

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: P628432

Luminaire Tested: **IFLD-L-SA7B-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628432
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

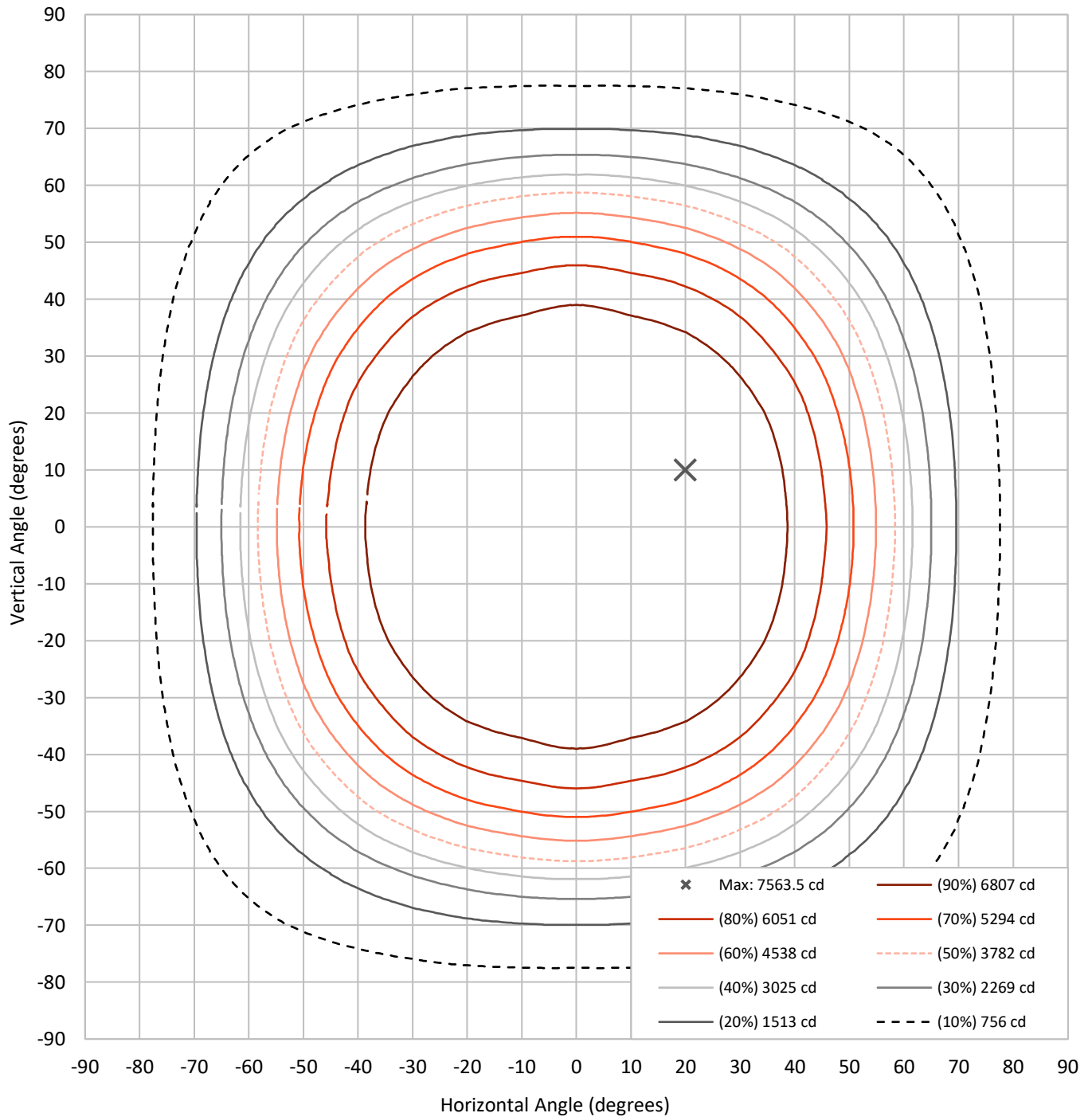
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23203.7 lumens	Max Intensity:	7563.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	82.6 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:	14238.3 lumens	Field Lumens:	17069.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	281		
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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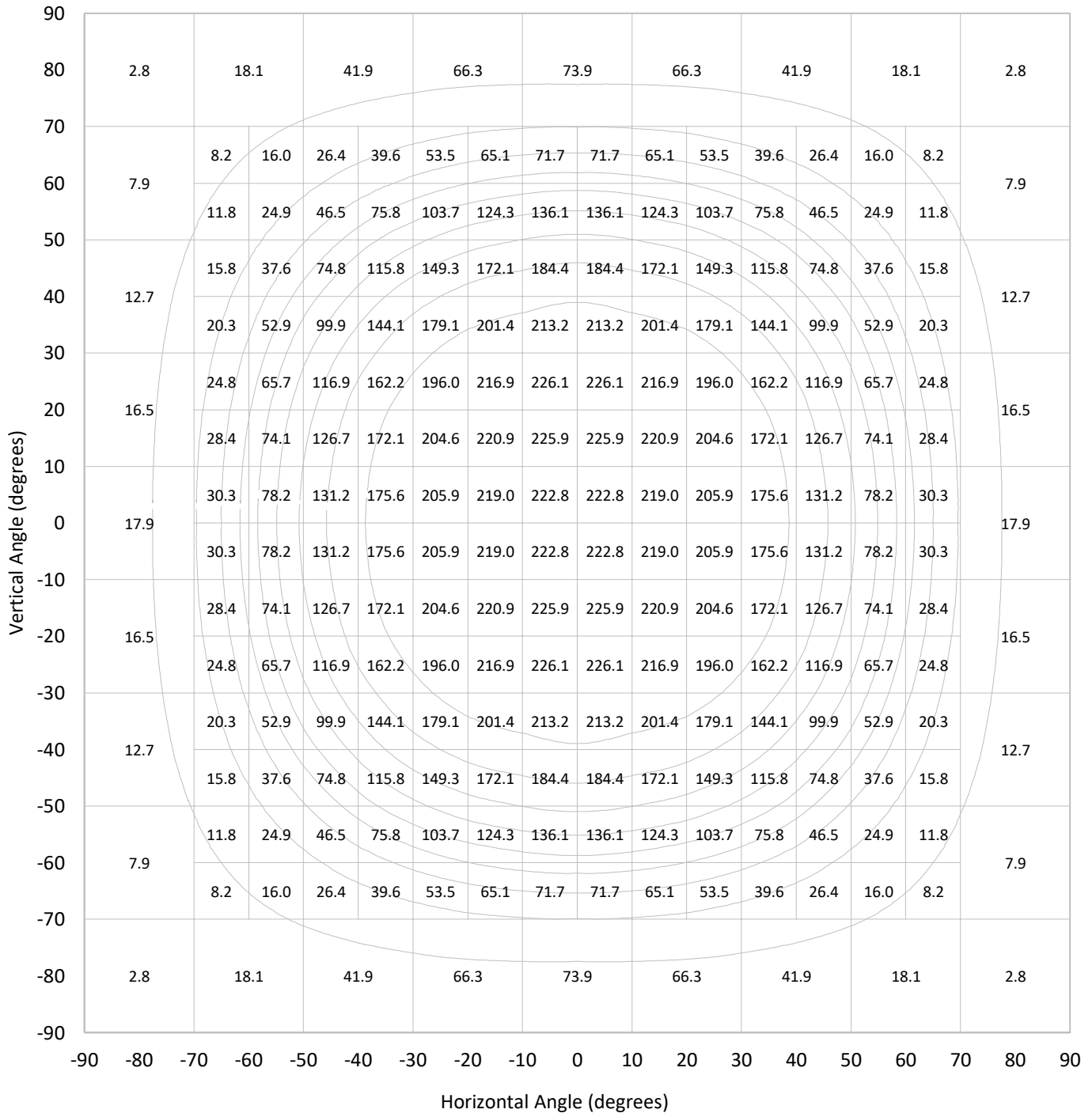
Iso-Candela Plot





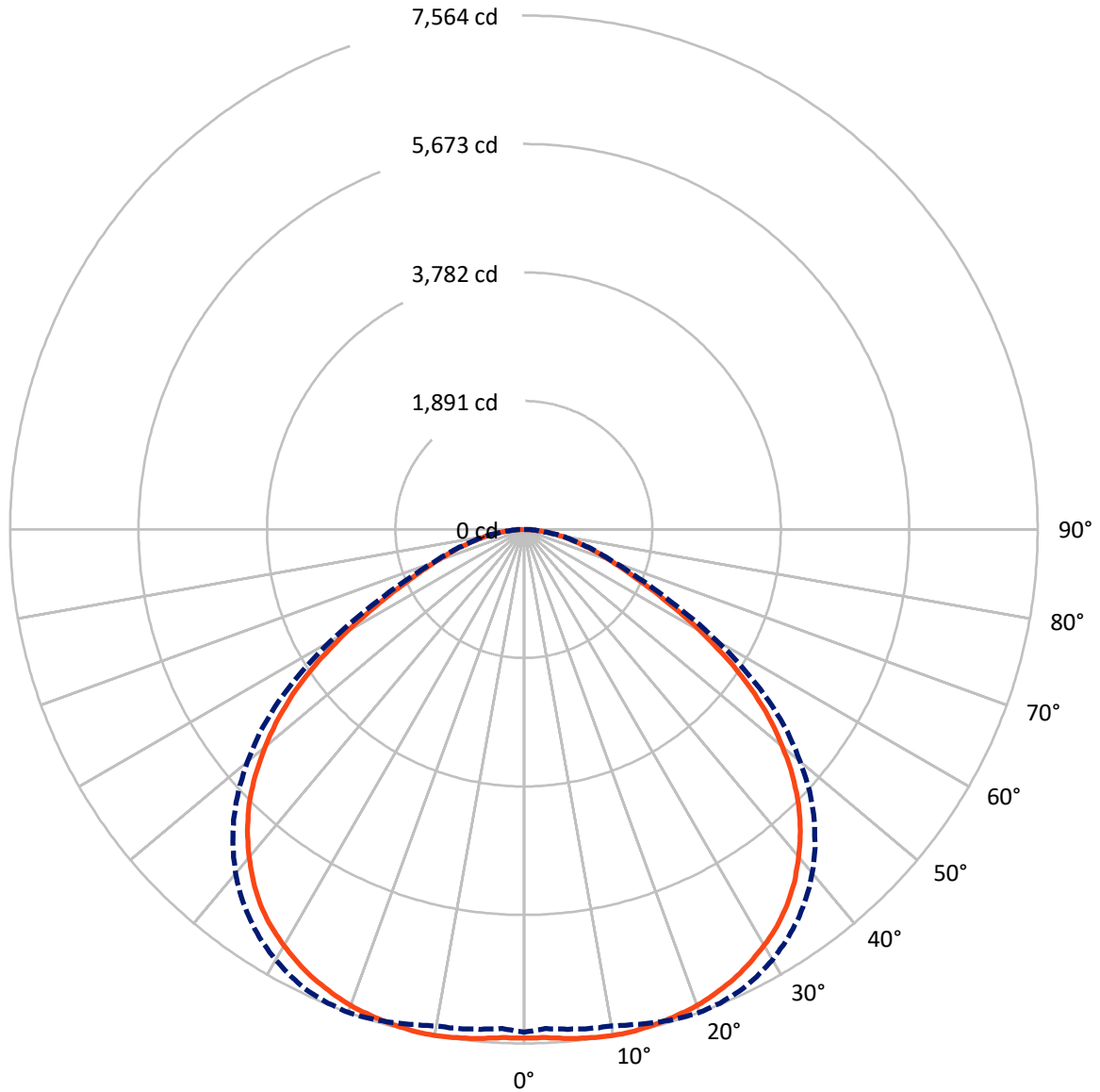
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Lumen Table



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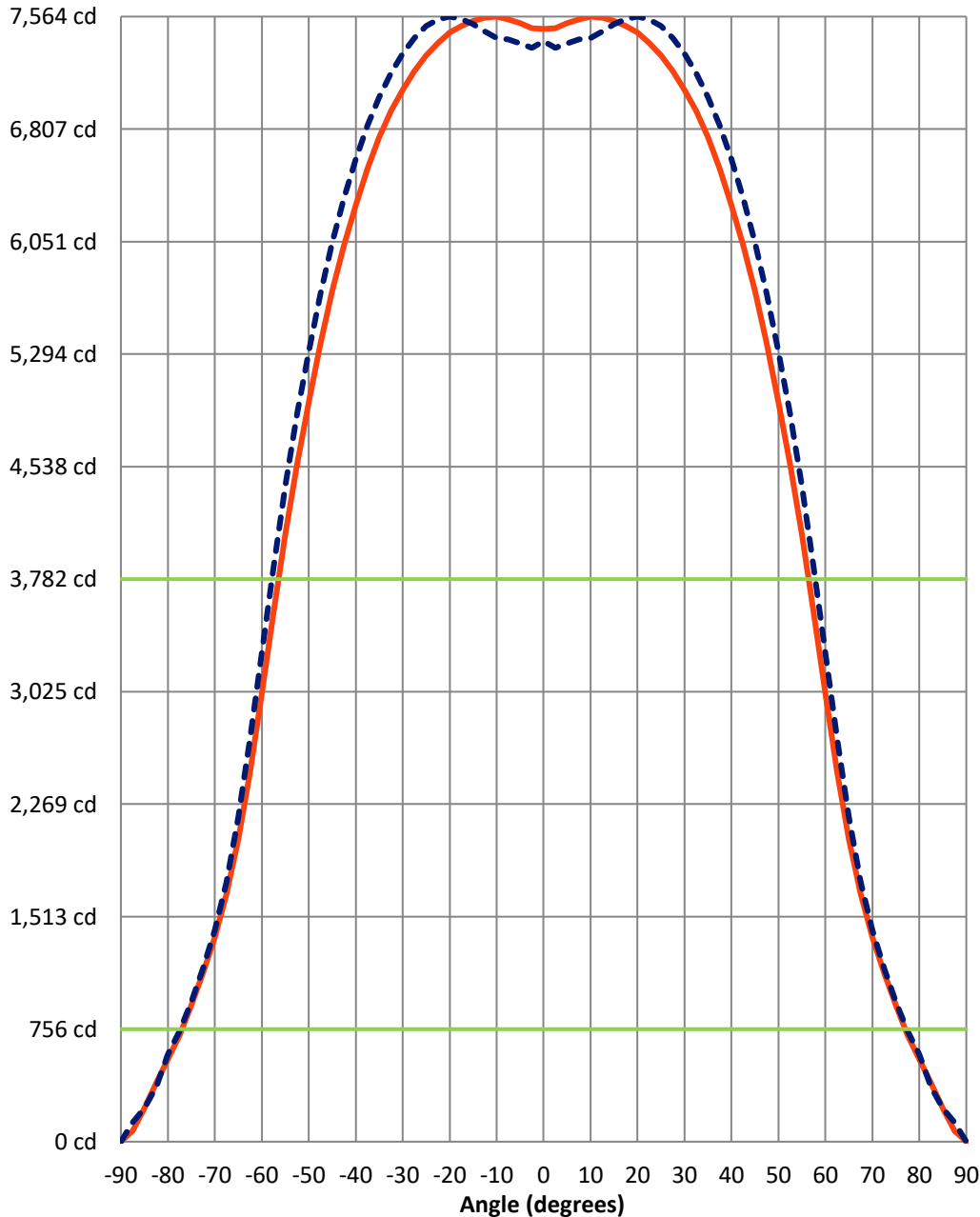
Luminous Intensity Polar Plot



— 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: 14238.3
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 17069.3
Efficiency: 73.6%

Spill:
Lumens: 6134.4
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°	61.0	65.9	68.4	70.8	73.2	75.7	78.1	75.7	73.2	73.2	70.8
85°	163.6	168.5	170.9	188.0	205.1	214.8	227.1	224.6	224.6	222.2	219.7
82.5°	327.1	341.8	354.0	371.1	380.9	395.5	405.3	397.9	393.1	383.3	376.0
80°	581.1	585.9	588.4	590.8	578.6	576.2	571.3	564.0	554.2	542.0	529.8
77.5°	739.7	744.6	749.5	744.6	742.2	739.7	732.4	725.1	715.3	705.6	690.9
75°	979.0	979.0	979.0	971.7	966.8	959.5	947.3	935.1	918.0	898.4	876.5
72.5°	1232.9	1230.5	1228.0	1213.4	1201.2	1186.5	1169.4	1154.8	1135.3	1113.3	1084.0
70°	1499.0	1503.9	1506.3	1486.8	1472.2	1452.6	1430.7	1403.8	1374.5	1342.8	1301.3
67.5°	1865.2	1860.4	1855.5	1828.6	1809.1	1782.2	1750.5	1711.4	1667.5	1618.7	1560.1
65°	2319.3	2326.7	2312.0	2285.2	2248.5	2204.6	2155.8	2099.6	2033.7	1960.4	1877.4
62.5°	2868.7	2880.9	2863.8	2829.6	2783.2	2724.6	2656.2	2575.7	2485.3	2382.8	2280.3
60°	3493.6	3491.2	3459.5	3413.1	3352.0	3278.8	3203.1	3115.2	3012.7	2893.1	2768.6
57.5°	4067.4	4062.5	4023.4	3977.0	3916.0	3837.9	3757.3	3664.5	3557.1	3430.2	3286.1
55°	4582.5	4577.6	4538.6	4489.7	4426.3	4348.1	4274.9	4187.0	4082.0	3947.8	3793.9
52.5°	5039.1	5041.5	5007.3	4953.6	4885.3	4809.6	4738.8	4650.9	4550.8	4416.5	4267.6
50°	5459.0	5456.5	5419.9	5371.1	5307.6	5234.4	5163.6	5075.7	4970.7	4841.3	4697.3
47.5°	5849.6	5844.7	5803.2	5749.5	5683.6	5620.1	5554.2	5476.1	5366.2	5236.8	5092.8
45°	6176.8	6167.0	6125.5	6074.2	6010.7	5954.6	5896.0	5837.4	5720.2	5600.6	5463.9
42.5°	6457.5	6455.1	6413.6	6362.3	6298.8	6250.0	6196.3	6123.0	6025.4	5915.5	5781.2
40°	6726.1	6706.5	6665.0	6616.2	6557.6	6516.1	6462.4	6389.2	6293.9	6186.5	6057.1
37.5°	6926.3	6928.7	6884.8	6831.0	6779.8	6740.7	6691.9	6623.5	6540.5	6435.5	6306.1
35°	7116.7	7104.5	7067.9	7021.5	6975.1	6931.1	6879.9	6821.3	6752.9	6655.3	6533.2
32.5°	7241.2	7258.3	7214.4	7165.5	7138.7	7104.5	7050.8	6989.7	6928.7	6831.0	6721.2
30°	7377.9	7363.3	7329.1	7287.6	7268.1	7246.1	7199.7	7141.1	7070.3	6982.4	6879.9
27.5°	7473.1	7465.8	7424.3	7385.2	7375.5	7356.0	7319.3	7268.1	7197.3	7111.8	7016.6
25°	7514.6	7519.5	7480.5	7458.5	7458.5	7446.3	7417.0	7373.0	7302.2	7224.1	7131.3
22.5°	7534.2	7529.3	7502.4	7497.6	7509.8	7500.0	7487.8	7448.7	7385.2	7321.8	7243.6
20°	7546.4	7512.2	7487.8	7507.3	7522.0	7519.5	7509.8	7485.3	7456.0	7402.3	7334.0
17.5°	7519.5	7497.6	7468.3	7497.6	7529.3	7531.7	7522.0	7507.3	7500.0	7465.8	7404.8
15°	7453.6	7436.5	7441.4	7470.7	7507.3	7519.5	7526.9	7543.9	7534.2	7507.3	7453.6
12.5°	7409.7	7387.7	7409.7	7439.0	7458.5	7465.8	7524.4	7556.1	7556.1	7531.7	7497.6
10°	7397.5	7353.5	7382.8	7409.7	7419.4	7463.4	7512.2	7546.4	7563.5	7543.9	7500.0
7.5°	7373.0	7343.7	7356.0	7368.2	7424.3	7456.0	7482.9	7519.5	7543.9	7541.5	7502.4
5°	7360.8	7324.2	7329.1	7380.4	7419.4	7441.4	7451.2	7482.9	7519.5	7526.9	7497.6
2.5°	7329.1	7312.0	7348.6	7353.5	7382.8	7399.9	7409.7	7439.0	7485.3	7502.4	7490.2
0°	7312.0	7287.6	7263.2	7282.7	7331.5	7368.2	7382.8	7426.8	7480.5	7497.6	7470.7



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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	65.9	63.5	61.0	63.5	63.5	63.5	61.0	63.5	61.0	61.0
85°	212.4	202.6	195.3	185.5	175.8	168.5	158.7	148.9	146.5	144.0	139.2
82.5°	366.2	354.0	341.8	327.1	312.5	295.4	278.3	258.8	253.9	249.0	241.7
80°	515.1	498.0	481.0	463.9	449.2	432.1	412.6	390.6	376.0	363.8	349.1
77.5°	671.4	647.0	622.6	593.3	576.2	559.1	539.6	517.6	495.6	476.1	454.1
75°	849.6	822.8	798.3	769.0	737.3	705.6	673.8	644.5	612.8	583.5	554.2
72.5°	1047.4	1008.3	969.2	932.6	893.6	854.5	813.0	773.9	734.9	695.8	654.3
70°	1254.9	1206.1	1157.2	1108.4	1057.1	1005.9	957.0	908.2	859.4	808.1	761.7
67.5°	1499.0	1442.9	1379.4	1311.0	1235.4	1169.4	1106.0	1047.4	988.8	930.2	871.6
65°	1804.2	1726.1	1640.6	1547.9	1460.0	1372.1	1279.3	1191.4	1123.0	1054.7	988.8
62.5°	2180.2	2070.3	1950.7	1831.1	1723.6	1608.9	1501.5	1386.7	1279.3	1181.6	1101.1
60°	2629.4	2480.5	2334.0	2180.2	2031.2	1875.0	1738.3	1596.7	1462.4	1342.8	1225.6
57.5°	3125.0	2951.7	2775.9	2587.9	2385.3	2202.1	2016.6	1831.1	1672.4	1513.7	1381.8
55°	3627.9	3444.8	3247.1	3034.7	2812.5	2578.1	2326.7	2119.1	1901.9	1716.3	1545.4
52.5°	4106.4	3916.0	3710.9	3515.6	3249.5	2981.0	2705.1	2431.6	2177.7	1940.9	1733.4
50°	4533.7	4348.1	4150.4	3923.3	3676.8	3391.1	3083.5	2775.9	2475.6	2197.3	1938.5
47.5°	4924.3	4743.6	4545.9	4318.8	4094.2	3776.9	3466.8	3127.4	2793.0	2473.1	2170.4
45°	5290.5	5107.4	4902.3	4685.1	4426.3	4143.1	3823.2	3481.4	3122.6	2763.7	2414.5
42.5°	5622.6	5439.4	5231.9	5007.3	4751.0	4470.2	4160.2	3815.9	3454.6	3064.0	2680.7
40°	5913.1	5734.9	5534.7	5300.3	5061.0	4765.6	4460.4	4133.3	3759.8	3366.7	2944.3
37.5°	6167.0	6001.0	5803.2	5571.3	5317.4	5053.7	4738.8	4411.6	4074.7	3647.5	3215.3
35°	6391.6	6237.8	6035.2	5815.4	5566.4	5288.1	4992.7	4672.8	4309.1	3908.7	3488.8
32.5°	6586.9	6430.7	6245.1	6025.4	5783.7	5522.5	5219.7	4897.5	4553.2	4145.5	3689.0
30°	6752.9	6601.6	6425.8	6218.3	5986.3	5727.5	5432.1	5107.4	4755.9	4350.6	3898.9
27.5°	6897.0	6752.9	6582.0	6389.2	6167.0	5918.0	5620.1	5293.0	4934.1	4543.5	4091.8
25°	7021.5	6882.3	6723.6	6540.5	6320.8	6076.7	5795.9	5454.1	5095.2	4702.1	4255.4
22.5°	7133.8	6999.5	6840.8	6662.6	6462.4	6218.3	5935.1	5595.7	5231.9	4843.7	4404.3
20°	7233.9	7109.4	6953.1	6770.0	6569.8	6323.2	6042.5	5720.2	5354.0	4973.1	4538.6
17.5°	7314.4	7204.6	7048.3	6855.5	6655.3	6416.0	6142.6	5847.2	5459.0	5083.0	4650.9
15°	7370.6	7263.2	7121.6	6926.3	6731.0	6494.1	6220.7	5915.5	5554.2	5170.9	4743.6
12.5°	7409.7	7294.9	7163.1	6982.4	6787.1	6552.7	6286.6	5986.3	5634.8	5249.0	4824.2
10°	7419.4	7314.4	7182.6	7021.5	6831.0	6604.0	6342.8	6044.9	5700.7	5310.1	4890.1
7.5°	7424.3	7324.2	7204.6	7050.8	6862.8	6643.1	6384.3	6091.3	5749.5	5361.3	4939.0
5°	7421.9	7326.7	7219.2	7070.3	6882.3	6665.0	6411.1	6123.0	5783.7	5395.5	4975.6
2.5°	7414.5	7329.1	7229.0	7085.0	6904.3	6689.4	6438.0	6159.7	5820.3	5424.8	5004.9
0°	7434.1	7360.8	7233.9	7080.1	6909.2	6689.4	6435.5	6164.5	5825.2	5422.4	5002.4



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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°	61.0	58.6	58.6	56.2	53.7	51.3	46.4	43.9	39.1	31.7	24.4
85°	131.8	124.5	117.2	112.3	107.4	102.5	95.2	87.9	78.1	63.5	48.8
82.5°	231.9	217.3	202.6	185.5	170.9	156.2	144.0	131.8	117.2	95.2	73.2
80°	332.0	310.1	288.1	263.7	241.7	217.3	195.3	175.8	156.2	127.0	97.7
77.5°	432.1	402.8	371.1	341.8	310.1	278.3	246.6	219.7	190.4	156.2	122.1
75°	524.9	490.7	461.4	419.9	380.9	339.4	297.9	261.2	224.6	183.1	146.5
72.5°	617.7	573.7	532.2	493.2	449.2	397.9	351.6	305.2	258.8	210.0	166.0
70°	710.4	656.7	605.5	559.1	510.3	459.0	402.8	349.1	293.0	234.4	183.1
67.5°	805.7	744.6	686.0	627.4	571.3	512.7	454.1	393.1	327.1	258.8	202.6
65°	910.6	835.0	764.2	698.2	632.3	568.8	502.9	437.0	363.8	285.6	219.7
62.5°	1015.6	932.6	849.6	766.6	693.4	622.6	551.8	478.5	397.9	314.9	236.8
60°	1127.9	1032.7	937.5	844.7	754.4	676.3	598.1	520.0	434.6	341.8	253.9
57.5°	1252.4	1137.7	1030.3	925.3	822.8	730.0	644.5	561.5	466.3	368.7	273.4
55°	1394.0	1252.4	1125.5	1008.3	896.0	783.7	690.9	605.5	502.9	395.5	295.4
52.5°	1543.0	1379.4	1225.6	1093.7	974.1	847.2	734.9	639.6	539.6	422.4	314.9
50°	1716.3	1508.8	1337.9	1176.8	1042.5	910.6	781.2	678.7	576.2	454.1	334.5
47.5°	1894.5	1665.0	1450.2	1274.4	1115.7	971.7	835.0	712.9	610.4	483.4	354.0
45°	2102.0	1814.0	1577.1	1369.6	1186.5	1035.2	888.7	749.5	639.6	512.7	373.5
42.5°	2302.2	1989.7	1709.0	1474.6	1267.1	1096.2	937.5	788.6	668.9	542.0	390.6
40°	2539.1	2165.5	1835.9	1574.7	1347.7	1154.8	986.3	830.1	695.8	568.8	407.7
37.5°	2766.1	2343.7	1989.7	1684.6	1425.8	1213.4	1035.2	869.1	720.2	595.7	429.7
35°	2990.7	2541.5	2136.2	1787.1	1506.3	1279.3	1084.0	905.8	744.6	617.7	449.2
32.5°	3205.6	2727.0	2285.2	1901.9	1594.2	1340.3	1127.9	939.9	769.0	637.2	468.7
30°	3405.8	2902.8	2431.6	2019.0	1674.8	1396.5	1169.4	974.1	798.3	654.3	488.3
27.5°	3588.9	3073.7	2578.1	2128.9	1750.5	1447.8	1213.4	1005.9	822.8	671.4	505.4
25°	3754.9	3227.5	2712.4	2229.0	1818.8	1503.9	1254.9	1037.6	844.7	686.0	520.0
22.5°	3911.1	3369.1	2834.5	2329.1	1901.9	1560.1	1293.9	1066.9	866.7	700.7	534.7
20°	4047.8	3498.5	2951.7	2429.2	1975.1	1611.3	1328.1	1093.7	886.2	710.4	549.3
17.5°	4157.7	3613.3	3056.6	2517.1	2038.6	1655.3	1357.4	1118.2	903.3	722.7	559.1
15°	4255.4	3710.9	3144.5	2592.8	2094.7	1691.9	1384.3	1137.7	918.0	730.0	571.3
12.5°	4338.4	3793.9	3220.2	2658.7	2143.6	1723.6	1406.2	1152.3	930.2	737.3	578.6
10°	4406.7	3859.9	3283.7	2710.0	2182.6	1748.0	1423.3	1167.0	939.9	744.6	585.9
7.5°	4458.0	3908.7	3330.1	2753.9	2214.4	1765.1	1438.0	1176.8	949.7	749.5	598.1
5°	4497.1	3950.2	3366.7	2783.2	2238.8	1789.5	1455.1	1189.0	959.5	754.4	598.1
2.5°	4526.4	3984.4	3396.0	2807.6	2258.3	1784.7	1455.1	1186.5	959.5	754.4	595.7
0°	4521.5	3986.8	3393.6	2807.6	2258.3	1779.8	1455.1	1184.1	959.5	754.4	595.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	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°	90.3	58.6	29.3	0.0
75°	107.4	68.4	34.2	0.0
72.5°	124.5	80.6	39.1	0.0
70°	139.2	90.3	43.9	0.0
67.5°	153.8	102.5	51.3	0.0
65°	166.0	112.3	56.2	0.0
62.5°	175.8	124.5	61.0	0.0
60°	188.0	134.3	65.9	0.0
57.5°	197.8	141.6	70.8	0.0
55°	207.5	146.5	75.7	0.0
52.5°	217.3	153.8	80.6	0.0
50°	227.1	161.1	85.4	0.0
47.5°	236.8	166.0	87.9	0.0
45°	251.5	173.3	92.8	0.0
42.5°	263.7	178.2	97.7	0.0
40°	275.9	183.1	100.1	0.0
37.5°	288.1	188.0	105.0	0.0
35°	300.3	192.9	107.4	0.0
32.5°	310.1	197.8	109.9	0.0
30°	319.8	202.6	112.3	0.0
27.5°	329.6	205.1	114.7	0.0
25°	336.9	210.0	117.2	0.0
22.5°	344.2	212.4	119.6	0.0
20°	349.1	214.8	122.1	0.0
17.5°	356.4	217.3	124.5	0.0
15°	358.9	219.7	129.4	0.0
12.5°	363.8	222.2	129.4	0.0
10°	366.2	224.6	129.4	0.0
7.5°	371.1	224.6	129.4	0.0
5°	368.7	224.6	129.4	0.0
2.5°	368.7	224.6	129.4	0.0
0°	366.2	224.6	129.4	0.0

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