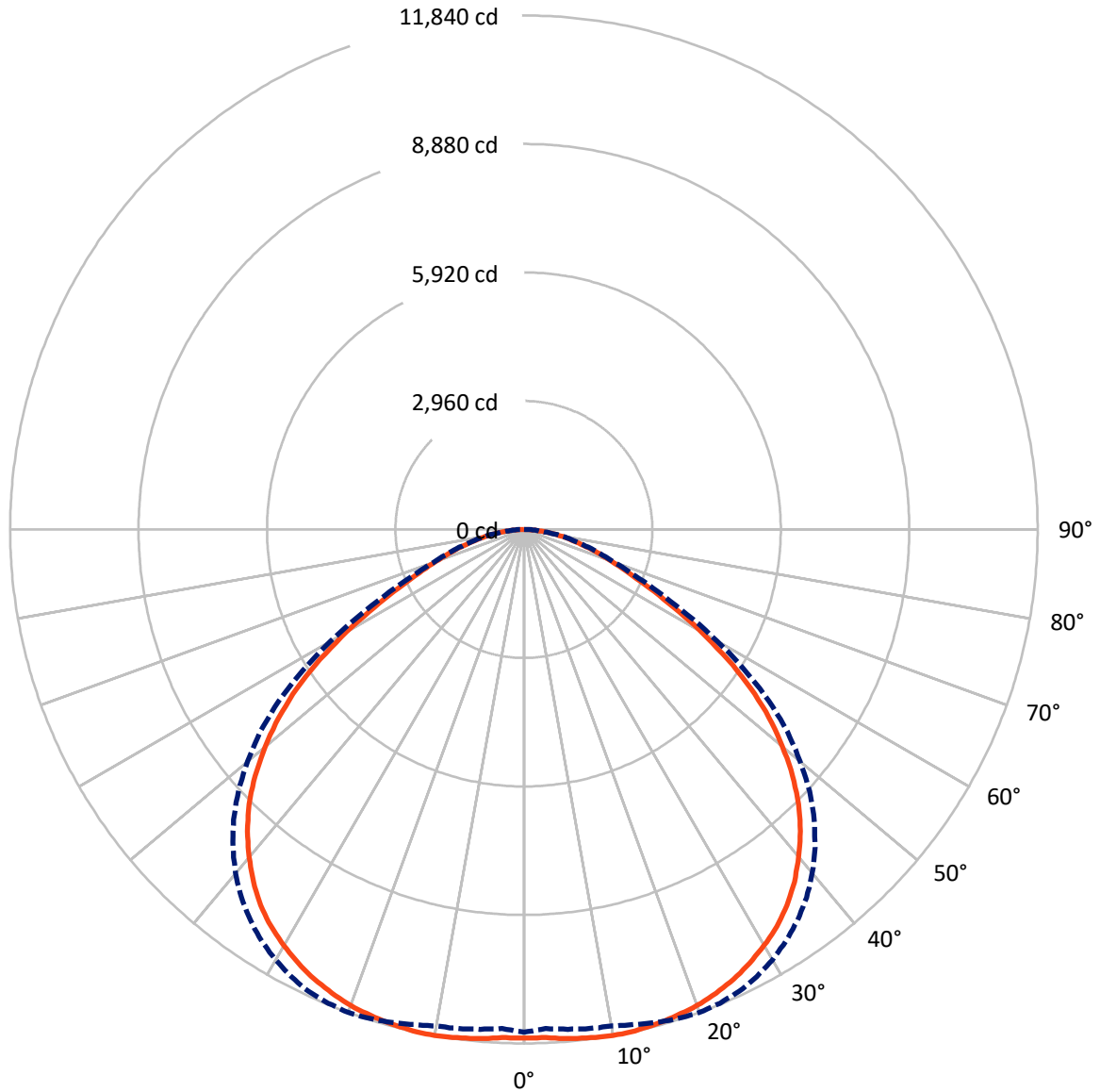
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### Lumen Table



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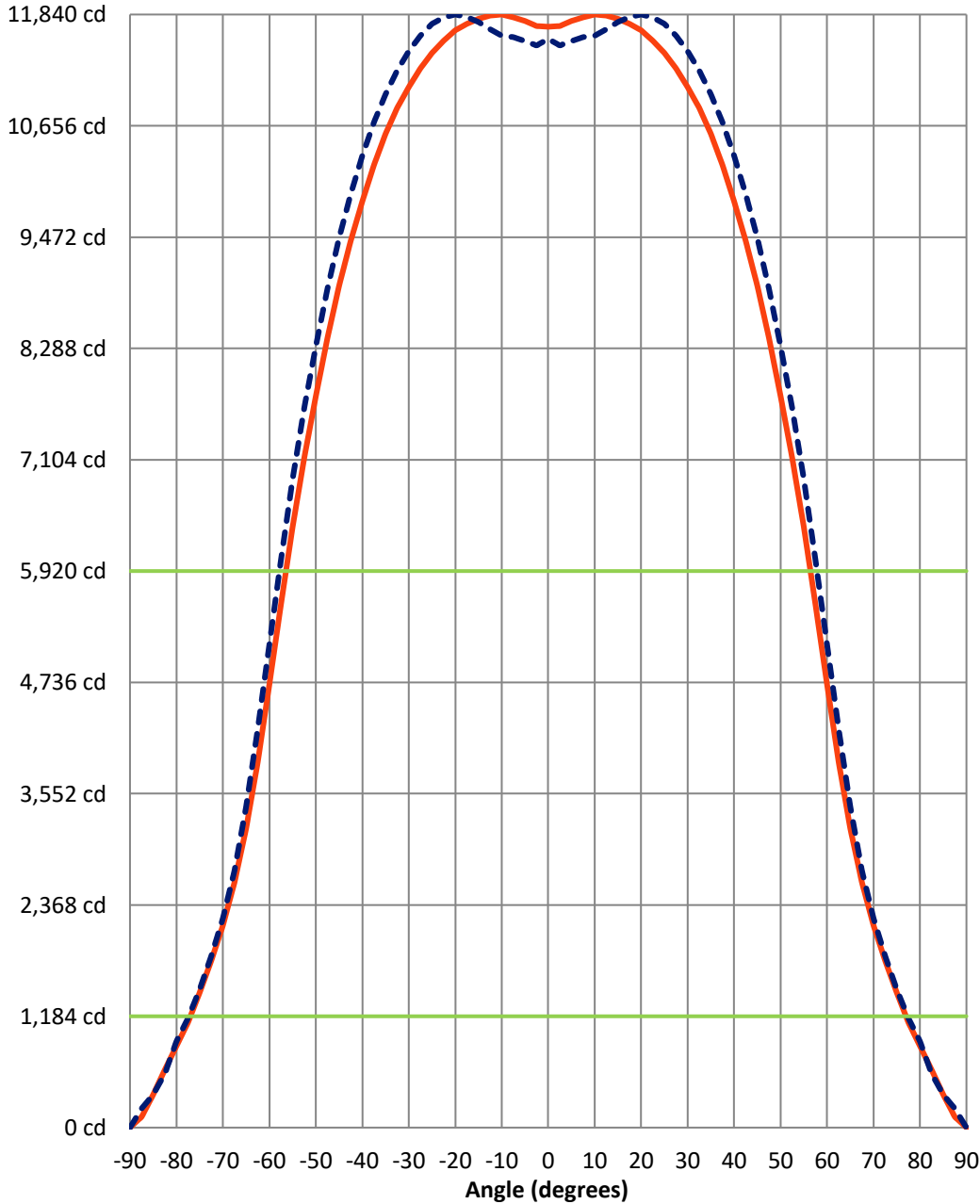
### Luminous Intensity Polar Plot



— 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: 22288.8  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 26720.5  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 9602.9  
 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°	95.5	103.2	107.0	110.8	114.7	118.5	122.3	118.5	114.7	114.7	110.8
85°	256.1	263.7	267.5	294.3	321.0	336.3	355.4	351.6	351.6	347.8	344.0
82.5°	512.1	535.1	554.2	580.9	596.2	619.1	634.4	623.0	615.3	600.0	588.6
80°	909.6	917.2	921.1	924.9	905.8	901.9	894.3	882.8	867.6	848.4	829.3
77.5°	1158.0	1165.7	1173.3	1165.7	1161.8	1158.0	1146.5	1135.1	1119.8	1104.5	1081.6
75°	1532.5	1532.5	1532.5	1521.1	1513.4	1502.0	1482.9	1463.8	1437.0	1406.4	1372.0
72.5°	1930.0	1926.2	1922.4	1899.4	1880.3	1857.4	1830.6	1807.7	1777.1	1742.7	1696.9
70°	2346.6	2354.2	2358.1	2327.5	2304.6	2274.0	2239.6	2197.5	2151.7	2102.0	2037.0
67.5°	2919.9	2912.2	2904.6	2862.5	2832.0	2789.9	2740.2	2679.1	2610.3	2533.9	2442.1
65°	3630.7	3642.2	3619.3	3577.2	3519.9	3451.1	3374.7	3286.8	3183.6	3068.9	2939.0
62.5°	4490.6	4509.7	4483.0	4429.5	4356.9	4265.1	4158.1	4032.0	3890.6	3730.1	3569.6
60°	5469.0	5465.2	5415.5	5342.9	5247.3	5132.7	5014.2	4876.6	4716.1	4528.8	4333.9
57.5°	6367.1	6359.5	6298.3	6225.7	6130.2	6007.9	5881.8	5736.5	5568.4	5369.6	5144.2
55°	7173.5	7165.9	7104.7	7028.3	6928.9	6806.6	6692.0	6554.4	6390.1	6179.9	5939.1
52.5°	7888.2	7892.0	7838.5	7754.5	7647.4	7529.0	7418.1	7280.5	7123.9	6913.7	6680.5
50°	8545.6	8541.7	8484.4	8408.0	8308.6	8194.0	8083.1	7945.5	7781.2	7578.6	7353.2
47.5°	9157.1	9149.4	9084.4	9000.4	8897.2	8797.8	8694.6	8572.3	8400.3	8197.8	7972.3
45°	9669.2	9653.9	9588.9	9508.7	9409.3	9321.4	9229.7	9137.9	8954.5	8767.2	8553.2
42.5°	10108.7	10104.9	10039.9	9959.6	9860.3	9783.8	9699.8	9585.1	9432.2	9260.2	9050.0
40°	10529.1	10498.5	10433.5	10357.1	10265.4	10200.4	10116.3	10001.7	9852.6	9684.5	9481.9
37.5°	10842.5	10846.3	10777.5	10693.4	10613.2	10552.0	10475.6	10368.6	10238.6	10074.3	9871.7
35°	11140.6	11121.5	11064.1	10991.5	10918.9	10850.1	10769.9	10678.1	10571.1	10418.3	10227.2
32.5°	11335.5	11362.2	11293.4	11217.0	11175.0	11121.5	11037.4	10941.8	10846.3	10693.4	10521.4
30°	11549.5	11526.6	11473.1	11408.1	11377.5	11343.1	11270.5	11178.8	11068.0	10930.4	10769.9
27.5°	11698.6	11687.1	11622.1	11561.0	11545.7	11515.1	11457.8	11377.5	11266.7	11132.9	10983.9
25°	11763.5	11771.2	11710.0	11675.6	11675.6	11656.5	11610.7	11541.9	11431.0	11308.7	11163.5
22.5°	11794.1	11786.5	11744.4	11736.8	11755.9	11740.6	11721.5	11660.3	11561.0	11461.6	11339.3
20°	11813.2	11759.7	11721.5	11752.1	11775.0	11771.2	11755.9	11717.7	11671.8	11587.7	11480.7
17.5°	11771.2	11736.8	11690.9	11736.8	11786.5	11790.3	11775.0	11752.1	11740.6	11687.1	11591.5
15°	11668.0	11641.2	11648.9	11694.7	11752.1	11771.2	11782.6	11809.4	11794.1	11752.1	11668.0
12.5°	11599.2	11564.8	11599.2	11645.1	11675.6	11687.1	11778.8	11828.5	11828.5	11790.3	11736.8
10°	11580.1	11511.3	11557.2	11599.2	11614.5	11683.3	11759.7	11813.2	11840.0	11809.4	11740.6
7.5°	11541.9	11496.0	11515.1	11534.2	11622.1	11671.8	11713.8	11771.2	11809.4	11805.6	11744.4
5°	11522.8	11465.4	11473.1	11553.3	11614.5	11648.9	11664.2	11713.8	11771.2	11782.6	11736.8
2.5°	11473.1	11446.3	11503.6	11511.3	11557.2	11583.9	11599.2	11645.1	11717.7	11744.4	11725.3
0°	11446.3	11408.1	11369.9	11400.5	11476.9	11534.2	11557.2	11625.9	11710.0	11736.8	11694.7



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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°	107.0	103.2	99.4	95.5	99.4	99.4	99.4	95.5	99.4	95.5	95.5
85°	332.5	317.2	305.7	290.5	275.2	263.7	248.4	233.1	229.3	225.5	217.8
82.5°	573.3	554.2	535.1	512.1	489.2	462.4	435.7	405.1	397.5	389.8	378.4
80°	806.4	779.6	752.9	726.1	703.2	676.5	645.9	611.5	588.6	569.4	546.5
77.5°	1051.0	1012.8	974.6	928.7	901.9	875.2	844.6	810.2	775.8	745.3	710.9
75°	1330.0	1287.9	1249.7	1203.9	1154.2	1104.5	1054.8	1009.0	959.3	913.4	867.6
72.5°	1639.6	1578.4	1517.3	1459.9	1398.8	1337.6	1272.7	1211.5	1150.4	1089.2	1024.2
70°	1964.4	1888.0	1811.5	1735.1	1654.8	1574.6	1498.1	1421.7	1345.3	1265.0	1192.4
67.5°	2346.6	2258.7	2159.3	2052.3	1933.8	1830.6	1731.3	1639.6	1547.8	1456.1	1364.4
65°	2824.3	2702.0	2568.3	2423.0	2285.4	2147.9	2002.6	1865.0	1758.0	1651.0	1547.8
62.5°	3412.9	3240.9	3053.6	2866.4	2698.2	2518.6	2350.4	2170.8	2002.6	1849.8	1723.6
60°	4116.1	3883.0	3653.6	3412.9	3179.7	2935.1	2721.1	2499.5	2289.3	2102.0	1918.5
57.5°	4891.9	4620.6	4345.4	4051.1	3733.9	3447.3	3156.8	2866.4	2617.9	2369.5	2163.1
55°	5679.2	5392.6	5083.0	4750.5	4402.7	4035.8	3642.2	3317.3	2977.2	2686.7	2419.2
52.5°	6428.3	6130.2	5809.1	5503.4	5086.8	4666.4	4234.6	3806.5	3409.1	3038.3	2713.5
50°	7097.1	6806.6	6497.1	6141.6	5755.6	5308.5	4826.9	4345.4	3875.3	3439.6	3034.5
47.5°	7708.6	7425.8	7116.2	6760.8	6409.2	5912.3	5427.0	4895.7	4372.1	3871.5	3397.6
45°	8281.9	7995.2	7674.2	7334.1	6928.9	6485.6	5985.0	5449.9	4888.1	4326.3	3779.8
42.5°	8801.6	8515.0	8190.1	7838.5	7437.2	6997.7	6512.4	5973.5	5407.9	4796.4	4196.3
40°	9256.4	8977.4	8664.0	8297.1	7922.6	7460.2	6982.4	6470.3	5885.6	5270.3	4609.1
37.5°	9653.9	9394.0	9084.4	8721.4	8323.9	7911.1	7418.1	6906.0	6378.6	5709.8	5033.3
35°	10005.5	9764.7	9447.5	9103.5	8713.7	8278.0	7815.6	7314.9	6745.5	6118.7	5461.4
32.5°	10311.2	10066.6	9776.2	9432.2	9053.9	8644.9	8171.0	7666.5	7127.7	6489.4	5774.8
30°	10571.1	10334.2	10059.0	9734.1	9371.1	8966.0	8503.5	7995.2	7444.9	6810.5	6103.4
27.5°	10796.6	10571.1	10303.6	10001.7	9653.9	9264.1	8797.8	8285.7	7723.9	7112.4	6405.4
25°	10991.5	10773.7	10525.3	10238.6	9894.7	9512.5	9073.0	8537.9	7976.1	7360.8	6661.4
22.5°	11167.3	10957.1	10708.7	10429.7	10116.3	9734.1	9290.8	8759.6	8190.1	7582.5	6894.5
20°	11324.0	11129.1	10884.5	10597.9	10284.5	9898.5	9459.0	8954.5	8381.2	7785.0	7104.7
17.5°	11450.1	11278.2	11033.6	10731.6	10418.3	10043.7	9615.7	9153.2	8545.6	7957.0	7280.5
15°	11538.0	11369.9	11148.2	10842.5	10536.7	10166.0	9738.0	9260.2	8694.6	8094.6	7425.8
12.5°	11599.2	11419.6	11213.2	10930.4	10624.6	10257.7	9841.2	9371.1	8820.7	8216.9	7551.9
10°	11614.5	11450.1	11243.8	10991.5	10693.4	10338.0	9929.1	9462.8	8923.9	8312.4	7655.1
7.5°	11622.1	11465.4	11278.2	11037.4	10743.1	10399.1	9994.0	9535.4	9000.4	8392.7	7731.5
5°	11618.3	11469.2	11301.1	11068.0	10773.7	10433.5	10036.1	9585.1	9053.9	8446.2	7788.8
2.5°	11606.8	11473.1	11316.4	11090.9	10808.1	10471.8	10078.1	9642.4	9111.2	8492.1	7834.7
0°	11637.4	11522.8	11324.0	11083.2	10815.7	10471.8	10074.3	9650.1	9118.8	8488.2	7830.9





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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°	95.5	91.7	91.7	87.9	84.1	80.3	72.6	68.8	61.1	49.7	38.2
85°	206.4	194.9	183.4	175.8	168.2	160.5	149.1	137.6	122.3	99.4	76.4
82.5°	363.1	340.1	317.2	290.5	267.5	244.6	225.5	206.4	183.4	149.1	114.7
80°	519.8	485.4	451.0	412.8	378.4	340.1	305.7	275.2	244.6	198.7	152.9
77.5°	676.5	630.6	580.9	535.1	485.4	435.7	386.0	344.0	298.1	244.6	191.1
75°	821.7	768.2	722.3	657.4	596.2	531.2	466.3	408.9	351.6	286.6	229.3
72.5°	966.9	898.1	833.2	772.0	703.2	623.0	550.3	477.7	405.1	328.7	259.9
70°	1112.1	1028.1	947.8	875.2	798.8	718.5	630.6	546.5	458.6	366.9	286.6
67.5°	1261.2	1165.7	1073.9	982.2	894.3	802.6	710.9	615.3	512.1	405.1	317.2
65°	1425.5	1307.1	1196.2	1093.0	989.8	890.5	787.3	684.1	569.4	447.2	344.0
62.5°	1589.9	1459.9	1330.0	1200.0	1085.4	974.6	863.7	749.1	623.0	493.0	370.7
60°	1765.7	1616.6	1467.6	1322.3	1180.9	1058.6	936.3	814.0	680.3	535.1	397.5
57.5°	1960.6	1781.0	1612.8	1448.5	1287.9	1142.7	1009.0	879.0	730.0	577.1	428.0
55°	2182.3	1960.6	1761.9	1578.4	1402.6	1226.8	1081.6	947.8	787.3	619.1	462.4
52.5°	2415.4	2159.3	1918.5	1712.2	1524.9	1326.2	1150.4	1001.3	844.6	661.2	493.0
50°	2686.7	2361.9	2094.4	1842.1	1631.9	1425.5	1223.0	1062.5	901.9	710.9	523.6
47.5°	2965.7	2606.5	2270.2	1995.0	1746.6	1521.1	1307.1	1116.0	955.5	756.7	554.2
45°	3290.6	2839.6	2468.9	2144.0	1857.4	1620.4	1391.1	1173.3	1001.3	802.6	584.7
42.5°	3604.0	3114.8	2675.3	2308.4	1983.5	1716.0	1467.6	1234.4	1047.2	848.4	611.5
40°	3974.7	3389.9	2874.0	2465.1	2109.6	1807.7	1544.0	1299.4	1089.2	890.5	638.2
37.5°	4330.1	3668.9	3114.8	2637.0	2231.9	1899.4	1620.4	1360.6	1127.4	932.5	672.6
35°	4681.7	3978.5	3344.1	2797.6	2358.1	2002.6	1696.9	1417.9	1165.7	966.9	703.2
32.5°	5018.0	4269.0	3577.2	2977.2	2495.6	2098.2	1765.7	1471.4	1203.9	997.5	733.8
30°	5331.4	4544.1	3806.5	3160.6	2621.8	2186.1	1830.6	1524.9	1249.7	1024.2	764.4
27.5°	5618.1	4811.7	4035.8	3332.6	2740.2	2266.3	1899.4	1574.6	1287.9	1051.0	791.1
25°	5877.9	5052.4	4246.0	3489.3	2847.2	2354.2	1964.4	1624.3	1322.3	1073.9	814.0
22.5°	6122.5	5274.1	4437.1	3646.0	2977.2	2442.1	2025.6	1670.1	1356.7	1096.9	837.0
20°	6336.6	5476.7	4620.6	3802.7	3091.8	2522.4	2079.1	1712.2	1387.3	1112.1	859.9
17.5°	6508.5	5656.3	4784.9	3940.3	3191.2	2591.2	2124.9	1750.4	1414.1	1131.3	875.2
15°	6661.4	5809.1	4922.5	4058.8	3279.1	2648.5	2167.0	1781.0	1437.0	1142.7	894.3
12.5°	6791.4	5939.1	5041.0	4161.9	3355.5	2698.2	2201.4	1803.9	1456.1	1154.2	905.8
10°	6898.4	6042.3	5140.3	4242.2	3416.7	2736.4	2228.1	1826.8	1471.4	1165.7	917.2
7.5°	6978.6	6118.7	5212.9	4311.0	3466.4	2763.2	2251.0	1842.1	1486.7	1173.3	936.3
5°	7039.8	6183.7	5270.3	4356.9	3504.6	2801.4	2277.8	1861.2	1502.0	1180.9	936.3
2.5°	7085.6	6237.2	5316.1	4395.1	3535.2	2793.7	2277.8	1857.4	1502.0	1180.9	932.5
0°	7078.0	6241.0	5312.3	4395.1	3535.2	2786.1	2277.8	1853.6	1502.0	1180.9	932.5



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	26.8	19.1	7.6	0.0
85°	57.3	38.2	19.1	0.0
82.5°	84.1	53.5	26.8	0.0
80°	110.8	72.6	34.4	0.0
77.5°	141.4	91.7	45.9	0.0
75°	168.2	107.0	53.5	0.0
72.5°	194.9	126.1	61.1	0.0
70°	217.8	141.4	68.8	0.0
67.5°	240.8	160.5	80.3	0.0
65°	259.9	175.8	87.9	0.0
62.5°	275.2	194.9	95.5	0.0
60°	294.3	210.2	103.2	0.0
57.5°	309.6	221.7	110.8	0.0
55°	324.9	229.3	118.5	0.0
52.5°	340.1	240.8	126.1	0.0
50°	355.4	252.2	133.8	0.0
47.5°	370.7	259.9	137.6	0.0
45°	393.6	271.3	145.2	0.0
42.5°	412.8	279.0	152.9	0.0
40°	431.9	286.6	156.7	0.0
37.5°	451.0	294.3	164.3	0.0
35°	470.1	301.9	168.2	0.0
32.5°	485.4	309.6	172.0	0.0
30°	500.7	317.2	175.8	0.0
27.5°	515.9	321.0	179.6	0.0
25°	527.4	328.7	183.4	0.0
22.5°	538.9	332.5	187.3	0.0
20°	546.5	336.3	191.1	0.0
17.5°	558.0	340.1	194.9	0.0
15°	561.8	344.0	202.6	0.0
12.5°	569.4	347.8	202.6	0.0
10°	573.3	351.6	202.6	0.0
7.5°	580.9	351.6	202.6	0.0
5°	577.1	351.6	202.6	0.0
2.5°	577.1	351.6	202.6	0.0
0°	573.3	351.6	202.6	0.0

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