

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: P628467

Luminaire Tested: **IFLD-L-SA8C-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628467
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33370.8 lumens	Max Intensity:	10877.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	79.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

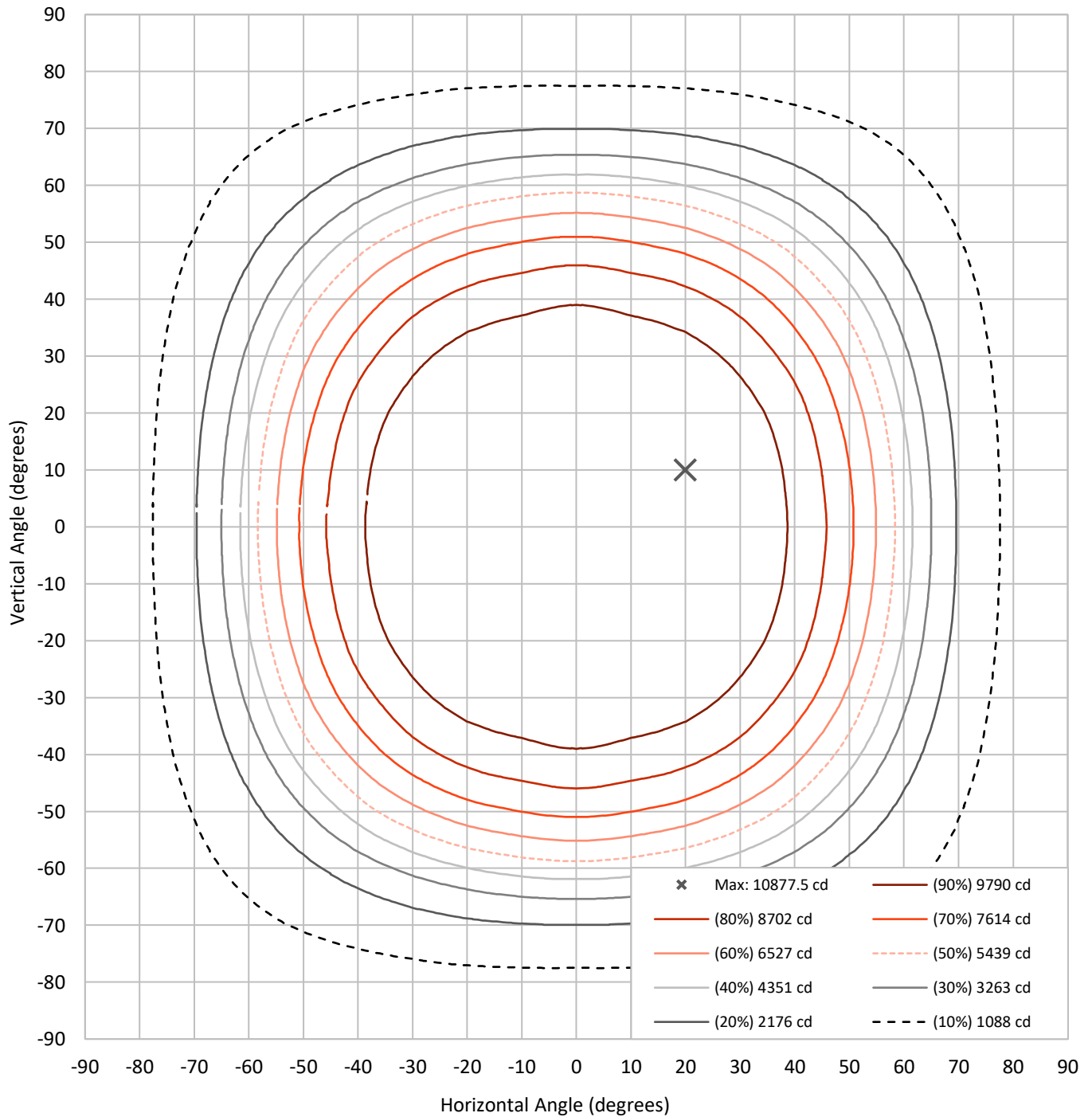
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20477 lumens	Field Lumens:	24548.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 420.3
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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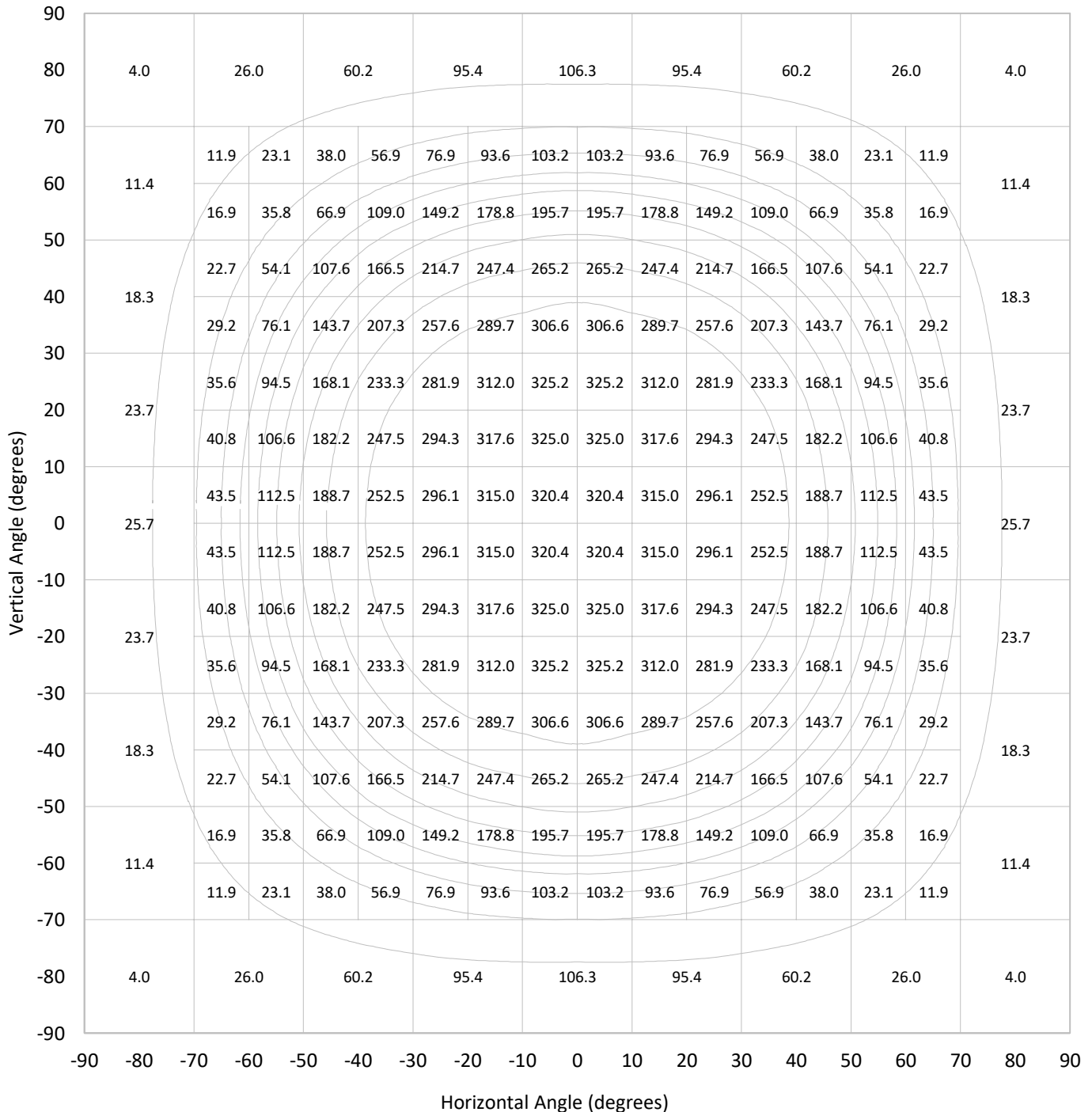
Iso-Candela Plot





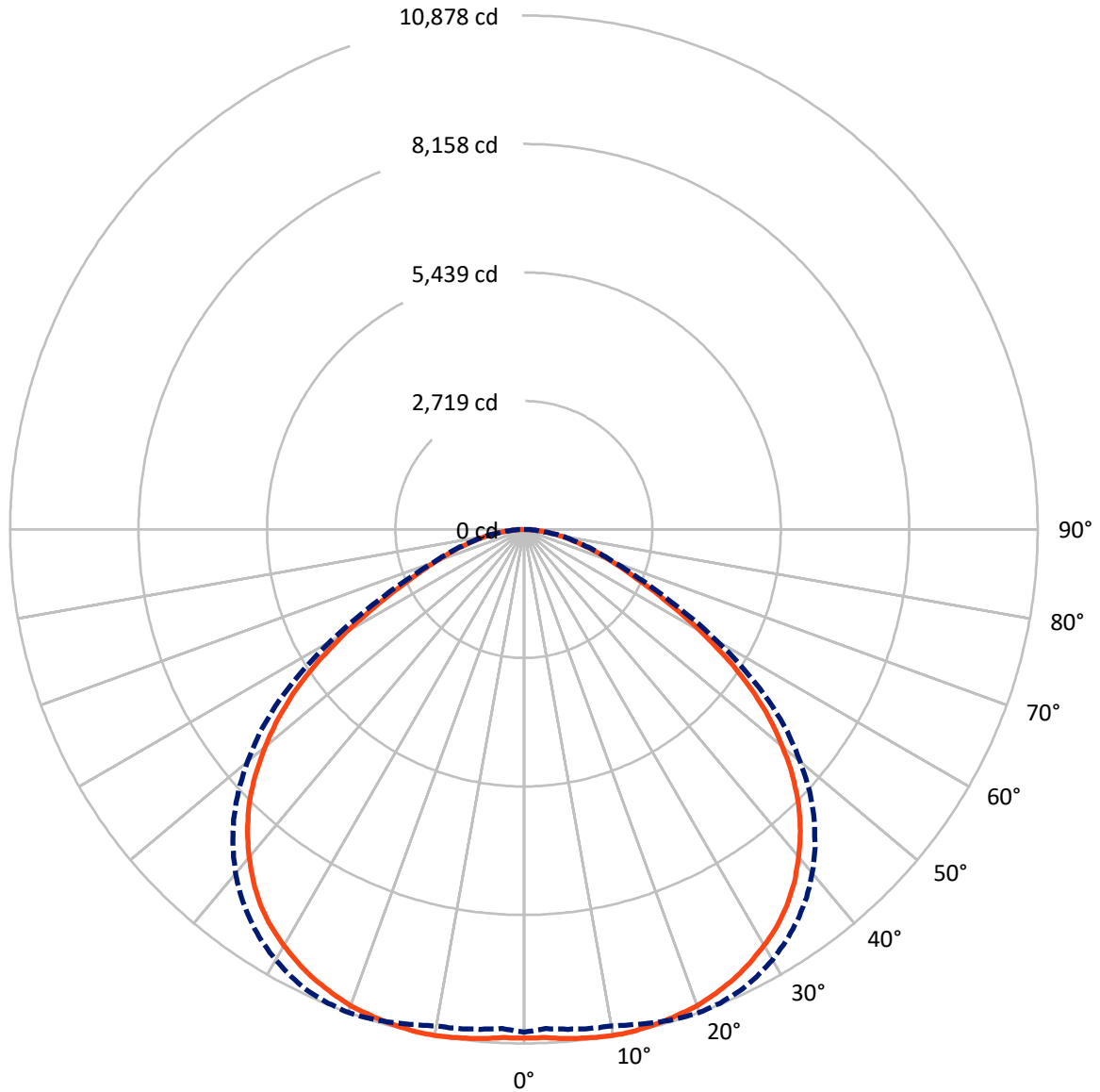
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Lumen Table



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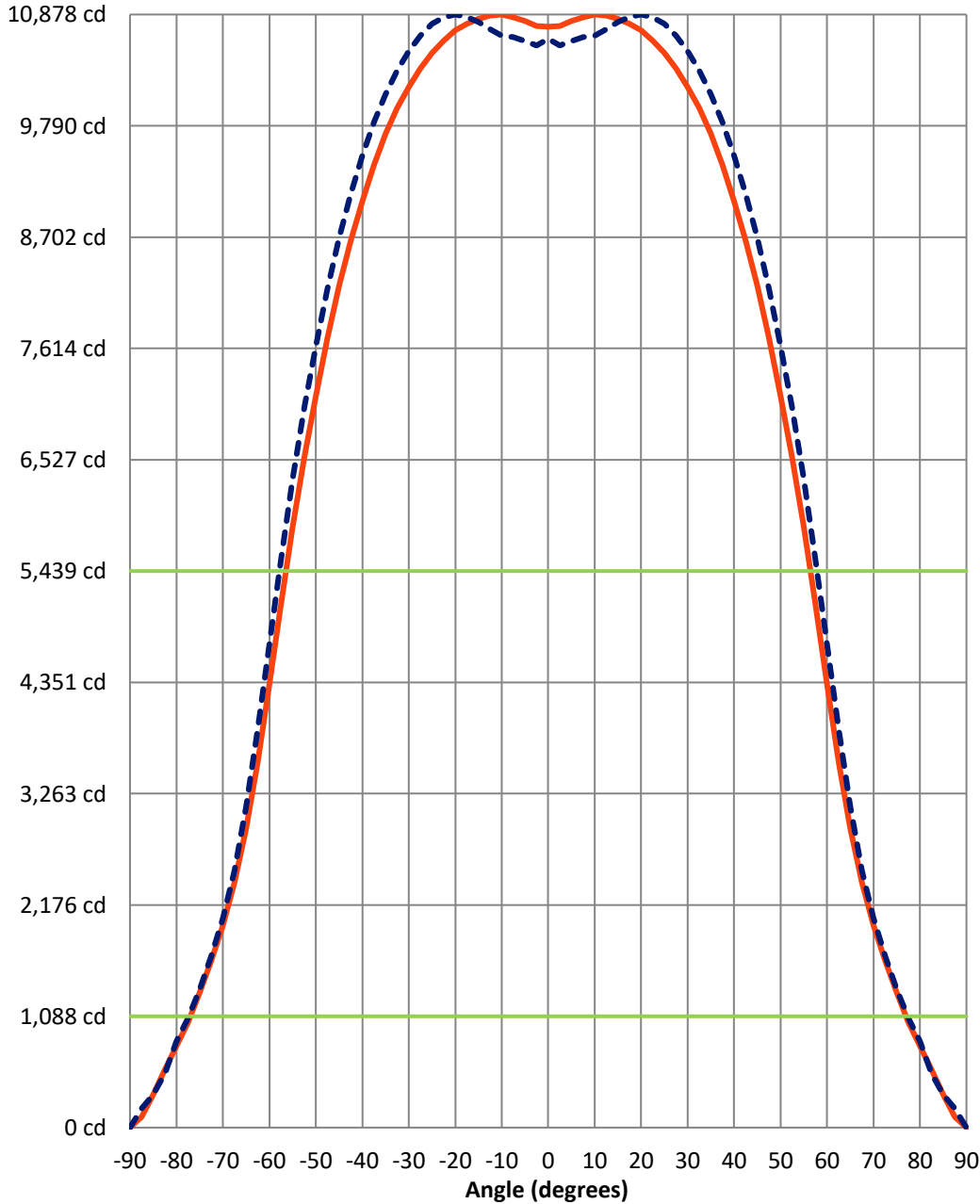
Luminous Intensity Polar Plot



— 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: 20477
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 24548.5
 Efficiency: 73.6%

Spill:
 Lumens: 8822.4
 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°	87.8	94.8	98.3	101.8	105.3	108.8	112.4	108.8	105.3	105.3	101.8
85°	235.2	242.3	245.8	270.4	294.9	309.0	326.5	323.0	323.0	319.5	316.0
82.5°	470.5	491.6	509.1	533.7	547.7	568.8	582.9	572.3	565.3	551.3	540.7
80°	835.7	842.7	846.2	849.7	832.1	828.6	821.6	811.1	797.0	779.5	761.9
77.5°	1063.9	1070.9	1077.9	1070.9	1067.4	1063.9	1053.3	1042.8	1028.8	1014.7	993.7
75°	1408.0	1408.0	1408.0	1397.4	1390.4	1379.9	1362.3	1344.8	1320.2	1292.1	1260.5
72.5°	1773.1	1769.6	1766.1	1745.0	1727.5	1706.4	1681.8	1660.8	1632.7	1601.1	1559.0
70°	2155.8	2162.9	2166.4	2138.3	2117.2	2089.1	2057.5	2018.9	1976.8	1931.1	1871.4
67.5°	2682.5	2675.5	2668.5	2629.9	2601.8	2563.1	2517.5	2461.3	2398.1	2327.9	2243.6
65°	3335.6	3346.1	3325.1	3286.4	3233.8	3170.6	3100.3	3019.6	2924.8	2819.5	2700.1
62.5°	4125.6	4143.2	4118.6	4069.4	4002.7	3918.4	3820.1	3704.3	3574.4	3426.9	3279.4
60°	5024.5	5020.9	4975.3	4908.6	4820.8	4715.5	4606.6	4480.2	4332.8	4160.7	3981.6
57.5°	5849.6	5842.6	5786.4	5719.7	5631.9	5519.5	5403.7	5270.2	5115.7	4933.2	4726.0
55°	6590.4	6583.4	6527.2	6457.0	6365.7	6253.4	6148.0	6021.6	5870.6	5677.5	5456.3
52.5°	7247.0	7250.5	7201.4	7124.1	7025.8	6917.0	6815.1	6688.7	6544.8	6351.7	6137.5
50°	7850.9	7847.4	7794.8	7724.5	7633.2	7527.9	7426.1	7299.7	7148.7	6962.6	6755.5
47.5°	8412.7	8405.7	8346.0	8268.8	8174.0	8082.7	7987.9	7875.5	7717.5	7531.4	7324.3
45°	8883.2	8869.2	8809.5	8735.7	8644.5	8563.7	8479.4	8395.2	8226.6	8054.6	7858.0
42.5°	9287.0	9283.5	9223.8	9150.1	9058.8	8988.5	8911.3	8806.0	8665.5	8507.5	8314.4
40°	9673.2	9645.1	9585.4	9515.2	9430.9	9371.3	9294.0	9188.7	9051.7	8897.3	8711.2
37.5°	9961.1	9964.6	9901.4	9824.2	9750.5	9694.3	9624.1	9525.7	9406.4	9255.4	9069.3
35°	10235.0	10217.4	10164.8	10098.1	10031.4	9968.2	9894.4	9810.2	9711.8	9571.4	9395.8
32.5°	10414.1	10438.6	10375.4	10305.2	10266.6	10217.4	10140.2	10052.4	9964.6	9824.2	9666.2
30°	10610.7	10589.6	10540.5	10480.8	10452.7	10421.1	10354.4	10270.1	10168.3	10041.9	9894.4
27.5°	10747.6	10737.1	10677.4	10621.2	10607.2	10579.1	10526.4	10452.7	10350.9	10228.0	10091.0
25°	10807.3	10814.3	10758.2	10726.6	10726.6	10709.0	10666.9	10603.7	10501.8	10389.5	10256.1
22.5°	10835.4	10828.4	10789.8	10782.7	10800.3	10786.3	10768.7	10712.5	10621.2	10529.9	10417.6
20°	10853.0	10803.8	10768.7	10796.8	10817.9	10814.3	10800.3	10765.2	10723.1	10645.8	10547.5
17.5°	10814.3	10782.7	10740.6	10782.7	10828.4	10831.9	10817.9	10796.8	10786.3	10737.1	10649.3
15°	10719.5	10695.0	10702.0	10744.1	10796.8	10814.3	10824.9	10849.5	10835.4	10796.8	10719.5
12.5°	10656.3	10624.7	10656.3	10698.5	10726.6	10737.1	10821.4	10867.0	10867.0	10831.9	10782.7
10°	10638.8	10575.6	10617.7	10656.3	10670.4	10733.6	10803.8	10853.0	10877.5	10849.5	10786.3
7.5°	10603.7	10561.5	10579.1	10596.6	10677.4	10723.1	10761.7	10814.3	10849.5	10845.9	10789.8
5°	10586.1	10533.4	10540.5	10614.2	10670.4	10702.0	10716.0	10761.7	10814.3	10824.9	10782.7
2.5°	10540.5	10515.9	10568.6	10575.6	10617.7	10642.3	10656.3	10698.5	10765.2	10789.8	10772.2
0°	10515.9	10480.8	10445.7	10473.8	10544.0	10596.6	10617.7	10680.9	10758.2	10782.7	10744.1



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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°	98.3	94.8	91.3	87.8	91.3	91.3	91.3	87.8	91.3	87.8	87.8
85°	305.5	291.4	280.9	266.8	252.8	242.3	228.2	214.2	210.7	207.2	200.1
82.5°	526.7	509.1	491.6	470.5	449.4	424.8	400.3	372.2	365.2	358.1	347.6
80°	740.9	716.3	691.7	667.1	646.1	621.5	593.4	561.8	540.7	523.2	502.1
77.5°	965.6	930.5	895.3	853.2	828.6	804.1	776.0	744.4	712.8	684.7	653.1
75°	1221.9	1183.3	1148.1	1106.0	1060.4	1014.7	969.1	926.9	881.3	839.2	797.0
72.5°	1506.3	1450.1	1393.9	1341.3	1285.1	1228.9	1169.2	1113.0	1056.9	1000.7	941.0
70°	1804.7	1734.5	1664.3	1594.1	1520.3	1446.6	1376.4	1306.1	1235.9	1162.2	1095.5
67.5°	2155.8	2075.1	1983.8	1885.5	1776.6	1681.8	1590.6	1506.3	1422.0	1337.7	1253.5
65°	2594.7	2482.4	2359.5	2226.1	2099.7	1973.3	1839.8	1713.4	1615.1	1516.8	1422.0
62.5°	3135.5	2977.5	2805.4	2633.4	2478.9	2313.8	2159.4	1994.3	1839.8	1699.4	1583.5
60°	3781.5	3567.3	3356.7	3135.5	2921.3	2696.6	2499.9	2296.3	2103.2	1931.1	1762.6
57.5°	4494.3	4245.0	3992.2	3721.8	3430.4	3167.1	2900.2	2633.4	2405.1	2176.9	1987.3
55°	5217.6	4954.2	4669.8	4364.4	4044.8	3707.8	3346.1	3047.7	2735.2	2468.3	2222.6
52.5°	5905.8	5631.9	5336.9	5056.1	4673.3	4287.1	3890.4	3497.1	3131.9	2791.4	2492.9
50°	6520.2	6253.4	5969.0	5642.4	5287.8	4877.0	4434.6	3992.2	3560.3	3160.0	2787.9
47.5°	7082.0	6822.2	6537.8	6211.2	5888.2	5431.7	4985.8	4497.8	4016.8	3556.8	3121.4
45°	7608.7	7345.3	7050.4	6737.9	6365.7	5958.4	5498.5	5006.9	4490.8	3974.6	3472.5
42.5°	8086.2	7822.8	7524.4	7201.4	6832.7	6428.9	5983.0	5487.9	4968.3	4406.5	3855.2
40°	8504.0	8247.7	7959.8	7622.7	7278.6	6853.8	6414.9	5944.4	5407.2	4841.9	4234.4
37.5°	8869.2	8630.4	8346.0	8012.4	7647.3	7268.1	6815.1	6344.6	5860.1	5245.7	4624.2
35°	9192.2	8971.0	8679.6	8363.6	8005.4	7605.1	7180.3	6720.3	6197.2	5621.4	5017.4
32.5°	9473.1	9248.4	8981.5	8665.5	8317.9	7942.2	7506.8	7043.4	6548.3	5961.9	5305.3
30°	9711.8	9494.1	9241.3	8942.9	8609.3	8237.2	7812.3	7345.3	6839.7	6256.9	5607.3
27.5°	9919.0	9711.8	9466.1	9188.7	8869.2	8511.0	8082.7	7612.2	7096.0	6534.2	5884.7
25°	10098.1	9897.9	9669.7	9406.4	9090.4	8739.3	8335.5	7843.9	7327.8	6762.5	6119.9
22.5°	10259.6	10066.5	9838.2	9581.9	9294.0	8942.9	8535.6	8047.6	7524.4	6966.1	6334.1
20°	10403.5	10224.5	9999.8	9736.4	9448.5	9093.9	8690.1	8226.6	7700.0	7152.2	6527.2
17.5°	10519.4	10361.4	10136.7	9859.3	9571.4	9227.3	8834.1	8409.2	7850.9	7310.2	6688.7
15°	10600.2	10445.7	10242.0	9961.1	9680.2	9339.7	8946.4	8507.5	7987.9	7436.6	6822.2
12.5°	10656.3	10491.3	10301.7	10041.9	9761.0	9423.9	9041.2	8609.3	8103.7	7549.0	6938.0
10°	10670.4	10519.4	10329.8	10098.1	9824.2	9497.7	9122.0	8693.6	8198.5	7636.8	7032.8
7.5°	10677.4	10533.4	10361.4	10140.2	9869.8	9553.8	9181.7	8760.3	8268.8	7710.5	7103.1
5°	10673.9	10537.0	10382.5	10168.3	9897.9	9585.4	9220.3	8806.0	8317.9	7759.6	7155.7
2.5°	10663.4	10540.5	10396.5	10189.4	9929.5	9620.5	9258.9	8858.6	8370.6	7801.8	7197.9
0°	10691.5	10586.1	10403.5	10182.3	9936.6	9620.5	9255.4	8865.7	8377.6	7798.3	7194.3



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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°	87.8	84.3	84.3	80.8	77.2	73.7	66.7	63.2	56.2	45.6	35.1
85°	189.6	179.1	168.5	161.5	154.5	147.5	136.9	126.4	112.4	91.3	70.2
82.5°	333.6	312.5	291.4	266.8	245.8	224.7	207.2	189.6	168.5	136.9	105.3
80°	477.5	445.9	414.3	379.2	347.6	312.5	280.9	252.8	224.7	182.6	140.4
77.5°	621.5	579.3	533.7	491.6	445.9	400.3	354.6	316.0	273.9	224.7	175.6
75°	754.9	705.7	663.6	603.9	547.7	488.0	428.4	375.7	323.0	263.3	210.7
72.5°	888.3	825.1	765.4	709.3	646.1	572.3	505.6	438.9	372.2	302.0	238.8
70°	1021.7	944.5	870.8	804.1	733.8	660.1	579.3	502.1	421.3	337.1	263.3
67.5°	1158.7	1070.9	986.6	902.4	821.6	737.3	653.1	565.3	470.5	372.2	291.4
65°	1309.7	1200.8	1099.0	1004.2	909.4	818.1	723.3	628.5	523.2	410.8	316.0
62.5°	1460.6	1341.3	1221.9	1102.5	997.2	895.3	793.5	688.2	572.3	452.9	340.6
60°	1622.2	1485.2	1348.3	1214.9	1084.9	972.6	860.2	747.9	625.0	491.6	365.2
57.5°	1801.2	1636.2	1481.7	1330.7	1183.3	1049.8	926.9	807.6	670.6	530.2	393.2
55°	2004.9	1801.2	1618.6	1450.1	1288.6	1127.1	993.7	870.8	723.3	568.8	424.8
52.5°	2219.0	1983.8	1762.6	1573.0	1400.9	1218.4	1056.9	919.9	776.0	607.4	452.9
50°	2468.3	2169.9	1924.1	1692.4	1499.3	1309.7	1123.6	976.1	828.6	653.1	481.0
47.5°	2724.7	2394.6	2085.6	1832.8	1604.6	1397.4	1200.8	1025.3	877.8	695.2	509.1
45°	3023.1	2608.8	2268.2	1969.8	1706.4	1488.7	1278.1	1077.9	919.9	737.3	537.2
42.5°	3311.0	2861.6	2457.8	2120.7	1822.3	1576.5	1348.3	1134.1	962.1	779.5	561.8
40°	3651.6	3114.4	2640.4	2264.7	1938.2	1660.8	1418.5	1193.8	1000.7	818.1	586.4
37.5°	3978.1	3370.7	2861.6	2422.7	2050.5	1745.0	1488.7	1250.0	1035.8	856.7	618.0
35°	4301.2	3655.1	3072.3	2570.2	2166.4	1839.8	1559.0	1302.6	1070.9	888.3	646.1
32.5°	4610.1	3922.0	3286.4	2735.2	2292.8	1927.6	1622.2	1351.8	1106.0	916.4	674.1
30°	4898.1	4174.8	3497.1	2903.7	2408.6	2008.4	1681.8	1400.9	1148.1	941.0	702.2
27.5°	5161.4	4420.5	3707.8	3061.7	2517.5	2082.1	1745.0	1446.6	1183.3	965.6	726.8
25°	5400.1	4641.7	3900.9	3205.7	2615.8	2162.9	1804.7	1492.2	1214.9	986.6	747.9
22.5°	5624.9	4845.4	4076.4	3349.6	2735.2	2243.6	1860.9	1534.4	1246.5	1007.7	768.9
20°	5821.5	5031.5	4245.0	3493.6	2840.5	2317.4	1910.1	1573.0	1274.5	1021.7	790.0
17.5°	5979.5	5196.5	4396.0	3620.0	2931.8	2380.6	1952.2	1608.1	1299.1	1039.3	804.1
15°	6119.9	5336.9	4522.4	3728.8	3012.6	2433.2	1990.8	1636.2	1320.2	1049.8	821.6
12.5°	6239.3	5456.3	4631.2	3823.6	3082.8	2478.9	2022.4	1657.3	1337.7	1060.4	832.1
10°	6337.6	5551.1	4722.5	3897.4	3139.0	2514.0	2047.0	1678.3	1351.8	1070.9	842.7
7.5°	6411.4	5621.4	4789.2	3960.6	3184.6	2538.6	2068.1	1692.4	1365.8	1077.9	860.2
5°	6467.5	5681.0	4841.9	4002.7	3219.7	2573.7	2092.6	1709.9	1379.9	1084.9	860.2
2.5°	6509.7	5730.2	4884.0	4037.8	3247.8	2566.7	2092.6	1706.4	1379.9	1084.9	856.7
0°	6502.6	5733.7	4880.5	4037.8	3247.8	2559.6	2092.6	1702.9	1379.9	1084.9	856.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.6	17.6	7.0	0.0
85°	52.7	35.1	17.6	0.0
82.5°	77.2	49.2	24.6	0.0
80°	101.8	66.7	31.6	0.0
77.5°	129.9	84.3	42.1	0.0
75°	154.5	98.3	49.2	0.0
72.5°	179.1	115.9	56.2	0.0
70°	200.1	129.9	63.2	0.0
67.5°	221.2	147.5	73.7	0.0
65°	238.8	161.5	80.8	0.0
62.5°	252.8	179.1	87.8	0.0
60°	270.4	193.1	94.8	0.0
57.5°	284.4	203.6	101.8	0.0
55°	298.4	210.7	108.8	0.0
52.5°	312.5	221.2	115.9	0.0
50°	326.5	231.7	122.9	0.0
47.5°	340.6	238.8	126.4	0.0
45°	361.6	249.3	133.4	0.0
42.5°	379.2	256.3	140.4	0.0
40°	396.8	263.3	144.0	0.0
37.5°	414.3	270.4	151.0	0.0
35°	431.9	277.4	154.5	0.0
32.5°	445.9	284.4	158.0	0.0
30°	460.0	291.4	161.5	0.0
27.5°	474.0	294.9	165.0	0.0
25°	484.5	302.0	168.5	0.0
22.5°	495.1	305.5	172.0	0.0
20°	502.1	309.0	175.6	0.0
17.5°	512.6	312.5	179.1	0.0
15°	516.1	316.0	186.1	0.0
12.5°	523.2	319.5	186.1	0.0
10°	526.7	323.0	186.1	0.0
7.5°	533.7	323.0	186.1	0.0
5°	530.2	323.0	186.1	0.0
2.5°	530.2	323.0	186.1	0.0
0°	526.7	323.0	186.1	0.0

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