

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: P628438

Luminaire Tested: **IFLD-L-SA8C-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628438
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33011 lumens	Max Intensity:	10760.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	78.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

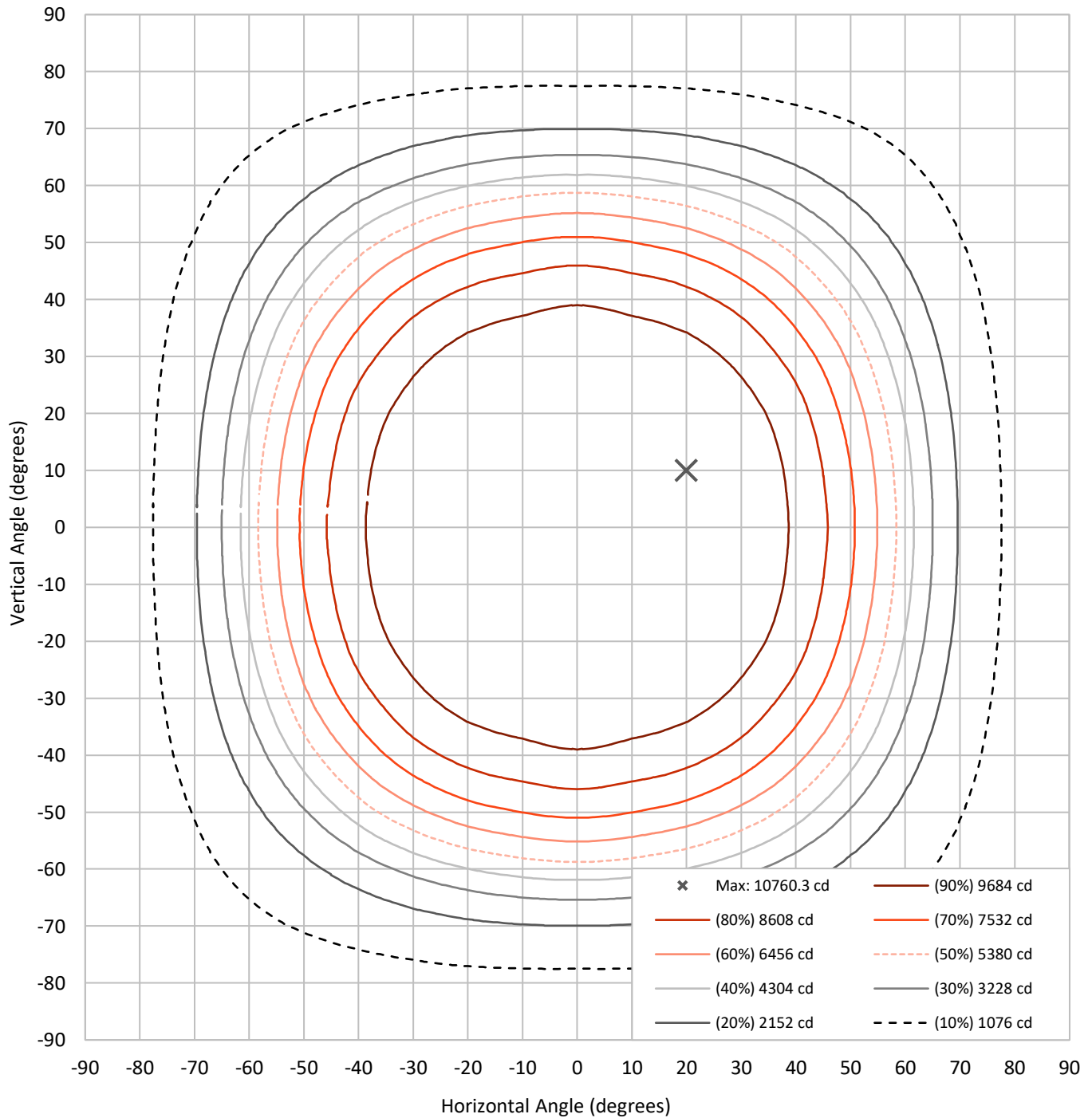
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20256.2 lumens	Field Lumens:	24283.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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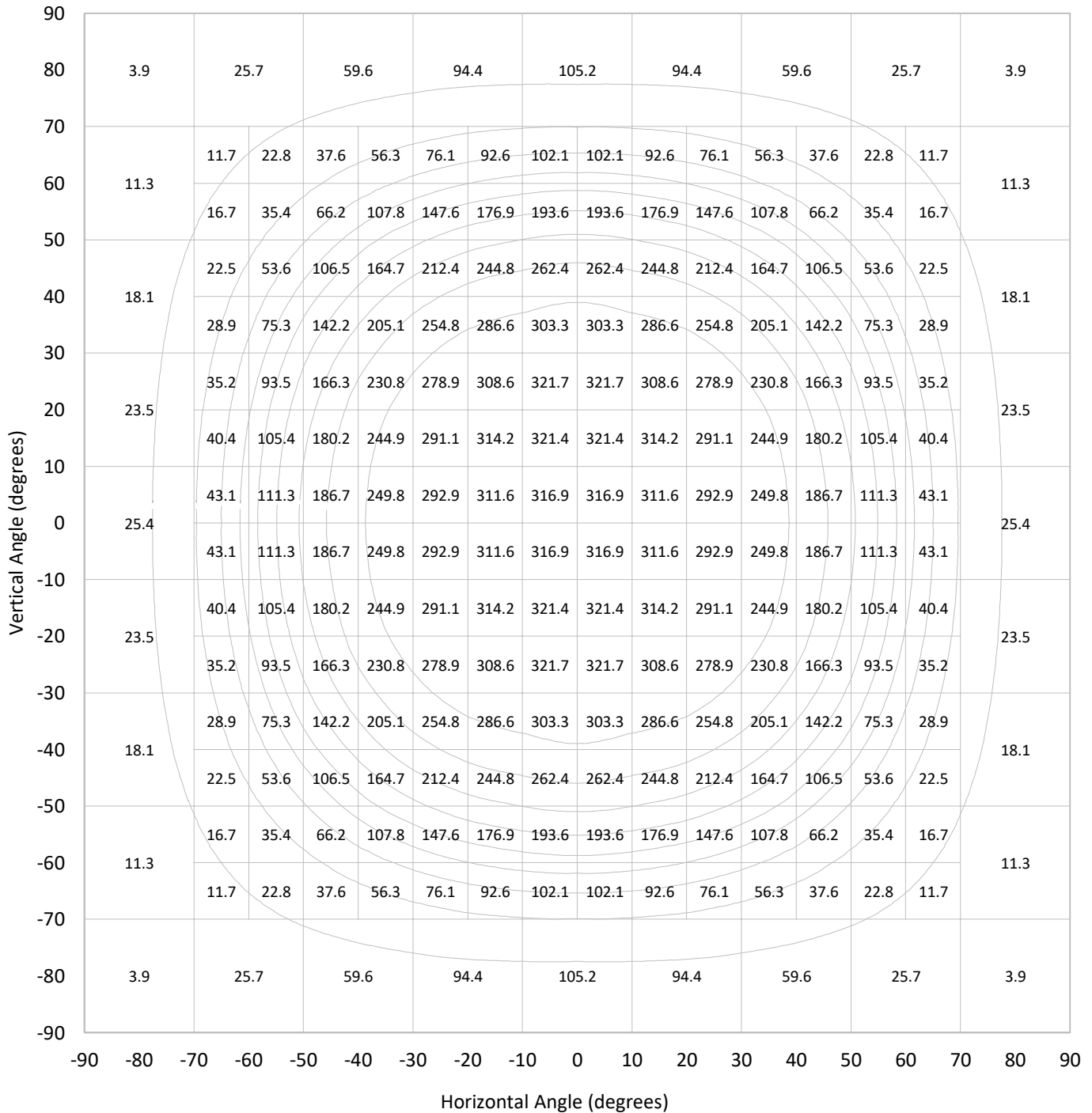
Iso-Candela Plot





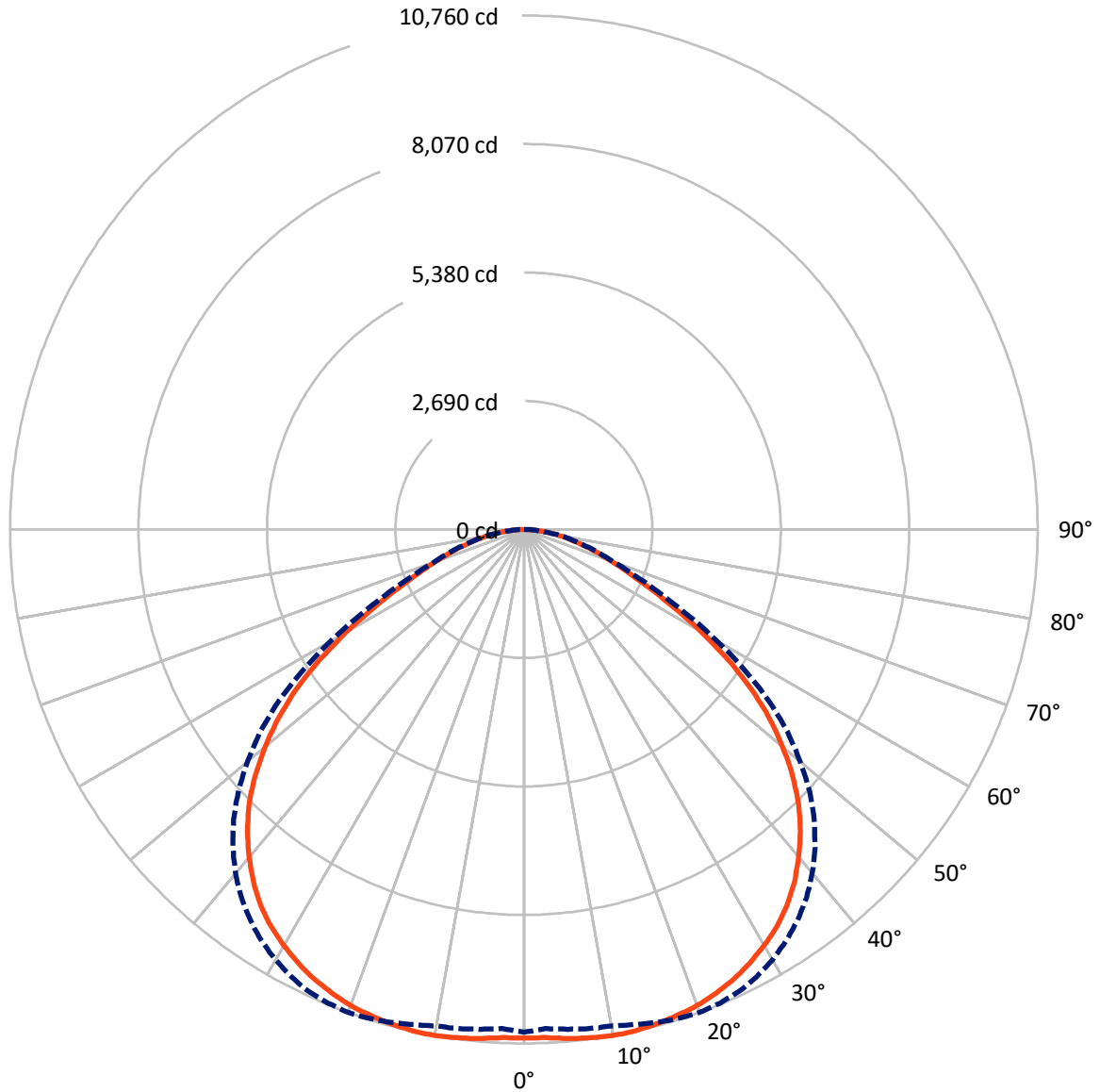
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Lumen Table



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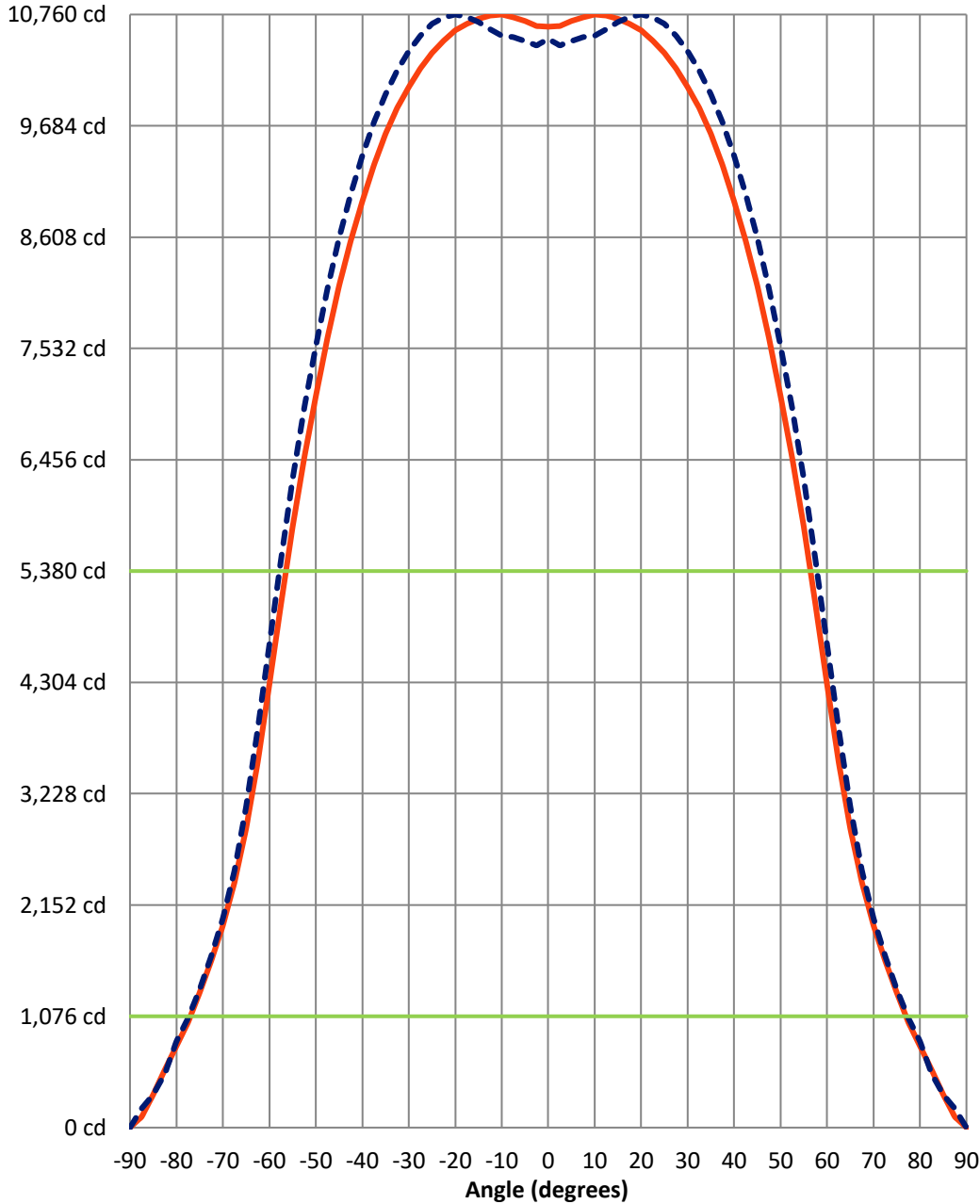
Luminous Intensity Polar Plot



— 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: 20256.2
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 24283.8
Efficiency: 73.6%

Spill:
Lumens: 8727.2
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°	86.8	93.8	97.3	100.7	104.2	107.7	111.1	107.7	104.2	104.2	100.7
85°	232.7	239.7	243.1	267.4	291.8	305.6	323.0	319.5	319.5	316.1	312.6
82.5°	465.4	486.3	503.6	527.9	541.8	562.7	576.6	566.1	559.2	545.3	534.9
80°	826.6	833.6	837.1	840.5	823.2	819.7	812.8	802.3	788.4	771.1	753.7
77.5°	1052.4	1059.4	1066.3	1059.4	1055.9	1052.4	1042.0	1031.6	1017.7	1003.8	982.9
75°	1392.8	1392.8	1392.8	1382.4	1375.4	1365.0	1347.6	1330.3	1306.0	1278.2	1246.9
72.5°	1754.0	1750.5	1747.1	1726.2	1708.9	1688.0	1663.7	1642.9	1615.1	1583.8	1542.1
70°	2132.6	2139.5	2143.0	2115.2	2094.4	2066.6	2035.4	1997.1	1955.5	1910.3	1851.3
67.5°	2653.6	2646.7	2639.7	2601.5	2573.7	2535.5	2490.4	2434.8	2372.3	2302.8	2219.4
65°	3299.6	3310.1	3289.2	3251.0	3198.9	3136.4	3066.9	2987.0	2893.3	2789.1	2671.0
62.5°	4081.1	4098.5	4074.2	4025.5	3959.6	3876.2	3778.9	3664.3	3535.8	3389.9	3244.1
60°	4970.3	4966.8	4921.7	4855.7	4768.8	4664.6	4557.0	4431.9	4286.0	4115.9	3938.7
57.5°	5786.5	5779.6	5724.0	5658.0	5571.2	5460.0	5345.4	5213.4	5060.6	4880.0	4675.1
55°	6519.4	6512.4	6456.9	6387.4	6297.1	6185.9	6081.7	5956.7	5807.3	5616.3	5397.5
52.5°	7168.9	7172.4	7123.7	7047.3	6950.1	6842.4	6741.7	6616.6	6474.2	6283.2	6071.3
50°	7766.3	7762.8	7710.7	7641.2	7550.9	7446.7	7346.0	7221.0	7071.6	6887.5	6682.6
47.5°	8322.0	8315.1	8256.0	8179.6	8085.8	7995.5	7901.7	7790.6	7634.3	7450.2	7245.3
45°	8787.4	8773.5	8714.5	8641.6	8551.3	8471.4	8388.0	8304.6	8137.9	7967.7	7773.2
42.5°	9186.9	9183.4	9124.3	9051.4	8961.1	8891.6	8815.2	8711.0	8572.1	8415.8	8224.8
40°	9568.9	9541.1	9482.1	9412.6	9329.3	9270.2	9193.8	9089.6	8954.2	8801.3	8617.2
37.5°	9853.7	9857.2	9794.7	9718.3	9645.3	9589.8	9520.3	9423.0	9305.0	9155.6	8971.5
35°	10124.7	10107.3	10055.2	9989.2	9923.2	9860.7	9787.7	9704.4	9607.1	9468.2	9294.5
32.5°	10301.8	10326.1	10263.6	10194.1	10155.9	10107.3	10030.9	9944.0	9857.2	9718.3	9562.0
30°	10496.3	10475.5	10426.8	10367.8	10340.0	10308.7	10242.7	10159.4	10058.7	9933.6	9787.7
27.5°	10631.8	10621.3	10562.3	10506.7	10492.8	10465.0	10412.9	10340.0	10239.3	10117.7	9982.2
25°	10690.8	10697.7	10642.2	10610.9	10610.9	10593.5	10551.9	10489.4	10388.6	10277.5	10145.5
22.5°	10718.6	10711.6	10673.4	10666.5	10683.9	10670.0	10652.6	10597.0	10506.7	10416.4	10305.3
20°	10736.0	10687.3	10652.6	10680.4	10701.2	10697.7	10683.9	10649.1	10607.4	10531.0	10433.8
17.5°	10697.7	10666.5	10624.8	10666.5	10711.6	10715.1	10701.2	10680.4	10670.0	10621.3	10534.5
15°	10604.0	10579.7	10586.6	10628.3	10680.4	10697.7	10708.2	10732.5	10718.6	10680.4	10604.0
12.5°	10541.5	10510.2	10541.5	10583.1	10610.9	10621.3	10704.7	10749.8	10749.8	10715.1	10666.5
10°	10524.1	10461.6	10503.2	10541.5	10555.3	10617.9	10687.3	10736.0	10760.3	10732.5	10670.0
7.5°	10489.4	10447.7	10465.0	10482.4	10562.3	10607.4	10645.6	10697.7	10732.5	10729.0	10673.4
5°	10472.0	10419.9	10426.8	10499.8	10555.3	10586.6	10600.5	10645.6	10697.7	10708.2	10666.5
2.5°	10426.8	10402.5	10454.6	10461.6	10503.2	10527.6	10541.5	10583.1	10649.1	10673.4	10656.1
0°	10402.5	10367.8	10333.1	10360.8	10430.3	10482.4	10503.2	10565.8	10642.2	10666.5	10628.3



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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°	97.3	93.8	90.3	86.8	90.3	90.3	90.3	86.8	90.3	86.8	86.8
85°	302.2	288.3	277.9	264.0	250.1	239.7	225.8	211.9	208.4	204.9	198.0
82.5°	521.0	503.6	486.3	465.4	444.6	420.3	396.0	368.2	361.2	354.3	343.9
80°	732.9	708.6	684.2	659.9	639.1	614.8	587.0	555.7	534.9	517.5	496.7
77.5°	955.2	920.4	885.7	844.0	819.7	795.4	767.6	736.3	705.1	677.3	646.0
75°	1208.7	1170.5	1135.8	1094.1	1048.9	1003.8	958.6	916.9	871.8	830.1	788.4
72.5°	1490.0	1434.5	1378.9	1326.8	1271.2	1215.7	1156.6	1101.0	1045.5	989.9	930.8
70°	1785.3	1715.8	1646.3	1576.9	1503.9	1431.0	1361.5	1292.1	1222.6	1149.7	1083.7
67.5°	2132.6	2052.7	1962.4	1865.2	1757.5	1663.7	1573.4	1490.0	1406.7	1323.3	1240.0
65°	2566.8	2455.6	2334.1	2202.1	2077.0	1952.0	1820.0	1695.0	1597.7	1500.5	1406.7
62.5°	3101.7	2945.4	2775.2	2605.0	2452.1	2288.9	2136.1	1972.8	1820.0	1681.1	1566.5
60°	3740.7	3528.9	3320.5	3101.7	2889.8	2667.5	2473.0	2271.5	2080.5	1910.3	1743.6
57.5°	4445.8	4199.2	3949.1	3681.7	3393.4	3132.9	2868.9	2605.0	2379.2	2153.4	1965.9
55°	5161.3	4900.8	4619.5	4317.3	4001.2	3667.8	3310.1	3014.8	2705.7	2441.7	2198.6
52.5°	5842.1	5571.2	5279.4	5001.5	4623.0	4240.9	3848.4	3459.4	3098.2	2761.3	2466.0
50°	6449.9	6185.9	5904.6	5581.6	5230.8	4824.4	4386.8	3949.1	3521.9	3126.0	2757.8
47.5°	7005.6	6748.6	6467.3	6144.3	5824.7	5373.2	4932.1	4449.3	3973.4	3518.4	3087.8
45°	7526.6	7266.1	6974.4	6665.3	6297.1	5894.2	5439.2	4952.9	4442.3	3931.8	3435.1
42.5°	7999.0	7738.5	7443.3	7123.7	6759.0	6359.6	5918.5	5428.8	4914.7	4359.0	3813.7
40°	8412.3	8158.8	7874.0	7540.5	7200.1	6779.9	6345.7	5880.3	5348.9	4789.7	4188.8
37.5°	8773.5	8537.4	8256.0	7926.1	7564.8	7189.7	6741.7	6276.2	5796.9	5189.1	4574.3
35°	9093.1	8874.3	8586.0	8273.4	7919.1	7523.2	7102.9	6647.9	6130.4	5560.7	4963.3
32.5°	9370.9	9148.7	8884.7	8572.1	8228.2	7856.6	7425.9	6967.4	6477.7	5897.7	5248.1
30°	9607.1	9391.8	9141.7	8846.5	8516.5	8148.3	7728.1	7266.1	6766.0	6189.4	5546.9
27.5°	9812.1	9607.1	9364.0	9089.6	8773.5	8419.3	7995.5	7530.1	7019.5	6463.8	5821.2
25°	9989.2	9791.2	9565.5	9305.0	8992.4	8645.0	8245.6	7759.3	7248.8	6689.6	6054.0
22.5°	10149.0	9957.9	9732.2	9478.6	9193.8	8846.5	8443.6	7960.8	7443.3	6891.0	6265.8
20°	10291.4	10114.2	9891.9	9631.4	9346.6	8995.8	8596.4	8137.9	7616.9	7075.1	6456.9
17.5°	10406.0	10249.7	10027.4	9753.0	9468.2	9127.8	8738.8	8318.5	7766.3	7231.4	6616.6
15°	10485.9	10333.1	10131.6	9853.7	9575.9	9239.0	8850.0	8415.8	7901.7	7356.4	6748.6
12.5°	10541.5	10378.2	10190.6	9933.6	9655.8	9322.3	8943.7	8516.5	8016.4	7467.6	6863.2
10°	10555.3	10406.0	10218.4	9989.2	9718.3	9395.3	9023.6	8599.9	8110.1	7554.4	6957.0
7.5°	10562.3	10419.9	10249.7	10030.9	9763.4	9450.8	9082.7	8665.9	8179.6	7627.4	7026.5
5°	10558.8	10423.4	10270.5	10058.7	9791.2	9482.1	9120.9	8711.0	8228.2	7676.0	7078.6
2.5°	10548.4	10426.8	10284.4	10079.5	9822.5	9516.8	9159.1	8763.1	8280.3	7717.7	7120.3
0°	10576.2	10472.0	10291.4	10072.6	9829.4	9516.8	9155.6	8770.1	8287.3	7714.2	7116.8



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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°	86.8	83.4	83.4	79.9	76.4	72.9	66.0	62.5	55.6	45.2	34.7
85°	187.6	177.1	166.7	159.8	152.8	145.9	135.5	125.0	111.1	90.3	69.5
82.5°	330.0	309.1	288.3	264.0	243.1	222.3	204.9	187.6	166.7	135.5	104.2
80°	472.4	441.1	409.8	375.1	343.9	309.1	277.9	250.1	222.3	180.6	138.9
77.5°	614.8	573.1	527.9	486.3	441.1	396.0	350.8	312.6	270.9	222.3	173.7
75°	746.8	698.1	656.5	597.4	541.8	482.8	423.7	371.6	319.5	260.5	208.4
72.5°	878.7	816.2	757.2	701.6	639.1	566.1	500.2	434.2	368.2	298.7	236.2
70°	1010.7	934.3	861.4	795.4	725.9	653.0	573.1	496.7	416.8	333.4	260.5
67.5°	1146.2	1059.4	976.0	892.6	812.8	729.4	646.0	559.2	465.4	368.2	288.3
65°	1295.5	1187.9	1087.1	993.4	899.6	809.3	715.5	621.7	517.5	406.4	312.6
62.5°	1444.9	1326.8	1208.7	1090.6	986.4	885.7	785.0	680.8	566.1	448.1	336.9
60°	1604.7	1469.2	1333.7	1201.8	1073.2	962.1	851.0	739.8	618.2	486.3	361.2
57.5°	1781.8	1618.6	1465.7	1316.4	1170.5	1038.5	916.9	798.9	663.4	524.5	389.0
55°	1983.3	1781.8	1601.2	1434.5	1274.7	1114.9	982.9	861.4	715.5	562.7	420.3
52.5°	2195.1	1962.4	1743.6	1556.0	1385.8	1205.2	1045.5	910.0	767.6	600.9	448.1
50°	2441.7	2146.5	1903.4	1674.1	1483.1	1295.5	1111.5	965.6	819.7	646.0	475.8
47.5°	2695.3	2368.8	2063.1	1813.1	1587.3	1382.4	1187.9	1014.2	868.3	687.7	503.6
45°	2990.5	2580.7	2243.7	1948.5	1688.0	1472.7	1264.3	1066.3	910.0	729.4	531.4
42.5°	3275.3	2830.7	2431.3	2097.9	1802.6	1559.5	1333.7	1121.9	951.7	771.1	555.7
40°	3612.2	3080.8	2611.9	2240.3	1917.3	1642.9	1403.2	1180.9	989.9	809.3	580.0
37.5°	3935.2	3334.4	2830.7	2396.6	2028.4	1726.2	1472.7	1236.5	1024.6	847.5	611.3
35°	4254.8	3615.7	3039.1	2542.5	2143.0	1820.0	1542.1	1288.6	1059.4	878.7	639.1
32.5°	4560.4	3879.7	3251.0	2705.7	2268.1	1906.8	1604.7	1337.2	1094.1	906.5	666.9
30°	4845.2	4129.7	3459.4	2872.4	2382.7	1986.7	1663.7	1385.8	1135.8	930.8	694.7
27.5°	5105.7	4372.9	3667.8	3028.7	2490.4	2059.7	1726.2	1431.0	1170.5	955.2	719.0
25°	5341.9	4591.7	3858.8	3171.1	2587.6	2139.5	1785.3	1476.2	1201.8	976.0	739.8
22.5°	5564.2	4793.1	4032.5	3313.5	2705.7	2219.4	1840.8	1517.8	1233.0	996.8	760.7
20°	5758.7	4977.2	4199.2	3455.9	2809.9	2292.4	1889.5	1556.0	1260.8	1010.7	781.5
17.5°	5915.0	5140.5	4348.6	3581.0	2900.2	2354.9	1931.2	1590.8	1285.1	1028.1	795.4
15°	6054.0	5279.4	4473.6	3688.6	2980.1	2407.0	1969.4	1618.6	1306.0	1038.5	812.8
12.5°	6172.0	5397.5	4581.3	3782.4	3049.6	2452.1	2000.6	1639.4	1323.3	1048.9	823.2
10°	6269.3	5491.3	4671.6	3855.4	3105.1	2486.9	2024.9	1660.2	1337.2	1059.4	833.6
7.5°	6342.2	5560.7	4737.6	3917.9	3150.3	2511.2	2045.8	1674.1	1351.1	1066.3	851.0
5°	6397.8	5619.8	4789.7	3959.6	3185.0	2545.9	2070.1	1691.5	1365.0	1073.2	851.0
2.5°	6439.5	5668.4	4831.4	3994.3	3212.8	2539.0	2070.1	1688.0	1365.0	1073.2	847.5
0°	6432.5	5671.9	4827.9	3994.3	3212.8	2532.0	2070.1	1684.5	1365.0	1073.2	847.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.3	17.4	6.9	0.0
85°	52.1	34.7	17.4	0.0
82.5°	76.4	48.6	24.3	0.0
80°	100.7	66.0	31.3	0.0
77.5°	128.5	83.4	41.7	0.0
75°	152.8	97.3	48.6	0.0
72.5°	177.1	114.6	55.6	0.0
70°	198.0	128.5	62.5	0.0
67.5°	218.8	145.9	72.9	0.0
65°	236.2	159.8	79.9	0.0
62.5°	250.1	177.1	86.8	0.0
60°	267.4	191.0	93.8	0.0
57.5°	281.3	201.5	100.7	0.0
55°	295.2	208.4	107.7	0.0
52.5°	309.1	218.8	114.6	0.0
50°	323.0	229.2	121.6	0.0
47.5°	336.9	236.2	125.0	0.0
45°	357.7	246.6	132.0	0.0
42.5°	375.1	253.6	138.9	0.0
40°	392.5	260.5	142.4	0.0
37.5°	409.8	267.4	149.4	0.0
35°	427.2	274.4	152.8	0.0
32.5°	441.1	281.3	156.3	0.0
30°	455.0	288.3	159.8	0.0
27.5°	468.9	291.8	163.2	0.0
25°	479.3	298.7	166.7	0.0
22.5°	489.7	302.2	170.2	0.0
20°	496.7	305.6	173.7	0.0
17.5°	507.1	309.1	177.1	0.0
15°	510.6	312.6	184.1	0.0
12.5°	517.5	316.1	184.1	0.0
10°	521.0	319.5	184.1	0.0
7.5°	527.9	319.5	184.1	0.0
5°	524.5	319.5	184.1	0.0
2.5°	524.5	319.5	184.1	0.0
0°	521.0	319.5	184.1	0.0

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