

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: P628375

Luminaire Tested: **IFLD-L-SA7C-827-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628375
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33538.2 lumens	Max Intensity:	10932.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	90.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

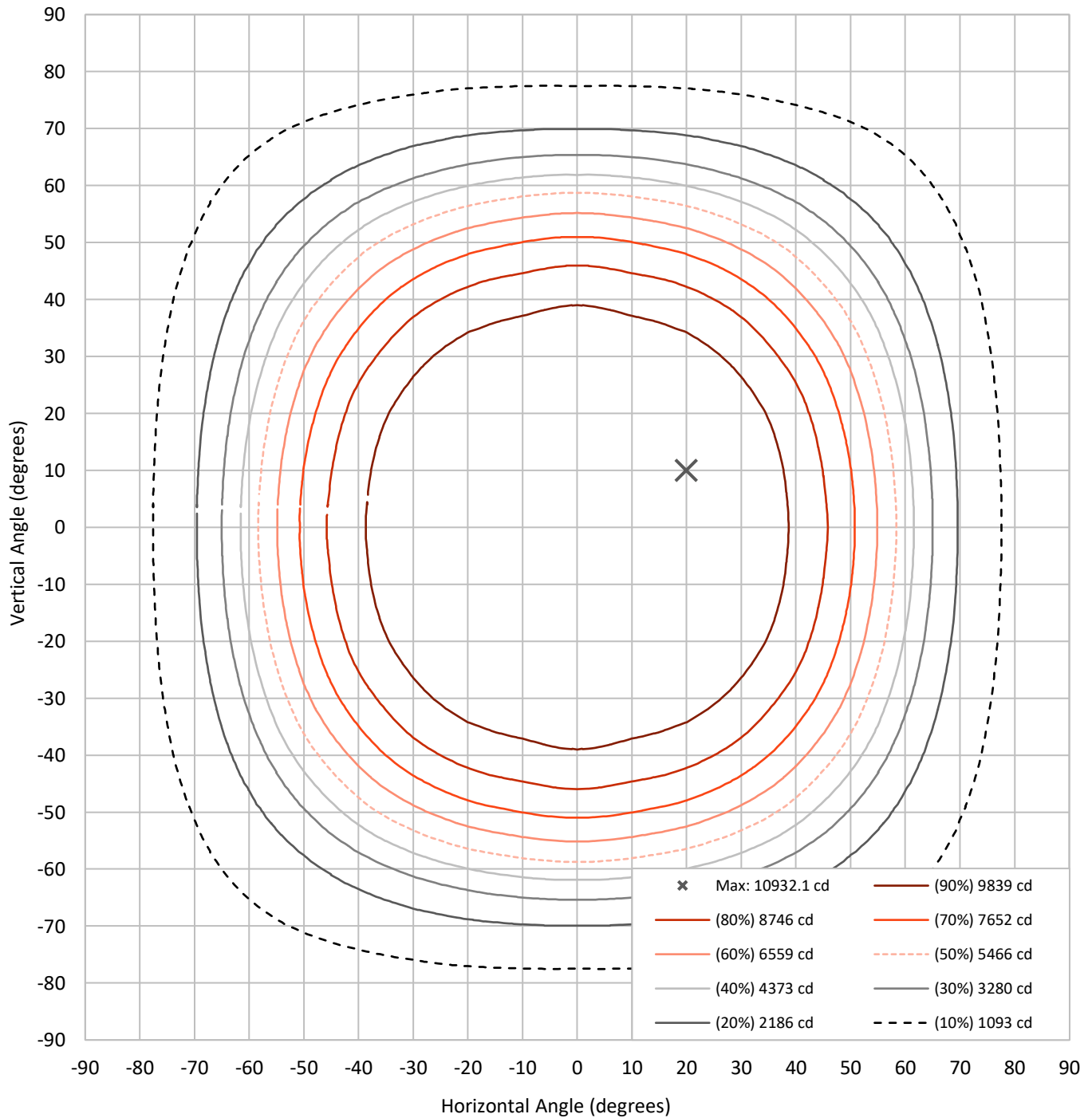
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20579.7 lumens	Field Lumens:	24671.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 369
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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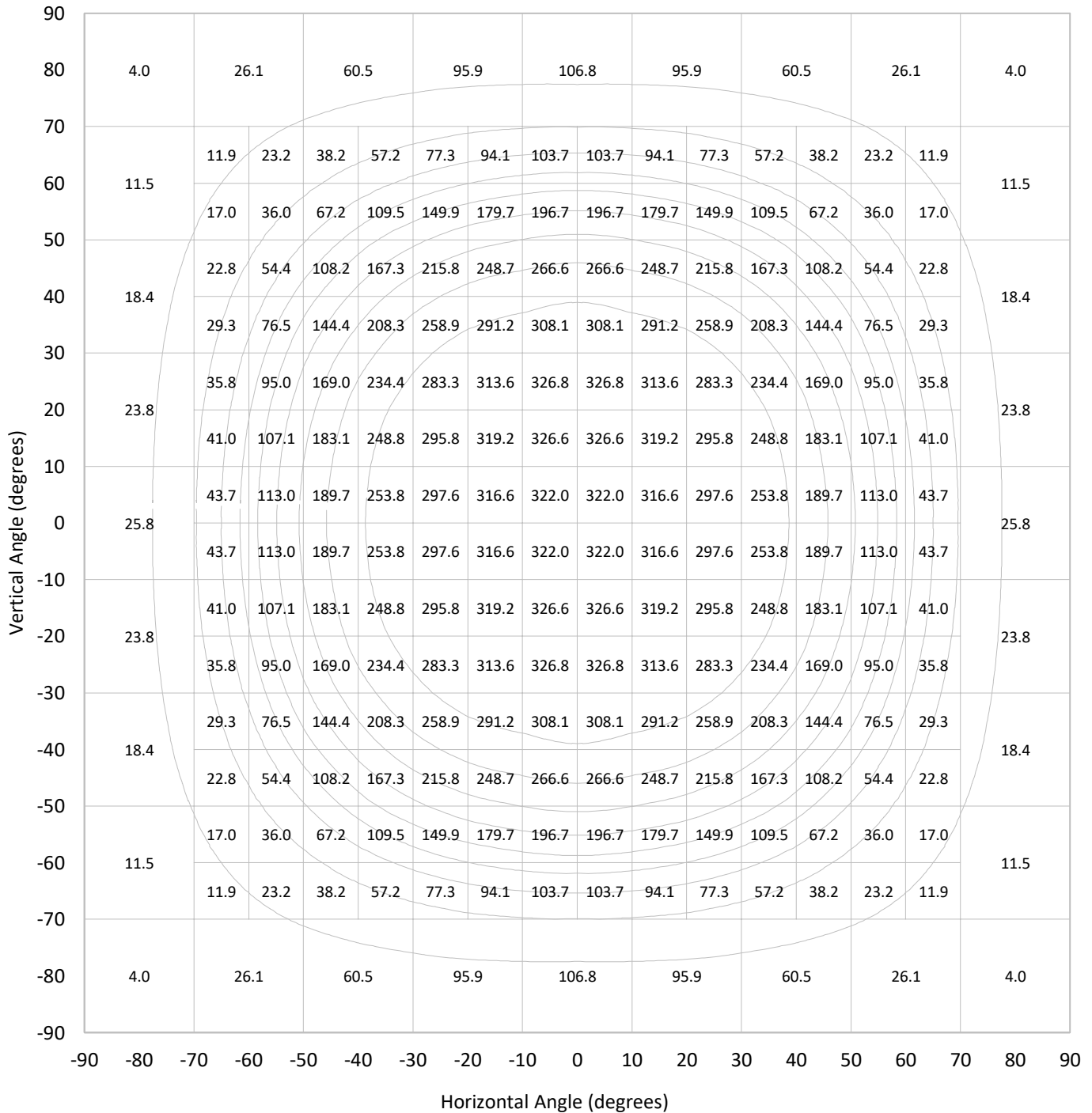
Iso-Candela Plot





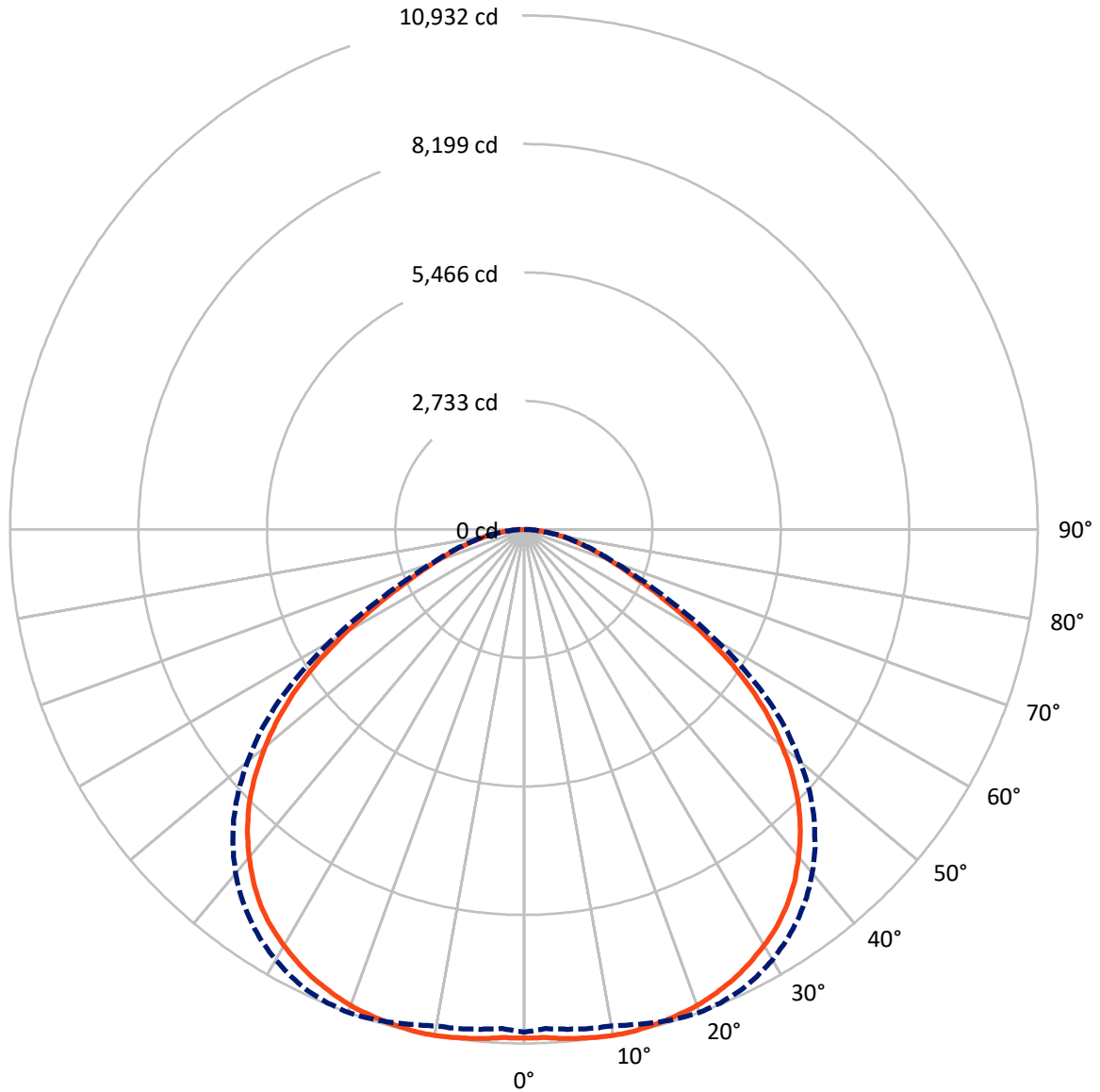
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Lumen Table



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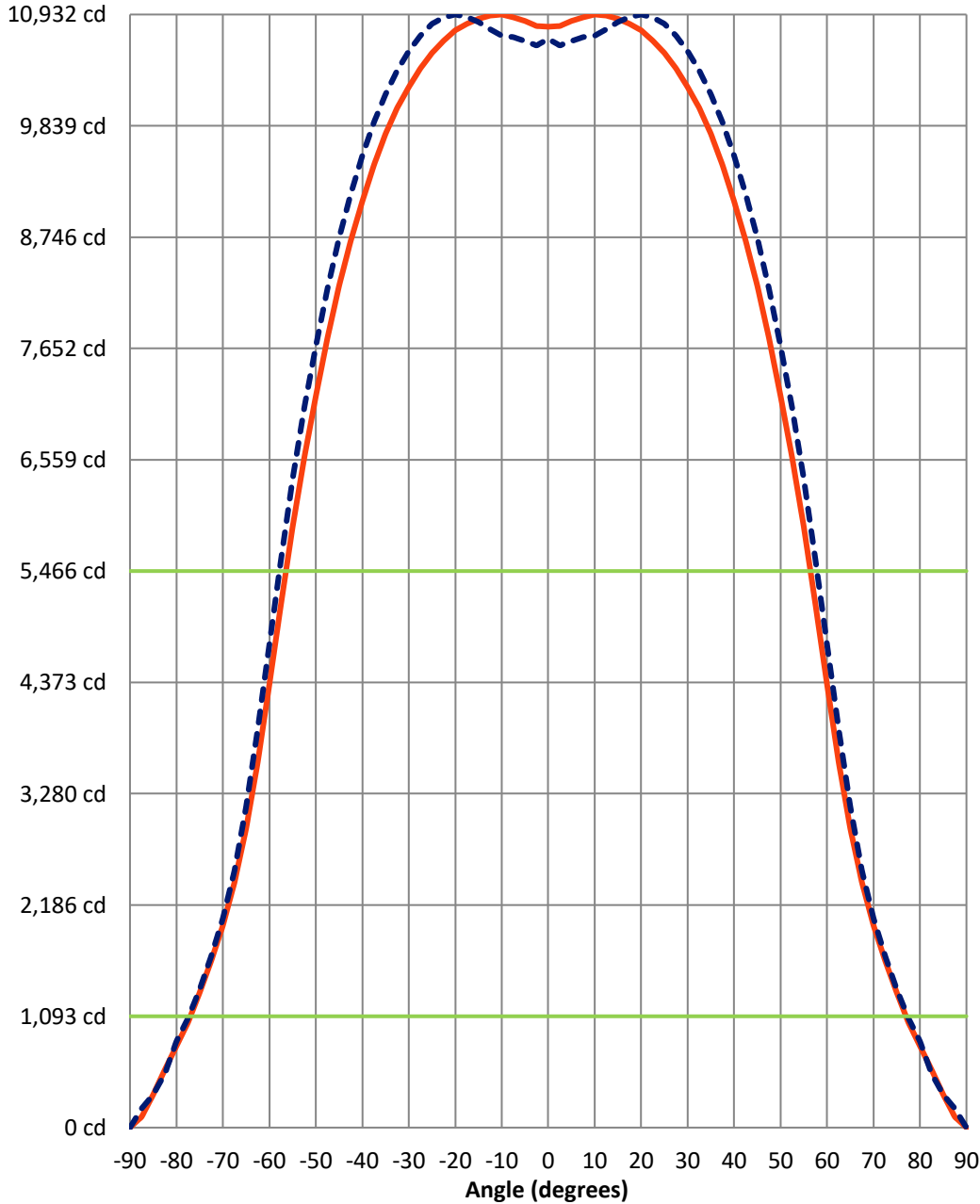
Luminous Intensity Polar Plot



— 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: 20579.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 24671.6
 Efficiency: 73.6%

Spill:
 Lumens: 8866.6
 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°	88.2	95.3	98.8	102.3	105.9	109.4	112.9	109.4	105.9	105.9	102.3
85°	236.4	243.5	247.0	271.7	296.4	310.5	328.2	324.6	324.6	321.1	317.6
82.5°	472.9	494.0	511.7	536.4	550.5	571.7	585.8	575.2	568.1	554.0	543.4
80°	839.8	846.9	850.4	854.0	836.3	832.8	825.7	815.1	801.0	783.4	765.7
77.5°	1069.2	1076.3	1083.3	1076.3	1072.7	1069.2	1058.6	1048.0	1033.9	1019.8	998.6
75°	1415.0	1415.0	1415.0	1404.4	1397.4	1386.8	1369.2	1351.5	1326.8	1298.6	1266.8
72.5°	1782.0	1778.5	1775.0	1753.8	1736.2	1715.0	1690.3	1669.1	1640.9	1609.1	1566.8
70°	2166.7	2173.7	2177.2	2149.0	2127.8	2099.6	2067.9	2029.0	1986.7	1940.8	1880.8
67.5°	2696.0	2688.9	2681.9	2643.0	2614.8	2576.0	2530.1	2473.7	2410.1	2339.6	2254.9
65°	3352.3	3362.9	3341.7	3302.9	3250.0	3186.5	3115.9	3034.7	2939.5	2833.6	2713.6
62.5°	4146.3	4163.9	4139.2	4089.8	4022.8	3938.1	3839.3	3722.8	3592.3	3444.1	3295.9
60°	5049.7	5046.1	5000.3	4933.2	4845.0	4739.1	4629.7	4502.7	4354.5	4181.6	4001.6
57.5°	5878.9	5871.9	5815.4	5748.4	5660.1	5547.2	5430.8	5296.7	5141.4	4957.9	4749.7
55°	6623.5	6616.4	6560.0	6489.4	6397.6	6284.7	6178.9	6051.8	5900.1	5706.0	5483.7
52.5°	7283.4	7286.9	7237.5	7159.9	7061.1	6951.7	6849.3	6722.3	6577.6	6383.5	6168.3
50°	7890.3	7886.8	7833.9	7763.3	7671.5	7565.7	7463.3	7336.3	7184.6	6997.5	6789.3
47.5°	8454.9	8447.9	8387.9	8310.2	8215.0	8123.2	8027.9	7915.0	7756.2	7569.2	7361.0
45°	8927.8	8913.7	8853.7	8779.6	8687.8	8606.7	8522.0	8437.3	8267.9	8095.0	7897.4
42.5°	9333.6	9330.1	9270.1	9196.0	9104.2	9033.6	8956.0	8850.1	8709.0	8550.2	8356.1
40°	9721.7	9693.5	9633.5	9563.0	9478.3	9418.3	9340.6	9234.8	9097.2	8941.9	8754.9
37.5°	10011.1	10014.6	9951.1	9873.5	9799.4	9742.9	9672.3	9573.5	9453.6	9301.8	9114.8
35°	10286.3	10268.7	10215.8	10148.7	10081.7	10018.2	9944.1	9859.4	9760.6	9619.4	9443.0
32.5°	10466.3	10491.0	10427.5	10356.9	10318.1	10268.7	10191.1	10102.9	10014.6	9873.5	9714.7
30°	10663.9	10642.8	10593.3	10533.4	10505.1	10473.4	10406.3	10321.6	10219.3	10092.3	9944.1
27.5°	10801.5	10791.0	10731.0	10674.5	10660.4	10632.2	10579.2	10505.1	10402.8	10279.3	10141.7
25°	10861.5	10868.6	10812.1	10780.4	10780.4	10762.7	10720.4	10656.9	10554.5	10441.6	10307.5
22.5°	10889.8	10882.7	10843.9	10836.8	10854.5	10840.4	10822.7	10766.3	10674.5	10582.8	10469.8
20°	10907.4	10858.0	10822.7	10850.9	10872.1	10868.6	10854.5	10819.2	10776.8	10699.2	10600.4
17.5°	10868.6	10836.8	10794.5	10836.8	10882.7	10886.2	10872.1	10850.9	10840.4	10791.0	10702.7
15°	10773.3	10748.6	10755.7	10798.0	10850.9	10868.6	10879.2	10903.9	10889.8	10850.9	10773.3
12.5°	10709.8	10678.0	10709.8	10752.1	10780.4	10791.0	10875.7	10921.5	10921.5	10886.2	10836.8
10°	10692.2	10628.6	10671.0	10709.8	10723.9	10787.4	10858.0	10907.4	10932.1	10903.9	10840.4
7.5°	10656.9	10614.5	10632.2	10649.8	10731.0	10776.8	10815.7	10868.6	10903.9	10900.4	10843.9
5°	10639.2	10586.3	10593.3	10667.5	10723.9	10755.7	10769.8	10815.7	10868.6	10879.2	10836.8
2.5°	10593.3	10568.6	10621.6	10628.6	10671.0	10695.7	10709.8	10752.1	10819.2	10843.9	10826.2
0°	10568.6	10533.4	10498.1	10526.3	10596.9	10649.8	10671.0	10734.5	10812.1	10836.8	10798.0



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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°	98.8	95.3	91.7	88.2	91.7	91.7	91.7	88.2	91.7	88.2	88.2
85°	307.0	292.9	282.3	268.2	254.1	243.5	229.4	215.3	211.7	208.2	201.1
82.5°	529.3	511.7	494.0	472.9	451.7	427.0	402.3	374.0	367.0	359.9	349.3
80°	744.6	719.9	695.2	670.5	649.3	624.6	596.4	564.6	543.4	525.8	504.6
77.5°	970.4	935.1	899.8	857.5	832.8	808.1	779.9	748.1	716.3	688.1	656.4
75°	1228.0	1189.2	1153.9	1111.6	1065.7	1019.8	973.9	931.6	885.7	843.4	801.0
72.5°	1513.8	1457.4	1400.9	1348.0	1291.5	1235.1	1175.1	1118.6	1062.2	1005.7	945.7
70°	1813.8	1743.2	1672.6	1602.1	1528.0	1453.9	1383.3	1312.7	1242.1	1168.0	1101.0
67.5°	2166.7	2085.5	1993.8	1894.9	1785.6	1690.3	1598.5	1513.8	1429.1	1344.5	1259.8
65°	2607.8	2494.8	2371.3	2237.2	2110.2	1983.2	1849.1	1722.0	1623.2	1524.4	1429.1
62.5°	3151.2	2992.4	2819.5	2646.6	2491.3	2325.5	2170.2	2004.3	1849.1	1707.9	1591.5
60°	3800.5	3585.2	3373.5	3151.2	2935.9	2710.1	2512.5	2307.8	2113.7	1940.8	1771.4
57.5°	4516.8	4266.3	4012.2	3740.5	3447.6	3182.9	2914.8	2646.6	2417.2	2187.8	1997.3
55°	5243.7	4979.1	4693.3	4386.3	4065.1	3726.4	3362.9	3063.0	2748.9	2480.7	2233.7
52.5°	5935.4	5660.1	5363.7	5081.4	4696.8	4308.6	3909.9	3514.6	3147.7	2805.4	2505.4
50°	6552.9	6284.7	5998.9	5670.7	5314.3	4901.5	4456.8	4012.2	3578.2	3175.9	2801.8
47.5°	7117.5	6856.4	6570.6	6242.4	5917.7	5459.0	5010.8	4520.3	4036.9	3574.6	3137.1
45°	7646.8	7382.2	7085.8	6771.7	6397.6	5988.3	5526.0	5032.0	4513.3	3994.6	3489.9
42.5°	8126.7	7862.1	7562.1	7237.5	6867.0	6461.2	6013.0	5515.5	4993.2	4428.6	3874.6
40°	8546.7	8289.1	7999.7	7660.9	7315.1	6888.1	6447.1	5974.2	5434.3	4866.2	4255.7
37.5°	8913.7	8673.7	8387.9	8052.6	7685.6	7304.5	6849.3	6376.5	5889.5	5272.0	4647.4
35°	9238.3	9016.0	8723.1	8405.5	8045.6	7643.3	7216.3	6754.1	6228.3	5649.6	5042.6
32.5°	9520.6	9294.8	9026.6	8709.0	8359.6	7982.1	7544.5	7078.7	6581.1	5991.8	5332.0
30°	9760.6	9541.8	9287.7	8987.8	8652.5	8278.5	7851.5	7382.2	6874.0	6288.3	5635.4
27.5°	9968.8	9760.6	9513.5	9234.8	8913.7	8553.7	8123.2	7650.4	7131.6	6567.0	5914.2
25°	10148.7	9947.6	9718.2	9453.6	9136.0	8783.1	8377.3	7883.3	7364.5	6796.4	6150.6
22.5°	10311.0	10117.0	9887.6	9630.0	9340.6	8987.8	8578.4	8087.9	7562.1	7001.1	6365.9
20°	10455.7	10275.8	10049.9	9785.3	9495.9	9139.5	8733.7	8267.9	7738.6	7188.1	6560.0
17.5°	10572.2	10413.4	10187.5	9908.8	9619.4	9273.6	8878.4	8451.4	7890.3	7346.9	6722.3
15°	10653.3	10498.1	10293.4	10011.1	9728.8	9386.5	8991.3	8550.2	8027.9	7473.9	6856.4
12.5°	10709.8	10543.9	10353.4	10092.3	9810.0	9471.2	9086.6	8652.5	8144.4	7586.8	6972.8
10°	10723.9	10572.2	10381.6	10148.7	9873.5	9545.3	9167.7	8737.2	8239.7	7675.1	7068.1
7.5°	10731.0	10586.3	10413.4	10191.1	9919.4	9601.8	9227.7	8804.3	8310.2	7749.2	7138.7
5°	10727.4	10589.8	10434.6	10219.3	9947.6	9633.5	9266.5	8850.1	8359.6	7798.6	7191.6
2.5°	10716.9	10593.3	10448.7	10240.5	9979.3	9668.8	9305.4	8903.1	8412.6	7840.9	7234.0
0°	10745.1	10639.2	10455.7	10233.4	9986.4	9668.8	9301.8	8910.1	8419.6	7837.4	7230.4



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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°	88.2	84.7	84.7	81.2	77.6	74.1	67.0	63.5	56.5	45.9	35.3
85°	190.6	180.0	169.4	162.3	155.3	148.2	137.6	127.0	112.9	91.7	70.6
82.5°	335.2	314.1	292.9	268.2	247.0	225.8	208.2	190.6	169.4	137.6	105.9
80°	479.9	448.2	416.4	381.1	349.3	314.1	282.3	254.1	225.8	183.5	141.2
77.5°	624.6	582.2	536.4	494.0	448.2	402.3	356.4	317.6	275.2	225.8	176.4
75°	758.7	709.3	666.9	606.9	550.5	490.5	430.5	377.6	324.6	264.7	211.7
72.5°	892.8	829.3	769.3	712.8	649.3	575.2	508.1	441.1	374.0	303.5	240.0
70°	1026.9	949.2	875.1	808.1	737.5	663.4	582.2	504.6	423.5	338.8	264.7
67.5°	1164.5	1076.3	991.6	906.9	825.7	741.0	656.4	568.1	472.9	374.0	292.9
65°	1316.2	1206.8	1104.5	1009.2	913.9	822.2	726.9	631.6	525.8	412.9	317.6
62.5°	1468.0	1348.0	1228.0	1108.0	1002.2	899.8	797.5	691.6	575.2	455.2	342.3
60°	1630.3	1492.7	1355.0	1221.0	1090.4	977.5	864.5	751.6	628.1	494.0	367.0
57.5°	1810.3	1644.4	1489.1	1337.4	1189.2	1055.1	931.6	811.6	674.0	532.8	395.2
55°	2014.9	1810.3	1626.8	1457.4	1295.1	1132.7	998.6	875.1	726.9	571.7	427.0
52.5°	2230.2	1993.8	1771.4	1580.9	1408.0	1224.5	1062.2	924.5	779.9	610.5	455.2
50°	2480.7	2180.8	1933.8	1700.9	1506.8	1316.2	1129.2	981.0	832.8	656.4	483.4
47.5°	2738.3	2406.6	2096.1	1842.0	1612.6	1404.4	1206.8	1030.4	882.2	698.7	511.7
45°	3038.3	2621.9	2279.6	1979.6	1715.0	1496.2	1284.5	1083.3	924.5	741.0	539.9
42.5°	3327.6	2875.9	2470.1	2131.4	1831.4	1584.4	1355.0	1139.8	966.9	783.4	564.6
40°	3669.9	3130.0	2653.6	2276.1	1947.9	1669.1	1425.6	1199.8	1005.7	822.2	589.3
37.5°	3998.1	3387.6	2875.9	2434.8	2060.8	1753.8	1496.2	1256.2	1041.0	861.0	621.1
35°	4322.7	3673.4	3087.7	2583.1	2177.2	1849.1	1566.8	1309.2	1076.3	892.8	649.3
32.5°	4633.3	3941.6	3302.9	2748.9	2304.3	1937.3	1630.3	1358.6	1111.6	921.0	677.5
30°	4922.6	4195.7	3514.6	2918.3	2420.7	2018.5	1690.3	1408.0	1153.9	945.7	705.8
27.5°	5187.3	4442.7	3726.4	3077.1	2530.1	2092.6	1753.8	1453.9	1189.2	970.4	730.5
25°	5427.2	4665.0	3920.5	3221.8	2628.9	2173.7	1813.8	1499.7	1221.0	991.6	751.6
22.5°	5653.1	4869.7	4096.9	3366.4	2748.9	2254.9	1870.2	1542.1	1252.7	1012.8	772.8
20°	5850.7	5056.7	4266.3	3511.1	2854.8	2329.0	1919.6	1580.9	1280.9	1026.9	794.0
17.5°	6009.5	5222.6	4418.0	3638.2	2946.5	2392.5	1962.0	1616.2	1305.6	1044.5	808.1
15°	6150.6	5363.7	4545.0	3747.5	3027.7	2445.4	2000.8	1644.4	1326.8	1055.1	825.7
12.5°	6270.6	5483.7	4654.4	3842.8	3098.3	2491.3	2032.6	1665.6	1344.5	1065.7	836.3
10°	6369.4	5579.0	4746.2	3916.9	3154.7	2526.6	2057.3	1686.7	1358.6	1076.3	846.9
7.5°	6443.5	5649.6	4813.2	3980.4	3200.6	2551.3	2078.4	1700.9	1372.7	1083.3	864.5
5°	6500.0	5709.5	4866.2	4022.8	3235.9	2586.6	2103.1	1718.5	1386.8	1090.4	864.5
2.5°	6542.3	5758.9	4908.5	4058.1	3264.1	2579.5	2103.1	1715.0	1386.8	1090.4	861.0
0°	6535.3	5762.5	4905.0	4058.1	3264.1	2572.5	2103.1	1711.5	1386.8	1090.4	861.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.7	17.6	7.1	0.0
85°	52.9	35.3	17.6	0.0
82.5°	77.6	49.4	24.7	0.0
80°	102.3	67.0	31.8	0.0
77.5°	130.6	84.7	42.3	0.0
75°	155.3	98.8	49.4	0.0
72.5°	180.0	116.4	56.5	0.0
70°	201.1	130.6	63.5	0.0
67.5°	222.3	148.2	74.1	0.0
65°	240.0	162.3	81.2	0.0
62.5°	254.1	180.0	88.2	0.0
60°	271.7	194.1	95.3	0.0
57.5°	285.8	204.7	102.3	0.0
55°	299.9	211.7	109.4	0.0
52.5°	314.1	222.3	116.4	0.0
50°	328.2	232.9	123.5	0.0
47.5°	342.3	240.0	127.0	0.0
45°	363.5	250.5	134.1	0.0
42.5°	381.1	257.6	141.2	0.0
40°	398.8	264.7	144.7	0.0
37.5°	416.4	271.7	151.7	0.0
35°	434.0	278.8	155.3	0.0
32.5°	448.2	285.8	158.8	0.0
30°	462.3	292.9	162.3	0.0
27.5°	476.4	296.4	165.9	0.0
25°	487.0	303.5	169.4	0.0
22.5°	497.6	307.0	172.9	0.0
20°	504.6	310.5	176.4	0.0
17.5°	515.2	314.1	180.0	0.0
15°	518.7	317.6	187.0	0.0
12.5°	525.8	321.1	187.0	0.0
10°	529.3	324.6	187.0	0.0
7.5°	536.4	324.6	187.0	0.0
5°	532.8	324.6	187.0	0.0
2.5°	532.8	324.6	187.0	0.0
0°	529.3	324.6	187.0	0.0

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