

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: P628216

Luminaire Tested: **IFLD-S-SA3D-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628216
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

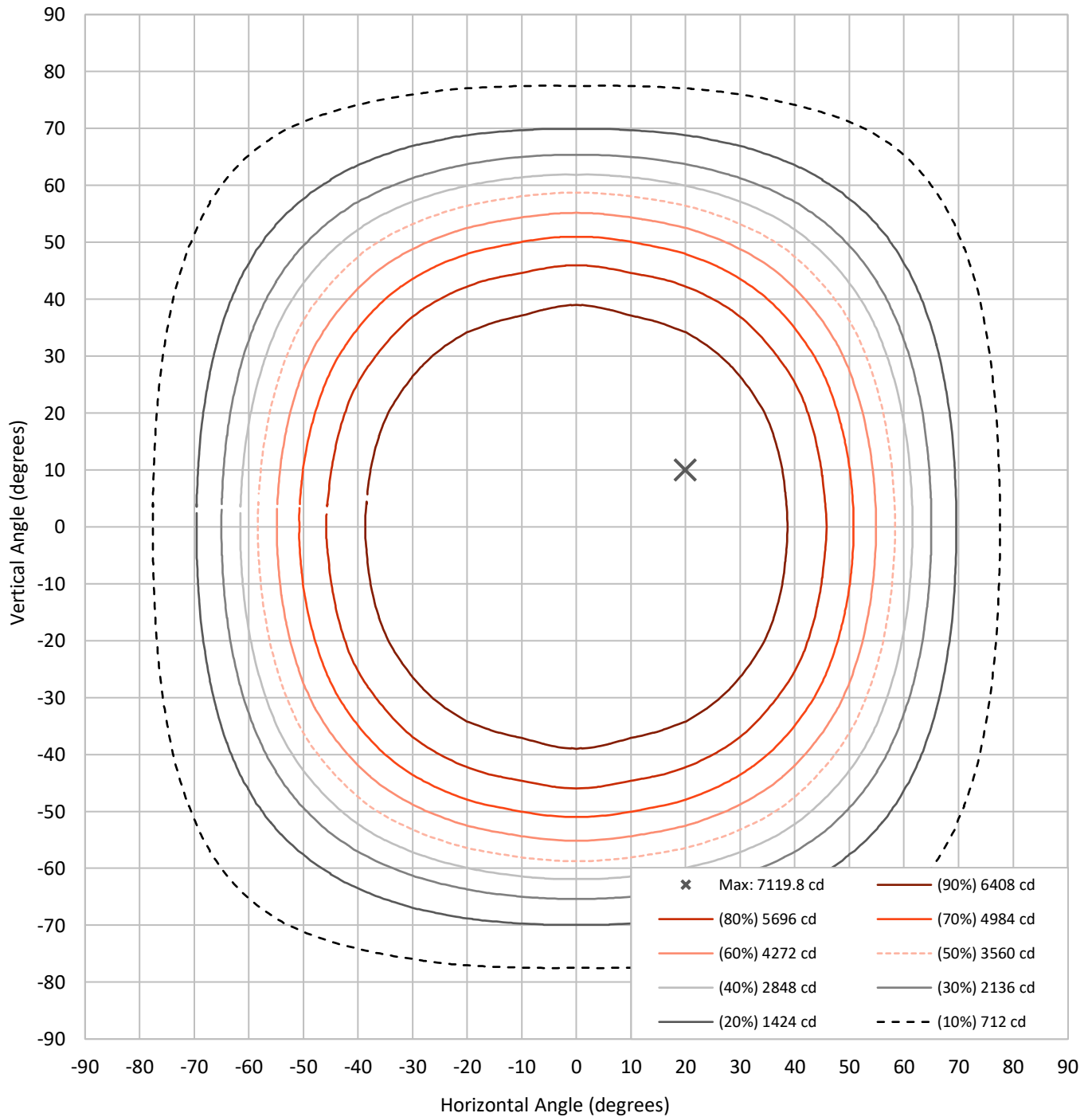
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21842.5 lumens	Max Intensity:	7119.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	118.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	13403 lumens	Field Lumens:	16067.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 184.1
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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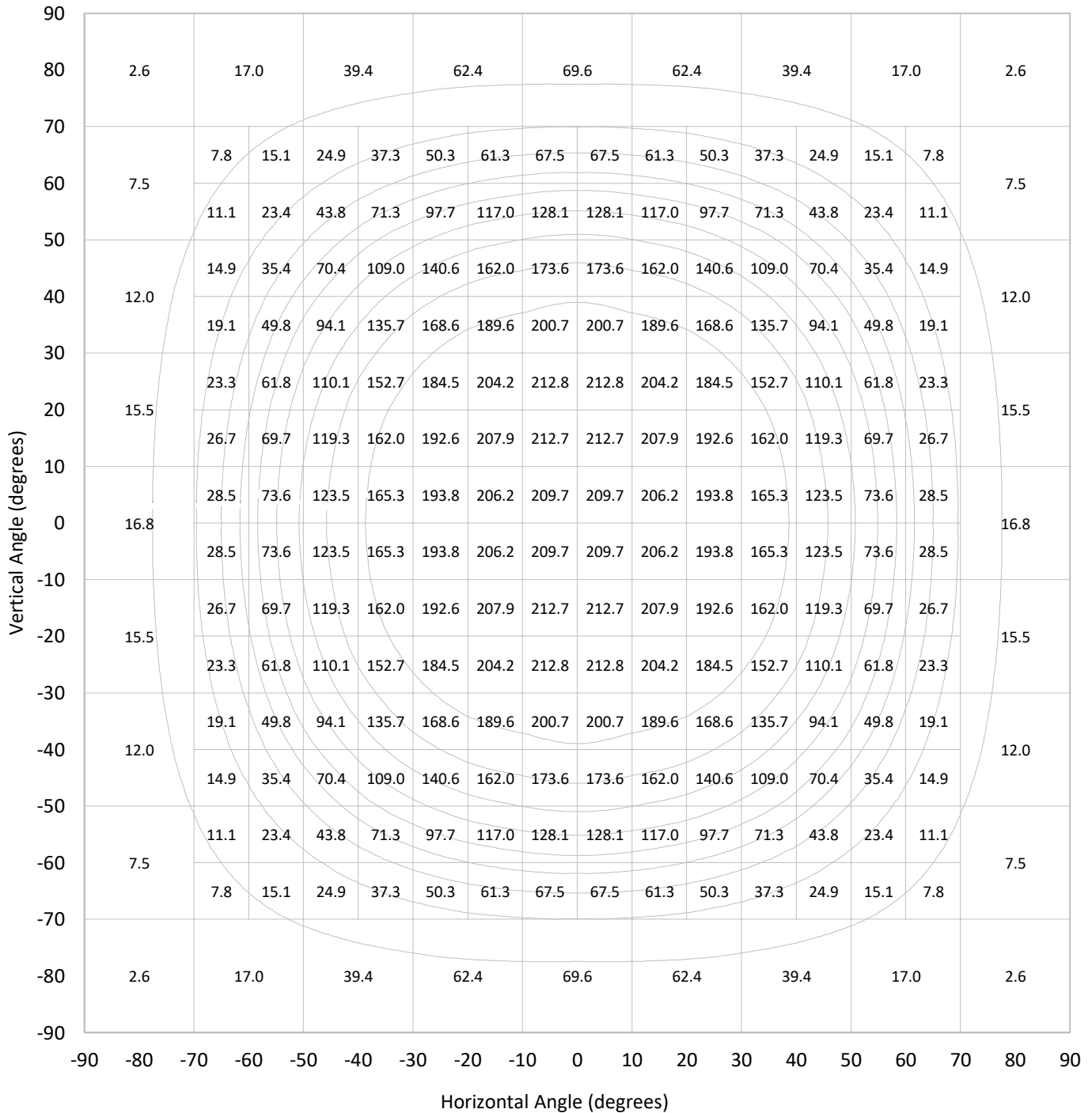
Iso-Candela Plot





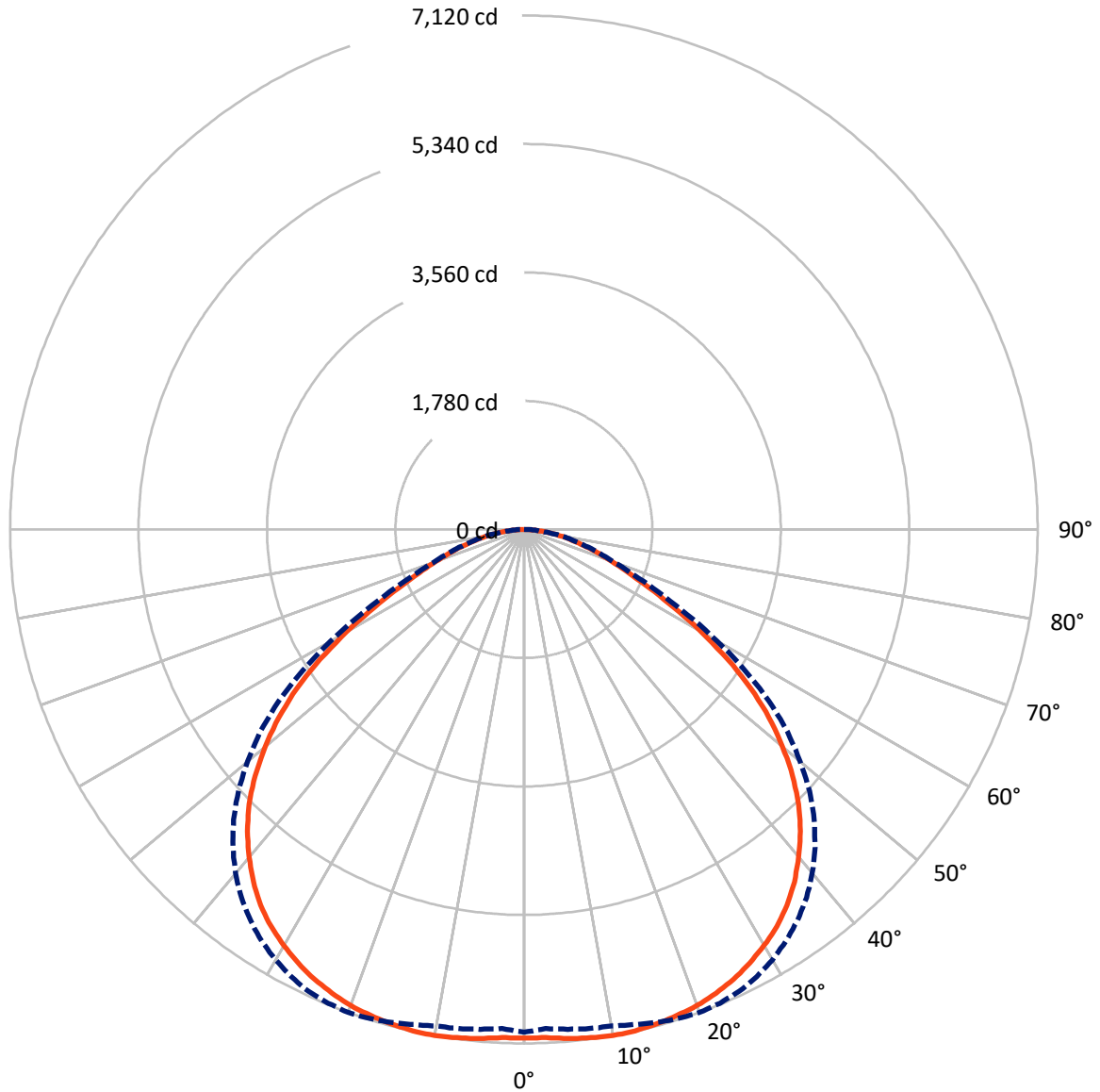
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Lumen Table



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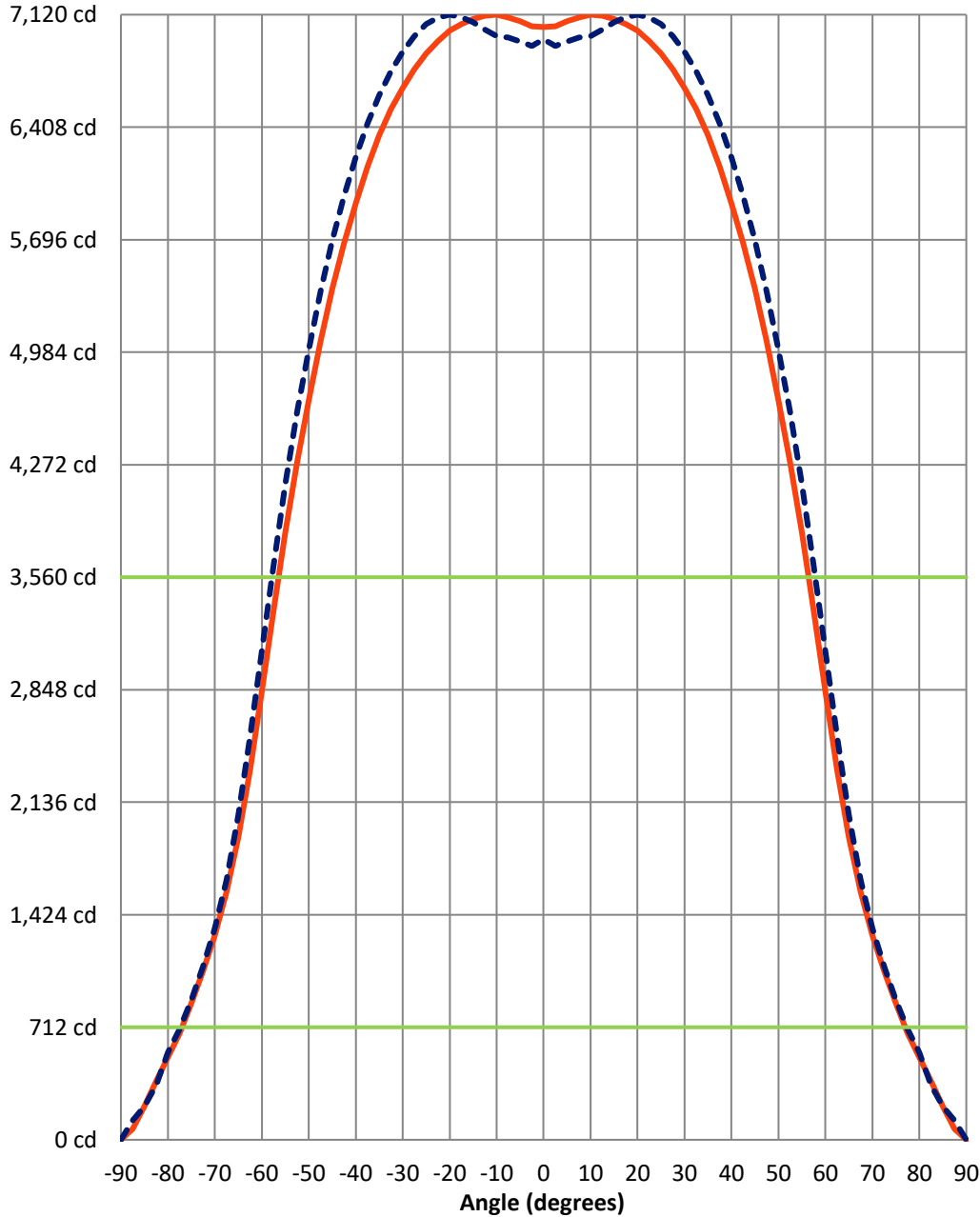
Luminous Intensity Polar Plot



— 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: 13403
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 16067.9
 Efficiency: 73.6%

Spill:
 Lumens: 5774.6
 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°	57.5	62.1	64.3	66.6	68.9	71.2	73.5	71.2	68.9	68.9	66.6
85°	154.0	158.6	160.9	177.0	193.0	202.2	213.7	211.4	211.4	209.1	206.8
82.5°	308.0	321.7	333.2	349.3	358.5	372.3	381.5	374.6	370.0	360.8	353.9
80°	547.0	551.6	553.9	556.2	544.7	542.4	537.8	530.9	521.7	510.2	498.7
77.5°	696.3	700.9	705.5	700.9	698.6	696.3	689.5	682.6	673.4	664.2	650.4
75°	921.6	921.6	921.6	914.7	910.1	903.2	891.7	880.2	864.1	845.7	825.0
72.5°	1160.6	1158.3	1156.0	1142.2	1130.7	1116.9	1100.8	1087.0	1068.7	1048.0	1020.4
70°	1411.1	1415.7	1418.0	1399.6	1385.8	1367.4	1346.7	1321.5	1293.9	1264.0	1224.9
67.5°	1755.8	1751.2	1746.6	1721.3	1703.0	1677.7	1647.8	1611.0	1569.7	1523.7	1468.5
65°	2183.3	2190.2	2176.4	2151.1	2116.6	2075.3	2029.3	1976.4	1914.4	1845.4	1767.3
62.5°	2700.4	2711.9	2695.8	2663.6	2619.9	2564.8	2500.4	2424.6	2339.5	2243.0	2146.5
60°	3288.7	3286.4	3256.5	3212.9	3155.4	3086.5	3015.2	2932.5	2836.0	2723.3	2606.1
57.5°	3828.8	3824.2	3787.4	3743.7	3686.3	3612.7	3536.9	3449.6	3348.5	3228.9	3093.4
55°	4313.7	4309.1	4272.3	4226.4	4166.6	4093.1	4024.1	3941.4	3842.6	3716.2	3571.4
52.5°	4743.4	4745.7	4713.6	4663.0	4598.7	4527.4	4460.8	4378.0	4283.8	4157.4	4017.2
50°	5138.7	5136.4	5102.0	5056.0	4996.2	4927.3	4860.7	4777.9	4679.1	4557.3	4421.7
47.5°	5506.4	5501.8	5462.8	5412.2	5350.2	5290.4	5228.4	5154.8	5051.4	4929.6	4794.0
45°	5814.4	5805.2	5766.1	5717.9	5658.1	5605.3	5550.1	5495.0	5384.6	5272.0	5143.3
42.5°	6078.7	6076.4	6037.3	5989.1	5929.3	5883.3	5832.8	5763.8	5671.9	5568.5	5442.1
40°	6331.5	6313.1	6274.0	6228.1	6172.9	6133.8	6083.3	6014.3	5924.7	5823.6	5701.8
37.5°	6519.9	6522.2	6480.9	6430.3	6382.0	6345.3	6299.3	6235.0	6156.8	6058.0	5936.2
35°	6699.2	6687.7	6653.2	6609.6	6565.9	6524.5	6476.3	6421.1	6356.8	6264.8	6149.9
32.5°	6816.4	6832.5	6791.1	6745.2	6719.9	6687.7	6637.1	6579.7	6522.2	6430.3	6326.9
30°	6945.1	6931.3	6899.1	6860.1	6841.7	6821.0	6777.3	6722.2	6655.5	6572.8	6476.3
27.5°	7034.7	7027.8	6988.8	6952.0	6942.8	6924.4	6889.9	6841.7	6775.0	6694.6	6605.0
25°	7073.8	7078.4	7041.6	7020.9	7020.9	7009.5	6981.9	6940.5	6873.9	6800.3	6713.0
22.5°	7092.2	7087.6	7062.3	7057.7	7069.2	7060.0	7048.5	7011.8	6952.0	6892.2	6818.7
20°	7103.7	7071.5	7048.5	7066.9	7080.7	7078.4	7069.2	7046.2	7018.6	6968.1	6903.7
17.5°	7078.4	7057.7	7030.1	7057.7	7087.6	7089.9	7080.7	7066.9	7060.0	7027.8	6970.4
15°	7016.3	7000.3	7004.9	7032.4	7066.9	7078.4	7085.3	7101.4	7092.2	7066.9	7016.3
12.5°	6975.0	6954.3	6975.0	7002.6	7020.9	7027.8	7083.0	7112.9	7112.9	7089.9	7057.7
10°	6963.5	6922.1	6949.7	6975.0	6984.2	7025.5	7071.5	7103.7	7119.8	7101.4	7060.0
7.5°	6940.5	6912.9	6924.4	6935.9	6988.8	7018.6	7043.9	7078.4	7101.4	7099.1	7062.3
5°	6929.0	6894.5	6899.1	6947.4	6984.2	7004.9	7014.0	7043.9	7078.4	7085.3	7057.7
2.5°	6899.1	6883.1	6917.5	6922.1	6949.7	6965.8	6975.0	7002.6	7046.2	7062.3	7050.8
0°	6883.1	6860.1	6837.1	6855.5	6901.4	6935.9	6949.7	6991.1	7041.6	7057.7	7032.4



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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°	64.3	62.1	59.8	57.5	59.8	59.8	59.8	57.5	59.8	57.5	57.5
85°	199.9	190.7	183.9	174.7	165.5	158.6	149.4	140.2	137.9	135.6	131.0
82.5°	344.7	333.2	321.7	308.0	294.2	278.1	262.0	243.6	239.0	234.4	227.5
80°	484.9	468.8	452.7	436.7	422.9	406.8	388.4	367.7	353.9	342.4	328.6
77.5°	632.0	609.0	586.0	558.5	542.4	526.3	507.9	487.2	466.5	448.1	427.5
75°	799.8	774.5	751.5	723.9	694.1	664.2	634.3	606.7	576.8	549.3	521.7
72.5°	985.9	949.1	912.4	877.9	841.1	804.4	765.3	728.5	691.8	655.0	615.9
70°	1181.3	1135.3	1089.3	1043.4	995.1	946.9	900.9	854.9	809.0	760.7	717.0
67.5°	1411.1	1358.2	1298.5	1234.1	1162.9	1100.8	1041.1	985.9	930.8	875.6	820.5
65°	1698.4	1624.8	1544.4	1457.0	1374.3	1291.6	1204.2	1121.5	1057.2	992.8	930.8
62.5°	2052.3	1948.9	1836.2	1723.6	1622.5	1514.5	1413.4	1305.4	1204.2	1112.3	1036.5
60°	2475.1	2335.0	2197.1	2052.3	1912.1	1765.0	1636.3	1503.0	1376.6	1264.0	1153.7
57.5°	2941.7	2778.5	2613.0	2436.1	2245.3	2073.0	1898.3	1723.6	1574.3	1424.9	1300.8
55°	3415.1	3242.7	3056.6	2856.6	2647.5	2426.9	2190.2	1994.8	1790.3	1615.6	1454.7
52.5°	3865.5	3686.3	3493.2	3309.4	3058.9	2806.1	2546.4	2289.0	2050.0	1827.1	1631.7
50°	4267.7	4093.1	3906.9	3693.2	3461.1	3192.2	2902.6	2613.0	2330.4	2068.4	1824.8
47.5°	4635.4	4465.4	4279.2	4065.5	3854.1	3555.3	3263.4	2944.0	2629.1	2328.1	2043.1
45°	4980.2	4807.8	4614.7	4410.2	4166.6	3900.0	3599.0	3277.2	2939.4	2601.5	2272.9
42.5°	5292.7	5120.3	4925.0	4713.6	4472.3	4208.0	3916.1	3592.1	3251.9	2884.2	2523.4
40°	5566.2	5398.4	5210.0	4989.4	4764.1	4486.0	4198.8	3890.8	3539.2	3169.2	2771.6
37.5°	5805.2	5648.9	5462.8	5244.4	5005.4	4757.2	4460.8	4152.8	3835.7	3433.5	3026.7
35°	6016.6	5871.9	5681.1	5474.3	5239.9	4977.9	4699.8	4398.7	4056.3	3679.4	3284.1
32.5°	6200.5	6053.4	5878.7	5671.9	5444.4	5198.5	4913.5	4610.2	4286.1	3902.3	3472.6
30°	6356.8	6214.3	6048.8	5853.5	5635.1	5391.5	5113.5	4807.8	4476.9	4095.4	3670.2
27.5°	6492.4	6356.8	6195.9	6014.3	5805.2	5570.8	5290.4	4982.5	4644.6	4276.9	3851.8
25°	6609.6	6478.6	6329.2	6156.8	5950.0	5720.2	5455.9	5134.1	4796.3	4426.3	4005.7
22.5°	6715.3	6588.9	6439.5	6271.7	6083.3	5853.5	5586.9	5267.4	4925.0	4559.6	4145.9
20°	6809.5	6692.3	6545.2	6372.9	6184.4	5952.3	5688.0	5384.6	5039.9	4681.4	4272.3
17.5°	6885.4	6781.9	6634.8	6453.3	6264.8	6039.6	5782.2	5504.1	5138.7	4784.8	4378.0
15°	6938.2	6837.1	6703.8	6519.9	6336.1	6113.2	5855.8	5568.5	5228.4	4867.5	4465.4
12.5°	6975.0	6867.0	6742.9	6572.8	6388.9	6168.3	5917.8	5635.1	5304.2	4941.1	4541.2
10°	6984.2	6885.4	6761.2	6609.6	6430.3	6216.6	5970.7	5690.3	5366.3	4998.5	4603.3
7.5°	6988.8	6894.5	6781.9	6637.1	6460.2	6253.4	6009.7	5734.0	5412.2	5046.8	4649.2
5°	6986.5	6896.8	6795.7	6655.5	6478.6	6274.0	6035.0	5763.8	5444.4	5079.0	4683.7
2.5°	6979.6	6899.1	6804.9	6669.3	6499.3	6297.0	6060.3	5798.3	5478.9	5106.6	4711.3
0°	6998.0	6929.0	6809.5	6664.7	6503.9	6297.0	6058.0	5802.9	5483.5	5104.3	4709.0



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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°	57.5	55.2	55.2	52.9	50.6	48.3	43.7	41.4	36.8	29.9	23.0
85°	124.1	117.2	110.3	105.7	101.1	96.5	89.6	82.7	73.5	59.8	46.0
82.5°	218.3	204.5	190.7	174.7	160.9	147.1	135.6	124.1	110.3	89.6	68.9
80°	312.6	291.9	271.2	248.2	227.5	204.5	183.9	165.5	147.1	119.5	91.9
77.5°	406.8	379.2	349.3	321.7	291.9	262.0	232.1	206.8	179.3	147.1	114.9
75°	494.1	461.9	434.4	395.3	358.5	319.4	280.4	245.9	211.4	172.4	137.9
72.5°	581.4	540.1	501.0	464.2	422.9	374.6	330.9	287.3	243.6	197.6	156.3
70°	668.8	618.2	569.9	526.3	480.3	432.1	379.2	328.6	275.8	220.6	172.4
67.5°	758.4	700.9	645.8	590.6	537.8	482.6	427.5	370.0	308.0	243.6	190.7
65°	857.2	786.0	719.3	657.3	595.2	535.5	473.4	411.4	342.4	268.9	206.8
62.5°	956.0	877.9	799.8	721.6	652.7	586.0	519.4	450.4	374.6	296.5	222.9
60°	1061.8	972.1	882.5	795.2	710.1	636.6	563.1	489.5	409.1	321.7	239.0
57.5°	1179.0	1071.0	969.8	871.0	774.5	687.2	606.7	528.6	439.0	347.0	257.4
55°	1312.3	1179.0	1059.5	949.1	843.4	737.7	650.4	569.9	473.4	372.3	278.1
52.5°	1452.5	1298.5	1153.7	1029.6	917.0	797.5	691.8	602.1	507.9	397.6	296.5
50°	1615.6	1420.3	1259.4	1107.7	981.3	857.2	735.4	638.9	542.4	427.5	314.9
47.5°	1783.4	1567.4	1365.1	1199.7	1050.3	914.7	786.0	671.1	574.5	455.0	333.2
45°	1978.7	1707.5	1484.6	1289.3	1116.9	974.4	836.5	705.5	602.1	482.6	351.6
42.5°	2167.2	1873.0	1608.7	1388.1	1192.8	1031.9	882.5	742.3	629.7	510.2	367.7
40°	2390.1	2038.5	1728.2	1482.3	1268.6	1087.0	928.5	781.4	655.0	535.5	383.8
37.5°	2603.8	2206.3	1873.0	1585.7	1342.1	1142.2	974.4	818.2	678.0	560.8	404.5
35°	2815.3	2392.4	2010.9	1682.3	1418.0	1204.2	1020.4	852.6	700.9	581.4	422.9
32.5°	3017.5	2567.1	2151.1	1790.3	1500.7	1261.7	1061.8	884.8	723.9	599.8	441.3
30°	3206.0	2732.5	2289.0	1900.6	1576.6	1314.6	1100.8	917.0	751.5	615.9	459.6
27.5°	3378.3	2893.4	2426.9	2004.0	1647.8	1362.8	1142.2	946.9	774.5	632.0	475.7
25°	3534.6	3038.2	2553.3	2098.2	1712.1	1415.7	1181.3	976.7	795.2	645.8	489.5
22.5°	3681.7	3171.5	2668.2	2192.5	1790.3	1468.5	1218.0	1004.3	815.9	659.6	503.3
20°	3810.4	3293.3	2778.5	2286.7	1859.2	1516.8	1250.2	1029.6	834.2	668.8	517.1
17.5°	3913.8	3401.3	2877.3	2369.4	1919.0	1558.2	1277.8	1052.6	850.3	680.3	526.3
15°	4005.7	3493.2	2960.1	2440.7	1971.8	1592.6	1303.1	1071.0	864.1	687.2	537.8
12.5°	4083.9	3571.4	3031.3	2502.7	2017.8	1622.5	1323.8	1084.7	875.6	694.1	544.7
10°	4148.2	3633.4	3091.1	2551.0	2054.6	1645.5	1339.8	1098.5	884.8	700.9	551.6
7.5°	4196.5	3679.4	3134.7	2592.3	2084.5	1661.6	1353.6	1107.7	894.0	705.5	563.1
5°	4233.3	3718.5	3169.2	2619.9	2107.4	1684.6	1369.7	1119.2	903.2	710.1	563.1
2.5°	4260.8	3750.6	3196.8	2642.9	2125.8	1680.0	1369.7	1116.9	903.2	710.1	560.8
0°	4256.2	3752.9	3194.5	2642.9	2125.8	1675.4	1369.7	1114.6	903.2	710.1	560.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.1	11.5	4.6	0.0
85°	34.5	23.0	11.5	0.0
82.5°	50.6	32.2	16.1	0.0
80°	66.6	43.7	20.7	0.0
77.5°	85.0	55.2	27.6	0.0
75°	101.1	64.3	32.2	0.0
72.5°	117.2	75.8	36.8	0.0
70°	131.0	85.0	41.4	0.0
67.5°	144.8	96.5	48.3	0.0
65°	156.3	105.7	52.9	0.0
62.5°	165.5	117.2	57.5	0.0
60°	177.0	126.4	62.1	0.0
57.5°	186.2	133.3	66.6	0.0
55°	195.3	137.9	71.2	0.0
52.5°	204.5	144.8	75.8	0.0
50°	213.7	151.7	80.4	0.0
47.5°	222.9	156.3	82.7	0.0
45°	236.7	163.2	87.3	0.0
42.5°	248.2	167.8	91.9	0.0
40°	259.7	172.4	94.2	0.0
37.5°	271.2	177.0	98.8	0.0
35°	282.7	181.6	101.1	0.0
32.5°	291.9	186.2	103.4	0.0
30°	301.1	190.7	105.7	0.0
27.5°	310.3	193.0	108.0	0.0
25°	317.1	197.6	110.3	0.0
22.5°	324.0	199.9	112.6	0.0
20°	328.6	202.2	114.9	0.0
17.5°	335.5	204.5	117.2	0.0
15°	337.8	206.8	121.8	0.0
12.5°	342.4	209.1	121.8	0.0
10°	344.7	211.4	121.8	0.0
7.5°	349.3	211.4	121.8	0.0
5°	347.0	211.4	121.8	0.0
2.5°	347.0	211.4	121.8	0.0
0°	344.7	211.4	121.8	0.0

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