

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: P628267

Luminaire Tested: **IFLD-S-SA2B-740-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628267  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-740-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11750.8 lumens	Max Intensity:	3830.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	142.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

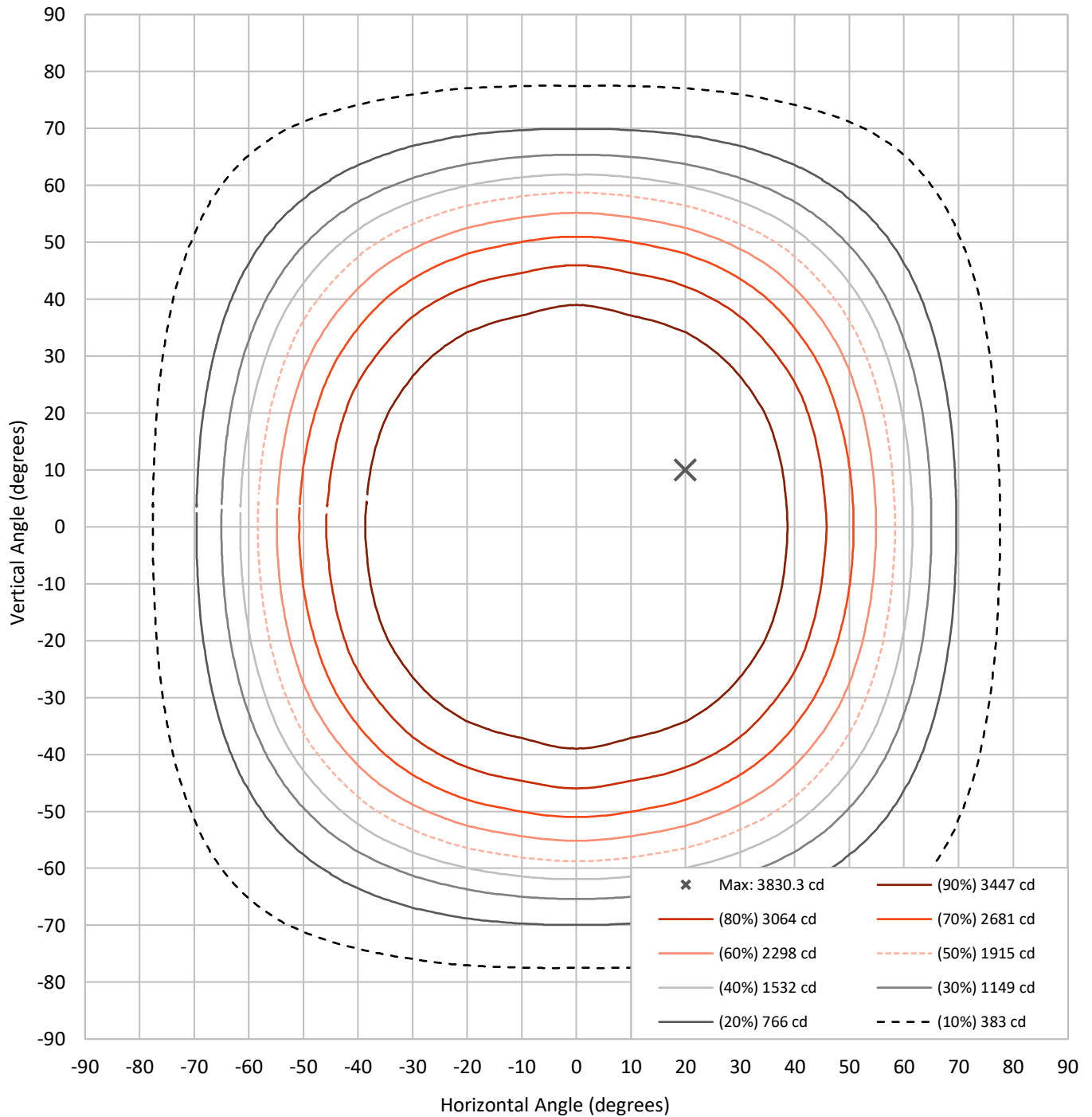
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7210.6 lumens	Field Lumens:	8644.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 82.4  
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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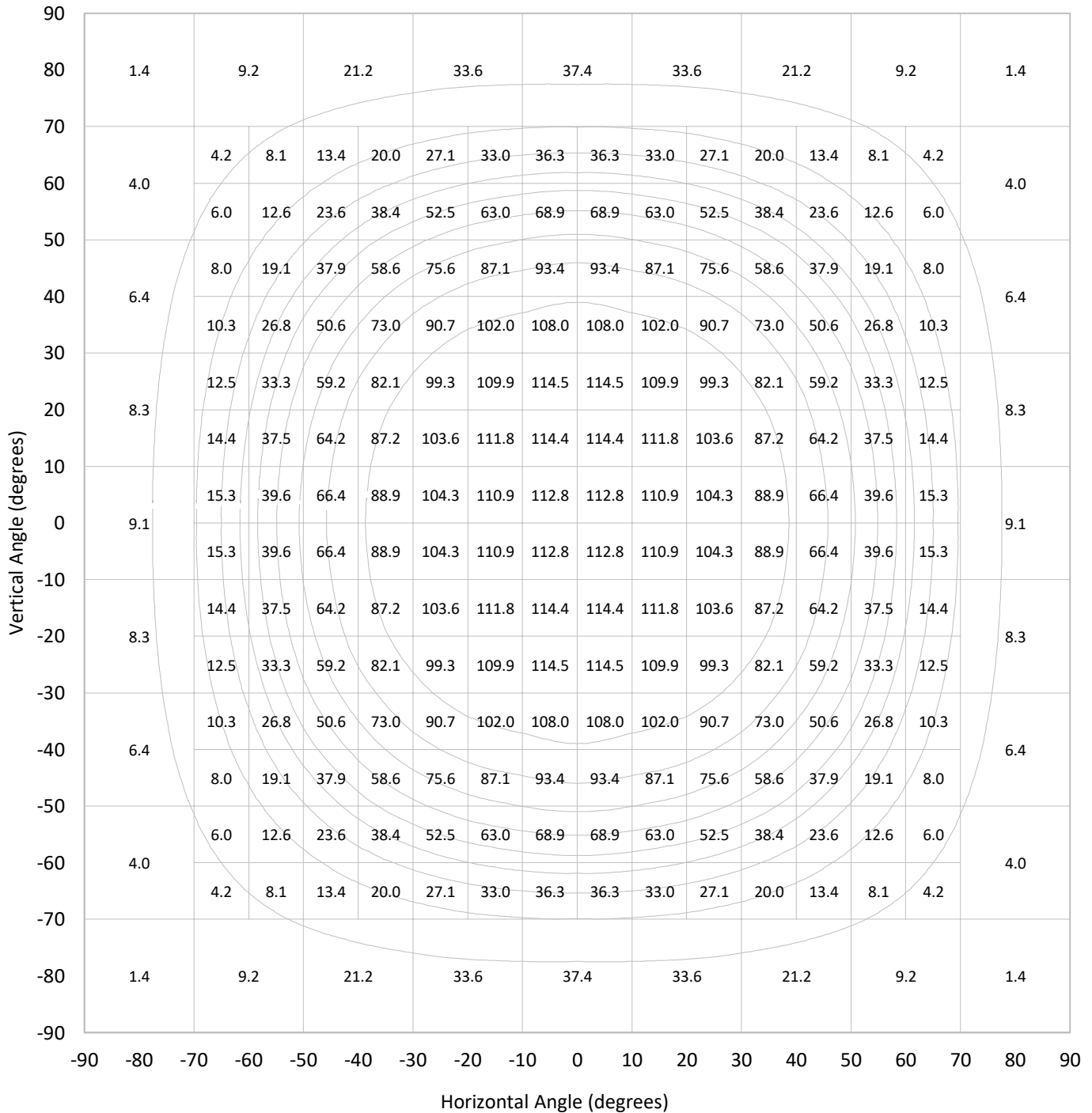
### Iso-Candela Plot





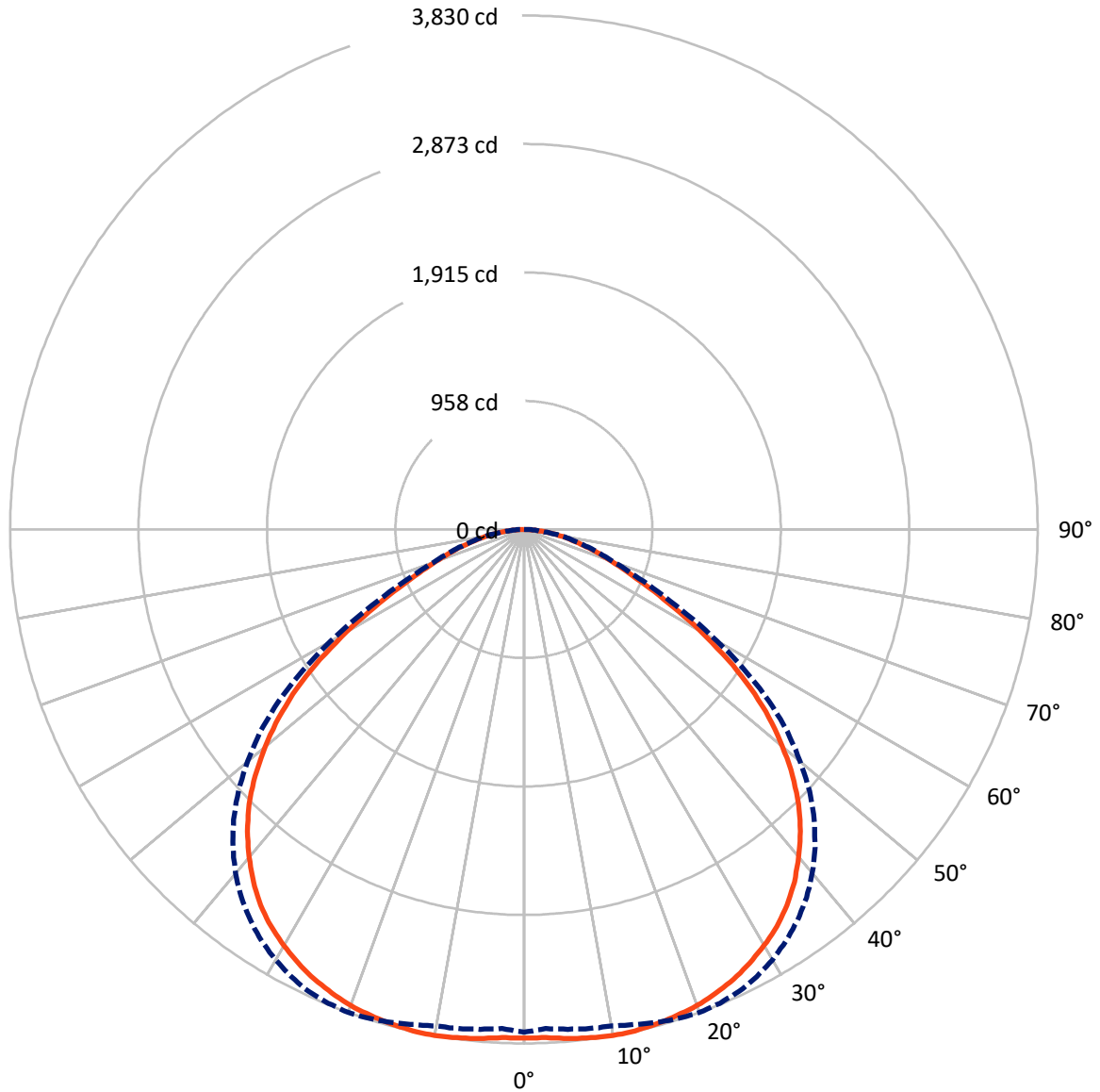
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### Lumen Table



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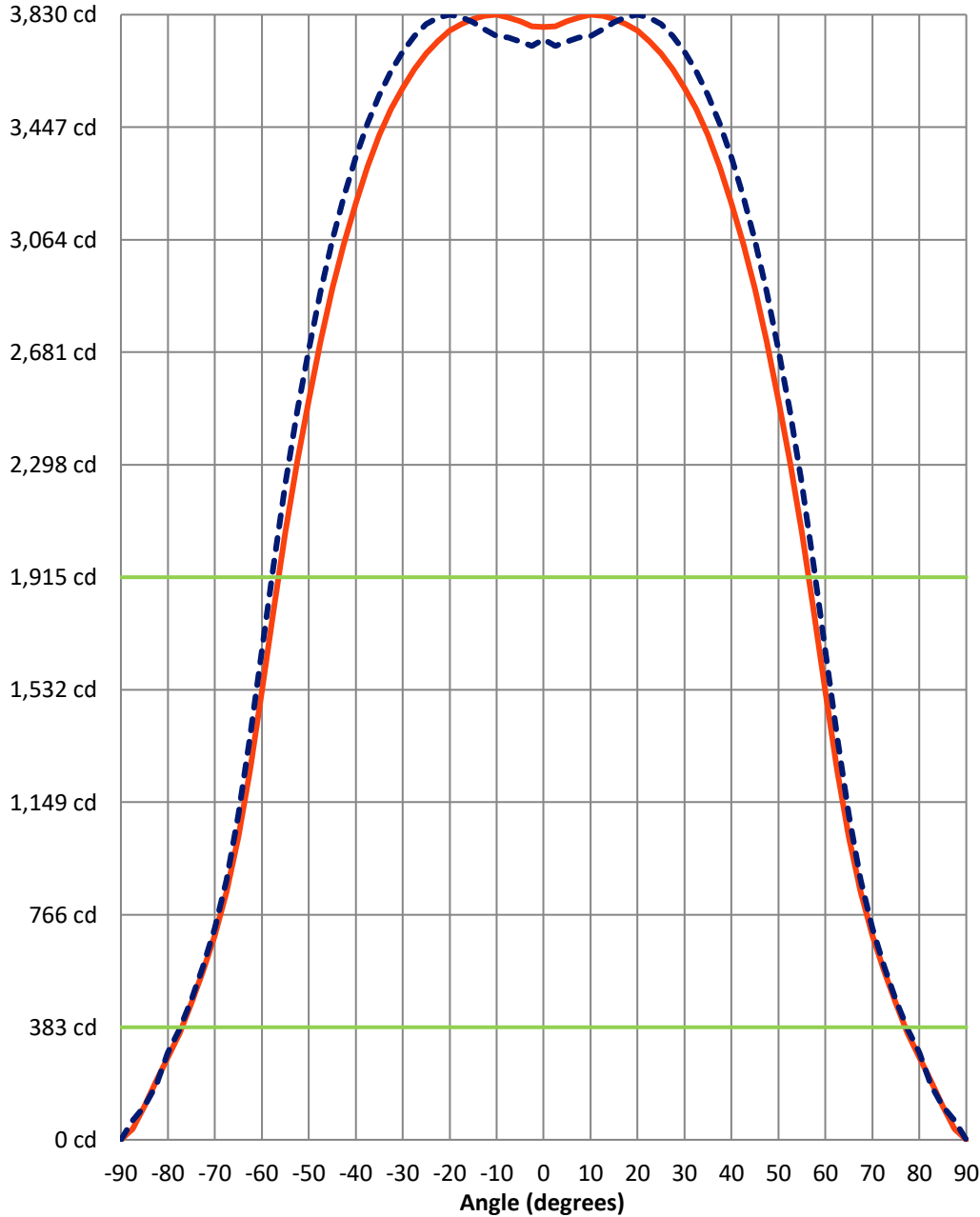
### Luminous Intensity Polar Plot



— 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: 7210.6  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 8644.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 3106.6  
 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°	30.9	33.4	34.6	35.9	37.1	38.3	39.6	38.3	37.1	37.1	35.9
85°	82.8	85.3	86.5	95.2	103.9	108.8	115.0	113.7	113.7	112.5	111.3
82.5°	165.7	173.1	179.3	187.9	192.9	200.3	205.2	201.5	199.1	194.1	190.4
80°	294.3	296.7	298.0	299.2	293.0	291.8	289.3	285.6	280.7	274.5	268.3
77.5°	374.6	377.1	379.6	377.1	375.9	374.6	370.9	367.2	362.3	357.3	349.9
75°	495.8	495.8	495.8	492.1	489.6	485.9	479.7	473.5	464.9	455.0	443.9
72.5°	624.4	623.1	621.9	614.5	608.3	600.9	592.2	584.8	574.9	563.8	549.0
70°	759.1	761.6	762.8	753.0	745.5	735.6	724.5	710.9	696.1	680.0	659.0
67.5°	944.6	942.1	939.6	926.0	916.2	902.6	886.5	866.7	844.4	819.7	790.0
65°	1174.6	1178.3	1170.9	1157.3	1138.7	1116.4	1091.7	1063.3	1029.9	992.8	950.8
62.5°	1452.7	1458.9	1450.3	1433.0	1409.5	1379.8	1345.2	1304.4	1258.6	1206.7	1154.8
60°	1769.3	1768.0	1751.9	1728.5	1697.5	1660.5	1622.1	1577.6	1525.7	1465.1	1402.1
57.5°	2059.8	2057.3	2037.6	2014.1	1983.2	1943.6	1902.8	1855.8	1801.4	1737.1	1664.2
55°	2320.7	2318.2	2298.4	2273.7	2241.6	2202.0	2164.9	2120.4	2067.2	1999.2	1921.3
52.5°	2551.9	2553.1	2535.8	2508.6	2474.0	2435.7	2399.8	2355.3	2304.6	2236.6	2161.2
50°	2764.5	2763.3	2744.8	2720.0	2687.9	2650.8	2614.9	2570.4	2517.3	2451.7	2378.8
47.5°	2962.4	2959.9	2938.9	2911.7	2878.3	2846.1	2812.8	2773.2	2717.6	2652.0	2579.1
45°	3128.0	3123.1	3102.1	3076.1	3044.0	3015.5	2985.9	2956.2	2896.8	2836.3	2767.0
42.5°	3270.2	3269.0	3248.0	3222.0	3189.9	3165.1	3137.9	3100.8	3051.4	2995.7	2927.7
40°	3406.2	3396.3	3375.3	3350.6	3320.9	3299.9	3272.7	3235.6	3187.4	3133.0	3067.5
37.5°	3507.6	3508.8	3486.6	3459.4	3433.4	3413.6	3388.9	3354.3	3312.3	3259.1	3193.6
35°	3604.0	3597.9	3579.3	3555.8	3532.3	3510.1	3484.1	3454.4	3419.8	3370.4	3308.5
32.5°	3667.1	3675.8	3653.5	3628.8	3615.2	3597.9	3570.7	3539.8	3508.8	3459.4	3403.7
30°	3736.3	3728.9	3711.6	3690.6	3680.7	3669.6	3646.1	3616.4	3580.6	3536.0	3484.1
27.5°	3784.6	3780.8	3759.8	3740.0	3735.1	3725.2	3706.7	3680.7	3644.8	3601.6	3553.4
25°	3805.6	3808.0	3788.3	3777.1	3777.1	3771.0	3756.1	3733.9	3698.0	3658.4	3611.5
22.5°	3815.5	3813.0	3799.4	3796.9	3803.1	3798.2	3792.0	3772.2	3740.0	3707.9	3668.3
20°	3821.6	3804.3	3792.0	3801.9	3809.3	3808.0	3803.1	3790.7	3775.9	3748.7	3714.1
17.5°	3808.0	3796.9	3782.1	3796.9	3813.0	3814.2	3809.3	3801.9	3798.2	3780.8	3749.9
15°	3774.7	3766.0	3768.5	3783.3	3801.9	3808.0	3811.8	3820.4	3815.5	3801.9	3774.7
12.5°	3752.4	3741.3	3752.4	3767.2	3777.1	3780.8	3810.5	3826.6	3826.6	3814.2	3796.9
10°	3746.2	3724.0	3738.8	3752.4	3757.4	3779.6	3804.3	3821.6	3830.3	3820.4	3798.2
7.5°	3733.9	3719.0	3725.2	3731.4	3759.8	3775.9	3789.5	3808.0	3820.4	3819.2	3799.4
5°	3727.7	3709.1	3711.6	3737.6	3757.4	3768.5	3773.4	3789.5	3808.0	3811.8	3796.9
2.5°	3711.6	3703.0	3721.5	3724.0	3738.8	3747.5	3752.4	3767.2	3790.7	3799.4	3793.2
0°	3703.0	3690.6	3678.2	3688.1	3712.8	3731.4	3738.8	3761.1	3788.3	3796.9	3783.3



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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°	34.6	33.4	32.1	30.9	32.1	32.1	32.1	30.9	32.1	30.9	30.9
85°	107.6	102.6	98.9	94.0	89.0	85.3	80.4	75.4	74.2	72.9	70.5
82.5°	185.5	179.3	173.1	165.7	158.3	149.6	140.9	131.1	128.6	126.1	122.4
80°	260.9	252.2	243.6	234.9	227.5	218.8	208.9	197.8	190.4	184.2	176.8
77.5°	340.0	327.6	315.3	300.4	291.8	283.1	273.2	262.1	251.0	241.1	230.0
75°	430.3	416.7	404.3	389.5	373.4	357.3	341.2	326.4	310.3	295.5	280.7
72.5°	530.4	510.6	490.8	472.3	452.5	432.7	411.7	391.9	372.1	352.4	331.3
70°	635.5	610.8	586.0	561.3	535.4	509.4	484.7	459.9	435.2	409.2	385.8
67.5°	759.1	730.7	698.6	663.9	625.6	592.2	560.1	530.4	500.7	471.1	441.4
65°	913.7	874.1	830.8	783.9	739.4	694.8	647.9	603.4	568.7	534.1	500.7
62.5°	1104.1	1048.4	987.9	927.3	872.9	814.8	760.4	702.3	647.9	598.4	557.6
60°	1331.6	1256.2	1182.0	1104.1	1028.7	949.5	880.3	808.6	740.6	680.0	620.7
57.5°	1582.6	1494.8	1405.8	1310.6	1207.9	1115.2	1021.2	927.3	846.9	766.6	699.8
55°	1837.3	1744.5	1644.4	1536.8	1424.3	1305.6	1178.3	1073.2	963.1	869.2	782.6
52.5°	2079.6	1983.2	1879.3	1780.4	1645.6	1509.6	1369.9	1231.4	1102.8	982.9	877.8
50°	2296.0	2202.0	2101.8	1986.9	1862.0	1717.3	1561.5	1405.8	1253.7	1112.7	981.7
47.5°	2493.8	2402.3	2302.1	2187.2	2073.4	1912.7	1755.7	1583.8	1414.4	1252.5	1099.1
45°	2679.2	2586.5	2482.6	2372.6	2241.6	2098.1	1936.2	1763.1	1581.3	1399.6	1222.8
42.5°	2847.4	2754.7	2649.6	2535.8	2406.0	2263.8	2106.8	1932.5	1749.5	1551.7	1357.5
40°	2994.5	2904.3	2802.9	2684.2	2563.0	2413.4	2258.9	2093.2	1904.0	1705.0	1491.1
37.5°	3123.1	3039.0	2938.9	2821.4	2692.8	2559.3	2399.8	2234.1	2063.5	1847.1	1628.3
35°	3236.8	3158.9	3056.3	2945.1	2818.9	2678.0	2528.4	2366.4	2182.2	1979.4	1766.8
32.5°	3335.7	3256.6	3162.7	3051.4	2929.0	2796.7	2643.4	2480.2	2305.8	2099.4	1868.2
30°	3419.8	3343.2	3254.1	3149.1	3031.6	2900.5	2750.9	2586.5	2408.5	2203.2	1974.5
27.5°	3492.8	3419.8	3333.3	3235.6	3123.1	2997.0	2846.1	2680.5	2498.7	2300.9	2072.2
25°	3555.8	3485.4	3405.0	3312.3	3201.0	3077.3	2935.2	2762.1	2580.3	2381.3	2155.0
22.5°	3612.7	3544.7	3464.3	3374.1	3272.7	3149.1	3005.6	2833.8	2649.6	2453.0	2230.4
20°	3663.4	3600.3	3521.2	3428.5	3327.1	3202.2	3060.0	2896.8	2711.4	2518.5	2298.4
17.5°	3704.2	3648.6	3569.4	3471.8	3370.4	3249.2	3110.7	2961.1	2764.5	2574.1	2355.3
15°	3732.6	3678.2	3606.5	3507.6	3408.7	3288.8	3150.3	2995.7	2812.8	2618.6	2402.3
12.5°	3752.4	3694.3	3627.5	3536.0	3437.1	3318.4	3183.7	3031.6	2853.6	2658.2	2443.1
10°	3757.4	3704.2	3637.4	3555.8	3459.4	3344.4	3212.1	3061.3	2886.9	2689.1	2476.5
7.5°	3759.8	3709.1	3648.6	3570.7	3475.5	3364.2	3233.1	3084.8	2911.7	2715.1	2501.2
5°	3758.6	3710.4	3656.0	3580.6	3485.4	3375.3	3246.7	3100.8	2929.0	2732.4	2519.7
2.5°	3754.9	3711.6	3660.9	3588.0	3496.5	3387.7	3260.3	3119.4	2947.5	2747.2	2534.6
0°	3764.8	3727.7	3663.4	3585.5	3499.0	3387.7	3259.1	3121.9	2950.0	2746.0	2533.3





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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°	30.9	29.7	29.7	28.4	27.2	26.0	23.5	22.3	19.8	16.1	12.4
85°	66.8	63.1	59.3	56.9	54.4	51.9	48.2	44.5	39.6	32.1	24.7
82.5°	117.5	110.0	102.6	94.0	86.5	79.1	72.9	66.8	59.3	48.2	37.1
80°	168.1	157.0	145.9	133.5	122.4	110.0	98.9	89.0	79.1	64.3	49.5
77.5°	218.8	204.0	187.9	173.1	157.0	140.9	124.9	111.3	96.4	79.1	61.8
75°	265.8	248.5	233.7	212.7	192.9	171.9	150.8	132.3	113.7	92.7	74.2
72.5°	312.8	290.5	269.5	249.7	227.5	201.5	178.0	154.5	131.1	106.3	84.1
70°	359.8	332.6	306.6	283.1	258.4	232.4	204.0	176.8	148.4	118.7	92.7
67.5°	408.0	377.1	347.4	317.7	289.3	259.6	230.0	199.1	165.7	131.1	102.6
65°	461.2	422.8	387.0	353.6	320.2	288.1	254.7	221.3	184.2	144.7	111.3
62.5°	514.3	472.3	430.3	388.2	351.1	315.3	279.4	242.3	201.5	159.5	119.9
60°	571.2	523.0	474.8	427.8	382.0	342.5	302.9	263.3	220.1	173.1	128.6
57.5°	634.3	576.2	521.8	468.6	416.7	369.7	326.4	284.4	236.1	186.7	138.5
55°	706.0	634.3	570.0	510.6	453.8	396.9	349.9	306.6	254.7	200.3	149.6
52.5°	781.4	698.6	620.7	553.9	493.3	429.0	372.1	323.9	273.2	213.9	159.5
50°	869.2	764.1	677.5	595.9	527.9	461.2	395.6	343.7	291.8	230.0	169.4
47.5°	959.4	843.2	734.4	645.4	565.0	492.1	422.8	361.0	309.1	244.8	179.3
45°	1064.5	918.6	798.7	693.6	600.9	524.2	450.0	379.6	323.9	259.6	189.2
42.5°	1165.9	1007.6	865.5	746.8	641.7	555.1	474.8	399.4	338.8	274.5	197.8
40°	1285.8	1096.7	929.8	797.5	682.5	584.8	499.5	420.4	352.4	288.1	206.5
37.5°	1400.8	1186.9	1007.6	853.1	722.0	614.5	524.2	440.2	364.7	301.7	217.6
35°	1514.6	1287.1	1081.8	905.0	762.8	647.9	549.0	458.7	377.1	312.8	227.5
32.5°	1623.4	1381.0	1157.3	963.1	807.4	678.8	571.2	476.0	389.5	322.7	237.4
30°	1724.7	1470.1	1231.4	1022.5	848.2	707.2	592.2	493.3	404.3	331.3	247.3
27.5°	1817.5	1556.6	1305.6	1078.1	886.5	733.2	614.5	509.4	416.7	340.0	255.9
25°	1901.5	1634.5	1373.6	1128.8	921.1	761.6	635.5	525.5	427.8	347.4	263.3
22.5°	1980.7	1706.2	1435.4	1179.5	963.1	790.0	655.3	540.3	438.9	354.8	270.8
20°	2049.9	1771.7	1494.8	1230.2	1000.2	816.0	672.6	553.9	448.8	359.8	278.2
17.5°	2105.6	1829.8	1547.9	1274.7	1032.4	838.3	687.4	566.3	457.5	366.0	283.1
15°	2155.0	1879.3	1592.5	1313.0	1060.8	856.8	701.0	576.2	464.9	369.7	289.3
12.5°	2197.0	1921.3	1630.8	1346.4	1085.5	872.9	712.2	583.6	471.1	373.4	293.0
10°	2231.7	1954.7	1662.9	1372.4	1105.3	885.2	720.8	591.0	476.0	377.1	296.7
7.5°	2257.6	1979.4	1686.4	1394.6	1121.4	893.9	728.2	595.9	481.0	379.6	302.9
5°	2277.4	2000.5	1705.0	1409.5	1133.8	906.3	736.9	602.1	485.9	382.0	302.9
2.5°	2292.2	2017.8	1719.8	1421.8	1143.6	903.8	736.9	600.9	485.9	382.0	301.7
0°	2289.8	2019.0	1718.6	1421.8	1143.6	901.3	736.9	599.6	485.9	382.0	301.7



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.7	6.2	2.5	0.0
85°	18.5	12.4	6.2	0.0
82.5°	27.2	17.3	8.7	0.0
80°	35.9	23.5	11.1	0.0
77.5°	45.7	29.7	14.8	0.0
75°	54.4	34.6	17.3	0.0
72.5°	63.1	40.8	19.8	0.0
70°	70.5	45.7	22.3	0.0
67.5°	77.9	51.9	26.0	0.0
65°	84.1	56.9	28.4	0.0
62.5°	89.0	63.1	30.9	0.0
60°	95.2	68.0	33.4	0.0
57.5°	100.1	71.7	35.9	0.0
55°	105.1	74.2	38.3	0.0
52.5°	110.0	77.9	40.8	0.0
50°	115.0	81.6	43.3	0.0
47.5°	119.9	84.1	44.5	0.0
45°	127.3	87.8	47.0	0.0
42.5°	133.5	90.3	49.5	0.0
40°	139.7	92.7	50.7	0.0
37.5°	145.9	95.2	53.2	0.0
35°	152.1	97.7	54.4	0.0
32.5°	157.0	100.1	55.6	0.0
30°	162.0	102.6	56.9	0.0
27.5°	166.9	103.9	58.1	0.0
25°	170.6	106.3	59.3	0.0
22.5°	174.3	107.6	60.6	0.0
20°	176.8	108.8	61.8	0.0
17.5°	180.5	110.0	63.1	0.0
15°	181.7	111.3	65.5	0.0
12.5°	184.2	112.5	65.5	0.0
10°	185.5	113.7	65.5	0.0
7.5°	187.9	113.7	65.5	0.0
5°	186.7	113.7	65.5	0.0
2.5°	186.7	113.7	65.5	0.0
0°	185.5	113.7	65.5	0.0

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