

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: P628165

Luminaire Tested: **IFLD-M-SA4A-722-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628165  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-722-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

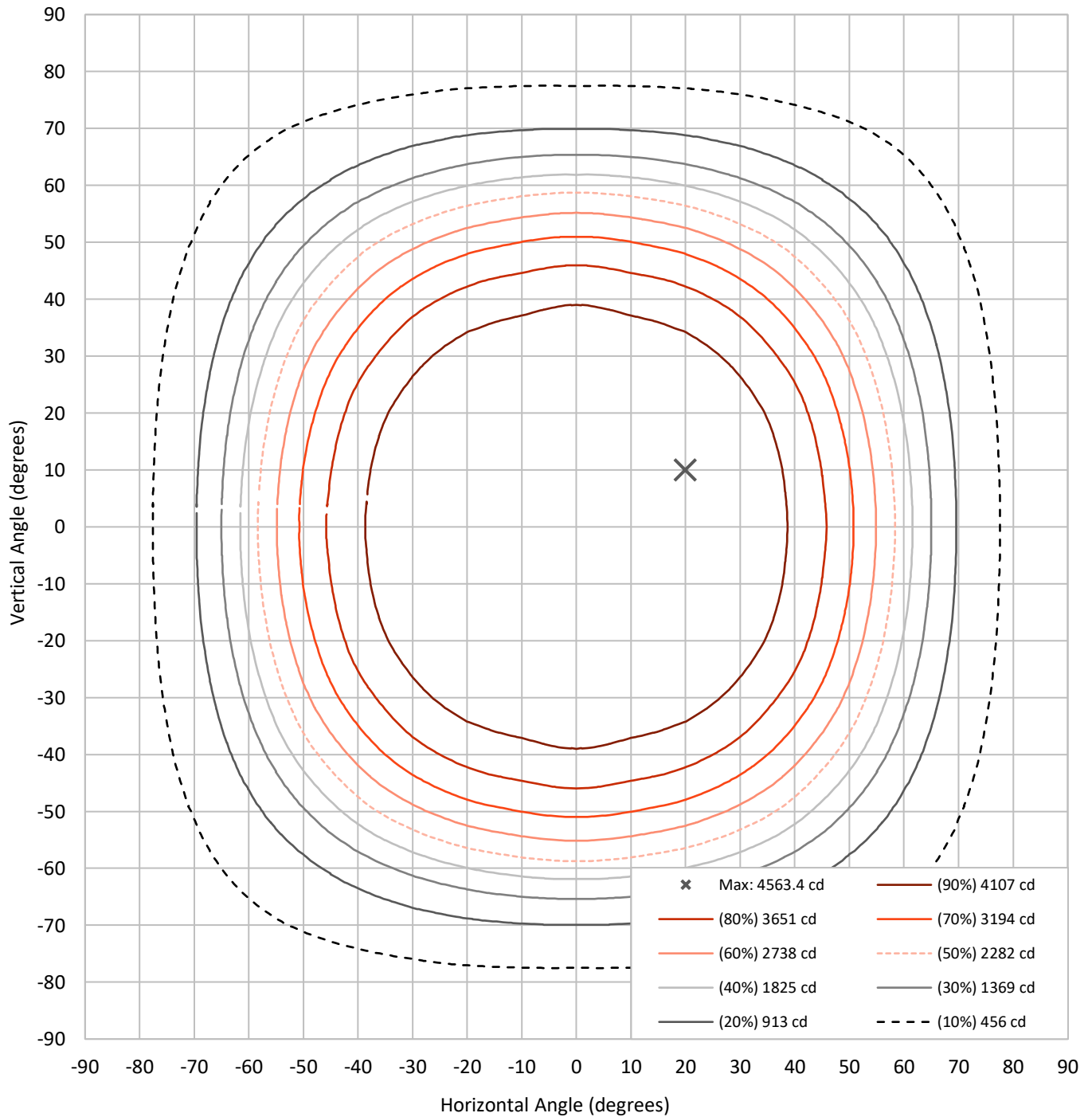
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13999.9 lumens	Max Intensity:	4563.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	108.9 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:	8590.6 lumens	Field Lumens:	10298.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	128.6		
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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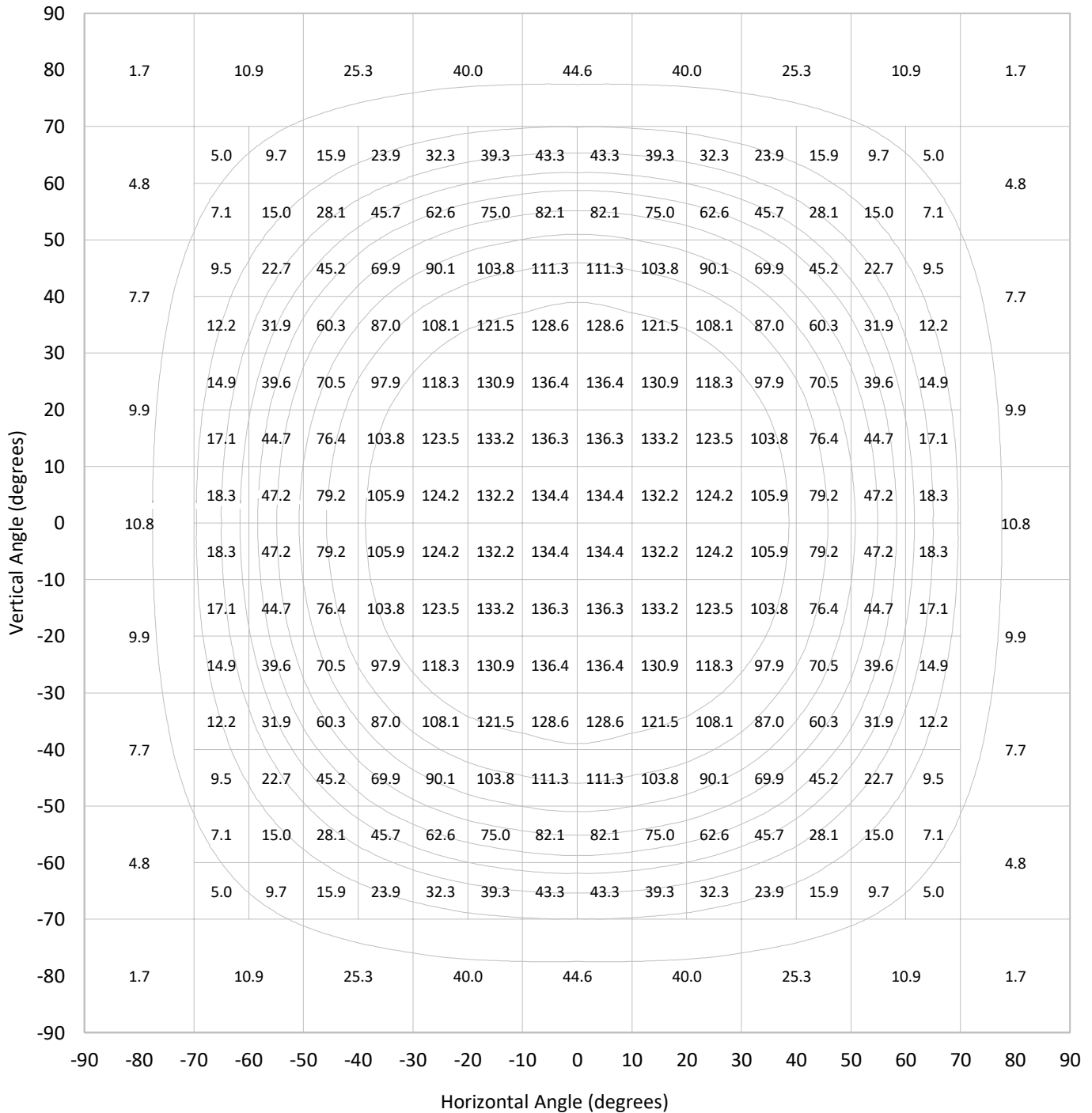
### Iso-Candela Plot





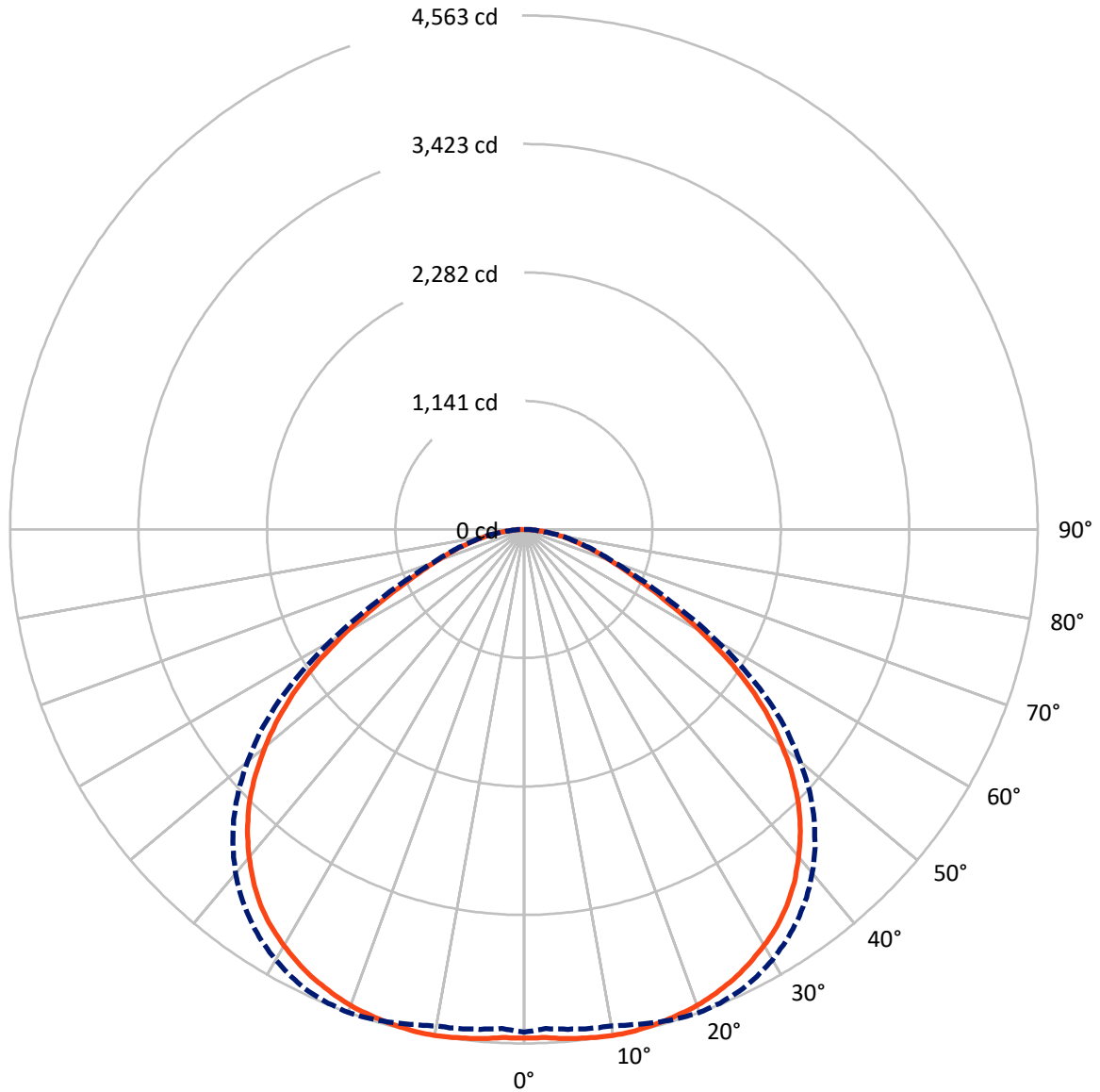
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### Lumen Table



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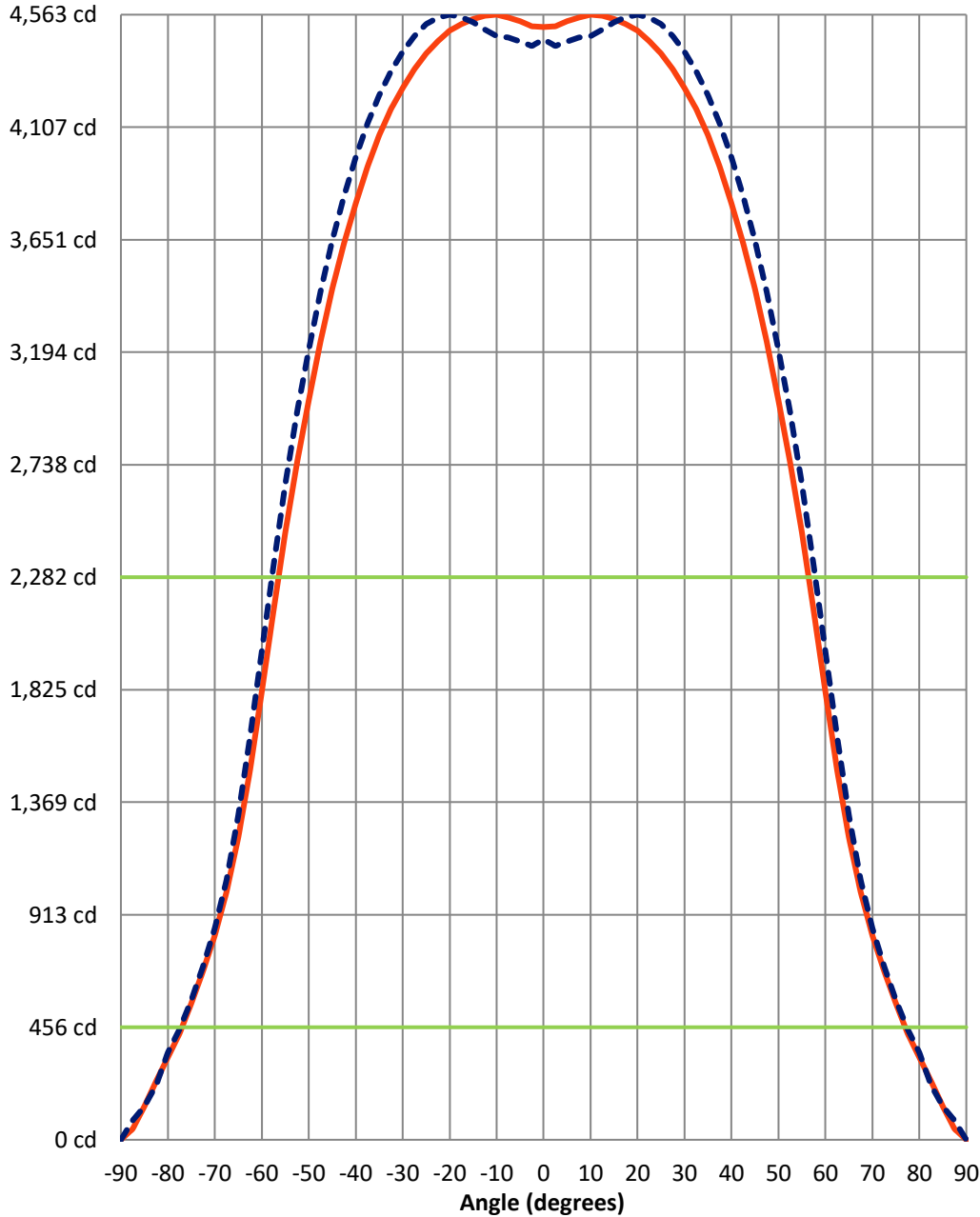
### Luminous Intensity Polar Plot



— 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: 8590.6  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 10298.7  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 3701.2  
 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°	36.8	39.8	41.2	42.7	44.2	45.7	47.1	45.7	44.2	44.2	42.7
85°	98.7	101.6	103.1	113.4	123.7	129.6	137.0	135.5	135.5	134.0	132.6
82.5°	197.4	206.2	213.6	223.9	229.8	238.6	244.5	240.1	237.2	231.3	226.8
80°	350.6	353.5	355.0	356.5	349.1	347.6	344.7	340.3	334.4	327.0	319.6
77.5°	446.3	449.3	452.2	449.3	447.8	446.3	441.9	437.5	431.6	425.7	416.9
75°	590.7	590.7	590.7	586.3	583.3	578.9	571.5	564.2	553.9	542.1	528.8
72.5°	743.9	742.4	740.9	732.1	724.7	715.9	705.6	696.7	685.0	671.7	654.0
70°	904.4	907.4	908.8	897.1	888.2	876.4	863.2	847.0	829.3	810.2	785.1
67.5°	1125.4	1122.4	1119.5	1103.3	1091.5	1075.3	1056.2	1032.6	1006.1	976.6	941.3
65°	1399.4	1403.8	1394.9	1378.7	1356.6	1330.1	1300.7	1266.8	1227.0	1182.8	1132.7
62.5°	1730.8	1738.2	1727.8	1707.2	1679.2	1643.9	1602.6	1554.0	1499.5	1437.7	1375.8
60°	2107.9	2106.4	2087.3	2059.3	2022.4	1978.3	1932.6	1879.6	1817.7	1745.5	1670.4
57.5°	2454.0	2451.1	2427.5	2399.5	2362.7	2315.6	2267.0	2211.0	2146.2	2069.6	1982.7
55°	2764.8	2761.9	2738.3	2708.9	2670.6	2623.4	2579.2	2526.2	2462.9	2381.9	2289.1
52.5°	3040.3	3041.8	3021.2	2988.7	2947.5	2901.8	2859.1	2806.1	2745.7	2664.7	2574.8
50°	3293.7	3292.2	3270.1	3240.6	3202.3	3158.1	3115.4	3062.4	2999.1	2921.0	2834.1
47.5°	3529.3	3526.4	3501.4	3468.9	3429.2	3390.9	3351.1	3304.0	3237.7	3159.6	3072.7
45°	3726.7	3720.8	3695.8	3664.9	3626.6	3592.7	3557.3	3522.0	3451.3	3379.1	3296.6
42.5°	3896.1	3894.6	3869.6	3838.7	3800.4	3770.9	3738.5	3694.3	3635.4	3569.1	3488.1
40°	4058.2	4046.4	4021.3	3991.9	3956.5	3931.5	3899.1	3854.9	3797.4	3732.6	3654.5
37.5°	4178.9	4180.4	4153.9	4121.5	4090.6	4067.0	4037.5	3996.3	3946.2	3882.9	3804.8
35°	4293.8	4286.5	4264.4	4236.4	4208.4	4181.9	4151.0	4115.6	4074.4	4015.4	3941.8
32.5°	4369.0	4379.3	4352.8	4323.3	4307.1	4286.5	4254.1	4217.2	4180.4	4121.5	4055.2
30°	4451.4	4442.6	4422.0	4396.9	4385.2	4371.9	4343.9	4308.6	4265.8	4212.8	4151.0
27.5°	4508.9	4504.5	4479.4	4455.9	4450.0	4438.2	4416.1	4385.2	4342.4	4290.9	4233.4
25°	4533.9	4536.9	4513.3	4500.1	4500.1	4492.7	4475.0	4448.5	4405.8	4358.6	4302.7
22.5°	4545.7	4542.8	4526.6	4523.6	4531.0	4525.1	4517.7	4494.2	4455.9	4417.6	4370.4
20°	4553.1	4532.5	4517.7	4529.5	4538.4	4536.9	4531.0	4516.3	4498.6	4466.2	4424.9
17.5°	4536.9	4523.6	4505.9	4523.6	4542.8	4544.2	4538.4	4529.5	4525.1	4504.5	4467.7
15°	4497.1	4486.8	4489.7	4507.4	4529.5	4536.9	4541.3	4551.6	4545.7	4529.5	4497.1
12.5°	4470.6	4457.3	4470.6	4488.3	4500.1	4504.5	4539.8	4559.0	4559.0	4544.2	4523.6
10°	4463.2	4436.7	4454.4	4470.6	4476.5	4503.0	4532.5	4553.1	4563.4	4551.6	4525.1
7.5°	4448.5	4430.8	4438.2	4445.6	4479.4	4498.6	4514.8	4536.9	4551.6	4550.1	4526.6
5°	4441.1	4419.0	4422.0	4452.9	4476.5	4489.7	4495.6	4514.8	4536.9	4541.3	4523.6
2.5°	4422.0	4411.7	4433.8	4436.7	4454.4	4464.7	4470.6	4488.3	4516.3	4526.6	4519.2
0°	4411.7	4396.9	4382.2	4394.0	4423.5	4445.6	4454.4	4480.9	4513.3	4523.6	4507.4



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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°	41.2	39.8	38.3	36.8	38.3	38.3	38.3	36.8	38.3	36.8	36.8
85°	128.2	122.3	117.8	111.9	106.1	101.6	95.7	89.9	88.4	86.9	84.0
82.5°	221.0	213.6	206.2	197.4	188.5	178.2	167.9	156.1	153.2	150.2	145.8
80°	310.8	300.5	290.2	279.9	271.0	260.7	248.9	235.7	226.8	219.5	210.6
77.5°	405.1	390.3	375.6	357.9	347.6	337.3	325.5	312.3	299.0	287.2	274.0
75°	512.6	496.4	481.7	464.0	444.9	425.7	406.6	388.9	369.7	352.1	334.4
72.5°	631.9	608.4	584.8	562.7	539.1	515.6	490.5	466.9	443.4	419.8	394.8
70°	757.1	727.7	698.2	668.7	637.8	606.9	577.4	548.0	518.5	487.6	459.6
67.5°	904.4	870.6	832.3	791.0	745.3	705.6	667.3	631.9	596.6	561.2	525.9
65°	1088.6	1041.4	989.9	933.9	880.9	827.8	771.9	718.8	677.6	636.3	596.6
62.5°	1315.4	1249.1	1176.9	1104.8	1039.9	970.7	905.9	836.7	771.9	712.9	664.3
60°	1586.4	1496.6	1408.2	1315.4	1225.5	1131.3	1048.8	963.4	882.3	810.2	739.5
57.5°	1885.5	1780.9	1674.8	1561.4	1439.1	1328.7	1216.7	1104.8	1009.0	913.3	833.7
55°	2188.9	2078.4	1959.1	1831.0	1696.9	1555.5	1403.8	1278.6	1147.5	1035.5	932.4
52.5°	2477.6	2362.7	2239.0	2121.1	1960.6	1798.5	1632.1	1467.1	1313.9	1171.0	1045.8
50°	2735.4	2623.4	2504.1	2367.1	2218.4	2046.0	1860.4	1674.8	1493.6	1325.7	1169.6
47.5°	2971.1	2862.1	2742.8	2605.8	2470.2	2278.8	2091.7	1886.9	1685.1	1492.2	1309.5
45°	3192.0	3081.5	2957.8	2826.7	2670.6	2499.7	2306.7	2100.5	1884.0	1667.5	1456.8
42.5°	3392.4	3281.9	3156.7	3021.2	2866.5	2697.1	2510.0	2302.3	2084.3	1848.6	1617.4
40°	3567.6	3460.1	3339.3	3197.9	3053.6	2875.3	2691.2	2493.8	2268.4	2031.3	1776.5
37.5°	3720.8	3620.7	3501.4	3361.4	3208.2	3049.1	2859.1	2661.7	2458.5	2200.7	1940.0
35°	3856.3	3763.5	3641.3	3508.7	3358.5	3190.5	3012.3	2819.3	2599.9	2358.3	2104.9
32.5°	3974.2	3879.9	3768.0	3635.4	3489.6	3332.0	3149.3	2954.9	2747.2	2501.2	2225.7
30°	4074.4	3983.0	3877.0	3751.8	3611.8	3455.7	3277.5	3081.5	2869.4	2624.9	2352.4
27.5°	4161.3	4074.4	3971.2	3854.9	3720.8	3570.6	3390.9	3193.5	2977.0	2741.3	2468.8
25°	4236.4	4152.4	4056.7	3946.2	3813.6	3666.3	3496.9	3290.7	3074.2	2837.0	2567.5
22.5°	4304.1	4223.1	4127.4	4019.9	3899.1	3751.8	3580.9	3376.1	3156.7	2922.5	2657.3
20°	4364.5	4289.4	4195.1	4084.7	3963.9	3815.1	3645.7	3451.3	3230.3	3000.5	2738.3
17.5°	4413.1	4346.9	4252.6	4136.2	4015.4	3871.1	3706.1	3527.9	3293.7	3066.8	2806.1
15°	4447.0	4382.2	4296.8	4178.9	4061.1	3918.2	3753.2	3569.1	3351.1	3119.8	2862.1
12.5°	4470.6	4401.4	4321.8	4212.8	4095.0	3953.6	3793.0	3611.8	3399.7	3167.0	2910.7
10°	4476.5	4413.1	4333.6	4236.4	4121.5	3984.5	3826.9	3647.2	3439.5	3203.8	2950.4
7.5°	4479.4	4419.0	4346.9	4254.1	4140.6	4008.1	3851.9	3675.2	3468.9	3234.7	2979.9
5°	4478.0	4420.5	4355.7	4265.8	4152.4	4021.3	3868.1	3694.3	3489.6	3255.4	3002.0
2.5°	4473.5	4422.0	4361.6	4274.7	4165.7	4036.1	3884.3	3716.4	3511.7	3273.0	3019.7
0°	4485.3	4441.1	4364.5	4271.7	4168.6	4036.1	3882.9	3719.4	3514.6	3271.6	3018.2





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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°	36.8	35.4	35.4	33.9	32.4	30.9	28.0	26.5	23.6	19.1	14.7
85°	79.5	75.1	70.7	67.8	64.8	61.9	57.4	53.0	47.1	38.3	29.5
82.5°	139.9	131.1	122.3	111.9	103.1	94.3	86.9	79.5	70.7	57.4	44.2
80°	200.3	187.1	173.8	159.1	145.8	131.1	117.8	106.1	94.3	76.6	58.9
77.5°	260.7	243.0	223.9	206.2	187.1	167.9	148.8	132.6	114.9	94.3	73.7
75°	316.7	296.1	278.4	253.4	229.8	204.7	179.7	157.6	135.5	110.5	88.4
72.5°	372.7	346.2	321.1	297.5	271.0	240.1	212.1	184.1	156.1	126.7	100.2
70°	428.6	396.2	365.3	337.3	307.9	276.9	243.0	210.6	176.8	141.4	110.5
67.5°	486.1	449.3	413.9	378.6	344.7	309.3	274.0	237.2	197.4	156.1	122.3
65°	549.4	503.8	461.1	421.3	381.5	343.2	303.4	263.7	219.5	172.3	132.6
62.5°	612.8	562.7	512.6	462.5	418.3	375.6	332.9	288.7	240.1	190.0	142.9
60°	680.5	623.1	565.6	509.7	455.2	408.0	360.9	313.8	262.2	206.2	153.2
57.5°	755.7	686.4	621.6	558.3	496.4	440.4	388.9	338.8	281.3	222.4	165.0
55°	841.1	755.7	679.1	608.4	540.6	472.8	416.9	365.3	303.4	238.6	178.2
52.5°	930.9	832.3	739.5	659.9	587.7	511.1	443.4	385.9	325.5	254.8	190.0
50°	1035.5	910.3	807.2	710.0	629.0	549.4	471.4	409.5	347.6	274.0	201.8
47.5°	1143.1	1004.6	875.0	768.9	673.2	586.3	503.8	430.1	368.3	291.7	213.6
45°	1268.3	1094.4	951.6	826.4	715.9	624.6	536.2	452.2	385.9	309.3	225.4
42.5°	1389.1	1200.5	1031.1	889.7	764.5	661.4	565.6	475.8	403.6	327.0	235.7
40°	1531.9	1306.6	1107.7	950.1	813.1	696.7	595.1	500.8	419.8	343.2	246.0
37.5°	1668.9	1414.1	1200.5	1016.4	860.2	732.1	624.6	524.4	434.5	359.4	259.3
35°	1804.4	1533.4	1288.9	1078.2	908.8	771.9	654.0	546.5	449.3	372.7	271.0
32.5°	1934.1	1645.4	1378.7	1147.5	961.9	808.7	680.5	567.1	464.0	384.5	282.8
30°	2054.9	1751.4	1467.1	1218.2	1010.5	842.6	705.6	587.7	481.7	394.8	294.6
27.5°	2165.3	1854.5	1555.5	1284.5	1056.2	873.5	732.1	606.9	496.4	405.1	304.9
25°	2265.5	1947.3	1636.5	1344.9	1097.4	907.4	757.1	626.0	509.7	413.9	313.8
22.5°	2359.8	2032.8	1710.2	1405.3	1147.5	941.3	780.7	643.7	522.9	422.8	322.6
20°	2442.3	2110.8	1780.9	1465.6	1191.7	972.2	801.3	659.9	534.7	428.6	331.4
17.5°	2508.5	2180.1	1844.2	1518.7	1230.0	998.7	819.0	674.6	545.0	436.0	337.3
15°	2567.5	2239.0	1897.2	1564.3	1263.8	1020.8	835.2	686.4	553.9	440.4	344.7
12.5°	2617.5	2289.1	1942.9	1604.1	1293.3	1039.9	848.5	695.3	561.2	444.9	349.1
10°	2658.8	2328.8	1981.2	1635.0	1316.9	1054.7	858.8	704.1	567.1	449.3	353.5
7.5°	2689.7	2358.3	2009.2	1661.6	1336.0	1065.0	867.6	710.0	573.0	452.2	360.9
5°	2713.3	2383.3	2031.3	1679.2	1350.8	1079.7	877.9	717.4	578.9	455.2	360.9
2.5°	2731.0	2404.0	2049.0	1694.0	1362.5	1076.8	877.9	715.9	578.9	455.2	359.4
0°	2728.0	2405.4	2047.5	1694.0	1362.5	1073.8	877.9	714.4	578.9	455.2	359.4



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.3	7.4	2.9	0.0
85°	22.1	14.7	7.4	0.0
82.5°	32.4	20.6	10.3	0.0
80°	42.7	28.0	13.3	0.0
77.5°	54.5	35.4	17.7	0.0
75°	64.8	41.2	20.6	0.0
72.5°	75.1	48.6	23.6	0.0
70°	84.0	54.5	26.5	0.0
67.5°	92.8	61.9	30.9	0.0
65°	100.2	67.8	33.9	0.0
62.5°	106.1	75.1	36.8	0.0
60°	113.4	81.0	39.8	0.0
57.5°	119.3	85.4	42.7	0.0
55°	125.2	88.4	45.7	0.0
52.5°	131.1	92.8	48.6	0.0
50°	137.0	97.2	51.6	0.0
47.5°	142.9	100.2	53.0	0.0
45°	151.7	104.6	56.0	0.0
42.5°	159.1	107.5	58.9	0.0
40°	166.5	110.5	60.4	0.0
37.5°	173.8	113.4	63.3	0.0
35°	181.2	116.4	64.8	0.0
32.5°	187.1	119.3	66.3	0.0
30°	193.0	122.3	67.8	0.0
27.5°	198.9	123.7	69.2	0.0
25°	203.3	126.7	70.7	0.0
22.5°	207.7	128.2	72.2	0.0
20°	210.6	129.6	73.7	0.0
17.5°	215.1	131.1	75.1	0.0
15°	216.5	132.6	78.1	0.0
12.5°	219.5	134.0	78.1	0.0
10°	221.0	135.5	78.1	0.0
7.5°	223.9	135.5	78.1	0.0
5°	222.4	135.5	78.1	0.0
2.5°	222.4	135.5	78.1	0.0
0°	221.0	135.5	78.1	0.0

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