

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: P628188

Luminaire Tested: **IFLD-S-SA3E-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628188
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

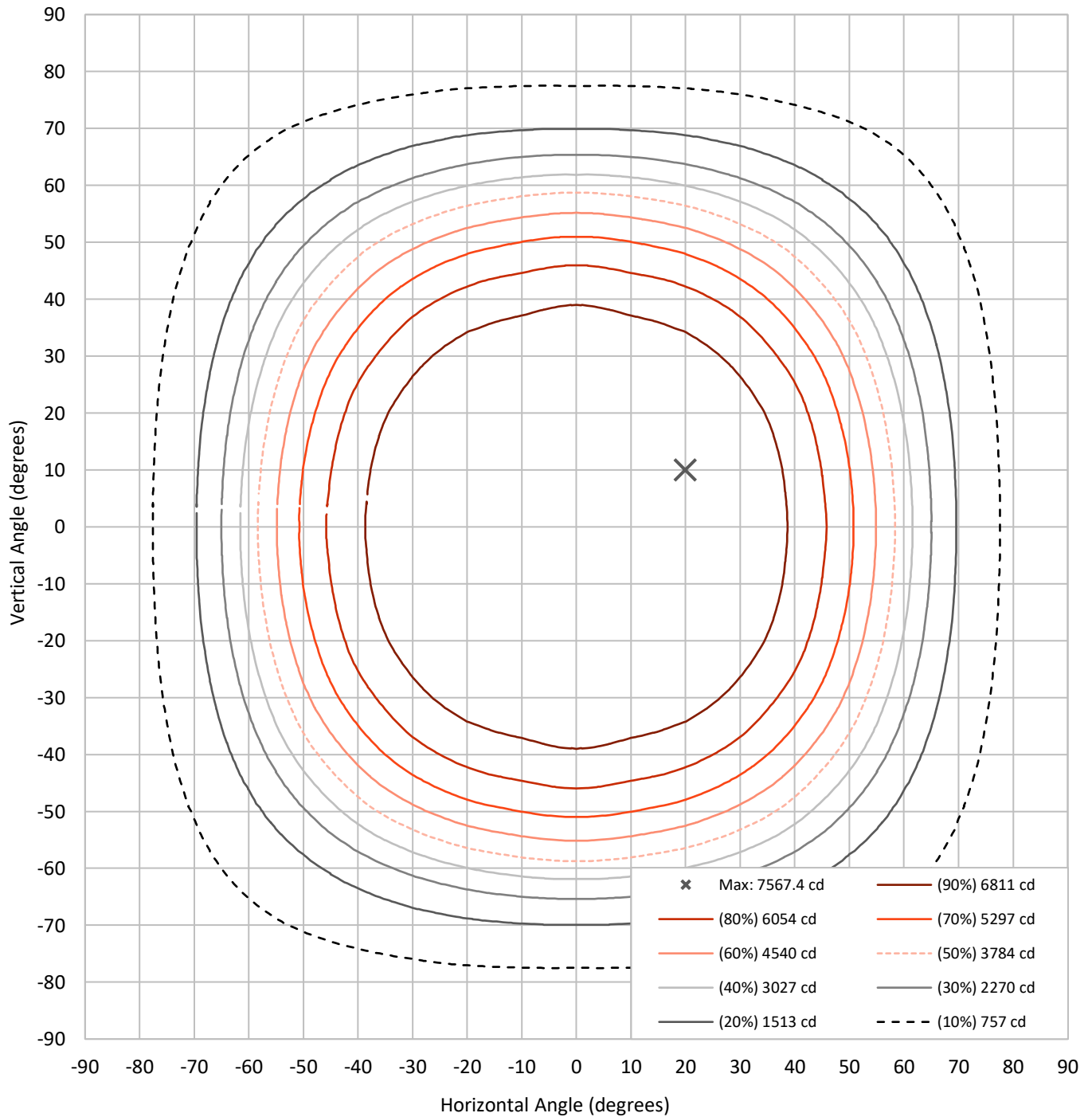
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23215.8 lumens	Max Intensity:	7567.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	100.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	14245.7 lumens	Field Lumens:	17078.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	232.1		
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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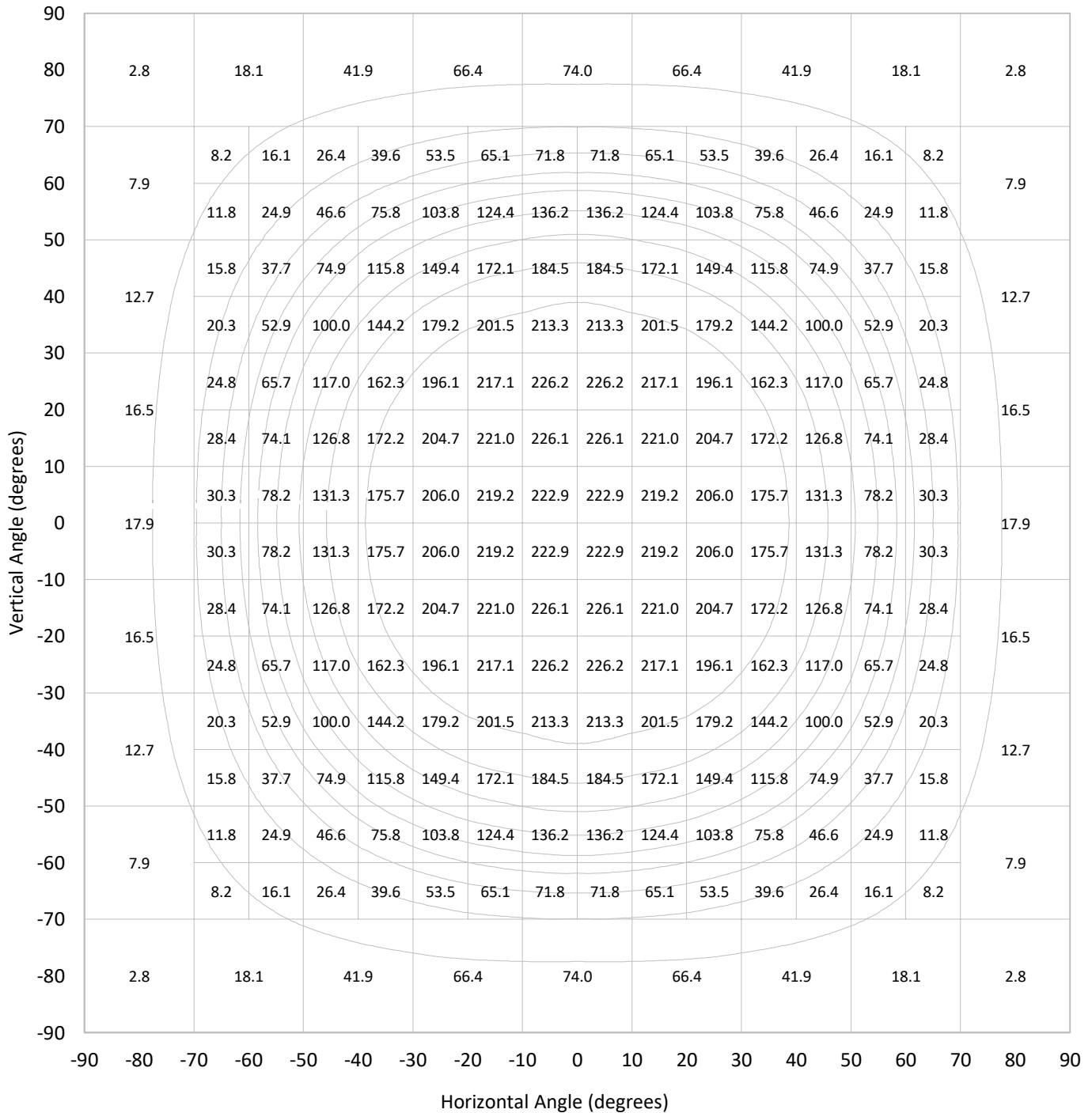
Iso-Candela Plot





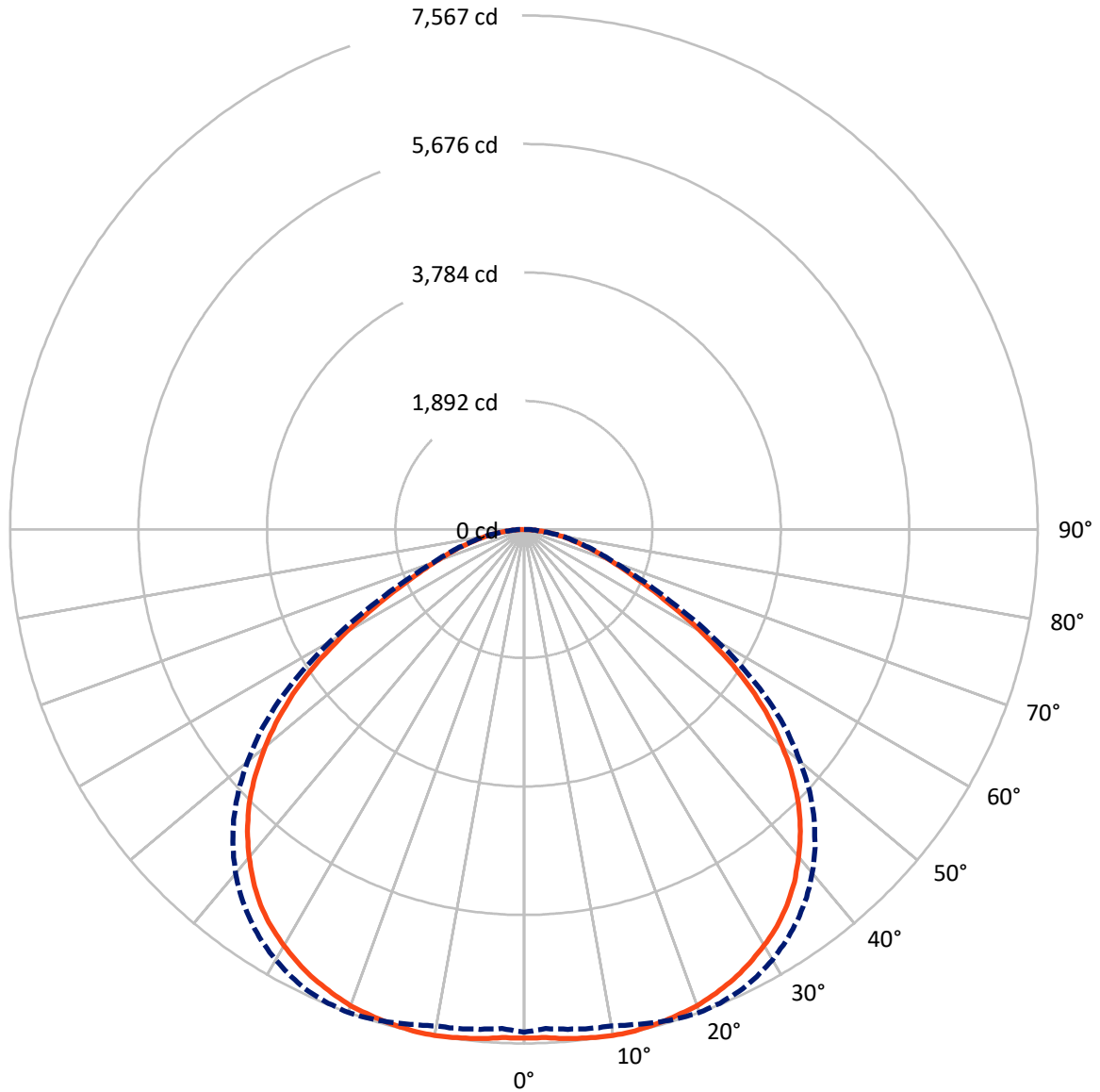
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Lumen Table



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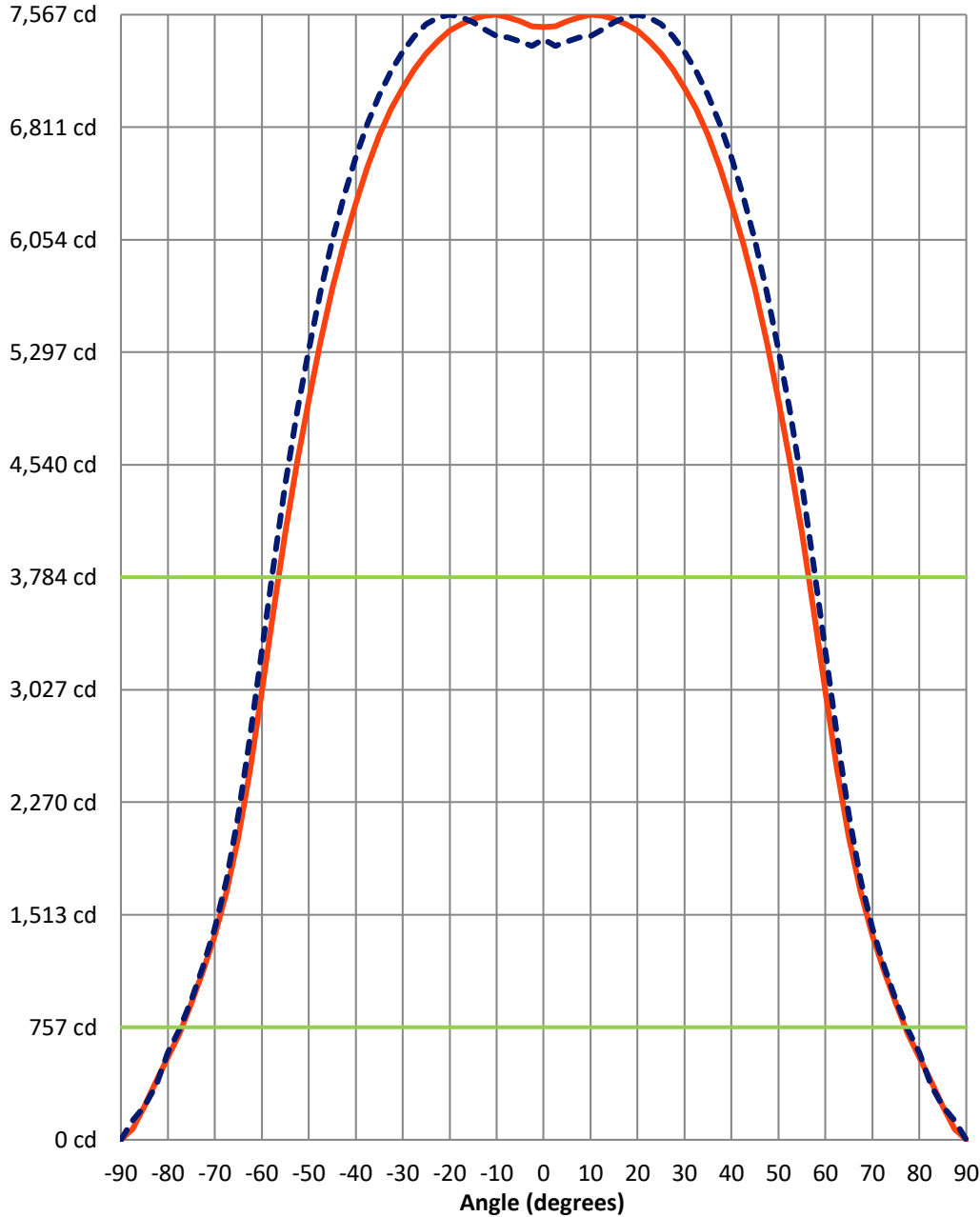
Luminous Intensity Polar Plot



— 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: 14245.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 17078.2
 Efficiency: 73.6%

Spill:
 Lumens: 6137.7
 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°	61.1	66.0	68.4	70.8	73.3	75.7	78.2	75.7	73.3	73.3	70.8
85°	163.7	168.5	171.0	188.1	205.2	215.0	227.2	224.7	224.7	222.3	219.8
82.5°	327.3	342.0	354.2	371.3	381.1	395.7	405.5	398.2	393.3	383.5	376.2
80°	581.4	586.2	588.7	591.1	578.9	576.5	571.6	564.3	554.5	542.3	530.1
77.5°	740.1	745.0	749.9	745.0	742.6	740.1	732.8	725.5	715.7	705.9	691.3
75°	979.5	979.5	979.5	972.2	967.3	960.0	947.8	935.5	918.4	898.9	876.9
72.5°	1233.6	1231.1	1228.7	1214.0	1201.8	1187.1	1170.0	1155.4	1135.8	1113.9	1084.6
70°	1499.8	1504.7	1507.1	1487.6	1472.9	1453.4	1431.4	1404.5	1375.2	1343.5	1301.9
67.5°	1866.2	1861.3	1856.4	1829.6	1810.0	1783.2	1751.4	1712.3	1668.4	1619.5	1560.9
65°	2320.5	2327.9	2313.2	2286.4	2249.7	2205.7	2156.9	2100.7	2034.8	1961.5	1878.4
62.5°	2870.2	2882.4	2865.3	2831.1	2784.7	2726.0	2657.6	2577.0	2486.7	2384.1	2281.5
60°	3495.5	3493.0	3461.3	3414.9	3353.8	3280.5	3204.8	3116.9	3014.3	2894.6	2770.0
57.5°	4069.5	4064.6	4025.5	3979.1	3918.1	3839.9	3759.3	3666.5	3559.0	3432.0	3287.9
55°	4584.9	4580.0	4540.9	4492.1	4428.6	4350.4	4277.1	4189.2	4084.2	3949.8	3795.9
52.5°	5041.7	5044.1	5009.9	4956.2	4887.8	4812.1	4741.2	4653.3	4553.2	4418.8	4269.8
50°	5461.8	5459.4	5422.8	5373.9	5310.4	5237.1	5166.3	5078.3	4973.3	4843.8	4699.7
47.5°	5852.7	5847.8	5806.3	5752.5	5686.6	5623.1	5557.1	5478.9	5369.0	5239.6	5095.4
45°	6180.0	6170.2	6128.7	6077.4	6013.9	5957.7	5899.1	5840.5	5723.2	5603.5	5466.7
42.5°	6460.9	6458.5	6416.9	6365.6	6302.1	6253.3	6199.5	6126.2	6028.5	5918.6	5784.3
40°	6729.6	6710.0	6668.5	6619.7	6561.0	6519.5	6465.8	6392.5	6297.2	6189.8	6060.3
37.5°	6929.9	6932.3	6888.4	6834.6	6783.3	6744.2	6695.4	6627.0	6543.9	6438.9	6309.4
35°	7120.4	7108.2	7071.6	7025.2	6978.7	6934.8	6883.5	6824.9	6756.5	6658.8	6536.6
32.5°	7245.0	7262.1	7218.1	7169.3	7142.4	7108.2	7054.5	6993.4	6932.3	6834.6	6724.7
30°	7381.8	7367.1	7332.9	7291.4	7271.9	7249.9	7203.5	7144.8	7074.0	6986.1	6883.5
27.5°	7477.1	7469.7	7428.2	7389.1	7379.3	7359.8	7323.2	7271.9	7201.0	7115.5	7020.3
25°	7518.6	7523.5	7484.4	7462.4	7462.4	7450.2	7420.9	7376.9	7306.1	7227.9	7135.1
22.5°	7538.1	7533.2	7506.4	7501.5	7513.7	7503.9	7491.7	7452.6	7389.1	7325.6	7247.4
20°	7550.3	7516.1	7491.7	7511.2	7525.9	7523.5	7513.7	7489.3	7460.0	7406.2	7337.8
17.5°	7523.5	7501.5	7472.2	7501.5	7533.2	7535.7	7525.9	7511.2	7503.9	7469.7	7408.7
15°	7457.5	7440.4	7445.3	7474.6	7511.2	7523.5	7530.8	7547.9	7538.1	7511.2	7457.5
12.5°	7413.5	7391.6	7413.5	7442.9	7462.4	7469.7	7528.3	7560.1	7560.1	7535.7	7501.5
10°	7401.3	7357.4	7386.7	7413.5	7423.3	7467.3	7516.1	7550.3	7567.4	7547.9	7503.9
7.5°	7376.9	7347.6	7359.8	7372.0	7428.2	7460.0	7486.8	7523.5	7547.9	7545.4	7506.4
5°	7364.7	7328.0	7332.9	7384.2	7423.3	7445.3	7455.1	7486.8	7523.5	7530.8	7501.5
2.5°	7332.9	7315.8	7352.5	7357.4	7386.7	7403.8	7413.5	7442.9	7489.3	7506.4	7494.1
0°	7315.8	7291.4	7267.0	7286.5	7335.4	7372.0	7386.7	7430.6	7484.4	7501.5	7474.6



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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°	68.4	66.0	63.5	61.1	63.5	63.5	63.5	61.1	63.5	61.1	61.1
85°	212.5	202.7	195.4	185.6	175.9	168.5	158.8	149.0	146.6	144.1	139.2
82.5°	366.4	354.2	342.0	327.3	312.7	295.6	278.5	258.9	254.0	249.2	241.8
80°	515.4	498.3	481.2	464.1	449.5	432.4	412.8	390.8	376.2	364.0	349.3
77.5°	671.7	647.3	622.9	593.6	576.5	559.4	539.8	517.8	495.9	476.3	454.3
75°	850.1	823.2	798.8	769.4	737.7	705.9	674.2	644.9	613.1	583.8	554.5
72.5°	1047.9	1008.8	969.7	933.1	894.0	854.9	813.4	774.3	735.2	696.2	654.6
70°	1255.5	1206.7	1157.8	1109.0	1057.7	1006.4	957.5	908.7	859.8	808.5	762.1
67.5°	1499.8	1443.6	1380.1	1311.7	1236.0	1170.0	1106.5	1047.9	989.3	930.7	872.0
65°	1805.1	1727.0	1641.5	1548.7	1460.7	1372.8	1280.0	1192.0	1123.6	1055.2	989.3
62.5°	2181.3	2071.4	1951.7	1832.0	1724.5	1609.7	1502.2	1387.4	1280.0	1182.3	1101.6
60°	2630.8	2481.8	2335.2	2181.3	2032.3	1876.0	1739.2	1597.5	1463.2	1343.5	1226.2
57.5°	3126.6	2953.2	2777.3	2589.2	2386.5	2203.3	2017.7	1832.0	1673.2	1514.5	1382.6
55°	3629.8	3446.6	3248.8	3036.3	2814.0	2579.5	2327.9	2120.2	1902.8	1717.2	1546.2
52.5°	4108.6	3918.1	3712.9	3517.5	3251.2	2982.5	2706.5	2432.9	2178.9	1941.9	1734.3
50°	4536.1	4350.4	4152.6	3925.4	3678.7	3392.9	3085.1	2777.3	2476.9	2198.4	1939.5
47.5°	4926.9	4746.1	4548.3	4321.1	4096.4	3778.8	3468.6	3129.1	2794.4	2474.4	2171.5
45°	5293.3	5110.1	4904.9	4687.5	4428.6	4145.2	3825.2	3483.3	3124.2	2765.1	2415.8
42.5°	5625.5	5442.3	5234.7	5009.9	4753.5	4472.6	4162.3	3817.9	3456.4	3065.6	2682.1
40°	5916.2	5737.9	5537.6	5303.1	5063.7	4768.1	4462.8	4135.5	3761.7	3368.5	2945.9
37.5°	6170.2	6004.1	5806.3	5574.2	5320.2	5056.4	4741.2	4413.9	4076.8	3649.4	3217.0
35°	6394.9	6241.1	6038.3	5818.5	5569.3	5290.9	4995.3	4675.3	4311.3	3910.7	3490.6
32.5°	6590.4	6434.0	6248.4	6028.5	5786.7	5525.3	5222.5	4900.0	4555.6	4147.7	3690.9
30°	6756.5	6605.0	6429.1	6221.5	5989.5	5730.5	5435.0	5110.1	4758.3	4352.9	3901.0
27.5°	6900.6	6756.5	6585.5	6392.5	6170.2	5921.1	5623.1	5295.7	4936.7	4545.8	4093.9
25°	7025.2	6885.9	6727.1	6543.9	6324.1	6079.8	5798.9	5457.0	5097.9	4704.6	4257.6
22.5°	7137.5	7003.2	6844.4	6666.1	6465.8	6221.5	5938.2	5598.6	5234.7	4846.3	4406.6
20°	7237.7	7113.1	6956.8	6773.6	6573.3	6326.5	6045.6	5723.2	5356.8	4975.7	4540.9
17.5°	7318.3	7208.4	7052.0	6859.1	6658.8	6419.4	6145.8	5850.2	5461.8	5085.7	4653.3
15°	7374.5	7267.0	7125.3	6929.9	6734.5	6497.5	6224.0	5918.6	5557.1	5173.6	4746.1
12.5°	7413.5	7298.7	7166.8	6986.1	6790.7	6556.2	6289.9	5989.5	5637.7	5251.8	4826.7
10°	7423.3	7318.3	7186.4	7025.2	6834.6	6607.5	6346.1	6048.1	5703.7	5312.8	4892.7
7.5°	7428.2	7328.0	7208.4	7054.5	6866.4	6646.5	6387.6	6094.5	5752.5	5364.1	4941.5
5°	7425.8	7330.5	7223.0	7074.0	6885.9	6668.5	6414.5	6126.2	5786.7	5398.3	4978.2
2.5°	7418.4	7332.9	7232.8	7088.7	6907.9	6693.0	6441.4	6162.9	5823.4	5427.6	5007.5
0°	7438.0	7364.7	7237.7	7083.8	6912.8	6693.0	6438.9	6167.8	5828.2	5425.2	5005.1



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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°	61.1	58.6	58.6	56.2	53.7	51.3	46.4	44.0	39.1	31.8	24.4
85°	131.9	124.6	117.2	112.4	107.5	102.6	95.3	87.9	78.2	63.5	48.9
82.5°	232.1	217.4	202.7	185.6	171.0	156.3	144.1	131.9	117.2	95.3	73.3
80°	332.2	310.2	288.2	263.8	241.8	217.4	195.4	175.9	156.3	127.0	97.7
77.5°	432.4	403.0	371.3	342.0	310.2	278.5	246.7	219.8	190.5	156.3	122.1
75°	525.2	491.0	461.7	420.1	381.1	339.5	298.0	261.4	224.7	183.2	146.6
72.5°	618.0	574.0	532.5	493.4	449.5	398.2	351.7	305.3	258.9	210.1	166.1
70°	710.8	657.1	605.8	559.4	510.5	459.2	403.0	349.3	293.1	234.5	183.2
67.5°	806.1	745.0	686.4	627.8	571.6	513.0	454.3	393.3	327.3	258.9	202.7
65°	911.1	835.4	764.6	698.6	632.7	569.1	503.2	437.2	364.0	285.8	219.8
62.5°	1016.2	933.1	850.1	767.0	693.7	622.9	552.0	478.8	398.2	315.1	236.9
60°	1128.5	1033.3	938.0	845.2	754.8	676.6	598.5	520.3	434.8	342.0	254.0
57.5°	1253.1	1138.3	1030.8	925.8	823.2	730.4	644.9	561.8	466.6	368.8	273.6
55°	1394.8	1253.1	1126.1	1008.8	896.5	784.1	691.3	605.8	503.2	395.7	295.6
52.5°	1543.8	1380.1	1226.2	1094.3	974.6	847.6	735.2	640.0	539.8	422.6	315.1
50°	1717.2	1509.6	1338.6	1177.4	1043.0	911.1	781.7	679.1	576.5	454.3	334.6
47.5°	1895.5	1665.9	1451.0	1275.1	1116.3	972.2	835.4	713.3	610.7	483.7	354.2
45°	2103.1	1814.9	1578.0	1370.3	1187.1	1035.7	889.1	749.9	640.0	513.0	373.7
42.5°	2303.4	1990.8	1709.9	1475.4	1267.8	1096.8	938.0	789.0	669.3	542.3	390.8
40°	2540.4	2166.7	1836.9	1575.5	1348.4	1155.4	986.8	830.5	696.2	569.1	407.9
37.5°	2767.6	2345.0	1990.8	1685.5	1426.5	1214.0	1035.7	869.6	720.6	596.0	429.9
35°	2992.3	2542.8	2137.3	1788.0	1507.1	1280.0	1084.6	906.2	745.0	618.0	449.5
32.5°	3207.2	2728.5	2286.4	1902.8	1595.1	1341.0	1128.5	940.4	769.4	637.5	469.0
30°	3407.5	2904.3	2432.9	2020.1	1675.7	1397.2	1170.0	974.6	798.8	654.6	488.5
27.5°	3590.7	3075.3	2579.5	2130.0	1751.4	1448.5	1214.0	1006.4	823.2	671.7	505.6
25°	3756.8	3229.2	2713.8	2230.2	1819.8	1504.7	1255.5	1038.1	845.2	686.4	520.3
22.5°	3913.2	3370.9	2836.0	2330.3	1902.8	1560.9	1294.6	1067.5	867.2	701.0	534.9
20°	4050.0	3500.4	2953.2	2430.5	1976.1	1612.2	1328.8	1094.3	886.7	710.8	549.6
17.5°	4159.9	3615.2	3058.2	2518.4	2039.6	1656.1	1358.1	1118.7	903.8	723.0	559.4
15°	4257.6	3712.9	3146.2	2594.1	2095.8	1692.8	1385.0	1138.3	918.4	730.4	571.6
12.5°	4340.6	3795.9	3221.9	2660.1	2144.7	1724.5	1407.0	1152.9	930.7	737.7	578.9
10°	4409.0	3861.9	3285.4	2711.4	2183.8	1749.0	1424.1	1167.6	940.4	745.0	586.2
7.5°	4460.3	3910.7	3331.8	2755.3	2215.5	1766.1	1438.7	1177.4	950.2	749.9	598.5
5°	4499.4	3952.3	3368.5	2784.7	2239.9	1790.5	1455.8	1189.6	960.0	754.8	598.5
2.5°	4528.7	3986.5	3397.8	2809.1	2259.5	1785.6	1455.8	1187.1	960.0	754.8	596.0
0°	4523.8	3988.9	3395.3	2809.1	2259.5	1780.7	1455.8	1184.7	960.0	754.8	596.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.1	12.2	4.9	0.0
85°	36.6	24.4	12.2	0.0
82.5°	53.7	34.2	17.1	0.0
80°	70.8	46.4	22.0	0.0
77.5°	90.4	58.6	29.3	0.0
75°	107.5	68.4	34.2	0.0
72.5°	124.6	80.6	39.1	0.0
70°	139.2	90.4	44.0	0.0
67.5°	153.9	102.6	51.3	0.0
65°	166.1	112.4	56.2	0.0
62.5°	175.9	124.6	61.1	0.0
60°	188.1	134.3	66.0	0.0
57.5°	197.9	141.7	70.8	0.0
55°	207.6	146.6	75.7	0.0
52.5°	217.4	153.9	80.6	0.0
50°	227.2	161.2	85.5	0.0
47.5°	236.9	166.1	87.9	0.0
45°	251.6	173.4	92.8	0.0
42.5°	263.8	178.3	97.7	0.0
40°	276.0	183.2	100.1	0.0
37.5°	288.2	188.1	105.0	0.0
35°	300.4	193.0	107.5	0.0
32.5°	310.2	197.9	109.9	0.0
30°	320.0	202.7	112.4	0.0
27.5°	329.8	205.2	114.8	0.0
25°	337.1	210.1	117.2	0.0
22.5°	344.4	212.5	119.7	0.0
20°	349.3	215.0	122.1	0.0
17.5°	356.6	217.4	124.6	0.0
15°	359.1	219.8	129.5	0.0
12.5°	364.0	222.3	129.5	0.0
10°	366.4	224.7	129.5	0.0
7.5°	371.3	224.7	129.5	0.0
5°	368.8	224.7	129.5	0.0
2.5°	368.8	224.7	129.5	0.0
0°	366.4	224.7	129.5	0.0

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