

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: P628414

Luminaire Tested: **IFLD-S-SA2D-927-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628414  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-927-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10190.2 lumens	Max Intensity:	3321.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	82.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

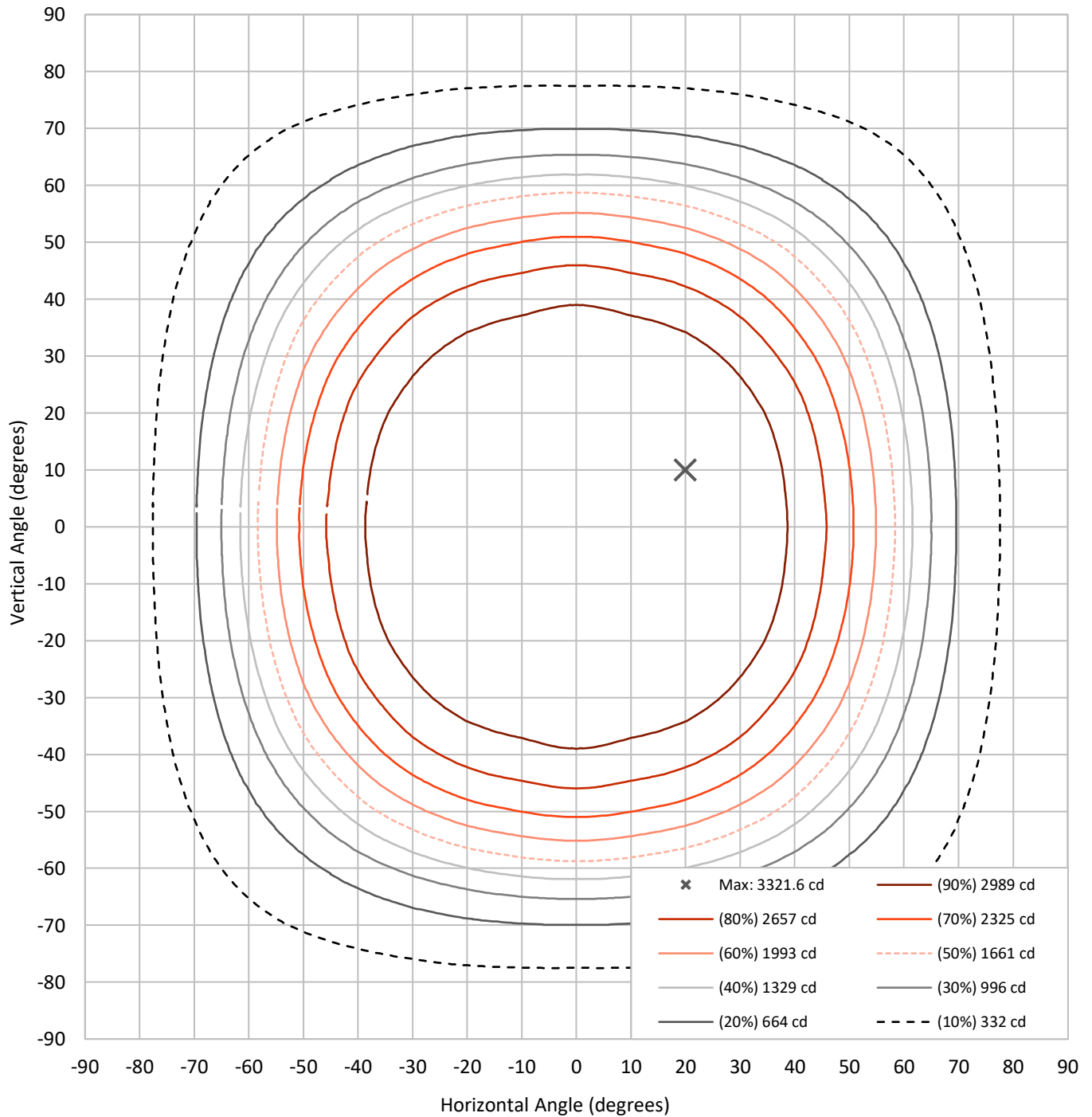
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6252.9 lumens	Field Lumens:	7496.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 123.9  
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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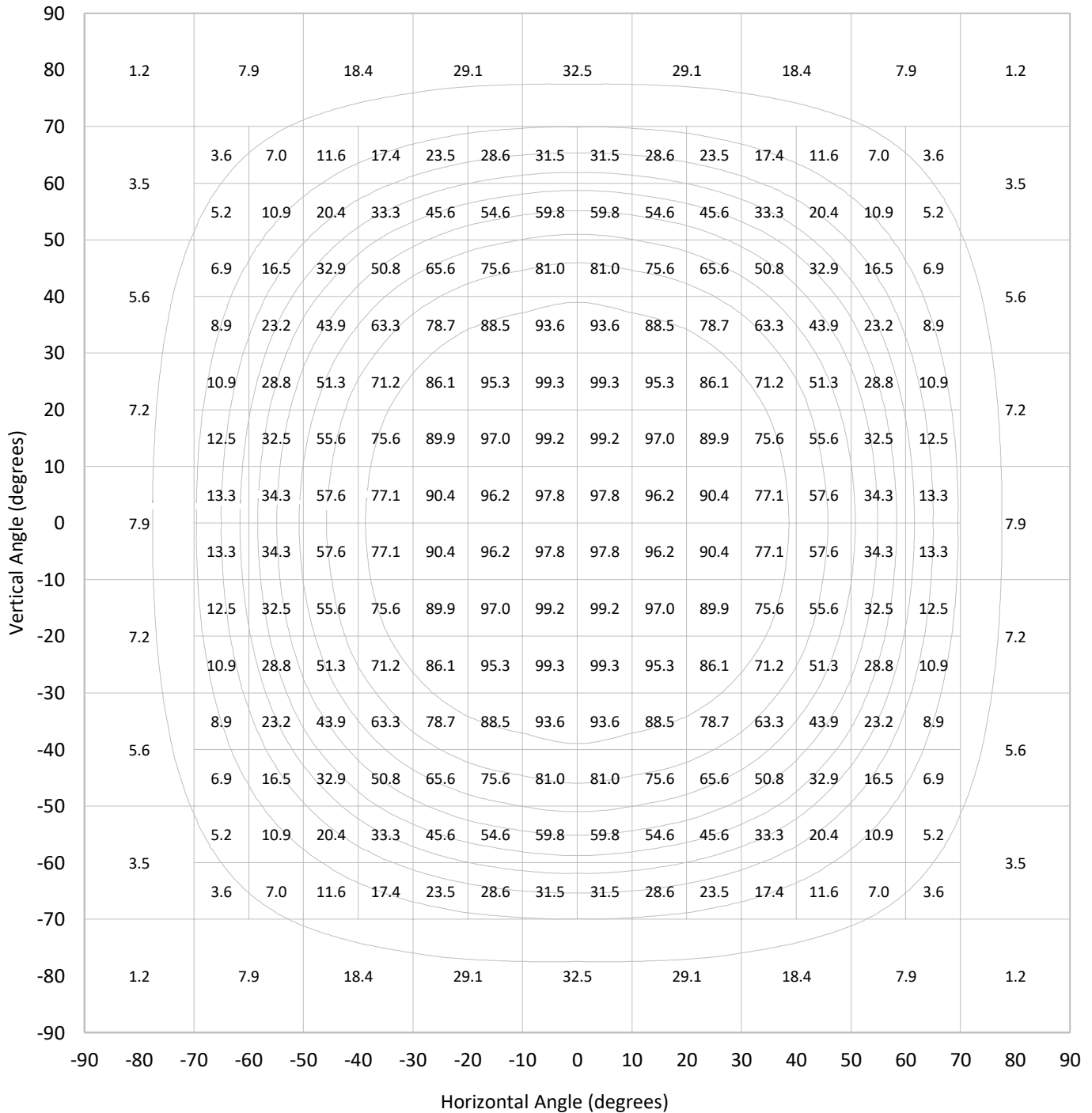
### Iso-Candela Plot





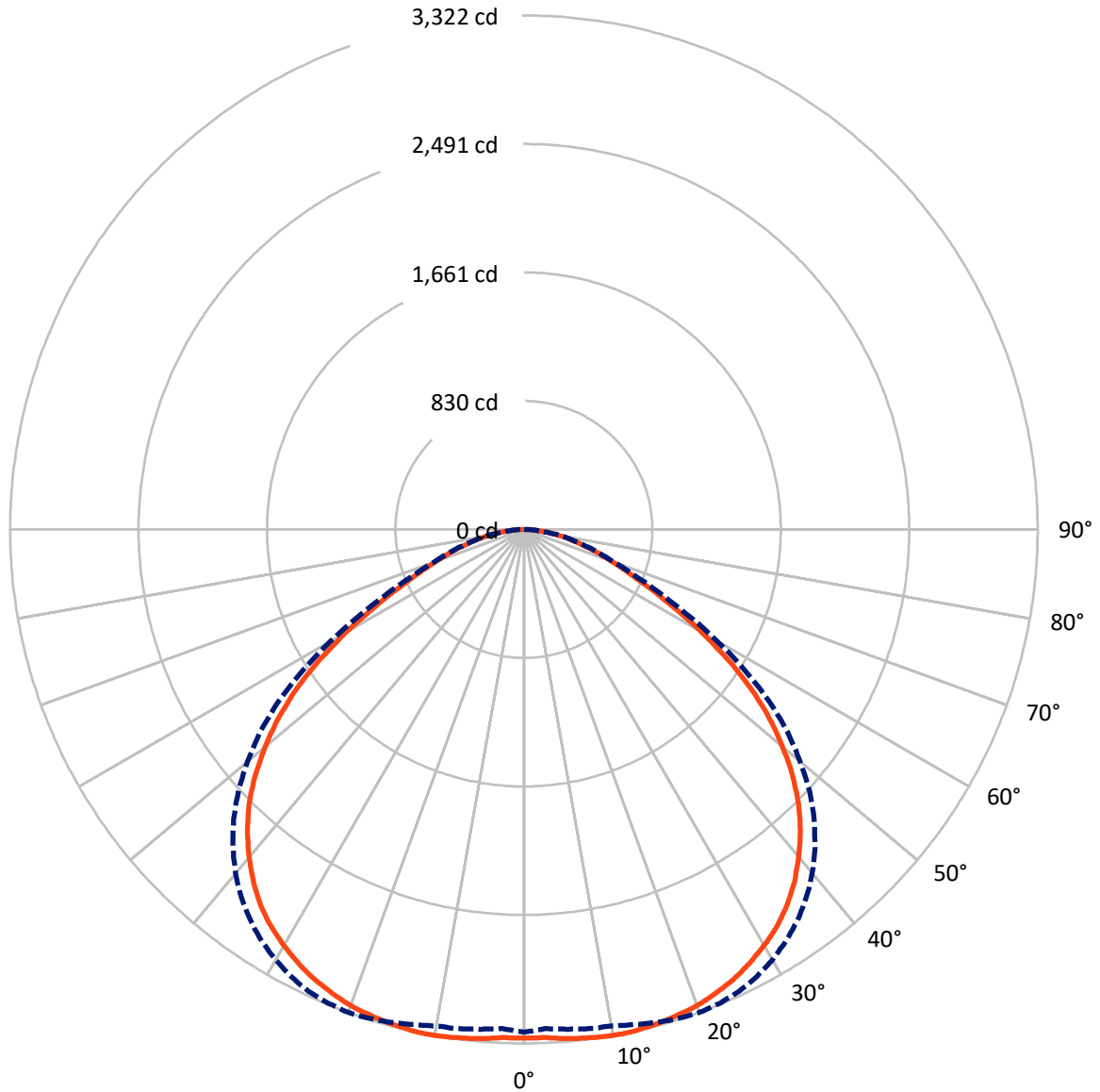
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### Lumen Table



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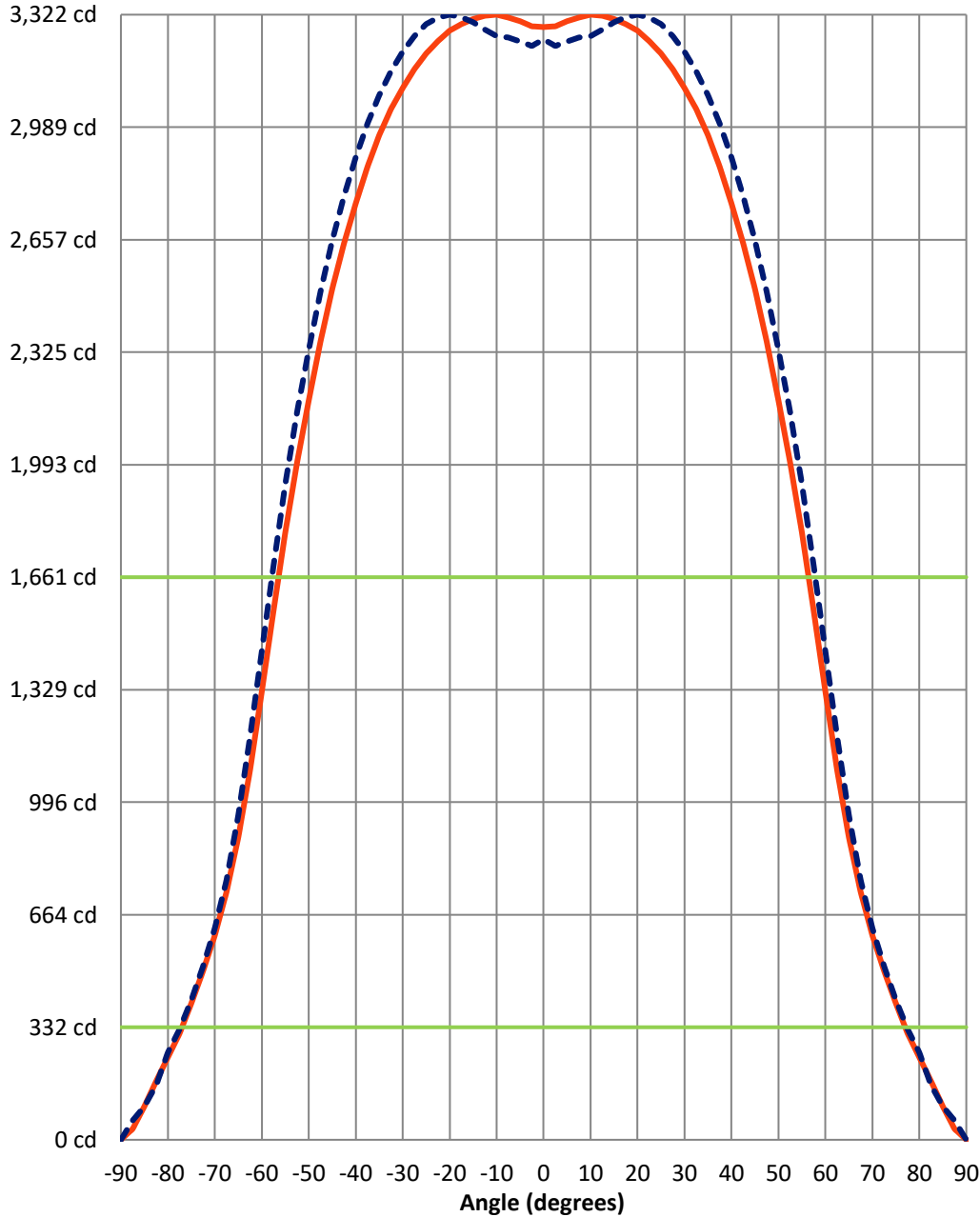
### Luminous Intensity Polar Plot



— 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: 6252.9  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 7496.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 2694  
 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°	26.8	28.9	30.0	31.1	32.2	33.2	34.3	33.2	32.2	32.2	31.1
85°	71.8	74.0	75.1	82.6	90.1	94.4	99.7	98.6	98.6	97.6	96.5
82.5°	143.7	150.1	155.5	163.0	167.3	173.7	178.0	174.8	172.6	168.3	165.1
80°	255.2	257.3	258.4	259.5	254.1	253.0	250.9	247.7	243.4	238.0	232.7
77.5°	324.9	327.0	329.2	327.0	325.9	324.9	321.7	318.4	314.1	309.9	303.4
75°	429.9	429.9	429.9	426.7	424.6	421.4	416.0	410.6	403.1	394.6	384.9
72.5°	541.4	540.4	539.3	532.9	527.5	521.1	513.6	507.1	498.6	488.9	476.0
70°	658.3	660.5	661.5	653.0	646.5	637.9	628.3	616.5	603.6	589.7	571.5
67.5°	819.1	817.0	814.9	803.1	794.5	782.7	768.7	751.6	732.3	710.9	685.1
65°	1018.6	1021.8	1015.4	1003.6	987.5	968.2	946.7	922.1	893.1	861.0	824.5
62.5°	1259.8	1265.2	1257.7	1242.7	1222.3	1196.5	1166.5	1131.1	1091.5	1046.4	1001.4
60°	1534.3	1533.2	1519.3	1498.9	1472.1	1439.9	1406.7	1368.1	1323.1	1270.5	1215.8
57.5°	1786.2	1784.1	1766.9	1746.6	1719.8	1685.5	1650.1	1609.3	1562.2	1506.4	1443.1
55°	2012.5	2010.3	1993.2	1971.7	1943.9	1909.5	1877.4	1838.8	1792.7	1733.7	1666.2
52.5°	2213.0	2214.0	2199.0	2175.4	2145.4	2112.2	2081.1	2042.5	1998.5	1939.6	1874.2
50°	2397.4	2396.3	2380.2	2358.8	2330.9	2298.7	2267.7	2229.1	2182.9	2126.1	2062.9
47.5°	2568.9	2566.8	2548.6	2525.0	2496.0	2468.1	2439.2	2404.9	2356.6	2299.8	2236.6
45°	2712.6	2708.3	2690.1	2667.6	2639.7	2615.0	2589.3	2563.6	2512.1	2459.6	2399.5
42.5°	2835.9	2834.8	2816.6	2794.1	2766.2	2744.8	2721.2	2689.0	2646.1	2597.9	2538.9
40°	2953.8	2945.3	2927.0	2905.6	2879.9	2861.6	2838.0	2805.9	2764.1	2716.9	2660.1
37.5°	3041.8	3042.8	3023.5	2999.9	2977.4	2960.3	2938.8	2908.8	2872.4	2826.3	2769.4
35°	3125.4	3120.0	3103.9	3083.6	3063.2	3043.9	3021.4	2995.7	2965.6	2922.8	2869.1
32.5°	3180.1	3187.6	3168.3	3146.8	3135.0	3120.0	3096.4	3069.6	3042.8	2999.9	2951.7
30°	3240.1	3233.7	3218.7	3200.4	3191.9	3182.2	3161.8	3136.1	3105.0	3066.4	3021.4
27.5°	3281.9	3278.7	3260.5	3243.3	3239.0	3230.5	3214.4	3191.9	3160.8	3123.2	3081.4
25°	3300.2	3302.3	3285.1	3275.5	3275.5	3270.1	3257.3	3238.0	3206.9	3172.6	3131.8
22.5°	3308.7	3306.6	3294.8	3292.7	3298.0	3293.7	3288.4	3271.2	3243.3	3215.5	3181.1
20°	3314.1	3299.1	3288.4	3296.9	3303.4	3302.3	3298.0	3287.3	3274.4	3250.8	3220.8
17.5°	3302.3	3292.7	3279.8	3292.7	3306.6	3307.7	3303.4	3296.9	3293.7	3278.7	3251.9
15°	3273.4	3265.8	3268.0	3280.9	3296.9	3302.3	3305.5	3313.0	3308.7	3296.9	3273.4
12.5°	3254.1	3244.4	3254.1	3266.9	3275.5	3278.7	3304.4	3318.4	3318.4	3307.7	3292.7
10°	3248.7	3229.4	3242.3	3254.1	3258.3	3277.6	3299.1	3314.1	3321.6	3313.0	3293.7
7.5°	3238.0	3225.1	3230.5	3235.8	3260.5	3274.4	3286.2	3302.3	3313.0	3312.0	3294.8
5°	3232.6	3216.5	3218.7	3241.2	3258.3	3268.0	3272.3	3286.2	3302.3	3305.5	3292.7
2.5°	3218.7	3211.2	3227.2	3229.4	3242.3	3249.8	3254.1	3266.9	3287.3	3294.8	3289.4
0°	3211.2	3200.4	3189.7	3198.3	3219.7	3235.8	3242.3	3261.6	3285.1	3292.7	3280.9



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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°	30.0	28.9	27.9	26.8	27.9	27.9	27.9	26.8	27.9	26.8	26.8
85°	93.3	89.0	85.8	81.5	77.2	74.0	69.7	65.4	64.3	63.3	61.1
82.5°	160.8	155.5	150.1	143.7	137.2	129.7	122.2	113.7	111.5	109.4	106.1
80°	226.2	218.7	211.2	203.7	197.3	189.8	181.2	171.5	165.1	159.8	153.3
77.5°	294.8	284.1	273.4	260.5	253.0	245.5	237.0	227.3	217.7	209.1	199.4
75°	373.1	361.3	350.6	337.7	323.8	309.9	295.9	283.1	269.1	256.2	243.4
72.5°	460.0	442.8	425.7	409.6	392.4	375.3	357.0	339.9	322.7	305.6	287.3
70°	551.1	529.7	508.2	486.8	464.3	441.7	420.3	398.8	377.4	354.9	334.5
67.5°	658.3	633.7	605.8	575.8	542.5	513.6	485.7	460.0	434.2	408.5	382.8
65°	792.3	758.0	720.5	679.8	641.2	602.6	561.8	523.2	493.2	463.2	434.2
62.5°	957.5	909.2	856.7	804.1	757.0	706.6	659.4	609.0	561.8	518.9	483.6
60°	1154.7	1089.3	1025.0	957.5	892.1	823.4	763.4	701.2	642.2	589.7	538.2
57.5°	1372.4	1296.3	1219.1	1136.5	1047.5	967.1	885.6	804.1	734.4	664.7	606.9
55°	1593.3	1512.8	1426.0	1332.7	1235.1	1132.2	1021.8	930.6	835.2	753.7	678.7
52.5°	1803.4	1719.8	1629.7	1543.9	1427.1	1309.1	1188.0	1067.9	956.4	852.4	761.2
50°	1991.0	1909.5	1822.7	1723.0	1614.7	1489.3	1354.2	1219.1	1087.2	965.0	851.3
47.5°	2162.6	2083.2	1996.4	1896.7	1798.0	1658.7	1522.5	1373.5	1226.6	1086.1	953.2
45°	2323.4	2243.0	2152.9	2057.5	1943.9	1819.5	1679.0	1528.9	1371.3	1213.7	1060.4
42.5°	2469.2	2388.8	2297.7	2199.0	2086.5	1963.2	1827.0	1675.8	1517.1	1345.6	1177.2
40°	2596.8	2518.5	2430.6	2327.7	2222.6	2092.9	1958.9	1815.2	1651.2	1478.5	1293.0
37.5°	2708.3	2635.4	2548.6	2446.7	2335.2	2219.4	2081.1	1937.4	1789.5	1601.8	1412.1
35°	2807.0	2739.4	2650.4	2553.9	2444.6	2322.3	2192.6	2052.1	1892.4	1716.6	1532.1
32.5°	2892.7	2824.1	2742.6	2646.1	2540.0	2425.3	2292.3	2150.8	1999.6	1820.6	1620.1
30°	2965.6	2899.2	2822.0	2730.8	2629.0	2515.3	2385.6	2243.0	2088.6	1910.6	1712.3
27.5°	3028.9	2965.6	2890.6	2805.9	2708.3	2599.0	2468.1	2324.5	2166.9	1995.3	1797.0
25°	3083.6	3022.5	2952.8	2872.4	2775.9	2668.6	2545.3	2395.2	2237.6	2065.0	1868.8
22.5°	3132.9	3073.9	3004.2	2926.0	2838.0	2730.8	2606.5	2457.4	2297.7	2127.2	1934.2
20°	3176.9	3122.2	3053.6	2973.1	2885.2	2776.9	2653.6	2512.1	2351.3	2184.0	1993.2
17.5°	3212.2	3164.0	3095.4	3010.7	2922.8	2817.7	2697.6	2567.9	2397.4	2232.3	2042.5
15°	3236.9	3189.7	3127.5	3041.8	2956.0	2852.0	2731.9	2597.9	2439.2	2270.9	2083.2
12.5°	3254.1	3203.7	3145.8	3066.4	2980.6	2877.7	2760.9	2629.0	2474.6	2305.2	2118.6
10°	3258.3	3212.2	3154.3	3083.6	2999.9	2900.2	2785.5	2654.7	2503.5	2332.0	2147.6
7.5°	3260.5	3216.5	3164.0	3096.4	3013.9	2917.4	2803.7	2675.1	2525.0	2354.5	2169.0
5°	3259.4	3217.6	3170.4	3105.0	3022.5	2927.0	2815.5	2689.0	2540.0	2369.5	2185.1
2.5°	3256.2	3218.7	3174.7	3111.5	3032.1	2937.8	2827.3	2705.1	2556.1	2382.4	2198.0
0°	3264.8	3232.6	3176.9	3109.3	3034.3	2937.8	2826.3	2707.2	2558.2	2381.3	2196.9





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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°	26.8	25.7	25.7	24.7	23.6	22.5	20.4	19.3	17.2	13.9	10.7
85°	57.9	54.7	51.5	49.3	47.2	45.0	41.8	38.6	34.3	27.9	21.4
82.5°	101.9	95.4	89.0	81.5	75.1	68.6	63.3	57.9	51.5	41.8	32.2
80°	145.8	136.2	126.5	115.8	106.1	95.4	85.8	77.2	68.6	55.8	42.9
77.5°	189.8	176.9	163.0	150.1	136.2	122.2	108.3	96.5	83.6	68.6	53.6
75°	230.5	215.5	202.6	184.4	167.3	149.0	130.8	114.7	98.6	80.4	64.3
72.5°	271.3	252.0	233.7	216.6	197.3	174.8	154.4	134.0	113.7	92.2	72.9
70°	312.0	288.4	265.9	245.5	224.1	201.6	176.9	153.3	128.7	102.9	80.4
67.5°	353.8	327.0	301.3	275.5	250.9	225.2	199.4	172.6	143.7	113.7	89.0
65°	399.9	366.7	335.6	306.6	277.7	249.8	220.9	191.9	159.8	125.4	96.5
62.5°	446.0	409.6	373.1	336.7	304.5	273.4	242.3	210.1	174.8	138.3	104.0
60°	495.3	453.5	411.7	371.0	331.3	297.0	262.7	228.4	190.8	150.1	111.5
57.5°	550.0	499.6	452.5	406.4	361.3	320.6	283.1	246.6	204.8	161.9	120.1
55°	612.2	550.0	494.3	442.8	393.5	344.2	303.4	265.9	220.9	173.7	129.7
52.5°	677.6	605.8	538.2	480.3	427.8	372.0	322.7	280.9	237.0	185.5	138.3
50°	753.7	662.6	587.6	516.8	457.8	399.9	343.1	298.1	253.0	199.4	146.9
47.5°	832.0	731.2	636.9	559.7	490.0	426.7	366.7	313.1	268.0	212.3	155.5
45°	923.1	796.6	692.6	601.5	521.1	454.6	390.3	329.2	280.9	225.2	164.0
42.5°	1011.1	873.8	750.5	647.6	556.5	481.4	411.7	346.3	293.8	238.0	171.5
40°	1115.1	951.0	806.3	691.6	591.8	507.1	433.2	364.5	305.6	249.8	179.1
37.5°	1214.8	1029.3	873.8	739.8	626.2	532.9	454.6	381.7	316.3	261.6	188.7
35°	1313.4	1116.1	938.2	784.8	661.5	561.8	476.0	397.8	327.0	271.3	197.3
32.5°	1407.8	1197.6	1003.6	835.2	700.1	588.6	495.3	412.8	337.7	279.8	205.9
30°	1495.7	1274.8	1067.9	886.7	735.5	613.3	513.6	427.8	350.6	287.3	214.4
27.5°	1576.1	1349.9	1132.2	934.9	768.7	635.8	532.9	441.7	361.3	294.8	221.9
25°	1649.0	1417.4	1191.2	978.9	798.8	660.5	551.1	455.7	371.0	301.3	228.4
22.5°	1717.6	1479.6	1244.8	1022.9	835.2	685.1	568.3	468.5	380.6	307.7	234.8
20°	1777.7	1536.4	1296.3	1066.8	867.4	707.6	583.3	480.3	389.2	312.0	241.2
17.5°	1825.9	1586.8	1342.4	1105.4	895.3	726.9	596.1	491.1	396.7	317.4	245.5
15°	1868.8	1629.7	1381.0	1138.7	919.9	743.0	607.9	499.6	403.1	320.6	250.9
12.5°	1905.3	1666.2	1414.2	1167.6	941.4	757.0	617.6	506.1	408.5	323.8	254.1
10°	1935.3	1695.1	1442.1	1190.1	958.5	767.7	625.1	512.5	412.8	327.0	257.3
7.5°	1957.8	1716.6	1462.4	1209.4	972.5	775.2	631.5	516.8	417.1	329.2	262.7
5°	1974.9	1734.8	1478.5	1222.3	983.2	785.9	639.0	522.1	421.4	331.3	262.7
2.5°	1987.8	1749.8	1491.4	1233.0	991.8	783.8	639.0	521.1	421.4	331.3	261.6
0°	1985.7	1750.9	1490.3	1233.0	991.8	781.6	639.0	520.0	421.4	331.3	261.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.5	5.4	2.1	0.0
85°	16.1	10.7	5.4	0.0
82.5°	23.6	15.0	7.5	0.0
80°	31.1	20.4	9.6	0.0
77.5°	39.7	25.7	12.9	0.0
75°	47.2	30.0	15.0	0.0
72.5°	54.7	35.4	17.2	0.0
70°	61.1	39.7	19.3	0.0
67.5°	67.5	45.0	22.5	0.0
65°	72.9	49.3	24.7	0.0
62.5°	77.2	54.7	26.8	0.0
60°	82.6	59.0	28.9	0.0
57.5°	86.8	62.2	31.1	0.0
55°	91.1	64.3	33.2	0.0
52.5°	95.4	67.5	35.4	0.0
50°	99.7	70.8	37.5	0.0
47.5°	104.0	72.9	38.6	0.0
45°	110.4	76.1	40.7	0.0
42.5°	115.8	78.3	42.9	0.0
40°	121.2	80.4	44.0	0.0
37.5°	126.5	82.6	46.1	0.0
35°	131.9	84.7	47.2	0.0
32.5°	136.2	86.8	48.2	0.0
30°	140.5	89.0	49.3	0.0
27.5°	144.7	90.1	50.4	0.0
25°	148.0	92.2	51.5	0.0
22.5°	151.2	93.3	52.5	0.0
20°	153.3	94.4	53.6	0.0
17.5°	156.5	95.4	54.7	0.0
15°	157.6	96.5	56.8	0.0
12.5°	159.8	97.6	56.8	0.0
10°	160.8	98.6	56.8	0.0
7.5°	163.0	98.6	56.8	0.0
5°	161.9	98.6	56.8	0.0
2.5°	161.9	98.6	56.8	0.0
0°	160.8	98.6	56.8	0.0

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