

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: P628427

Luminaire Tested: **IFLD-M-SA4B-927-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628427  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-927-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

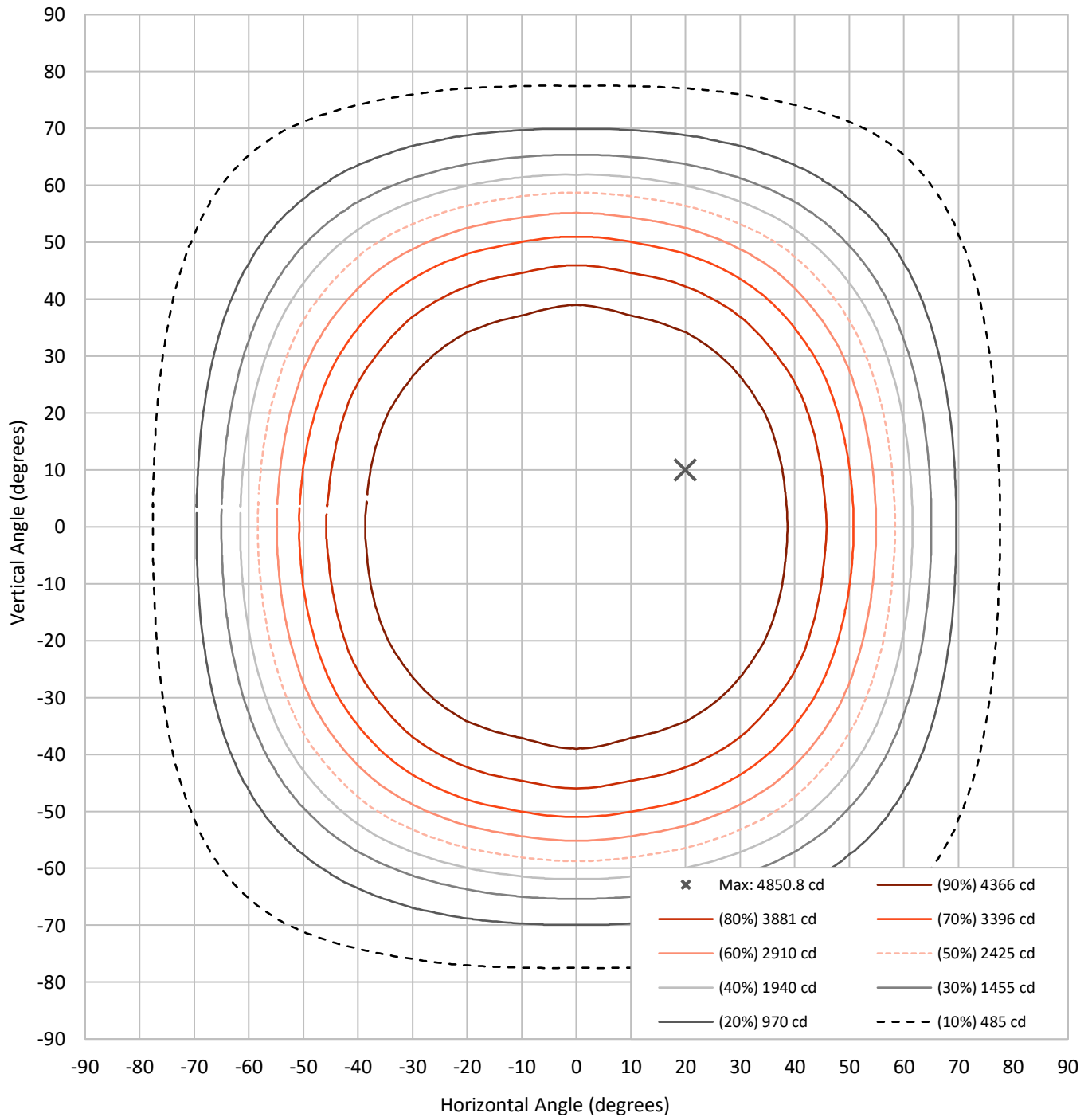
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14881.5 lumens	Max Intensity:	4850.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	89.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	9131.6 lumens	Field Lumens:	10947.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 166.1  
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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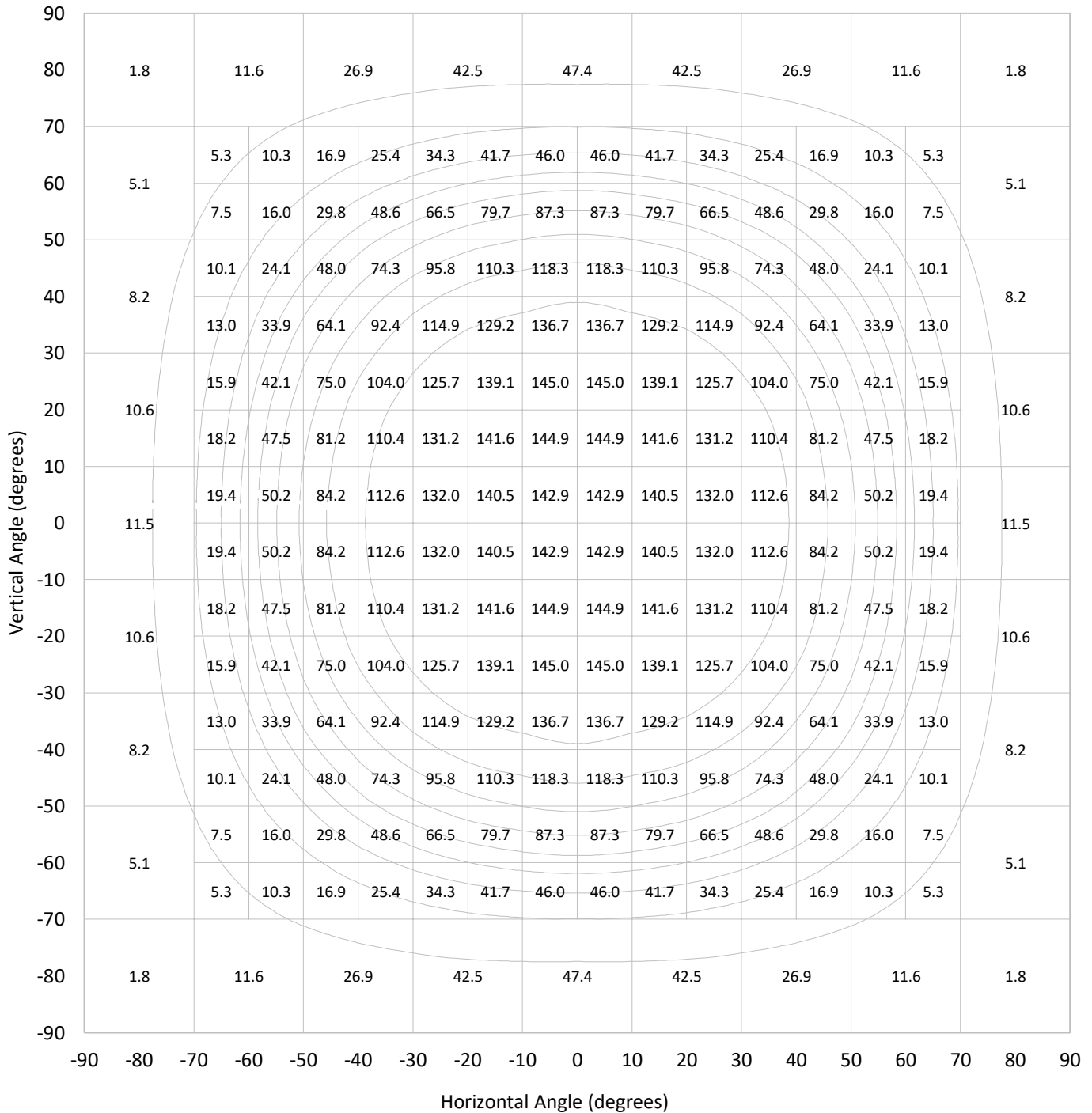
### Iso-Candela Plot





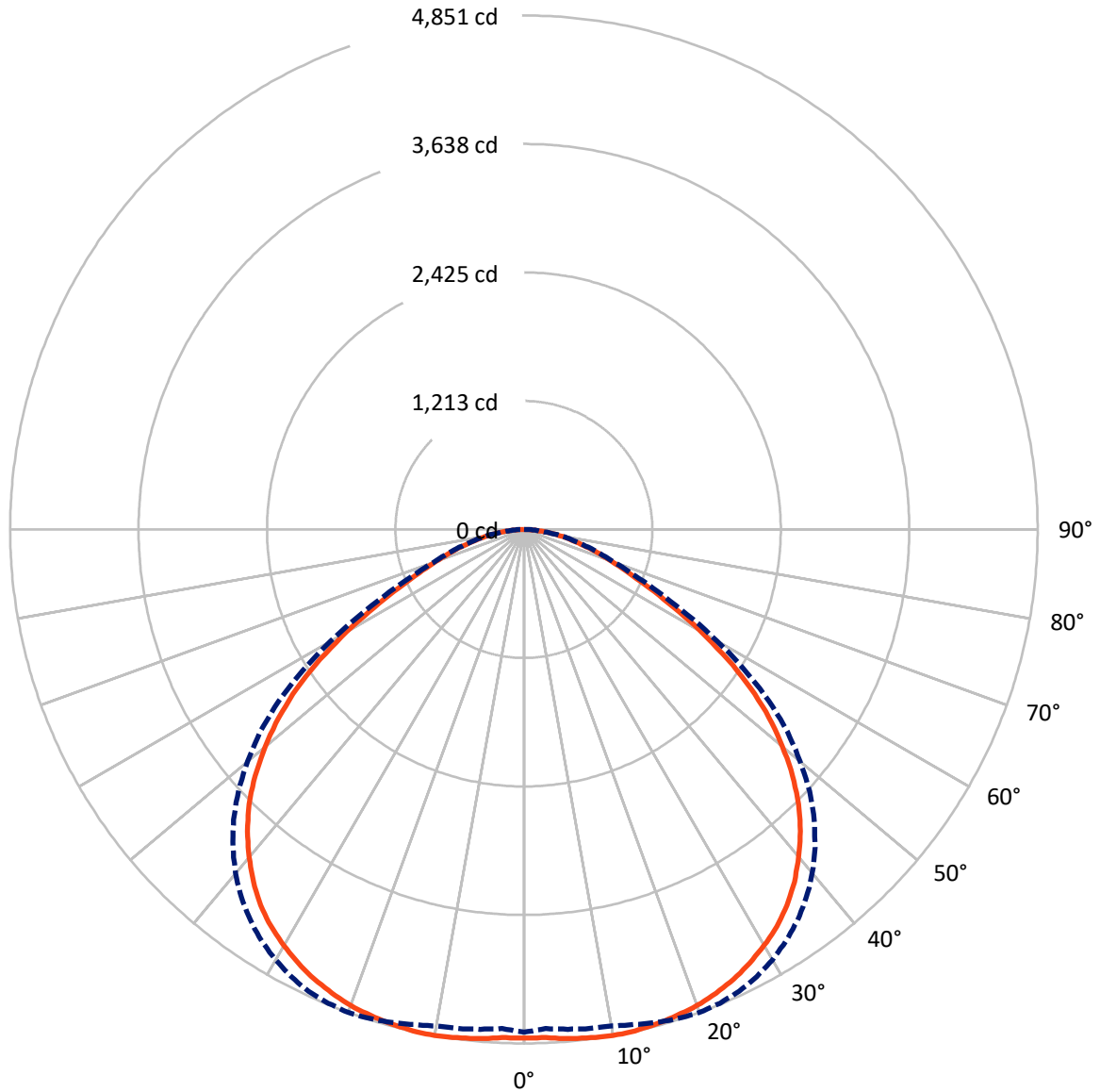
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### Lumen Table



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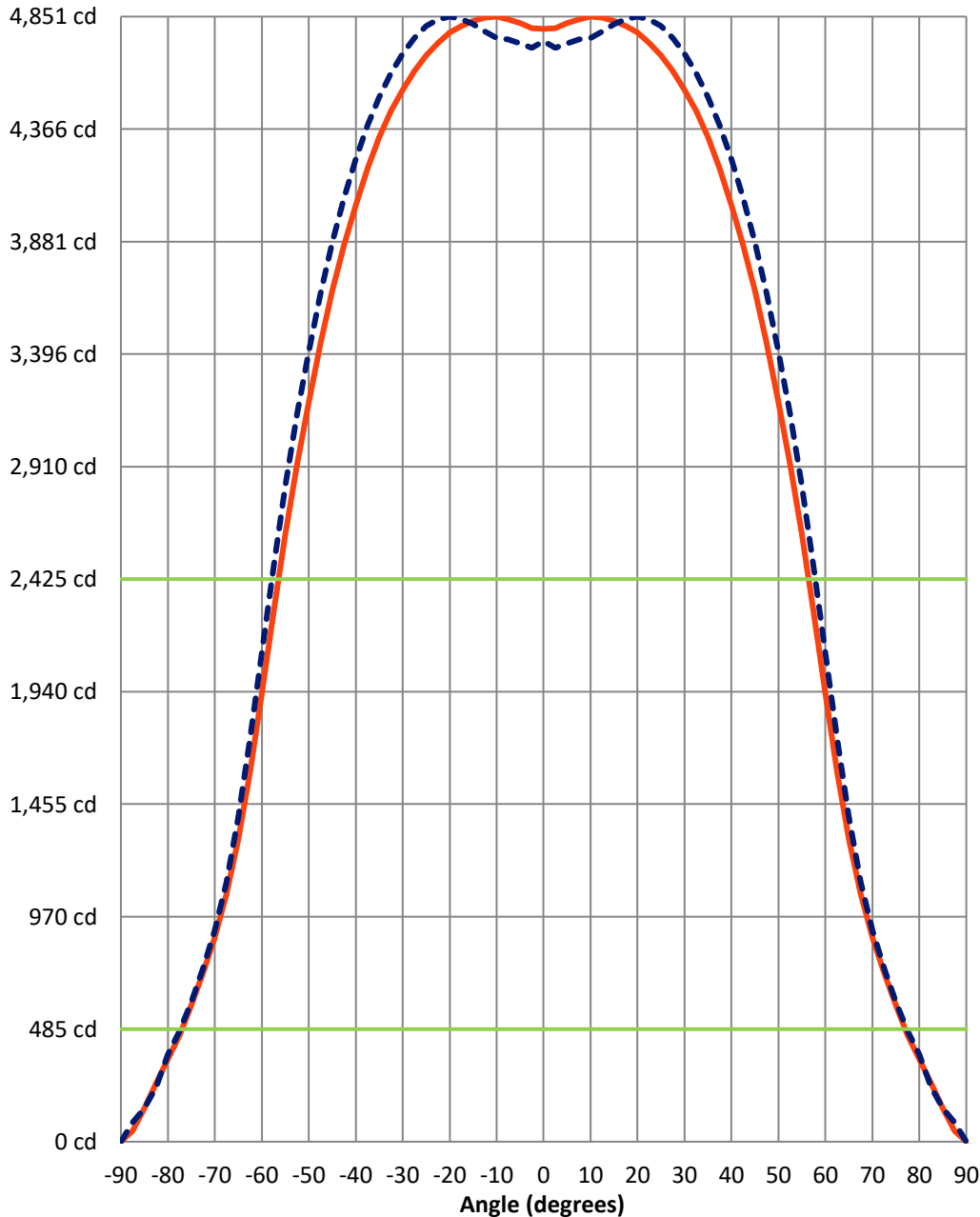
### Luminous Intensity Polar Plot



— 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: 9131.6  
Efficiency: 61.4%

**Field:**  
H Angle: 154.7°  
V Angle: 154°  
Lumens: 10947.2  
Efficiency: 73.6%

**Spill:**  
Lumens: 3934.3  
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°	39.1	42.3	43.8	45.4	47.0	48.5	50.1	48.5	47.0	47.0	45.4
85°	104.9	108.0	109.6	120.6	131.5	137.8	145.6	144.1	144.1	142.5	140.9
82.5°	209.8	219.2	227.0	238.0	244.3	253.7	259.9	255.2	252.1	245.8	241.1
80°	372.7	375.8	377.4	378.9	371.1	369.5	366.4	361.7	355.4	347.6	339.8
77.5°	474.4	477.6	480.7	477.6	476.0	474.4	469.7	465.0	458.8	452.5	443.1
75°	627.9	627.9	627.9	623.2	620.0	615.3	607.5	599.7	588.7	576.2	562.1
72.5°	790.7	789.1	787.6	778.2	770.4	761.0	750.0	740.6	728.1	714.0	695.2
70°	961.4	964.5	966.1	953.6	944.2	931.6	917.5	900.3	881.5	861.2	834.6
67.5°	1196.2	1193.1	1190.0	1172.8	1160.2	1143.0	1122.7	1097.6	1069.4	1038.1	1000.5
65°	1487.5	1492.2	1482.8	1465.6	1442.1	1413.9	1382.6	1346.6	1304.3	1257.3	1204.1
62.5°	1839.8	1847.6	1836.6	1814.7	1785.0	1747.4	1703.6	1651.9	1594.0	1528.2	1462.4
60°	2240.6	2239.1	2218.7	2188.9	2149.8	2102.8	2054.3	1997.9	1932.2	1855.4	1775.6
57.5°	2608.6	2605.4	2580.4	2550.6	2511.5	2461.4	2409.7	2350.2	2281.3	2199.9	2107.5
55°	2939.0	2935.8	2910.8	2879.5	2838.7	2788.6	2741.7	2685.3	2618.0	2531.8	2433.2
52.5°	3231.7	3233.3	3211.4	3176.9	3133.1	3084.6	3039.2	2982.8	2918.6	2832.5	2737.0
50°	3501.1	3499.5	3476.0	3444.7	3404.0	3357.0	3311.6	3255.2	3187.9	3104.9	3012.5
47.5°	3751.6	3748.5	3721.8	3687.4	3645.1	3604.4	3562.1	3512.0	3441.6	3358.6	3266.2
45°	3961.4	3955.1	3928.5	3895.6	3854.9	3818.9	3781.3	3743.8	3668.6	3591.9	3504.2
42.5°	4141.5	4139.9	4113.3	4080.4	4039.7	4008.4	3973.9	3927.0	3864.3	3793.9	3707.7
40°	4313.7	4301.2	4274.6	4243.2	4205.7	4179.0	4144.6	4097.6	4036.6	3967.7	3884.7
37.5°	4442.1	4443.7	4415.5	4381.0	4348.1	4323.1	4291.8	4247.9	4194.7	4127.4	4044.4
35°	4564.2	4556.4	4532.9	4503.2	4473.4	4445.2	4412.3	4374.8	4330.9	4268.3	4190.0
32.5°	4644.1	4655.0	4626.9	4595.5	4578.3	4556.4	4521.9	4482.8	4443.7	4381.0	4310.6
30°	4731.8	4722.4	4700.4	4673.8	4661.3	4647.2	4617.5	4579.9	4534.5	4478.1	4412.3
27.5°	4792.8	4788.1	4761.5	4736.5	4730.2	4717.7	4694.2	4661.3	4615.9	4561.1	4500.0
25°	4819.4	4822.6	4797.5	4783.4	4783.4	4775.6	4756.8	4728.6	4683.2	4633.1	4573.6
22.5°	4832.0	4828.8	4811.6	4808.5	4816.3	4810.0	4802.2	4777.2	4736.5	4695.7	4645.6
20°	4839.8	4817.9	4802.2	4814.7	4824.1	4822.6	4816.3	4800.7	4781.9	4747.4	4703.6
17.5°	4822.6	4808.5	4789.7	4808.5	4828.8	4830.4	4824.1	4814.7	4810.0	4788.1	4749.0
15°	4780.3	4769.3	4772.5	4791.3	4814.7	4822.6	4827.3	4838.2	4832.0	4814.7	4780.3
12.5°	4752.1	4738.0	4752.1	4770.9	4783.4	4788.1	4825.7	4846.1	4846.1	4830.4	4808.5
10°	4744.3	4716.1	4734.9	4752.1	4758.4	4786.6	4817.9	4839.8	4850.8	4838.2	4810.0
7.5°	4728.6	4709.8	4717.7	4725.5	4761.5	4781.9	4799.1	4822.6	4838.2	4836.7	4811.6
5°	4720.8	4697.3	4700.4	4733.3	4758.4	4772.5	4778.7	4799.1	4822.6	4827.3	4808.5
2.5°	4700.4	4689.5	4713.0	4716.1	4734.9	4745.8	4752.1	4770.9	4800.7	4811.6	4803.8
0°	4689.5	4673.8	4658.2	4670.7	4702.0	4725.5	4734.9	4763.1	4797.5	4808.5	4791.3



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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°	43.8	42.3	40.7	39.1	40.7	40.7	40.7	39.1	40.7	39.1	39.1
85°	136.2	130.0	125.3	119.0	112.7	108.0	101.8	95.5	93.9	92.4	89.2
82.5°	234.9	227.0	219.2	209.8	200.4	189.5	178.5	166.0	162.8	159.7	155.0
80°	330.4	319.4	308.5	297.5	288.1	277.1	264.6	250.5	241.1	233.3	223.9
77.5°	430.6	414.9	399.3	380.5	369.5	358.6	346.0	331.9	317.9	305.3	291.2
75°	544.9	527.7	512.0	493.2	472.9	452.5	432.2	413.4	393.0	374.2	355.4
72.5°	671.7	646.7	621.6	598.1	573.1	548.0	521.4	496.3	471.3	446.2	419.6
70°	804.8	773.5	742.2	710.9	678.0	645.1	613.8	582.5	551.2	518.3	488.5
67.5°	961.4	925.4	884.7	840.8	792.3	750.0	709.3	671.7	634.1	596.6	559.0
65°	1157.1	1107.0	1052.2	992.7	936.3	880.0	820.5	764.1	720.3	676.4	634.1
62.5°	1398.2	1327.8	1251.1	1174.3	1105.4	1031.8	962.9	889.4	820.5	757.8	706.2
60°	1686.3	1590.8	1496.9	1398.2	1302.7	1202.5	1114.8	1024.0	937.9	861.2	786.0
57.5°	2004.2	1893.0	1780.3	1659.7	1529.8	1412.3	1293.3	1174.3	1072.6	970.8	886.2
55°	2326.7	2209.3	2082.5	1946.3	1803.8	1653.5	1492.2	1359.1	1219.7	1100.7	991.1
52.5°	2633.6	2511.5	2380.0	2254.7	2084.0	1911.8	1734.9	1559.5	1396.7	1244.8	1111.7
50°	2907.6	2788.6	2661.8	2516.2	2358.0	2174.9	1977.6	1780.3	1587.7	1409.2	1243.2
47.5°	3158.2	3042.3	2915.5	2769.8	2625.8	2422.2	2223.4	2005.8	1791.2	1586.1	1392.0
45°	3393.0	3275.6	3144.1	3004.7	2838.7	2657.1	2452.0	2232.8	2002.6	1772.5	1548.5
42.5°	3606.0	3488.5	3355.4	3211.4	3047.0	2866.9	2668.1	2447.3	2215.6	1965.0	1719.2
40°	3792.3	3678.0	3549.6	3399.3	3245.8	3056.4	2860.7	2650.8	2411.3	2159.2	1888.3
37.5°	3955.1	3848.7	3721.8	3573.1	3410.2	3241.1	3039.2	2829.3	2613.3	2339.3	2062.1
35°	4099.2	4000.5	3870.6	3729.7	3570.0	3391.5	3202.0	2996.9	2763.6	2506.8	2237.5
32.5°	4224.4	4124.2	4005.2	3864.3	3709.3	3541.8	3347.6	3140.9	2920.2	2658.7	2365.9
30°	4330.9	4233.8	4121.1	3988.0	3839.3	3673.3	3483.8	3275.6	3050.1	2790.2	2500.5
27.5°	4423.3	4330.9	4221.3	4097.6	3955.1	3795.4	3604.4	3394.6	3164.4	2913.9	2624.2
25°	4503.2	4413.9	4312.1	4194.7	4053.8	3897.2	3717.1	3497.9	3267.8	3015.7	2729.1
22.5°	4575.2	4489.1	4387.3	4273.0	4144.6	3988.0	3806.4	3588.7	3355.4	3106.5	2824.6
20°	4639.4	4559.5	4459.3	4341.9	4213.5	4055.3	3875.3	3668.6	3433.7	3189.5	2910.8
17.5°	4691.0	4620.6	4520.4	4396.7	4268.3	4114.8	3939.5	3750.0	3501.1	3259.9	2982.8
15°	4727.1	4658.2	4567.4	4442.1	4316.8	4164.9	3989.6	3793.9	3562.1	3316.3	3042.3
12.5°	4752.1	4678.5	4594.0	4478.1	4352.8	4202.5	4031.9	3839.3	3613.8	3366.4	3094.0
10°	4758.4	4691.0	4606.5	4503.2	4381.0	4235.4	4067.9	3876.8	3656.1	3405.5	3136.2
7.5°	4761.5	4697.3	4620.6	4521.9	4401.4	4260.5	4094.5	3906.6	3687.4	3438.4	3167.6
5°	4759.9	4698.9	4630.0	4534.5	4413.9	4274.6	4111.7	3927.0	3709.3	3460.4	3191.0
2.5°	4755.2	4700.4	4636.2	4543.9	4428.0	4290.2	4128.9	3950.4	3732.8	3479.1	3209.8
0°	4767.8	4720.8	4639.4	4540.7	4431.1	4290.2	4127.4	3953.6	3735.9	3477.6	3208.3





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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°	39.1	37.6	37.6	36.0	34.4	32.9	29.7	28.2	25.1	20.4	15.7
85°	84.6	79.9	75.2	72.0	68.9	65.8	61.1	56.4	50.1	40.7	31.3
82.5°	148.7	139.4	130.0	119.0	109.6	100.2	92.4	84.6	75.2	61.1	47.0
80°	212.9	198.9	184.8	169.1	155.0	139.4	125.3	112.7	100.2	81.4	62.6
77.5°	277.1	258.4	238.0	219.2	198.9	178.5	158.1	140.9	122.1	100.2	78.3
75°	336.6	314.7	295.9	269.3	244.3	217.6	191.0	167.5	144.1	117.4	93.9
72.5°	396.1	368.0	341.3	316.3	288.1	255.2	225.5	195.7	166.0	134.7	106.5
70°	455.6	421.2	388.3	358.6	327.2	294.4	258.4	223.9	187.9	150.3	117.4
67.5°	516.7	477.6	440.0	402.4	366.4	328.8	291.2	252.1	209.8	166.0	130.0
65°	584.0	535.5	490.1	447.8	405.5	364.8	322.5	280.3	233.3	183.2	140.9
62.5°	651.4	598.1	544.9	491.7	444.7	399.3	353.9	306.9	255.2	202.0	151.9
60°	723.4	662.3	601.3	541.8	483.8	433.7	383.6	333.5	278.7	219.2	162.8
57.5°	803.2	729.6	660.8	593.4	527.7	468.2	413.4	360.1	299.1	236.4	175.4
55°	894.1	803.2	721.8	646.7	574.6	502.6	443.1	388.3	322.5	253.7	189.5
52.5°	989.6	884.7	786.0	701.5	624.7	543.3	471.3	410.2	346.0	270.9	202.0
50°	1100.7	967.6	858.0	754.7	668.6	584.0	501.0	435.3	369.5	291.2	214.5
47.5°	1215.0	1067.9	930.1	817.3	715.6	623.2	535.5	457.2	391.4	310.0	227.0
45°	1348.1	1163.4	1011.5	878.4	761.0	663.9	569.9	480.7	410.2	328.8	239.6
42.5°	1476.5	1276.1	1096.0	945.7	812.6	703.0	601.3	505.7	429.0	347.6	250.5
40°	1628.4	1388.8	1177.5	1009.9	864.3	740.6	632.6	532.4	446.2	364.8	261.5
37.5°	1774.0	1503.1	1276.1	1080.4	914.4	778.2	663.9	557.4	461.9	382.0	275.6
35°	1918.1	1630.0	1370.0	1146.1	966.1	820.5	695.2	580.9	477.6	396.1	288.1
32.5°	2055.9	1749.0	1465.6	1219.7	1022.4	859.6	723.4	602.8	493.2	408.7	300.6
30°	2184.2	1861.7	1559.5	1294.9	1074.1	895.6	750.0	624.7	512.0	419.6	313.2
27.5°	2301.7	1971.3	1653.5	1365.4	1122.7	928.5	778.2	645.1	527.7	430.6	324.1
25°	2408.2	2069.9	1739.6	1429.5	1166.5	964.5	804.8	665.5	541.8	440.0	333.5
22.5°	2508.4	2160.8	1817.9	1493.7	1219.7	1000.5	829.9	684.2	555.8	449.4	342.9
20°	2596.0	2243.7	1893.0	1557.9	1266.7	1033.4	851.8	701.5	568.4	455.6	352.3
17.5°	2666.5	2317.3	1960.3	1614.3	1307.4	1061.6	870.6	717.1	579.3	463.5	358.6
15°	2729.1	2380.0	2016.7	1662.8	1343.4	1085.1	887.8	729.6	588.7	468.2	366.4
12.5°	2782.4	2433.2	2065.3	1705.1	1374.7	1105.4	901.9	739.0	596.6	472.9	371.1
10°	2826.2	2475.5	2106.0	1738.0	1399.8	1121.1	912.8	748.4	602.8	477.6	375.8
7.5°	2859.1	2506.8	2135.7	1766.2	1420.2	1132.1	922.2	754.7	609.1	480.7	383.6
5°	2884.1	2533.4	2159.2	1785.0	1435.8	1147.7	933.2	762.5	615.3	483.8	383.6
2.5°	2902.9	2555.3	2178.0	1800.6	1448.3	1144.6	933.2	761.0	615.3	483.8	382.0
0°	2899.8	2556.9	2176.4	1800.6	1448.3	1141.4	933.2	759.4	615.3	483.8	382.0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.0	7.8	3.1	0.0
85°	23.5	15.7	7.8	0.0
82.5°	34.4	21.9	11.0	0.0
80°	45.4	29.7	14.1	0.0
77.5°	57.9	37.6	18.8	0.0
75°	68.9	43.8	21.9	0.0
72.5°	79.9	51.7	25.1	0.0
70°	89.2	57.9	28.2	0.0
67.5°	98.6	65.8	32.9	0.0
65°	106.5	72.0	36.0	0.0
62.5°	112.7	79.9	39.1	0.0
60°	120.6	86.1	42.3	0.0
57.5°	126.8	90.8	45.4	0.0
55°	133.1	93.9	48.5	0.0
52.5°	139.4	98.6	51.7	0.0
50°	145.6	103.3	54.8	0.0
47.5°	151.9	106.5	56.4	0.0
45°	161.3	111.2	59.5	0.0
42.5°	169.1	114.3	62.6	0.0
40°	176.9	117.4	64.2	0.0
37.5°	184.8	120.6	67.3	0.0
35°	192.6	123.7	68.9	0.0
32.5°	198.9	126.8	70.5	0.0
30°	205.1	130.0	72.0	0.0
27.5°	211.4	131.5	73.6	0.0
25°	216.1	134.7	75.2	0.0
22.5°	220.8	136.2	76.7	0.0
20°	223.9	137.8	78.3	0.0
17.5°	228.6	139.4	79.9	0.0
15°	230.2	140.9	83.0	0.0
12.5°	233.3	142.5	83.0	0.0
10°	234.9	144.1	83.0	0.0
7.5°	238.0	144.1	83.0	0.0
5°	236.4	144.1	83.0	0.0
2.5°	236.4	144.1	83.0	0.0
0°	234.9	144.1	83.0	0.0

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