

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: P628430

Luminaire Tested: **IFLD-M-SA4E-927-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628430  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-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

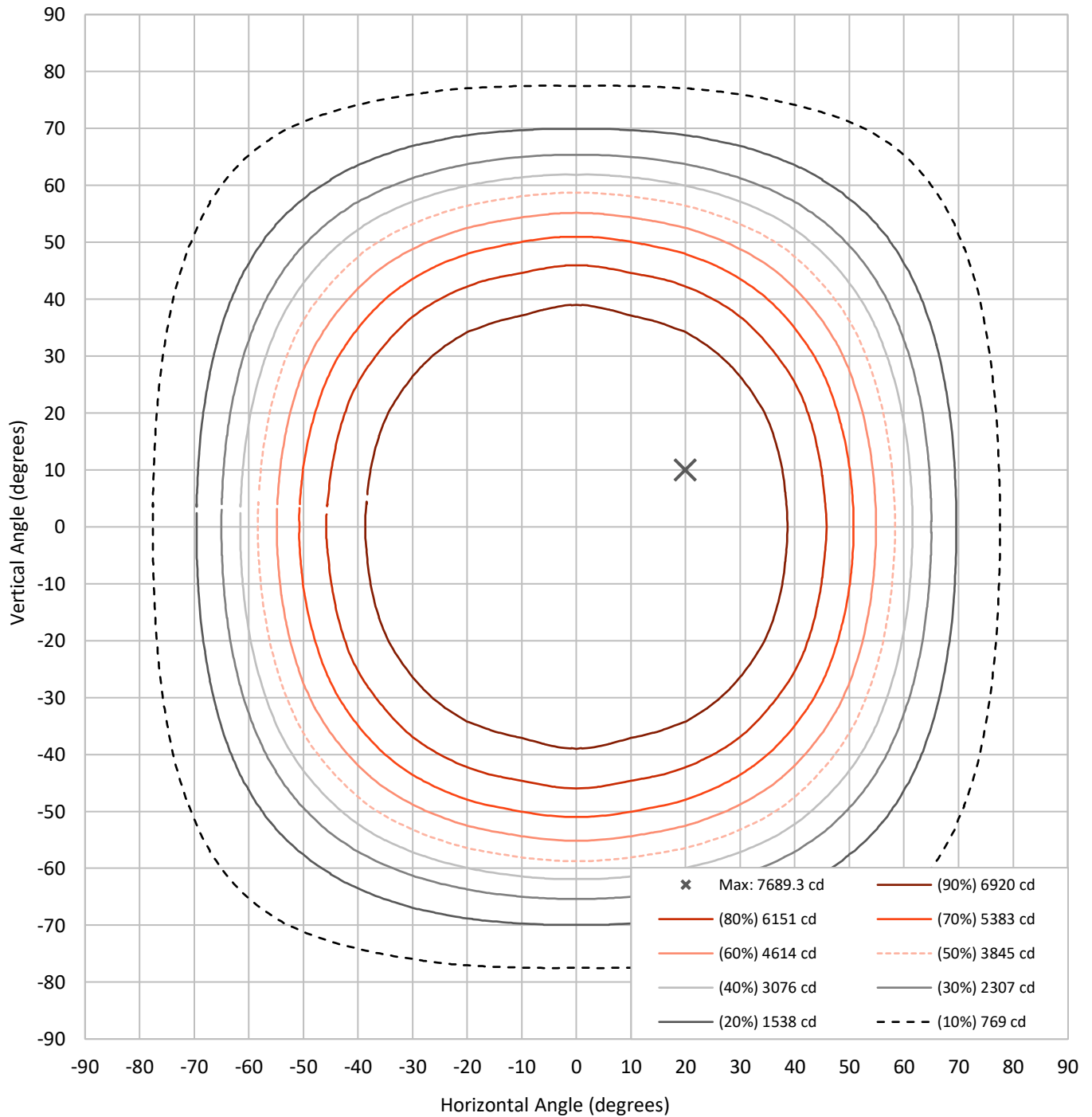
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23589.7 lumens	Max Intensity:	7689.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	74.9 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:	14475.2 lumens	Field Lumens:	17353.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	314.8		
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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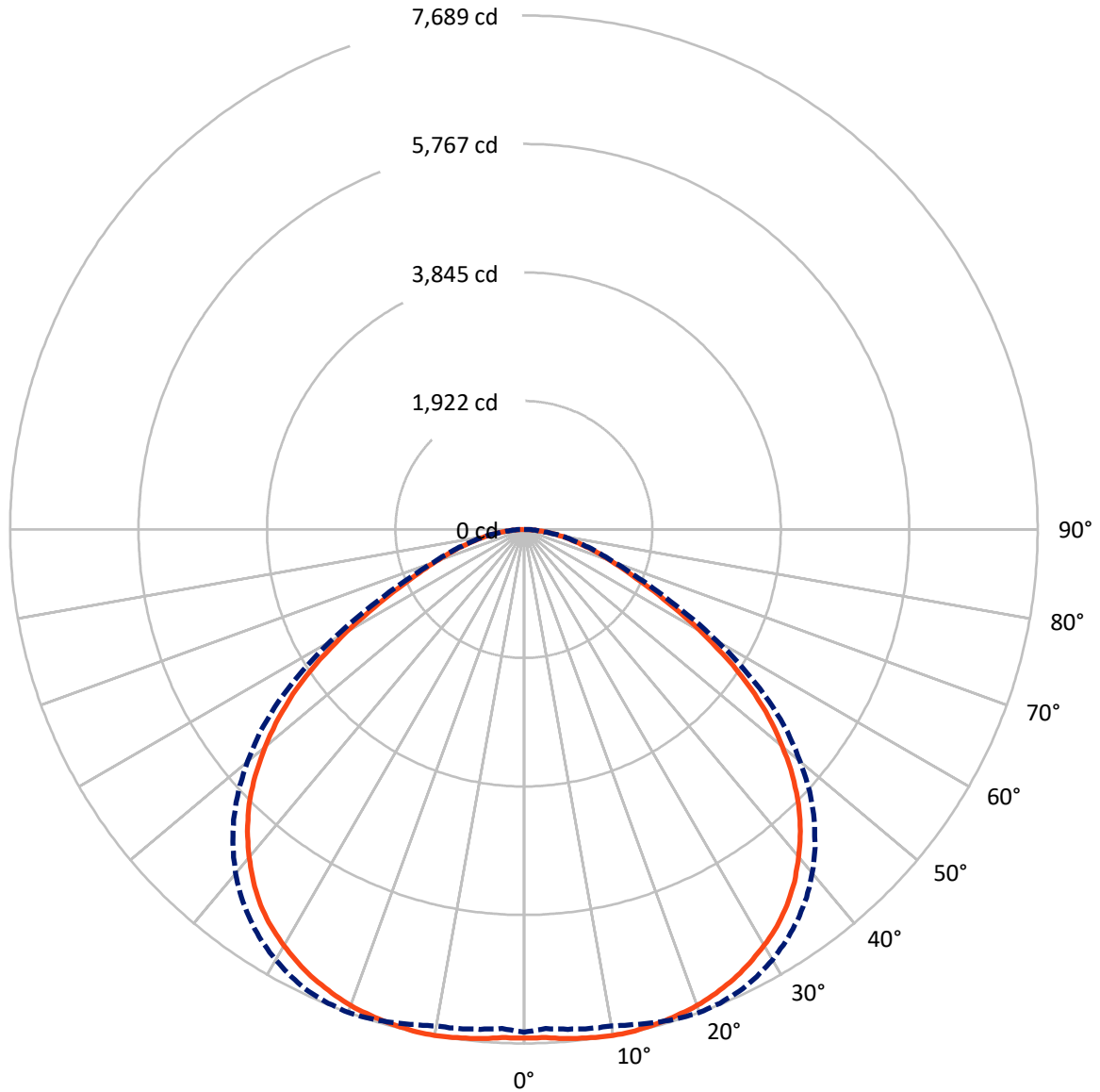
### Iso-Candela Plot





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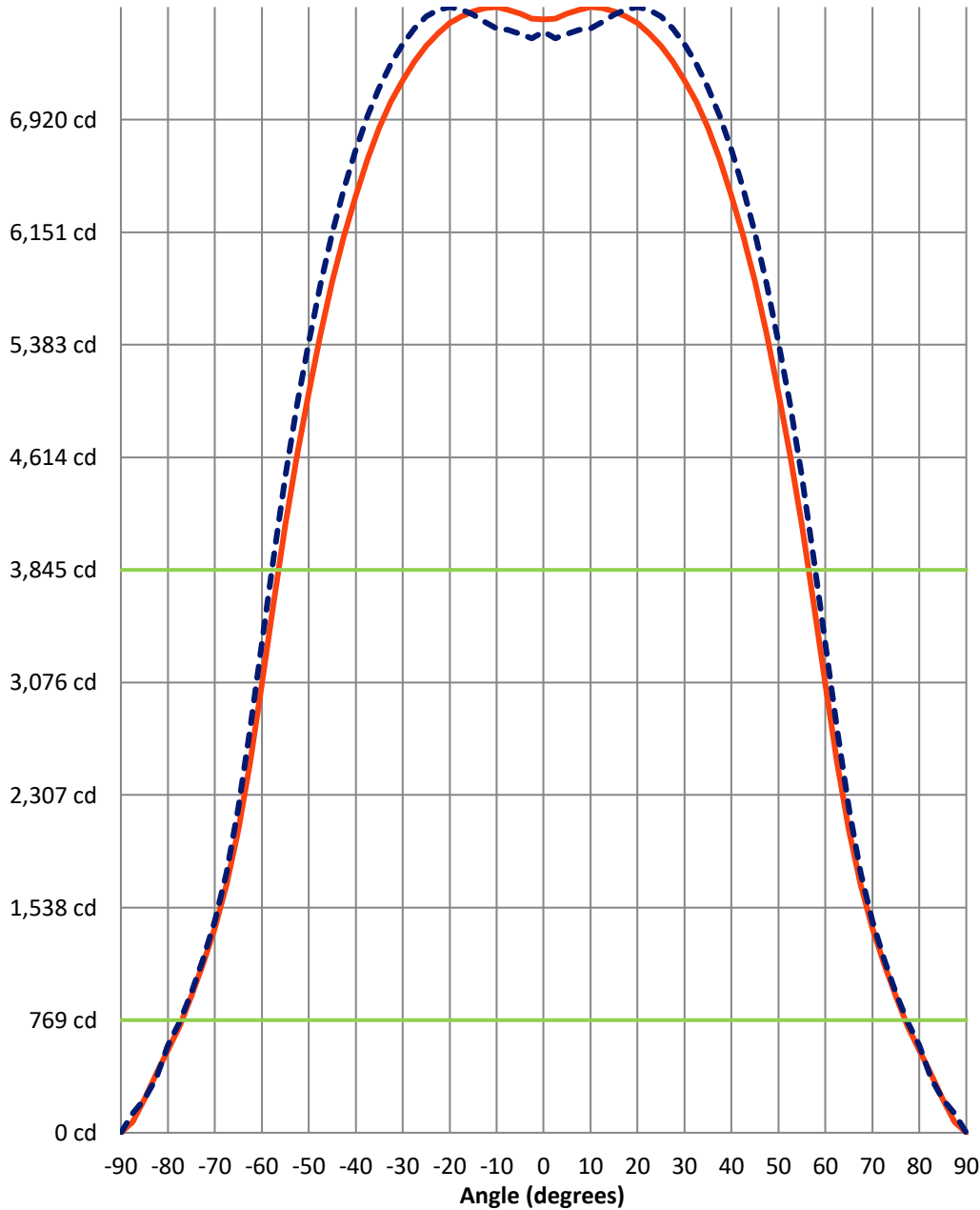
### Luminous Intensity Polar Plot



— 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: 14475.2  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 17353.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 6236.5  
 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°	62.1	67.0	69.5	72.0	74.5	76.9	79.4	76.9	74.5	74.5	72.0
85°	166.3	171.3	173.7	191.1	208.5	218.4	230.8	228.3	228.3	225.9	223.4
82.5°	332.6	347.5	359.9	377.3	387.2	402.1	412.0	404.6	399.6	389.7	382.2
80°	590.7	595.7	598.2	600.6	588.2	585.8	580.8	573.3	563.4	551.0	538.6
77.5°	752.1	757.0	762.0	757.0	754.5	752.1	744.6	737.2	727.2	717.3	702.4
75°	995.3	995.3	995.3	987.8	982.9	975.4	963.0	950.6	933.2	913.4	891.0
72.5°	1253.4	1250.9	1248.5	1233.6	1221.2	1206.3	1188.9	1174.0	1154.1	1131.8	1102.0
70°	1524.0	1528.9	1531.4	1511.6	1496.7	1476.8	1454.5	1427.2	1397.4	1365.1	1322.9
67.5°	1896.3	1891.3	1886.3	1859.0	1839.2	1811.9	1779.6	1739.9	1695.2	1645.6	1586.0
65°	2357.9	2365.4	2350.5	2323.2	2285.9	2241.3	2191.6	2134.5	2067.5	1993.1	1908.7
62.5°	2916.4	2928.8	2911.4	2876.7	2829.5	2769.9	2700.4	2618.5	2526.7	2422.5	2318.2
60°	3551.8	3549.3	3517.0	3469.9	3407.8	3333.4	3256.4	3167.1	3062.8	2941.2	2814.6
57.5°	4135.1	4130.1	4090.4	4043.2	3981.2	3901.7	3819.8	3725.5	3616.3	3487.2	3340.8
55°	4658.8	4653.8	4614.1	4564.4	4499.9	4420.5	4346.0	4256.7	4149.9	4013.4	3857.1
52.5°	5122.9	5125.4	5090.6	5036.0	4966.5	4889.6	4817.6	4728.3	4626.5	4490.0	4338.6
50°	5549.8	5547.3	5510.1	5460.5	5395.9	5321.5	5249.5	5160.1	5053.4	4921.9	4775.4
47.5°	5946.9	5942.0	5899.8	5845.2	5778.2	5713.6	5646.6	5567.2	5455.5	5323.9	5177.5
45°	6279.5	6269.6	6227.4	6175.3	6110.7	6053.7	5994.1	5934.5	5815.4	5693.8	5554.8
42.5°	6565.0	6562.5	6520.3	6468.2	6403.6	6354.0	6299.4	6224.9	6125.6	6013.9	5877.4
40°	6838.0	6818.1	6775.9	6726.3	6666.7	6624.5	6569.9	6495.5	6398.7	6289.4	6157.9
37.5°	7041.5	7044.0	6999.3	6944.7	6892.6	6852.9	6803.2	6733.7	6649.3	6542.6	6411.1
35°	7235.1	7222.7	7185.5	7138.3	7091.1	7046.5	6994.3	6934.8	6865.3	6766.0	6641.9
32.5°	7361.7	7379.1	7334.4	7284.7	7257.4	7222.7	7168.1	7106.0	7044.0	6944.7	6833.0
30°	7500.7	7485.8	7451.0	7408.8	7389.0	7366.6	7319.5	7259.9	7187.9	7098.6	6994.3
27.5°	7597.5	7590.0	7547.8	7508.1	7498.2	7478.3	7441.1	7389.0	7317.0	7230.1	7133.3
25°	7639.7	7644.6	7604.9	7582.6	7582.6	7570.2	7540.4	7495.7	7423.7	7344.3	7250.0
22.5°	7659.5	7654.6	7627.3	7622.3	7634.7	7624.8	7612.4	7572.7	7508.1	7443.6	7364.2
20°	7671.9	7637.2	7612.4	7632.2	7647.1	7644.6	7634.7	7609.9	7580.1	7525.5	7456.0
17.5°	7644.6	7622.3	7592.5	7622.3	7654.6	7657.0	7647.1	7632.2	7624.8	7590.0	7528.0
15°	7577.6	7560.2	7565.2	7595.0	7632.2	7644.6	7652.1	7669.5	7659.5	7632.2	7577.6
12.5°	7532.9	7510.6	7532.9	7562.7	7582.6	7590.0	7649.6	7681.9	7681.9	7657.0	7622.3
10°	7520.5	7475.9	7505.6	7532.9	7542.9	7587.5	7637.2	7671.9	7689.3	7669.5	7624.8
7.5°	7495.7	7465.9	7478.3	7490.7	7547.8	7580.1	7607.4	7644.6	7669.5	7667.0	7627.3
5°	7483.3	7446.1	7451.0	7503.2	7542.9	7565.2	7575.1	7607.4	7644.6	7652.1	7622.3
2.5°	7451.0	7433.7	7470.9	7475.9	7505.6	7523.0	7532.9	7562.7	7609.9	7627.3	7614.9
0°	7433.7	7408.8	7384.0	7403.9	7453.5	7490.7	7505.6	7550.3	7604.9	7622.3	7595.0



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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°	69.5	67.0	64.5	62.1	64.5	64.5	64.5	62.1	64.5	62.1	62.1
85°	215.9	206.0	198.6	188.6	178.7	171.3	161.3	151.4	148.9	146.4	141.5
82.5°	372.3	359.9	347.5	332.6	317.7	300.3	283.0	263.1	258.1	253.2	245.7
80°	523.7	506.3	489.0	471.6	456.7	439.3	419.5	397.1	382.2	369.8	354.9
77.5°	682.6	657.7	632.9	603.1	585.8	568.4	548.5	526.2	503.9	484.0	461.7
75°	863.7	836.4	811.6	781.8	749.6	717.3	685.0	655.3	623.0	593.2	563.4
72.5°	1064.8	1025.1	985.4	948.1	908.4	868.7	826.5	786.8	747.1	707.4	665.2
70°	1275.8	1226.1	1176.5	1126.8	1074.7	1022.6	973.0	923.3	873.7	821.6	774.4
67.5°	1524.0	1466.9	1402.3	1332.8	1255.9	1188.9	1124.4	1064.8	1005.2	945.7	886.1
65°	1834.2	1754.8	1667.9	1573.6	1484.3	1394.9	1300.6	1211.2	1141.7	1072.2	1005.2
62.5°	2216.4	2104.8	1983.1	1861.5	1752.3	1635.7	1526.4	1409.8	1300.6	1201.3	1119.4
60°	2673.1	2521.7	2372.8	2216.4	2065.0	1906.2	1767.2	1623.2	1486.7	1365.1	1246.0
57.5°	3177.0	3000.8	2822.1	2630.9	2424.9	2238.8	2050.2	1861.5	1700.2	1538.9	1404.8
55°	3688.3	3502.1	3301.1	3085.2	2859.3	2621.0	2365.4	2154.4	1933.5	1744.9	1571.1
52.5°	4174.8	3981.2	3772.7	3574.1	3303.6	3030.6	2750.1	2472.1	2214.0	1973.2	1762.2
50°	4609.1	4420.5	4219.4	3988.6	3737.9	3447.5	3134.8	2822.1	2516.8	2233.8	1970.7
47.5°	5006.2	4822.6	4621.5	4390.7	4162.4	3839.7	3524.5	3179.5	2839.4	2514.3	2206.5
45°	5378.5	5192.4	4983.9	4763.0	4499.9	4212.0	3886.9	3539.4	3174.5	2809.7	2454.7
42.5°	5716.1	5530.0	5319.0	5090.6	4830.0	4544.6	4229.4	3879.4	3512.1	3114.9	2725.3
40°	6011.5	5830.3	5626.7	5388.5	5145.2	4844.9	4534.7	4202.1	3822.3	3422.7	2993.3
37.5°	6269.6	6100.8	5899.8	5664.0	5405.8	5137.8	4817.6	4485.0	4142.5	3708.1	3268.8
35°	6497.9	6341.6	6135.6	5912.2	5659.0	5376.1	5075.7	4750.6	4380.8	3973.7	3546.8
32.5°	6696.5	6537.7	6349.0	6125.6	5879.9	5614.3	5306.6	4978.9	4629.0	4214.5	3750.3
30°	6865.3	6711.4	6532.7	6321.7	6085.9	5822.8	5522.5	5192.4	4835.0	4423.0	3963.8
27.5°	7011.7	6865.3	6691.5	6495.5	6269.6	6016.4	5713.6	5381.0	5016.2	4619.0	4159.9
25°	7138.3	6996.8	6835.5	6649.3	6426.0	6177.8	5892.3	5544.8	5180.0	4780.4	4326.2
22.5°	7252.5	7116.0	6954.6	6773.4	6569.9	6321.7	6033.8	5688.8	5319.0	4924.3	4477.6
20°	7354.2	7227.7	7068.8	6882.7	6679.1	6428.4	6143.0	5815.4	5443.1	5055.9	4614.1
17.5°	7436.1	7324.5	7165.6	6969.5	6766.0	6522.8	6244.8	5944.4	5549.8	5167.6	4728.3
15°	7493.2	7384.0	7240.1	7041.5	6842.9	6602.2	6324.2	6013.9	5646.6	5256.9	4822.6
12.5°	7532.9	7416.3	7282.3	7098.6	6900.0	6661.8	6391.2	6085.9	5728.5	5336.4	4904.5
10°	7542.9	7436.1	7302.1	7138.3	6944.7	6713.9	6448.3	6145.5	5795.5	5398.4	4971.5
7.5°	7547.8	7446.1	7324.5	7168.1	6977.0	6753.6	6490.5	6192.7	5845.2	5450.5	5021.1
5°	7545.4	7448.6	7339.3	7187.9	6996.8	6775.9	6517.8	6224.9	5879.9	5485.3	5058.4
2.5°	7537.9	7451.0	7349.3	7202.8	7019.2	6800.7	6545.1	6262.1	5917.1	5515.1	5088.1
0°	7557.8	7483.3	7354.2	7197.9	7024.1	6800.7	6542.6	6267.1	5922.1	5512.6	5085.7





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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°	62.1	59.6	59.6	57.1	54.6	52.1	47.2	44.7	39.7	32.3	24.8
85°	134.0	126.6	119.1	114.2	109.2	104.2	96.8	89.4	79.4	64.5	49.6
82.5°	235.8	220.9	206.0	188.6	173.7	158.8	146.4	134.0	119.1	96.8	74.5
80°	337.6	315.2	292.9	268.1	245.7	220.9	198.6	178.7	158.8	129.1	99.3
77.5°	439.3	409.5	377.3	347.5	315.2	283.0	250.7	223.4	193.6	158.8	124.1
75°	533.6	498.9	469.1	426.9	387.2	345.0	302.8	265.6	228.3	186.2	148.9
72.5°	628.0	583.3	541.1	501.4	456.7	404.6	357.4	310.3	263.1	213.5	168.8
70°	722.3	667.7	615.5	568.4	518.7	466.6	409.5	354.9	297.8	238.3	186.2
67.5°	819.1	757.0	697.4	637.9	580.8	521.2	461.7	399.6	332.6	263.1	206.0
65°	925.8	848.9	776.9	709.9	642.8	578.3	511.3	444.3	369.8	290.4	223.4
62.5°	1032.5	948.1	863.7	779.4	704.9	632.9	560.9	486.5	404.6	320.2	240.8
60°	1146.7	1049.9	953.1	858.8	766.9	687.5	608.1	528.7	441.8	347.5	258.1
57.5°	1273.3	1156.6	1047.4	940.7	836.4	742.1	655.3	570.9	474.1	374.8	278.0
55°	1417.2	1273.3	1144.2	1025.1	910.9	796.7	702.4	615.5	511.3	402.1	300.3
52.5°	1568.6	1402.3	1246.0	1111.9	990.3	861.3	747.1	650.3	548.5	429.4	320.2
50°	1744.9	1533.9	1360.1	1196.3	1059.8	925.8	794.2	690.0	585.8	461.7	340.0
47.5°	1926.1	1692.7	1474.3	1295.6	1134.3	987.8	848.9	724.8	620.5	491.4	359.9
45°	2137.0	1844.1	1603.4	1392.4	1206.3	1052.4	903.5	762.0	650.3	521.2	379.7
42.5°	2340.5	2022.8	1737.4	1499.1	1288.2	1114.4	953.1	801.7	680.1	551.0	397.1
40°	2581.3	2201.6	1866.5	1600.9	1370.1	1174.0	1002.7	843.9	707.4	578.3	414.5
37.5°	2812.1	2382.7	2022.8	1712.6	1449.5	1233.6	1052.4	883.6	732.2	605.6	436.8
35°	3040.5	2583.8	2171.8	1816.8	1531.4	1300.6	1102.0	920.8	757.0	628.0	456.7
32.5°	3258.9	2772.4	2323.2	1933.5	1620.8	1362.6	1146.7	955.6	781.8	647.8	476.5
30°	3462.4	2951.1	2472.1	2052.6	1702.7	1419.7	1188.9	990.3	811.6	665.2	496.4
27.5°	3648.6	3124.9	2621.0	2164.3	1779.6	1471.8	1233.6	1022.6	836.4	682.6	513.8
25°	3817.4	3281.2	2757.5	2266.1	1849.1	1528.9	1275.8	1054.9	858.8	697.4	528.7
22.5°	3976.2	3425.2	2881.6	2367.9	1933.5	1586.0	1315.5	1084.6	881.1	712.3	543.6
20°	4115.2	3556.7	3000.8	2469.6	2008.0	1638.1	1350.2	1111.9	901.0	722.3	558.5
17.5°	4226.9	3673.4	3107.5	2559.0	2072.5	1682.8	1380.0	1136.8	918.3	734.7	568.4
15°	4326.2	3772.7	3196.8	2635.9	2129.6	1720.0	1407.3	1156.6	933.2	742.1	580.8
12.5°	4410.6	3857.1	3273.8	2702.9	2179.2	1752.3	1429.6	1171.5	945.7	749.6	588.2
10°	4480.1	3924.1	3338.3	2755.0	2218.9	1777.1	1447.0	1186.4	955.6	757.0	595.7
7.5°	4532.2	3973.7	3385.5	2799.7	2251.2	1794.5	1461.9	1196.3	965.5	762.0	608.1
5°	4571.9	4015.9	3422.7	2829.5	2276.0	1819.3	1479.3	1208.7	975.4	766.9	608.1
2.5°	4601.7	4050.7	3452.5	2854.3	2295.9	1814.4	1479.3	1206.3	975.4	766.9	605.6
0°	4596.7	4053.1	3450.0	2854.3	2295.9	1809.4	1479.3	1203.8	975.4	766.9	605.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.4	12.4	5.0	0.0
85°	37.2	24.8	12.4	0.0
82.5°	54.6	34.7	17.4	0.0
80°	72.0	47.2	22.3	0.0
77.5°	91.8	59.6	29.8	0.0
75°	109.2	69.5	34.7	0.0
72.5°	126.6	81.9	39.7	0.0
70°	141.5	91.8	44.7	0.0
67.5°	156.4	104.2	52.1	0.0
65°	168.8	114.2	57.1	0.0
62.5°	178.7	126.6	62.1	0.0
60°	191.1	136.5	67.0	0.0
57.5°	201.0	144.0	72.0	0.0
55°	211.0	148.9	76.9	0.0
52.5°	220.9	156.4	81.9	0.0
50°	230.8	163.8	86.9	0.0
47.5°	240.8	168.8	89.4	0.0
45°	255.6	176.2	94.3	0.0
42.5°	268.1	181.2	99.3	0.0
40°	280.5	186.2	101.8	0.0
37.5°	292.9	191.1	106.7	0.0
35°	305.3	196.1	109.2	0.0
32.5°	315.2	201.0	111.7	0.0
30°	325.1	206.0	114.2	0.0
27.5°	335.1	208.5	116.7	0.0
25°	342.5	213.5	119.1	0.0
22.5°	350.0	215.9	121.6	0.0
20°	354.9	218.4	124.1	0.0
17.5°	362.4	220.9	126.6	0.0
15°	364.9	223.4	131.5	0.0
12.5°	369.8	225.9	131.5	0.0
10°	372.3	228.3	131.5	0.0
7.5°	377.3	228.3	131.5	0.0
5°	374.8	228.3	131.5	0.0
2.5°	374.8	228.3	131.5	0.0
0°	372.3	228.3	131.5	0.0

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