

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: P628480

Luminaire Tested: **IFLD-S-SA6B-935-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628480  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-935-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

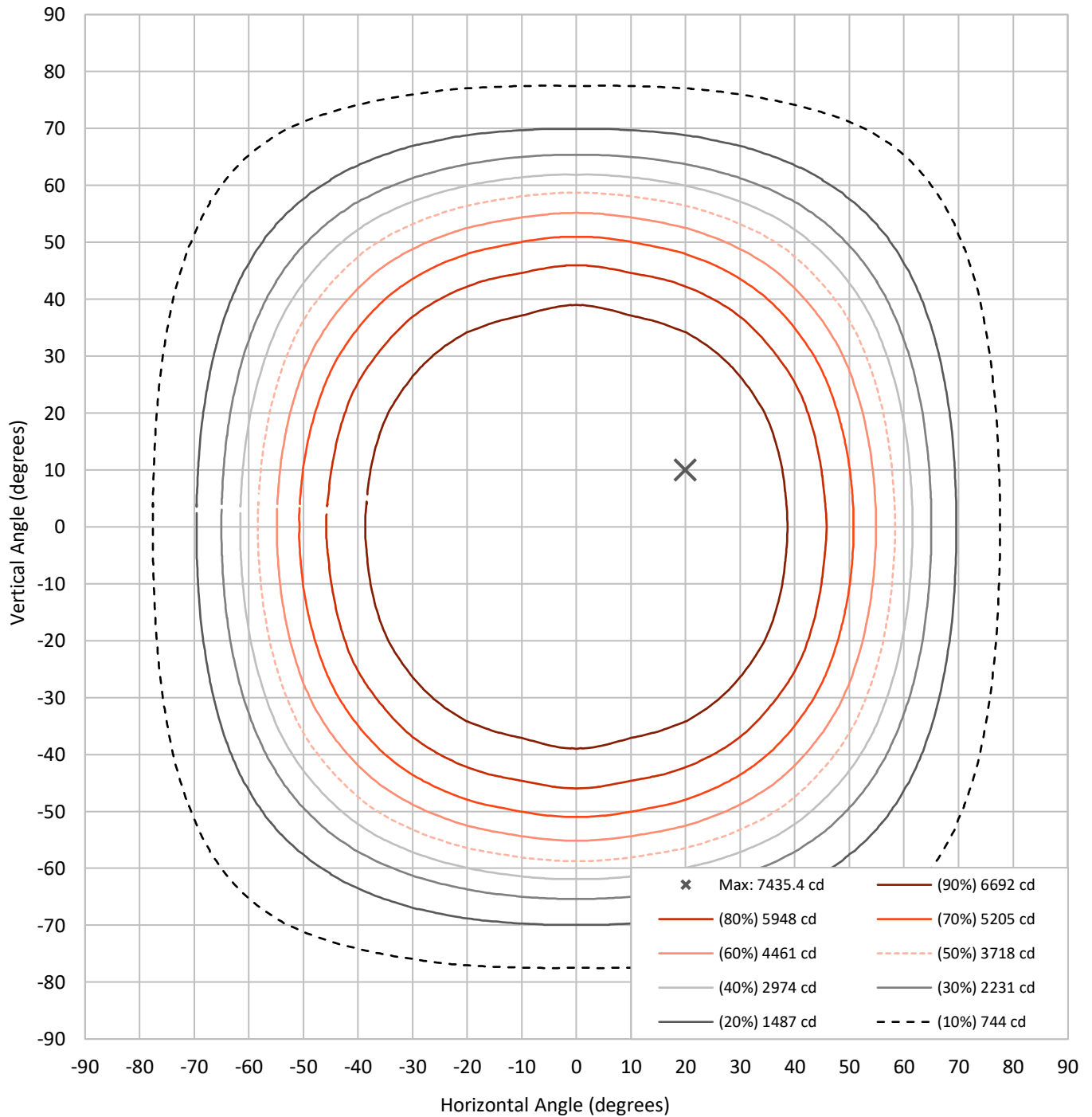
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22810.6 lumens	Max Intensity:	7435.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	93.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	13997.1 lumens	Field Lumens:	16780.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 244.9  
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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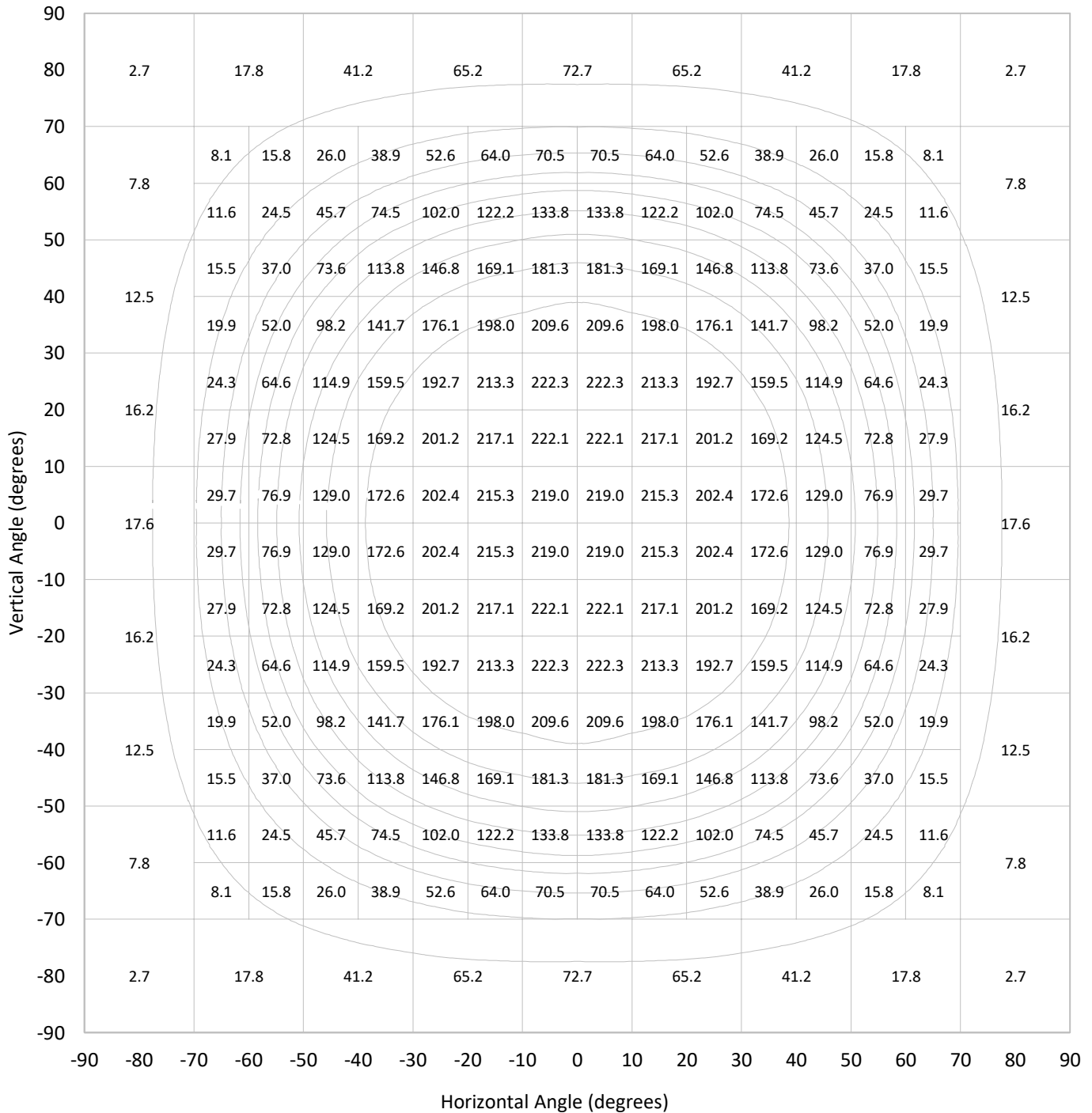
### Iso-Candela Plot





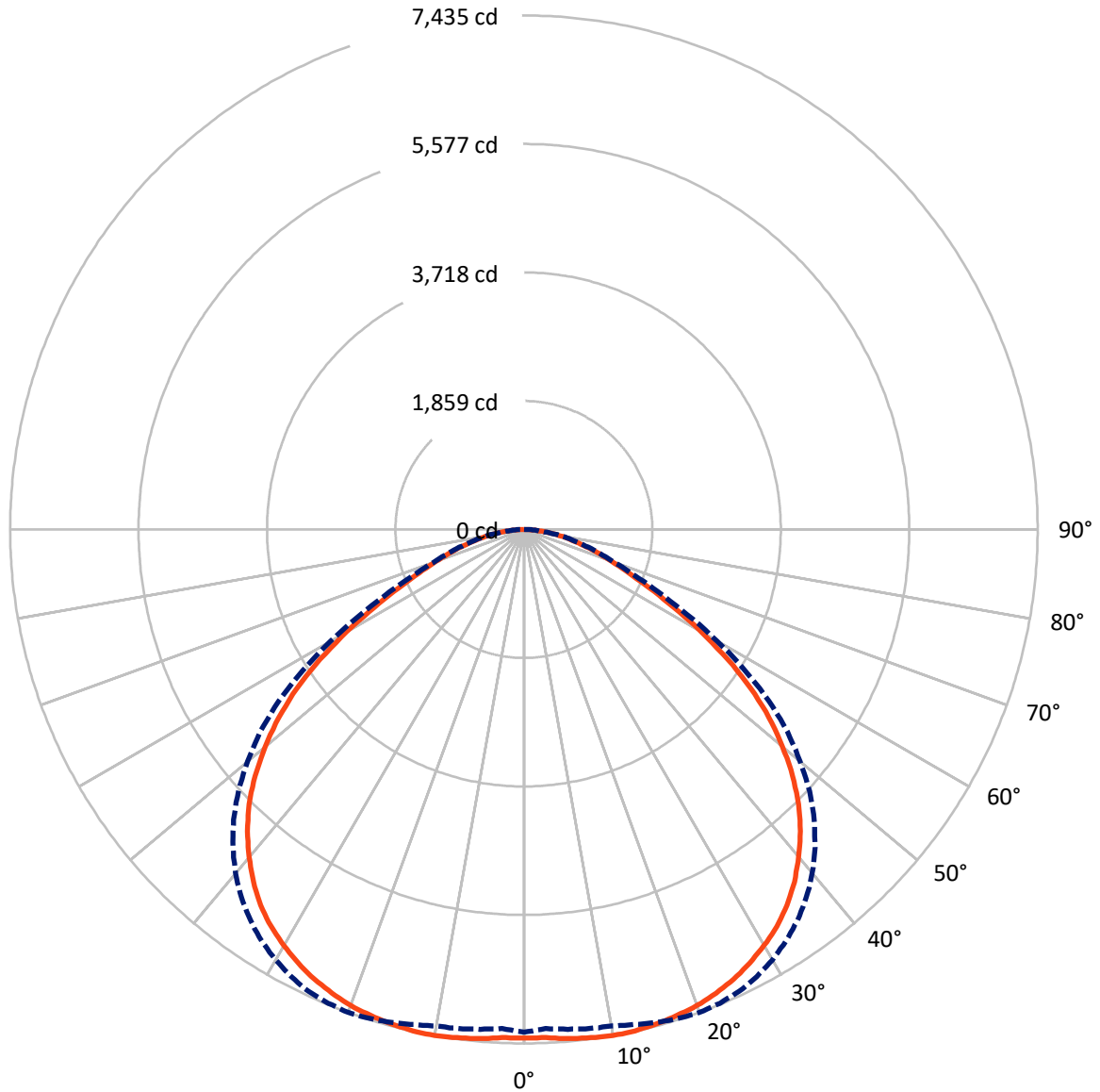
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### Lumen Table



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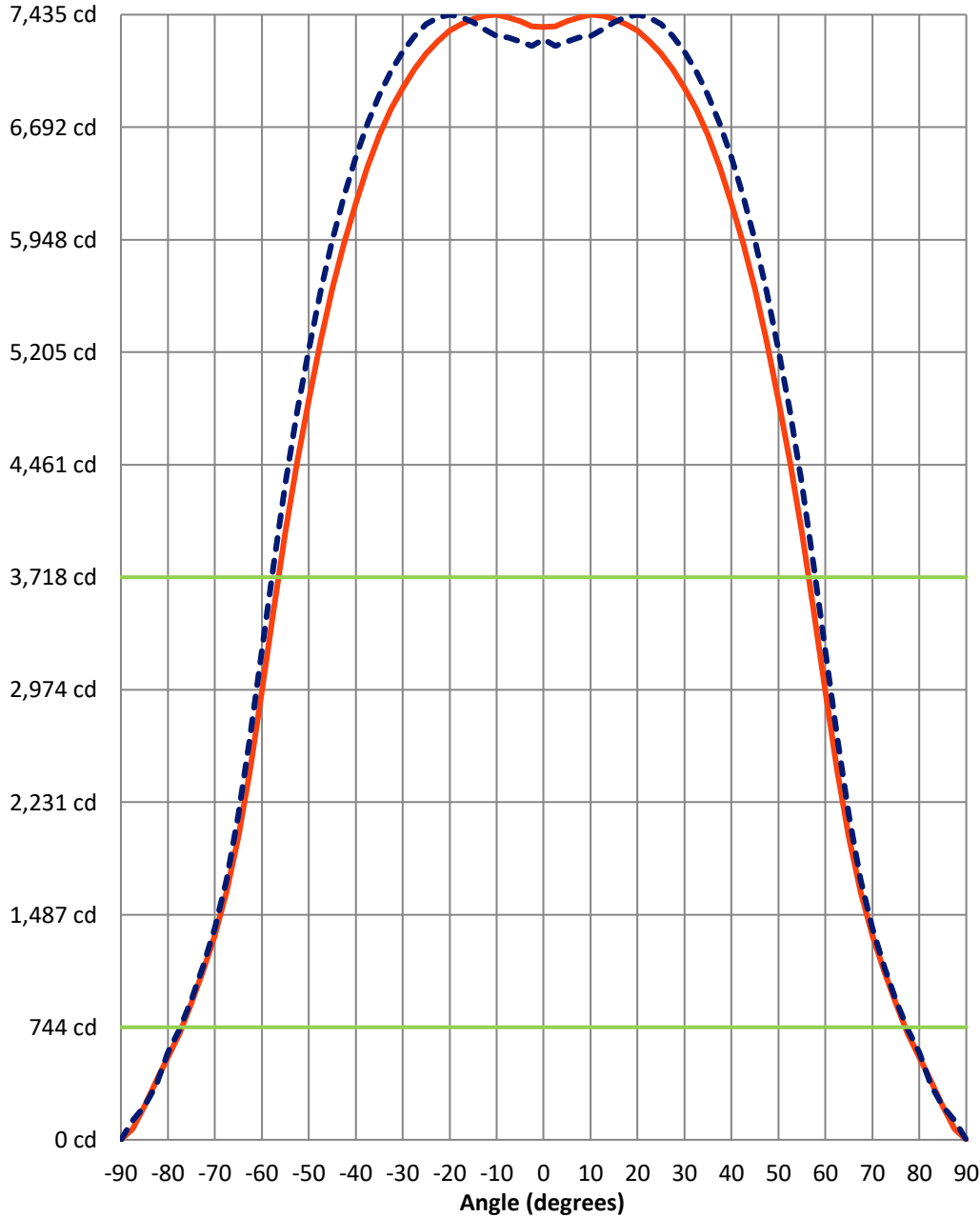
### Luminous Intensity Polar Plot



— 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: 13997.1  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 16780.1  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 6030.5  
 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°	60.0	64.8	67.2	69.6	72.0	74.4	76.8	74.4	72.0	72.0	69.6
85°	160.8	165.6	168.0	184.8	201.6	211.2	223.2	220.8	220.8	218.4	216.0
82.5°	321.6	336.0	348.0	364.8	374.4	388.8	398.4	391.2	386.4	376.8	369.6
80°	571.2	576.0	578.4	580.8	568.8	566.4	561.6	554.4	544.8	532.8	520.8
77.5°	727.2	732.0	736.8	732.0	729.6	727.2	720.0	712.8	703.2	693.6	679.2
75°	962.4	962.4	962.4	955.2	950.4	943.2	931.2	919.2	902.4	883.2	861.6
72.5°	1212.0	1209.6	1207.2	1192.8	1180.8	1166.4	1149.6	1135.2	1116.0	1094.4	1065.6
70°	1473.6	1478.4	1480.8	1461.6	1447.2	1428.0	1406.4	1380.0	1351.2	1320.0	1279.2
67.5°	1833.6	1828.8	1824.0	1797.6	1778.4	1752.0	1720.8	1682.4	1639.2	1591.2	1533.6
65°	2280.0	2287.2	2272.8	2246.4	2210.4	2167.2	2119.2	2064.0	1999.2	1927.2	1845.6
62.5°	2820.1	2832.1	2815.3	2781.7	2736.1	2678.5	2611.3	2532.1	2443.3	2342.4	2241.6
60°	3434.5	3432.1	3400.9	3355.3	3295.3	3223.3	3148.9	3062.5	2961.7	2844.1	2721.7
57.5°	3998.5	3993.7	3955.3	3909.7	3849.7	3772.9	3693.7	3602.5	3496.9	3372.1	3230.5
55°	4504.9	4500.1	4461.7	4413.7	4351.3	4274.5	4202.5	4116.1	4012.9	3880.9	3729.7
52.5°	4953.7	4956.1	4922.5	4869.7	4802.5	4728.1	4658.5	4572.1	4473.7	4341.7	4195.3
50°	5366.5	5364.1	5328.1	5280.1	5217.7	5145.7	5076.1	4989.7	4886.5	4759.3	4617.7
47.5°	5750.5	5745.7	5704.9	5652.1	5587.3	5524.9	5460.1	5383.3	5275.3	5148.1	5006.5
45°	6072.1	6062.5	6021.7	5971.3	5908.9	5853.7	5796.1	5738.5	5623.3	5505.7	5371.3
42.5°	6348.1	6345.7	6304.9	6254.5	6192.1	6144.1	6091.3	6019.3	5923.3	5815.3	5683.3
40°	6612.1	6592.9	6552.1	6504.1	6446.5	6405.7	6352.9	6280.9	6187.3	6081.7	5954.5
37.5°	6808.9	6811.3	6768.1	6715.3	6664.9	6626.5	6578.5	6511.3	6429.7	6326.5	6199.3
35°	6996.1	6984.1	6948.1	6902.5	6856.9	6813.7	6763.3	6705.7	6638.5	6542.5	6422.5
32.5°	7118.5	7135.3	7092.1	7044.1	7017.7	6984.1	6931.3	6871.3	6811.3	6715.3	6607.3
30°	7253.0	7238.6	7204.9	7164.1	7144.9	7123.3	7077.7	7020.1	6950.5	6864.1	6763.3
27.5°	7346.6	7339.4	7298.6	7260.2	7250.6	7231.4	7195.3	7144.9	7075.3	6991.3	6897.7
25°	7387.4	7392.2	7353.8	7332.2	7332.2	7320.2	7291.4	7248.2	7178.5	7101.7	7010.5
22.5°	7406.6	7401.8	7375.4	7370.6	7382.6	7373.0	7361.0	7322.6	7260.2	7197.7	7120.9
20°	7418.6	7385.0	7361.0	7380.2	7394.6	7392.2	7382.6	7358.6	7329.8	7277.0	7209.7
17.5°	7392.2	7370.6	7341.8	7370.6	7401.8	7404.2	7394.6	7380.2	7373.0	7339.4	7279.4
15°	7327.4	7310.6	7315.4	7344.2	7380.2	7392.2	7399.4	7416.2	7406.6	7380.2	7327.4
12.5°	7284.2	7262.6	7284.2	7313.0	7332.2	7339.4	7397.0	7428.2	7428.2	7404.2	7370.6
10°	7272.2	7229.0	7257.8	7284.2	7293.8	7337.0	7385.0	7418.6	7435.4	7416.2	7373.0
7.5°	7248.2	7219.4	7231.4	7243.4	7298.6	7329.8	7356.2	7392.2	7416.2	7413.8	7375.4
5°	7236.2	7200.1	7204.9	7255.4	7293.8	7315.4	7325.0	7356.2	7392.2	7399.4	7370.6
2.5°	7204.9	7188.1	7224.2	7229.0	7257.8	7274.6	7284.2	7313.0	7358.6	7375.4	7363.4
0°	7188.1	7164.1	7140.1	7159.3	7207.3	7243.4	7257.8	7301.0	7353.8	7370.6	7344.2



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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°	67.2	64.8	62.4	60.0	62.4	62.4	62.4	60.0	62.4	60.0	60.0
85°	208.8	199.2	192.0	182.4	172.8	165.6	156.0	146.4	144.0	141.6	136.8
82.5°	360.0	348.0	336.0	321.6	307.2	290.4	273.6	254.4	249.6	244.8	237.6
80°	506.4	489.6	472.8	456.0	441.6	424.8	405.6	384.0	369.6	357.6	343.2
77.5°	660.0	636.0	612.0	583.2	566.4	549.6	530.4	508.8	487.2	468.0	446.4
75°	835.2	808.8	784.8	756.0	724.8	693.6	662.4	633.6	602.4	573.6	544.8
72.5°	1029.6	991.2	952.8	916.8	878.4	840.0	799.2	760.8	722.4	684.0	643.2
70°	1233.6	1185.6	1137.6	1089.6	1039.2	988.8	940.8	892.8	844.8	794.4	748.8
67.5°	1473.6	1418.4	1356.0	1288.8	1214.4	1149.6	1087.2	1029.6	972.0	914.4	856.8
65°	1773.6	1696.8	1612.8	1521.6	1435.2	1348.8	1257.6	1171.2	1104.0	1036.8	972.0
62.5°	2143.2	2035.2	1917.6	1800.0	1694.4	1581.6	1476.0	1363.2	1257.6	1161.6	1082.4
60°	2584.9	2438.5	2294.4	2143.2	1996.8	1843.2	1708.8	1569.6	1437.6	1320.0	1204.8
57.5°	3072.1	2901.7	2728.9	2544.1	2344.8	2164.8	1982.4	1800.0	1644.0	1488.0	1358.4
55°	3566.5	3386.5	3192.1	2983.3	2764.9	2534.5	2287.2	2083.2	1869.6	1687.2	1519.2
52.5°	4036.9	3849.7	3648.1	3456.1	3194.5	2930.5	2659.3	2390.4	2140.8	1908.0	1704.0
50°	4456.9	4274.5	4080.1	3856.9	3614.5	3333.7	3031.3	2728.9	2433.7	2160.0	1905.6
47.5°	4840.9	4663.3	4468.9	4245.7	4024.9	3712.9	3408.1	3074.5	2745.7	2431.3	2133.6
45°	5200.9	5020.9	4819.3	4605.7	4351.3	4072.9	3758.5	3422.5	3069.7	2716.9	2373.6
42.5°	5527.3	5347.3	5143.3	4922.5	4670.5	4394.5	4089.7	3751.3	3396.1	3012.1	2635.3
40°	5812.9	5637.7	5440.9	5210.5	4975.3	4684.9	4384.9	4063.3	3696.1	3309.7	2894.5
37.5°	6062.5	5899.3	5704.9	5476.9	5227.3	4968.1	4658.5	4336.9	4005.7	3585.7	3160.9
35°	6283.3	6132.1	5932.9	5716.9	5472.1	5198.5	4908.1	4593.7	4236.1	3842.5	3429.7
32.5°	6475.3	6321.7	6139.3	5923.3	5685.7	5428.9	5131.3	4814.5	4476.1	4075.3	3626.5
30°	6638.5	6489.7	6316.9	6112.9	5884.9	5630.5	5340.1	5020.9	4675.3	4276.9	3832.9
27.5°	6780.1	6638.5	6470.5	6280.9	6062.5	5817.7	5524.9	5203.3	4850.5	4466.5	4022.5
25°	6902.5	6765.7	6609.7	6429.7	6213.7	5973.7	5697.7	5361.7	5008.9	4622.5	4183.3
22.5°	7012.9	6880.9	6724.9	6549.7	6352.9	6112.9	5834.5	5500.9	5143.3	4761.7	4329.7
20°	7111.3	6988.9	6835.3	6655.3	6458.5	6216.1	5940.1	5623.3	5263.3	4888.9	4461.7
17.5°	7190.5	7082.5	6928.9	6739.3	6542.5	6307.3	6038.5	5748.1	5366.5	4996.9	4572.1
15°	7245.8	7140.1	7000.9	6808.9	6616.9	6384.1	6115.3	5815.3	5460.1	5083.3	4663.3
12.5°	7284.2	7171.3	7041.7	6864.1	6672.1	6441.7	6180.1	5884.9	5539.3	5160.1	4742.5
10°	7293.8	7190.5	7060.9	6902.5	6715.3	6492.1	6235.3	5942.5	5604.1	5220.1	4807.3
7.5°	7298.6	7200.1	7082.5	6931.3	6746.5	6530.5	6276.1	5988.1	5652.1	5270.5	4855.3
5°	7296.2	7202.5	7096.9	6950.5	6765.7	6552.1	6302.5	6019.3	5685.7	5304.1	4891.3
2.5°	7289.0	7204.9	7106.5	6964.9	6787.3	6576.1	6328.9	6055.3	5721.7	5332.9	4920.1
0°	7308.2	7236.2	7111.3	6960.1	6792.1	6576.1	6326.5	6060.1	5726.5	5330.5	4917.7





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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°	60.0	57.6	57.6	55.2	52.8	50.4	45.6	43.2	38.4	31.2	24.0
85°	129.6	122.4	115.2	110.4	105.6	100.8	93.6	86.4	76.8	62.4	48.0
82.5°	228.0	213.6	199.2	182.4	168.0	153.6	141.6	129.6	115.2	93.6	72.0
80°	326.4	304.8	283.2	259.2	237.6	213.6	192.0	172.8	153.6	124.8	96.0
77.5°	424.8	396.0	364.8	336.0	304.8	273.6	242.4	216.0	187.2	153.6	120.0
75°	516.0	482.4	453.6	412.8	374.4	333.6	292.8	256.8	220.8	180.0	144.0
72.5°	607.2	564.0	523.2	484.8	441.6	391.2	345.6	300.0	254.4	206.4	163.2
70°	698.4	645.6	595.2	549.6	501.6	451.2	396.0	343.2	288.0	230.4	180.0
67.5°	792.0	732.0	674.4	616.8	561.6	504.0	446.4	386.4	321.6	254.4	199.2
65°	895.2	820.8	751.2	686.4	621.6	559.2	494.4	429.6	357.6	280.8	216.0
62.5°	998.4	916.8	835.2	753.6	681.6	612.0	542.4	470.4	391.2	309.6	232.8
60°	1108.8	1015.2	921.6	830.4	741.6	664.8	588.0	511.2	427.2	336.0	249.6
57.5°	1231.2	1118.4	1012.8	909.6	808.8	717.6	633.6	552.0	458.4	362.4	268.8
55°	1370.4	1231.2	1106.4	991.2	880.8	770.4	679.2	595.2	494.4	388.8	290.4
52.5°	1516.8	1356.0	1204.8	1075.2	957.6	832.8	722.4	628.8	530.4	415.2	309.6
50°	1687.2	1483.2	1315.2	1156.8	1024.8	895.2	768.0	667.2	566.4	446.4	328.8
47.5°	1862.4	1636.8	1425.6	1252.8	1096.8	955.2	820.8	700.8	600.0	475.2	348.0
45°	2066.4	1783.2	1550.4	1346.4	1166.4	1017.6	873.6	736.8	628.8	504.0	367.2
42.5°	2263.2	1956.0	1680.0	1449.6	1245.6	1077.6	921.6	775.2	657.6	532.8	384.0
40°	2496.1	2128.8	1804.8	1548.0	1324.8	1135.2	969.6	816.0	684.0	559.2	400.8
37.5°	2719.3	2304.0	1956.0	1656.0	1401.6	1192.8	1017.6	854.4	708.0	585.6	422.4
35°	2940.1	2498.5	2100.0	1756.8	1480.8	1257.6	1065.6	890.4	732.0	607.2	441.6
32.5°	3151.3	2680.9	2246.4	1869.6	1567.2	1317.6	1108.8	924.0	756.0	626.4	460.8
30°	3348.1	2853.7	2390.4	1984.8	1646.4	1372.8	1149.6	957.6	784.8	643.2	480.0
27.5°	3528.1	3021.7	2534.5	2092.8	1720.8	1423.2	1192.8	988.8	808.8	660.0	496.8
25°	3691.3	3172.9	2666.5	2191.2	1788.0	1478.4	1233.6	1020.0	830.4	674.4	511.2
22.5°	3844.9	3312.1	2786.5	2289.6	1869.6	1533.6	1272.0	1048.8	852.0	688.8	525.6
20°	3979.3	3439.3	2901.7	2388.0	1941.6	1584.0	1305.6	1075.2	871.2	698.4	540.0
17.5°	4087.3	3552.1	3004.9	2474.5	2004.0	1627.2	1334.4	1099.2	888.0	710.4	549.6
15°	4183.3	3648.1	3091.3	2548.9	2059.2	1663.2	1360.8	1118.4	902.4	717.6	561.6
12.5°	4264.9	3729.7	3165.7	2613.7	2107.2	1694.4	1382.4	1132.8	914.4	724.8	568.8
10°	4332.1	3794.5	3228.1	2664.1	2145.6	1718.4	1399.2	1147.2	924.0	732.0	576.0
7.5°	4382.5	3842.5	3273.7	2707.3	2176.8	1735.2	1413.6	1156.8	933.6	736.8	588.0
5°	4420.9	3883.3	3309.7	2736.1	2200.8	1759.2	1430.4	1168.8	943.2	741.6	588.0
2.5°	4449.7	3916.9	3338.5	2760.1	2220.0	1754.4	1430.4	1166.4	943.2	741.6	585.6
0°	4444.9	3919.3	3336.1	2760.1	2220.0	1749.6	1430.4	1164.0	943.2	741.6	585.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.8	12.0	4.8	0.0
85°	36.0	24.0	12.0	0.0
82.5°	52.8	33.6	16.8	0.0
80°	69.6	45.6	21.6	0.0
77.5°	88.8	57.6	28.8	0.0
75°	105.6	67.2	33.6	0.0
72.5°	122.4	79.2	38.4	0.0
70°	136.8	88.8	43.2	0.0
67.5°	151.2	100.8	50.4	0.0
65°	163.2	110.4	55.2	0.0
62.5°	172.8	122.4	60.0	0.0
60°	184.8	132.0	64.8	0.0
57.5°	194.4	139.2	69.6	0.0
55°	204.0	144.0	74.4	0.0
52.5°	213.6	151.2	79.2	0.0
50°	223.2	158.4	84.0	0.0
47.5°	232.8	163.2	86.4	0.0
45°	247.2	170.4	91.2	0.0
42.5°	259.2	175.2	96.0	0.0
40°	271.2	180.0	98.4	0.0
37.5°	283.2	184.8	103.2	0.0
35°	295.2	189.6	105.6	0.0
32.5°	304.8	194.4	108.0	0.0
30°	314.4	199.2	110.4	0.0
27.5°	324.0	201.6	112.8	0.0
25°	331.2	206.4	115.2	0.0
22.5°	338.4	208.8	117.6	0.0
20°	343.2	211.2	120.0	0.0
17.5°	350.4	213.6	122.4	0.0
15°	352.8	216.0	127.2	0.0
12.5°	357.6	218.4	127.2	0.0
10°	360.0	220.8	127.2	0.0
7.5°	364.8	220.8	127.2	0.0
5°	362.4	220.8	127.2	0.0
2.5°	362.4	220.8	127.2	0.0
0°	360.0	220.8	127.2	0.0

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