

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: P628258

Luminaire Tested: **IFLD-L-SA7B-735-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628258  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-735-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36148.8 lumens	Max Intensity:	11783.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	128.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

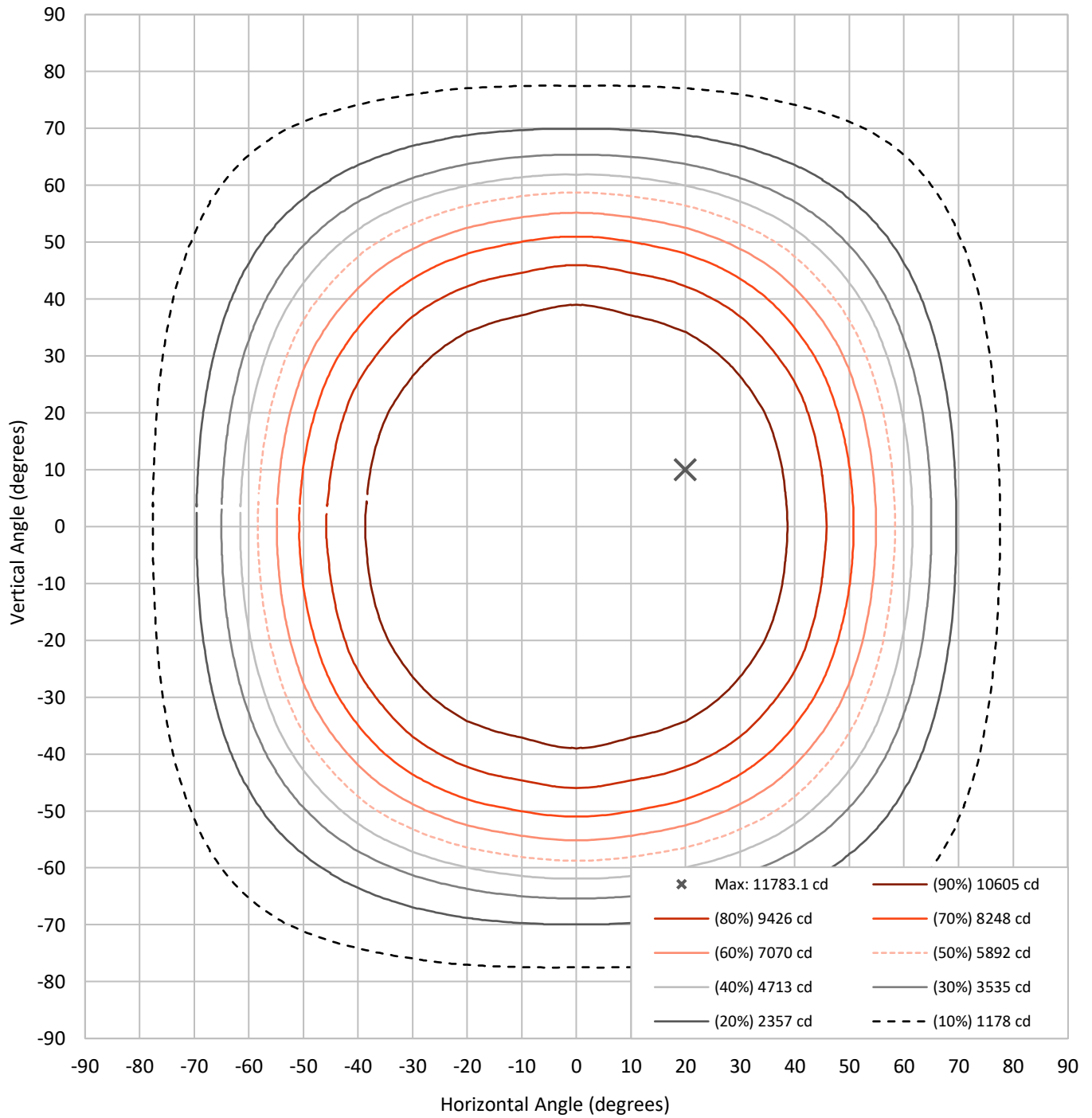
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	22181.7 lumens	Field Lumens:	26592 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 281  
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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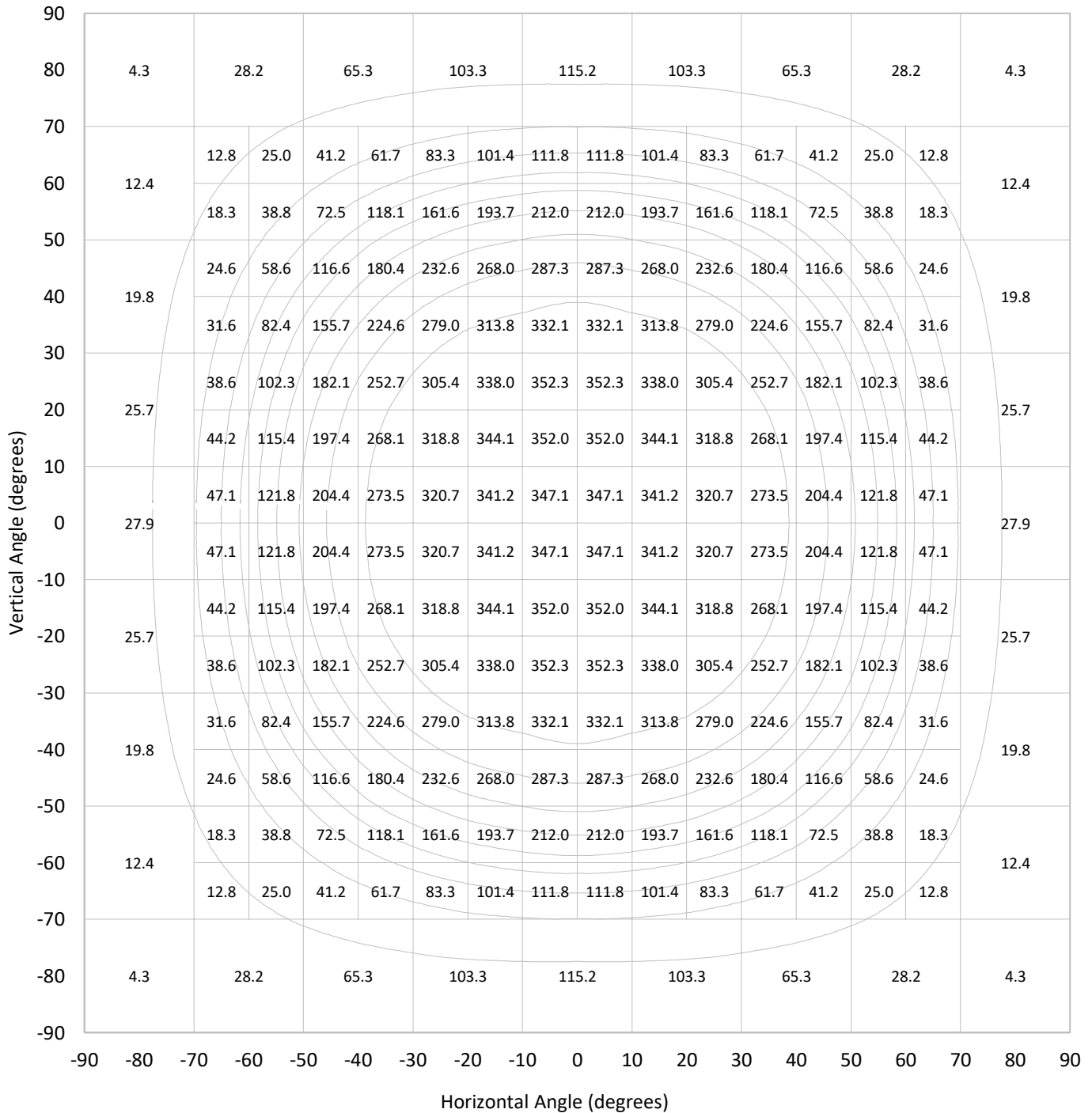
### Iso-Candela Plot





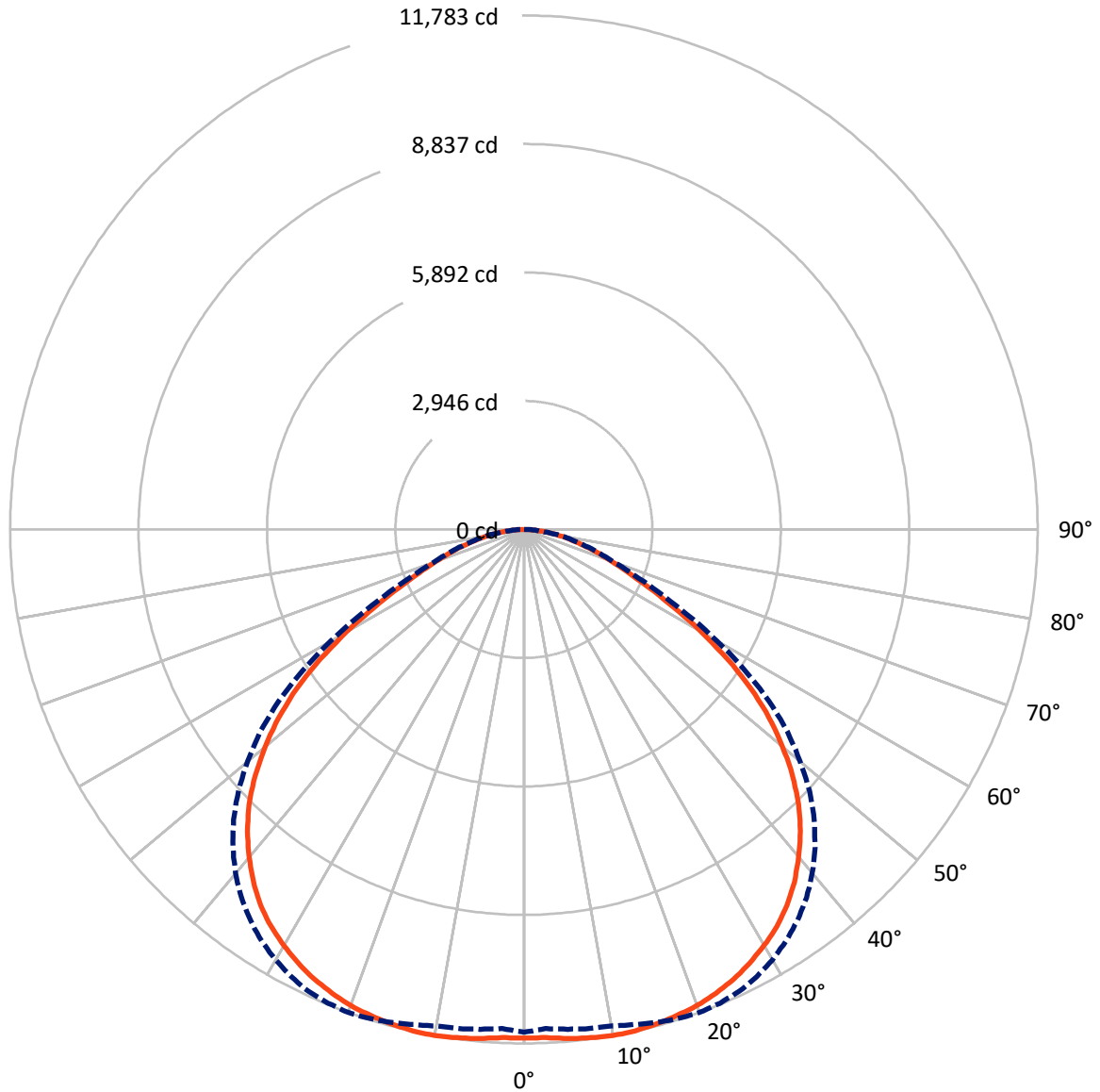
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### Lumen Table



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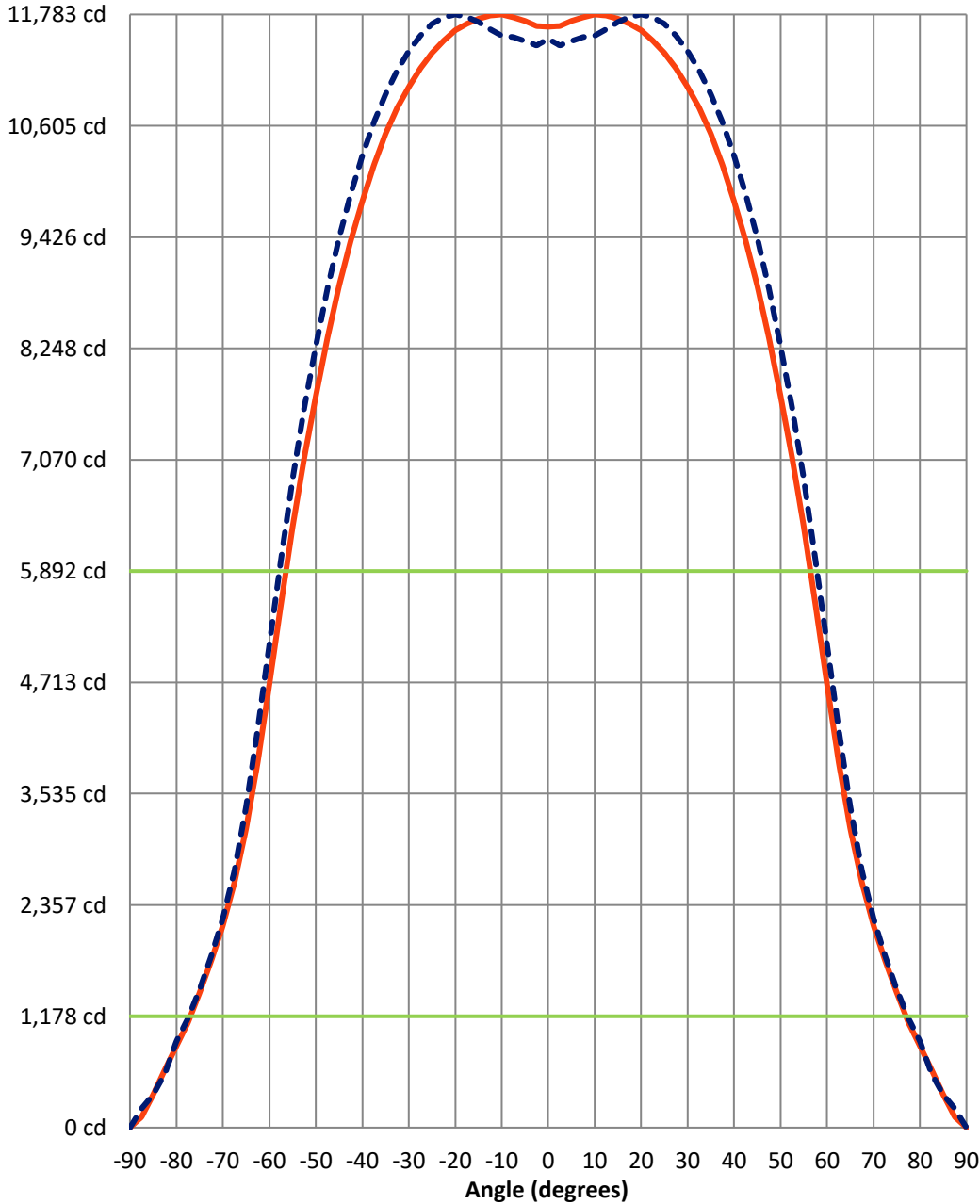
### Luminous Intensity Polar Plot



— 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: 22181.7  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 26592  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 9556.8  
 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°	95.1	102.7	106.5	110.3	114.1	117.9	121.7	117.9	114.1	114.1	110.3
85°	254.8	262.4	266.2	292.9	319.5	334.7	353.7	349.9	349.9	346.1	342.3
82.5°	509.7	532.5	551.5	578.1	593.3	616.2	631.4	620.0	612.4	597.1	585.7
80°	905.2	912.8	916.6	920.4	901.4	897.6	890.0	878.6	863.4	844.4	825.3
77.5°	1152.4	1160.0	1167.7	1160.0	1156.2	1152.4	1141.0	1129.6	1114.4	1099.2	1076.4
75°	1525.2	1525.2	1525.2	1513.8	1506.2	1494.8	1475.7	1456.7	1430.1	1399.7	1365.4
72.5°	1920.7	1916.9	1913.1	1890.3	1871.3	1848.5	1821.8	1799.0	1768.6	1734.4	1688.7
70°	2335.3	2342.9	2346.7	2316.3	2293.5	2263.0	2228.8	2187.0	2141.3	2091.9	2027.2
67.5°	2905.8	2898.2	2890.6	2848.8	2818.3	2776.5	2727.1	2666.2	2597.7	2521.7	2430.4
65°	3613.3	3624.7	3601.9	3560.0	3503.0	3434.5	3358.4	3271.0	3168.3	3054.2	2924.8
62.5°	4469.0	4488.1	4461.4	4408.2	4335.9	4244.6	4138.1	4012.6	3871.9	3712.2	3552.4
60°	5442.7	5438.9	5389.5	5317.2	5222.1	5108.0	4990.1	4853.2	4693.4	4507.1	4313.1
57.5°	6336.5	6328.9	6268.1	6195.8	6100.7	5979.0	5853.5	5709.0	5541.6	5343.8	5119.4
55°	7139.1	7131.4	7070.6	6994.5	6895.6	6773.9	6659.8	6522.9	6359.4	6150.2	5910.5
52.5°	7850.3	7854.1	7800.9	7717.2	7610.7	7492.8	7382.5	7245.6	7089.6	6880.4	6648.4
50°	8504.5	8500.7	8443.6	8367.6	8268.7	8154.6	8044.3	7907.3	7743.8	7542.2	7317.8
47.5°	9113.0	9105.4	9040.8	8957.1	8854.4	8755.5	8652.8	8531.1	8360.0	8158.4	7934.0
45°	9622.7	9607.5	9542.8	9463.0	9364.1	9276.6	9185.3	9094.0	8911.5	8725.1	8512.1
42.5°	10060.1	10056.3	9991.6	9911.8	9812.9	9736.8	9653.1	9539.0	9386.9	9215.7	9006.5
40°	10478.5	10448.0	10383.4	10307.3	10216.0	10151.4	10067.7	9953.6	9805.3	9637.9	9436.3
37.5°	10790.4	10794.2	10725.7	10642.0	10562.2	10501.3	10425.2	10318.7	10189.4	10025.9	9824.3
35°	11087.0	11068.0	11011.0	10938.7	10866.4	10798.0	10718.1	10626.8	10520.3	10368.2	10178.0
32.5°	11281.0	11307.6	11239.2	11163.1	11121.3	11068.0	10984.3	10889.2	10794.2	10642.0	10470.9
30°	11494.0	11471.2	11417.9	11353.3	11322.8	11288.6	11216.3	11125.1	11014.8	10877.8	10718.1
27.5°	11642.3	11630.9	11566.3	11505.4	11490.2	11459.8	11402.7	11322.8	11212.5	11079.4	10931.1
25°	11707.0	11714.6	11653.7	11619.5	11619.5	11600.5	11554.8	11486.4	11376.1	11254.4	11109.8
22.5°	11737.4	11729.8	11688.0	11680.4	11699.4	11684.2	11665.1	11604.3	11505.4	11406.5	11284.8
20°	11756.4	11703.2	11665.1	11695.6	11718.4	11714.6	11699.4	11661.3	11615.7	11532.0	11425.5
17.5°	11714.6	11680.4	11634.7	11680.4	11729.8	11733.6	11718.4	11695.6	11684.2	11630.9	11535.8
15°	11611.9	11585.3	11592.9	11638.5	11695.6	11714.6	11726.0	11752.6	11737.4	11695.6	11611.9
12.5°	11543.4	11509.2	11543.4	11589.1	11619.5	11630.9	11722.2	11771.6	11771.6	11733.6	11680.4
10°	11524.4	11456.0	11501.6	11543.4	11558.7	11627.1	11703.2	11756.4	11783.1	11752.6	11684.2
7.5°	11486.4	11440.7	11459.8	11478.8	11566.3	11615.7	11657.5	11714.6	11752.6	11748.8	11688.0
5°	11467.4	11410.3	11417.9	11497.8	11558.7	11592.9	11608.1	11657.5	11714.6	11726.0	11680.4
2.5°	11417.9	11391.3	11448.4	11456.0	11501.6	11528.2	11543.4	11589.1	11661.3	11688.0	11669.0
0°	11391.3	11353.3	11315.2	11345.7	11421.7	11478.8	11501.6	11570.1	11653.7	11680.4	11638.5



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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°	106.5	102.7	98.9	95.1	98.9	98.9	98.9	95.1	98.9	95.1	95.1
85°	330.9	315.7	304.3	289.1	273.8	262.4	247.2	232.0	228.2	224.4	216.8
82.5°	570.5	551.5	532.5	509.7	486.8	460.2	433.6	403.2	395.6	388.0	376.5
80°	802.5	775.9	749.3	722.7	699.8	673.2	642.8	608.6	585.7	566.7	543.9
77.5°	1045.9	1007.9	969.9	924.2	897.6	871.0	840.6	806.3	772.1	741.7	707.4
75°	1323.6	1281.8	1243.7	1198.1	1148.6	1099.2	1049.7	1004.1	954.7	909.0	863.4
72.5°	1631.7	1570.8	1510.0	1452.9	1392.1	1331.2	1266.5	1205.7	1144.8	1084.0	1019.3
70°	1955.0	1878.9	1802.8	1726.8	1646.9	1567.0	1490.9	1414.9	1338.8	1258.9	1186.7
67.5°	2335.3	2247.8	2148.9	2042.4	1924.5	1821.8	1723.0	1631.7	1540.4	1449.1	1357.8
65°	2810.7	2689.0	2555.9	2411.4	2274.5	2137.5	1993.0	1856.1	1749.6	1643.1	1540.4
62.5°	3396.5	3225.3	3038.9	2852.6	2685.2	2506.5	2339.1	2160.4	1993.0	1840.9	1715.4
60°	4096.3	3864.3	3636.1	3396.5	3164.5	2921.0	2708.0	2487.4	2278.3	2091.9	1909.3
57.5°	4868.4	4598.4	4324.5	4031.6	3716.0	3430.7	3141.6	2852.6	2605.4	2358.1	2152.7
55°	5651.9	5366.7	5058.6	4727.7	4381.6	4016.4	3624.7	3301.4	2962.9	2673.8	2407.6
52.5°	6397.4	6100.7	5781.2	5477.0	5062.4	4644.0	4214.2	3788.2	3392.7	3023.7	2700.4
50°	7063.0	6773.9	6465.8	6112.1	5728.0	5283.0	4803.7	4324.5	3856.7	3423.1	3019.9
47.5°	7671.5	7390.1	7082.0	6728.3	6378.4	5883.9	5400.9	4872.2	4351.1	3852.9	3381.3
45°	8242.1	7956.8	7637.3	7298.8	6895.6	6454.4	5956.2	5423.7	4864.6	4305.5	3761.6
42.5°	8759.3	8474.1	8150.8	7800.9	7401.5	6964.1	6481.1	5944.8	5381.9	4773.3	4176.2
40°	9211.9	8934.3	8622.4	8257.3	7884.5	7424.3	6948.9	6439.2	5857.3	5244.9	4586.9
37.5°	9607.5	9348.9	9040.8	8679.4	8283.9	7873.1	7382.5	6872.8	6347.9	5682.3	5009.1
35°	9957.4	9717.8	9402.1	9059.8	8671.8	8238.2	7778.0	7279.8	6713.1	6089.3	5435.1
32.5°	10261.7	10018.3	9729.2	9386.9	9010.3	8603.4	8131.8	7629.7	7093.4	6458.2	5747.0
30°	10520.3	10284.5	10010.7	9687.4	9326.0	8922.9	8462.7	7956.8	7409.1	6777.7	6074.1
27.5°	10744.7	10520.3	10254.1	9953.6	9607.5	9219.5	8755.5	8245.9	7686.8	7078.2	6374.6
25°	10938.7	10721.9	10474.7	10189.4	9847.1	9466.8	9029.4	8496.9	7937.8	7325.4	6629.4
22.5°	11113.6	10904.5	10657.2	10379.6	10067.7	9687.4	9246.2	8717.5	8150.8	7546.0	6861.4
20°	11269.6	11075.6	10832.2	10546.9	10235.1	9850.9	9413.5	8911.5	8340.9	7747.6	7070.6
17.5°	11395.1	11223.9	10980.5	10680.1	10368.2	9995.4	9569.5	9109.2	8504.5	7918.8	7245.6
15°	11482.6	11315.2	11094.6	10790.4	10486.1	10117.1	9691.2	9215.7	8652.8	8055.7	7390.1
12.5°	11543.4	11364.7	11159.3	10877.8	10573.6	10208.4	9793.9	9326.0	8778.3	8177.4	7515.6
10°	11558.7	11395.1	11189.7	10938.7	10642.0	10288.3	9881.3	9417.3	8881.0	8272.5	7618.3
7.5°	11566.3	11410.3	11223.9	10984.3	10691.5	10349.2	9946.0	9489.6	8957.1	8352.4	7694.4
5°	11562.5	11414.1	11246.8	11014.8	10721.9	10383.4	9987.8	9539.0	9010.3	8405.6	7751.4
2.5°	11551.0	11417.9	11262.0	11037.6	10756.1	10421.4	10029.7	9596.1	9067.4	8451.2	7797.1
0°	11581.5	11467.4	11269.6	11030.0	10763.7	10421.4	10025.9	9603.7	9075.0	8447.4	7793.2





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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°	95.1	91.3	91.3	87.5	83.7	79.9	72.3	68.5	60.9	49.4	38.0
85°	205.4	194.0	182.6	175.0	167.4	159.7	148.3	136.9	121.7	98.9	76.1
82.5°	361.3	338.5	315.7	289.1	266.2	243.4	224.4	205.4	182.6	148.3	114.1
80°	517.3	483.0	448.8	410.8	376.5	338.5	304.3	273.8	243.4	197.8	152.1
77.5°	673.2	627.6	578.1	532.5	483.0	433.6	384.1	342.3	296.7	243.4	190.2
75°	817.7	764.5	718.8	654.2	593.3	528.7	464.0	407.0	349.9	285.3	228.2
72.5°	962.3	893.8	829.1	768.3	699.8	620.0	547.7	475.4	403.2	327.1	258.6
70°	1106.8	1023.1	943.3	871.0	794.9	715.0	627.6	543.9	456.4	365.1	285.3
67.5°	1255.1	1160.0	1068.8	977.5	890.0	798.7	707.4	612.4	509.7	403.2	315.7
65°	1418.7	1300.8	1190.5	1087.8	985.1	886.2	783.5	680.8	566.7	445.0	342.3
62.5°	1582.2	1452.9	1323.6	1194.3	1080.2	969.9	859.6	745.5	620.0	490.6	368.9
60°	1757.2	1608.9	1460.5	1316.0	1175.3	1053.6	931.8	810.1	677.0	532.5	395.6
57.5°	1951.2	1772.4	1605.1	1441.5	1281.8	1137.2	1004.1	874.8	726.5	574.3	426.0
55°	2171.8	1951.2	1753.4	1570.8	1395.9	1220.9	1076.4	943.3	783.5	616.2	460.2
52.5°	2403.8	2148.9	1909.3	1703.9	1517.6	1319.8	1144.8	996.5	840.6	658.0	490.6
50°	2673.8	2350.5	2084.3	1833.3	1624.1	1418.7	1217.1	1057.4	897.6	707.4	521.1
47.5°	2951.5	2593.9	2259.2	1985.4	1738.2	1513.8	1300.8	1110.6	950.9	753.1	551.5
45°	3274.8	2826.0	2457.0	2133.7	1848.5	1612.7	1384.5	1167.7	996.5	798.7	581.9
42.5°	3586.6	3099.8	2662.4	2297.3	1974.0	1707.7	1460.5	1228.5	1042.1	844.4	608.6
40°	3955.6	3373.7	2860.2	2453.2	2099.5	1799.0	1536.6	1293.2	1084.0	886.2	635.2
37.5°	4309.3	3651.3	3099.8	2624.4	2221.2	1890.3	1612.7	1354.0	1122.0	928.0	669.4
35°	4659.2	3959.4	3328.0	2784.1	2346.7	1993.0	1688.7	1411.1	1160.0	962.3	699.8
32.5°	4993.9	4248.4	3560.0	2962.9	2483.6	2088.1	1757.2	1464.3	1198.1	992.7	730.3
30°	5305.8	4522.3	3788.2	3145.4	2609.2	2175.6	1821.8	1517.6	1243.7	1019.3	760.7
27.5°	5591.1	4788.5	4016.4	3316.6	2727.1	2255.4	1890.3	1567.0	1281.8	1045.9	787.3
25°	5849.7	5028.1	4225.6	3472.5	2833.6	2342.9	1955.0	1616.5	1316.0	1068.8	810.1
22.5°	6093.1	5248.7	4415.8	3628.5	2962.9	2430.4	2015.8	1662.1	1350.2	1091.6	833.0
20°	6306.1	5450.3	4598.4	3784.4	3077.0	2510.3	2069.1	1703.9	1380.6	1106.8	855.8
17.5°	6477.3	5629.1	4761.9	3921.3	3175.9	2578.7	2114.7	1742.0	1407.3	1125.8	871.0
15°	6629.4	5781.2	4898.8	4039.3	3263.4	2635.8	2156.5	1772.4	1430.1	1137.2	890.0
12.5°	6758.7	5910.5	5016.7	4141.9	3339.4	2685.2	2190.8	1795.2	1449.1	1148.6	901.4
10°	6865.2	6013.2	5115.6	4221.8	3400.3	2723.3	2217.4	1818.0	1464.3	1160.0	912.8
7.5°	6945.1	6089.3	5187.9	4290.3	3449.7	2749.9	2240.2	1833.3	1479.5	1167.7	931.8
5°	7005.9	6154.0	5244.9	4335.9	3487.8	2787.9	2266.8	1852.3	1494.8	1175.3	931.8
2.5°	7051.6	6207.2	5290.6	4374.0	3518.2	2780.3	2266.8	1848.5	1494.8	1175.3	928.0
0°	7044.0	6211.0	5286.8	4374.0	3518.2	2772.7	2266.8	1844.7	1494.8	1175.3	928.0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	26.6	19.0	7.6	0.0
85°	57.1	38.0	19.0	0.0
82.5°	83.7	53.2	26.6	0.0
80°	110.3	72.3	34.2	0.0
77.5°	140.7	91.3	45.6	0.0
75°	167.4	106.5	53.2	0.0
72.5°	194.0	125.5	60.9	0.0
70°	216.8	140.7	68.5	0.0
67.5°	239.6	159.7	79.9	0.0
65°	258.6	175.0	87.5	0.0
62.5°	273.8	194.0	95.1	0.0
60°	292.9	209.2	102.7	0.0
57.5°	308.1	220.6	110.3	0.0
55°	323.3	228.2	117.9	0.0
52.5°	338.5	239.6	125.5	0.0
50°	353.7	251.0	133.1	0.0
47.5°	368.9	258.6	136.9	0.0
45°	391.8	270.0	144.5	0.0
42.5°	410.8	277.7	152.1	0.0
40°	429.8	285.3	155.9	0.0
37.5°	448.8	292.9	163.5	0.0
35°	467.8	300.5	167.4	0.0
32.5°	483.0	308.1	171.2	0.0
30°	498.3	315.7	175.0	0.0
27.5°	513.5	319.5	178.8	0.0
25°	524.9	327.1	182.6	0.0
22.5°	536.3	330.9	186.4	0.0
20°	543.9	334.7	190.2	0.0
17.5°	555.3	338.5	194.0	0.0
15°	559.1	342.3	201.6	0.0
12.5°	566.7	346.1	201.6	0.0
10°	570.5	349.9	201.6	0.0
7.5°	578.1	349.9	201.6	0.0
5°	574.3	349.9	201.6	0.0
2.5°	574.3	349.9	201.6	0.0
0°	570.5	349.9	201.6	0.0

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