

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: P628396

Luminaire Tested: **IFLD-S-SA6E-830-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628396
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	43271.1 lumens	Max Intensity:	14104.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	93.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

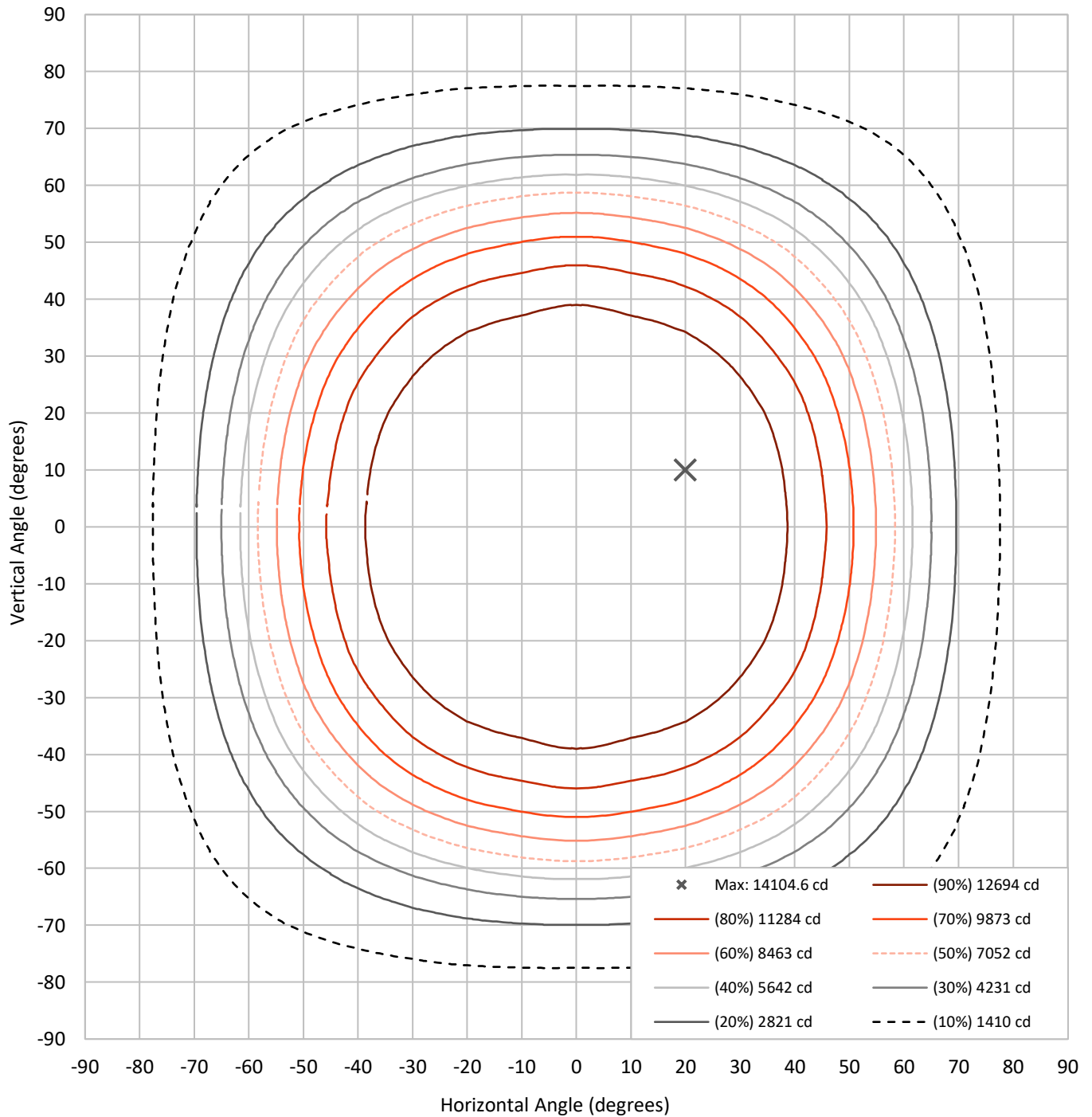
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	26552.1 lumens	Field Lumens:	31831.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 464.2
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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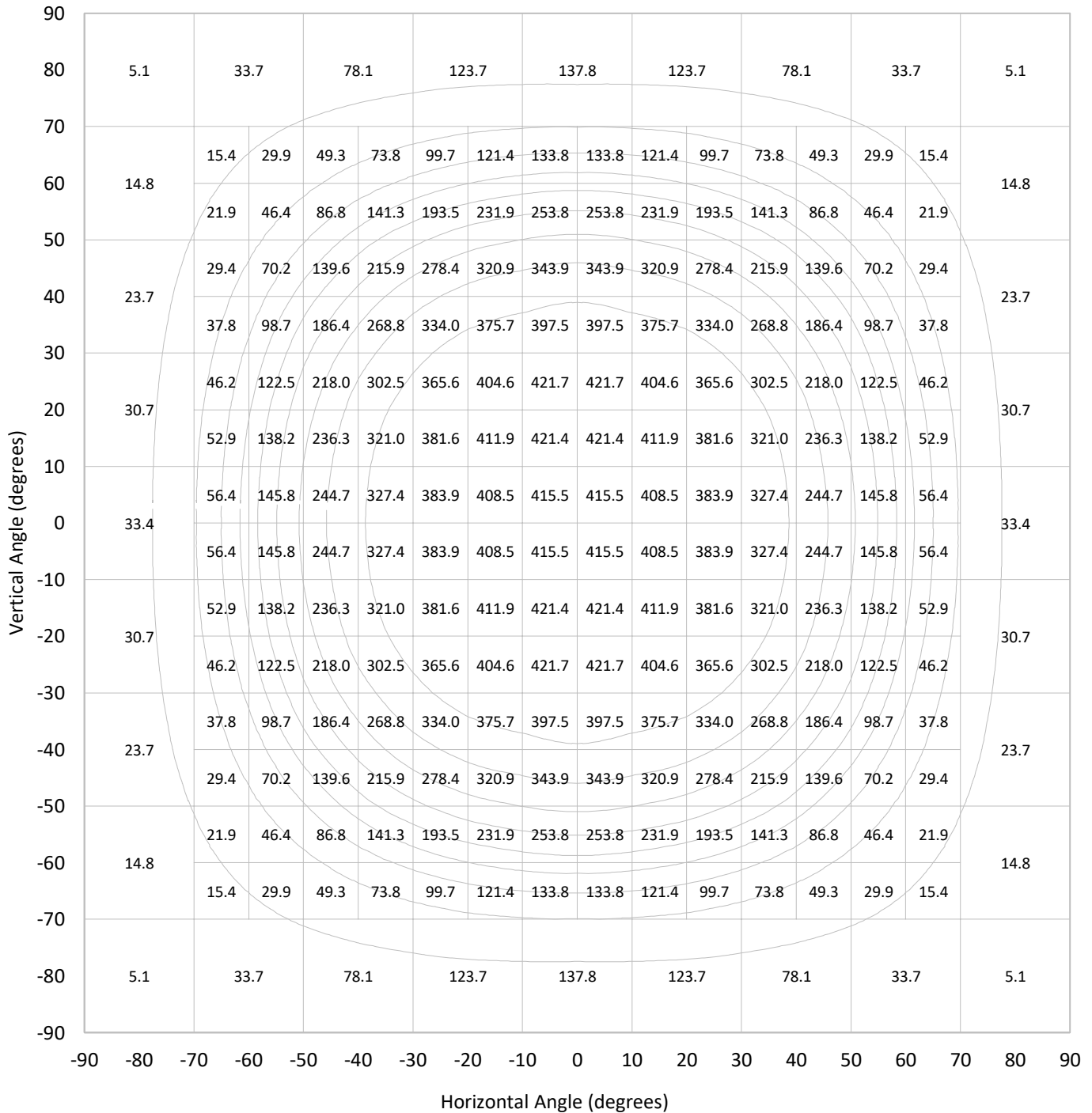
Iso-Candela Plot





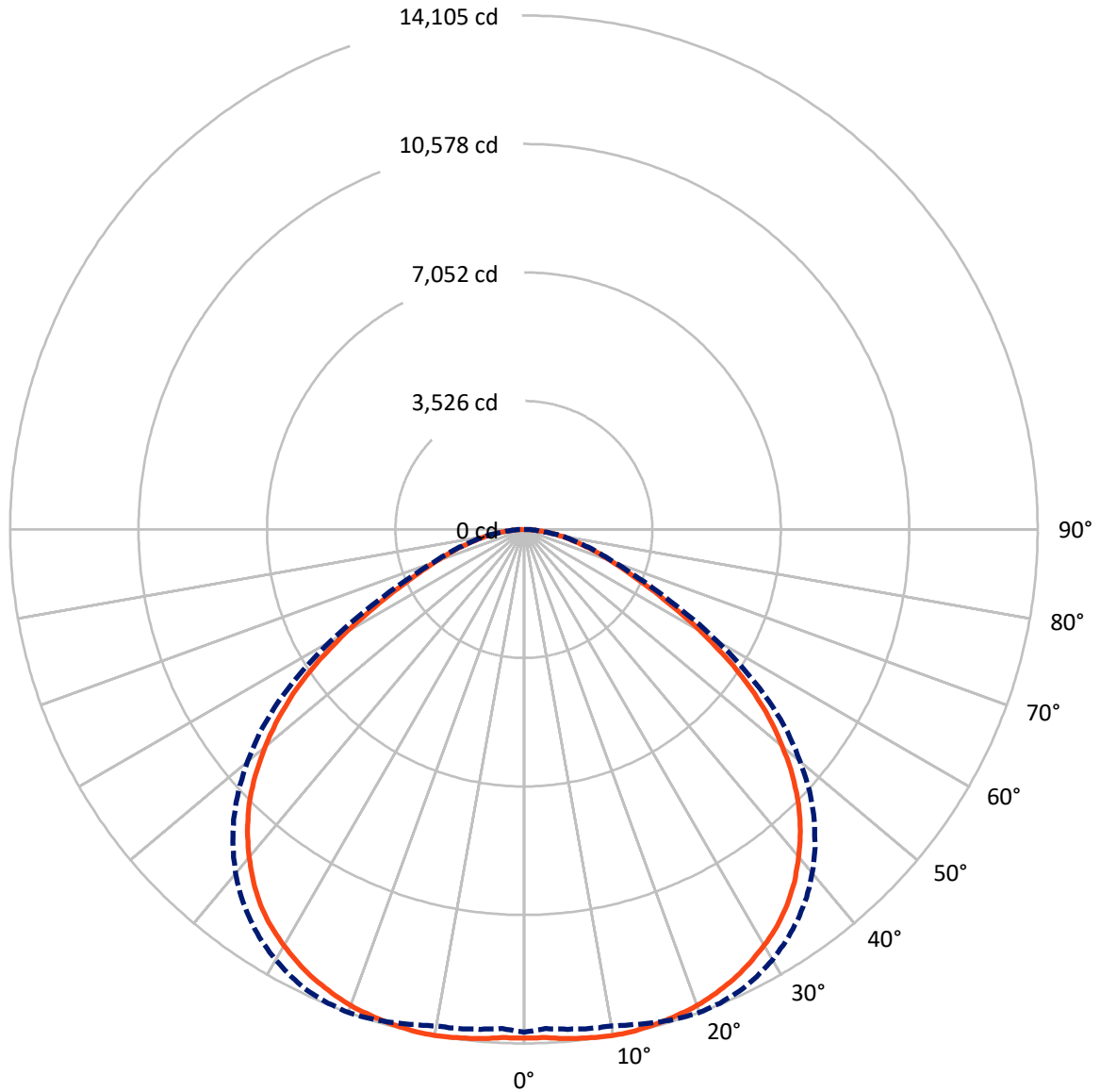
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Lumen Table



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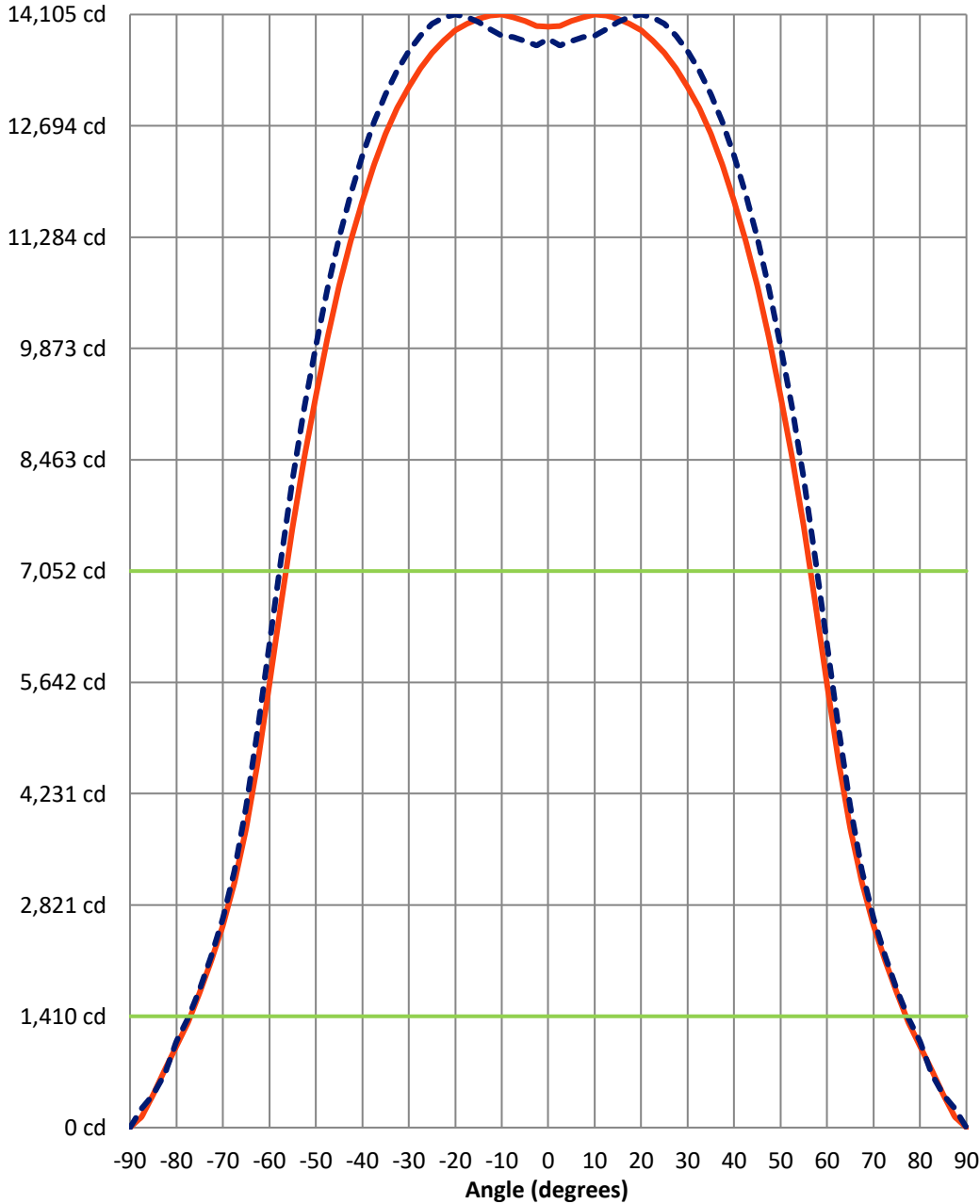
Luminous Intensity Polar Plot



— 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: 26552.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 31831.4
 Efficiency: 73.6%

Spill:
 Lumens: 11439.7
 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°	113.8	122.9	127.5	132.0	136.6	141.1	145.7	141.1	136.6	136.6	132.0
85°	305.0	314.1	318.7	350.6	382.4	400.6	423.4	418.9	418.9	414.3	409.8
82.5°	610.1	637.4	660.2	692.0	710.2	737.6	755.8	742.1	733.0	714.8	701.1
80°	1083.6	1092.7	1097.2	1101.8	1079.0	1074.5	1065.4	1051.7	1033.5	1010.7	988.0
77.5°	1379.5	1388.6	1397.7	1388.6	1384.1	1379.5	1365.8	1352.2	1334.0	1315.8	1288.4
75°	1825.7	1825.7	1825.7	1812.0	1802.9	1789.3	1766.5	1743.7	1711.9	1675.4	1634.5
72.5°	2299.2	2294.6	2290.1	2262.8	2240.0	2212.7	2180.8	2153.5	2117.1	2076.1	2021.5
70°	2795.4	2804.5	2809.1	2772.7	2745.4	2708.9	2668.0	2617.9	2563.2	2504.1	2426.7
67.5°	3478.4	3469.3	3460.1	3410.1	3373.6	3323.6	3264.4	3191.5	3109.6	3018.5	2909.3
65°	4325.2	4338.8	4311.5	4261.4	4193.2	4111.2	4020.1	3915.4	3792.5	3655.9	3501.1
62.5°	5349.6	5372.3	5340.5	5276.7	5190.2	5081.0	4953.5	4803.2	4634.8	4443.6	4252.3
60°	6515.1	6510.5	6451.4	6364.8	6251.0	6114.4	5973.3	5809.4	5618.2	5395.1	5162.9
57.5°	7585.0	7575.9	7503.1	7416.5	7302.7	7157.0	7006.8	6833.8	6633.5	6396.7	6128.1
55°	8545.6	8536.5	8463.7	8372.6	8254.3	8108.6	7972.0	7808.1	7612.3	7361.9	7075.1
52.5°	9397.0	9401.6	9337.8	9237.7	9110.2	8969.1	8837.0	8673.1	8486.5	8236.1	7958.3
50°	10180.1	10175.6	10107.3	10016.2	9897.8	9761.3	9629.2	9465.3	9269.5	9028.2	8759.6
47.5°	10908.6	10899.5	10822.1	10721.9	10599.0	10480.6	10357.7	10212.0	10007.1	9765.8	9497.2
45°	11518.6	11500.4	11423.0	11327.4	11209.1	11104.3	10995.1	10885.8	10667.3	10444.2	10189.2
42.5°	12042.2	12037.7	11960.3	11864.7	11746.3	11655.2	11555.1	11418.5	11236.4	11031.5	10781.1
40°	12543.0	12506.6	12429.2	12338.2	12228.9	12151.5	12051.3	11914.7	11737.2	11536.9	11295.6
37.5°	12916.4	12920.9	12839.0	12738.8	12643.2	12570.3	12479.3	12351.8	12197.0	12001.2	11759.9
35°	13271.5	13248.7	13180.4	13093.9	13007.4	12925.5	12829.9	12720.6	12593.1	12411.0	12183.4
32.5°	13503.7	13535.5	13453.6	13362.5	13312.5	13248.7	13148.6	13034.7	12920.9	12738.8	12533.9
30°	13758.6	13731.3	13667.6	13590.2	13553.8	13512.8	13426.3	13317.0	13185.0	13021.1	12829.9
27.5°	13936.2	13922.5	13845.1	13772.3	13754.1	13717.7	13649.4	13553.8	13421.7	13262.4	13084.8
25°	14013.6	14022.7	13949.9	13908.9	13908.9	13886.1	13831.5	13749.5	13617.5	13471.8	13298.8
22.5°	14050.0	14040.9	13990.8	13981.7	14004.5	13986.3	13963.5	13890.7	13772.3	13653.9	13508.2
20°	14072.8	14009.0	13963.5	13999.9	14027.2	14022.7	14004.5	13959.0	13904.3	13804.2	13676.7
17.5°	14022.7	13981.7	13927.1	13981.7	14040.9	14045.5	14027.2	13999.9	13986.3	13922.5	13808.7
15°	13899.8	13867.9	13877.0	13931.6	13999.9	14022.7	14036.4	14068.2	14050.0	13999.9	13899.8
12.5°	13817.8	13776.8	13817.8	13872.5	13908.9	13922.5	14031.8	14091.0	14091.0	14045.5	13981.7
10°	13795.1	13713.1	13767.7	13817.8	13836.0	13918.0	14009.0	14072.8	14104.6	14068.2	13986.3
7.5°	13749.5	13694.9	13717.7	13740.4	13845.1	13904.3	13954.4	14022.7	14068.2	14063.7	13990.8
5°	13726.8	13658.5	13667.6	13763.2	13836.0	13877.0	13895.2	13954.4	14022.7	14036.4	13981.7
2.5°	13667.6	13635.7	13704.0	13713.1	13767.7	13799.6	13817.8	13872.5	13959.0	13990.8	13968.1
0°	13635.7	13590.2	13544.7	13581.1	13672.1	13740.4	13767.7	13849.7	13949.9	13981.7	13931.6



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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°	127.5	122.9	118.4	113.8	118.4	118.4	118.4	113.8	118.4	113.8	113.8
85°	396.1	377.9	364.2	346.0	327.8	314.1	295.9	277.7	273.2	268.6	259.5
82.5°	682.9	660.2	637.4	610.1	582.8	550.9	519.0	482.6	473.5	464.4	450.7
80°	960.6	928.8	896.9	865.0	837.7	805.8	769.4	728.5	701.1	678.4	651.1
77.5°	1252.0	1206.5	1161.0	1106.3	1074.5	1042.6	1006.2	965.2	924.2	887.8	846.8
75°	1584.4	1534.3	1488.8	1434.1	1375.0	1315.8	1256.6	1201.9	1142.8	1088.1	1033.5
72.5°	1953.2	1880.3	1807.5	1739.2	1666.3	1593.5	1516.1	1443.2	1370.4	1297.6	1220.2
70°	2340.2	2249.1	2158.0	2067.0	1971.4	1875.8	1784.7	1693.7	1602.6	1507.0	1420.5
67.5°	2795.4	2690.7	2572.3	2444.9	2303.7	2180.8	2062.4	1953.2	1843.9	1734.6	1625.4
65°	3364.5	3218.8	3059.5	2886.5	2722.6	2558.7	2385.7	2221.8	2094.3	1966.8	1843.9
62.5°	4065.7	3860.8	3637.7	3414.6	3214.3	3000.3	2800.0	2586.0	2385.7	2203.6	2053.3
60°	4903.4	4625.7	4352.5	4065.7	3787.9	3496.6	3241.6	2977.5	2727.1	2504.1	2285.5
57.5°	5827.6	5504.4	5176.6	4826.0	4448.1	4106.6	3760.6	3414.6	3118.7	2822.8	2576.9
55°	6765.5	6424.0	6055.3	5659.2	5244.9	4807.8	4338.8	3951.9	3546.6	3200.6	2881.9
52.5°	7657.8	7302.7	6920.3	6556.1	6059.8	5559.0	5044.5	4534.6	4061.1	3619.5	3232.5
50°	8454.6	8108.6	7739.8	7316.4	6856.6	6323.9	5750.2	5176.6	4616.6	4097.5	3614.9
47.5°	9183.0	8846.1	8477.4	8053.9	7635.1	7043.2	6465.0	5832.2	5208.4	4612.0	4047.5
45°	9866.0	9524.5	9142.1	8736.9	8254.3	7726.1	7129.7	6492.3	5823.1	5153.8	4502.7
42.5°	10485.2	10143.7	9756.7	9337.8	8859.8	8336.2	7758.0	7116.1	6442.2	5713.8	4999.0
40°	11026.9	10694.6	10321.3	9884.2	9438.0	8887.1	8318.0	7707.9	7011.3	6278.3	5490.7
37.5°	11500.4	11190.8	10822.1	10389.5	9916.0	9424.3	8837.0	8227.0	7598.7	6801.9	5996.1
35°	11919.3	11632.5	11254.6	10844.8	10380.4	9861.4	9310.5	8714.1	8035.7	7289.1	6506.0
32.5°	12283.5	11992.1	11646.1	11236.4	10785.6	10298.5	9733.9	9133.0	8491.0	7730.7	6879.3
30°	12593.1	12310.8	11983.0	11596.0	11163.5	10680.9	10130.0	9524.5	8868.9	8113.1	7270.9
27.5°	12861.7	12593.1	12274.4	11914.7	11500.4	11036.0	10480.6	9870.5	9201.3	8472.8	7630.5
25°	13093.9	12834.4	12538.5	12197.0	11787.3	11332.0	10808.4	10171.0	9501.7	8768.7	7935.6
22.5°	13303.4	13052.9	12757.0	12424.7	12051.3	11596.0	11067.9	10435.1	9756.7	9032.8	8213.3
20°	13490.0	13257.8	12966.4	12625.0	12251.6	11791.8	11268.2	10667.3	9984.3	9274.1	8463.7
17.5°	13640.3	13435.4	13144.0	12784.3	12411.0	11964.8	11454.9	10904.0	10180.1	9479.0	8673.1
15°	13745.0	13544.7	13280.6	12916.4	12552.1	12110.5	11600.6	11031.5	10357.7	9642.9	8846.1
12.5°	13817.8	13603.8	13358.0	13021.1	12656.8	12219.8	11723.5	11163.5	10507.9	9788.6	8996.4
10°	13836.0	13640.3	13394.4	13093.9	12738.8	12315.4	11828.2	11272.8	10630.8	9902.4	9119.3
7.5°	13845.1	13658.5	13435.4	13148.6	12798.0	12388.2	11905.6	11359.3	10721.9	9998.0	9210.4
5°	13840.6	13663.0	13462.7	13185.0	12834.4	12429.2	11955.7	11418.5	10785.6	10061.7	9278.7
2.5°	13826.9	13667.6	13480.9	13212.3	12875.4	12474.7	12005.8	11486.8	10853.9	10116.4	9333.3
0°	13863.3	13726.8	13490.0	13203.2	12884.5	12474.7	12001.2	11495.9	10863.0	10111.8	9328.7



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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°	113.8	109.3	109.3	104.7	100.2	95.6	86.5	82.0	72.8	59.2	45.5
85°	245.9	232.2	218.5	209.4	200.3	191.2	177.6	163.9	145.7	118.4	91.1
82.5°	432.5	405.2	377.9	346.0	318.7	291.4	268.6	245.9	218.5	177.6	136.6
80°	619.2	578.2	537.2	491.7	450.7	405.2	364.2	327.8	291.4	236.7	182.1
77.5°	805.8	751.2	692.0	637.4	578.2	519.0	459.8	409.8	355.1	291.4	227.6
75°	978.9	915.1	860.5	783.1	710.2	632.8	555.4	487.2	418.9	341.5	273.2
72.5°	1151.9	1069.9	992.5	919.7	837.7	742.1	655.6	569.1	482.6	391.5	309.6
70°	1324.9	1224.7	1129.1	1042.6	951.5	855.9	751.2	651.1	546.3	437.1	341.5
67.5°	1502.4	1388.6	1279.3	1170.1	1065.4	956.1	846.8	733.0	610.1	482.6	377.9
65°	1698.2	1557.1	1425.0	1302.1	1179.2	1060.8	937.9	815.0	678.4	532.7	409.8
62.5°	1894.0	1739.2	1584.4	1429.6	1293.0	1161.0	1028.9	892.4	742.1	587.3	441.6
60°	2103.4	1925.8	1748.3	1575.3	1406.8	1261.1	1115.4	969.8	810.4	637.4	473.5
57.5°	2335.6	2121.6	1921.3	1725.5	1534.3	1361.3	1201.9	1047.1	869.6	687.5	509.9
55°	2599.7	2335.6	2098.9	1880.3	1670.9	1461.5	1288.4	1129.1	937.9	737.6	550.9
52.5°	2877.4	2572.3	2285.5	2039.7	1816.6	1579.8	1370.4	1192.8	1006.2	787.6	587.3
50°	3200.6	2813.6	2494.9	2194.5	1944.1	1698.2	1456.9	1265.7	1074.5	846.8	623.7
47.5°	3533.0	3105.0	2704.4	2376.6	2080.6	1812.0	1557.1	1329.4	1138.2	901.5	660.2
45°	3920.0	3382.7	2941.1	2554.1	2212.7	1930.4	1657.2	1397.7	1192.8	956.1	696.6
42.5°	4293.3	3710.6	3187.0	2749.9	2362.9	2044.2	1748.3	1470.6	1247.5	1010.7	728.5
40°	4734.9	4038.4	3423.7	2936.6	2513.2	2153.5	1839.3	1548.0	1297.6	1060.8	760.3
37.5°	5158.3	4370.7	3710.6	3141.4	2658.8	2262.8	1930.4	1620.8	1343.1	1110.9	801.3
35°	5577.2	4739.5	3983.7	3332.7	2809.1	2385.7	2021.5	1689.1	1388.6	1151.9	837.7
32.5°	5977.9	5085.5	4261.4	3546.6	2973.0	2499.5	2103.4	1752.8	1434.1	1188.3	874.1
30°	6351.2	5413.3	4534.6	3765.2	3123.2	2604.2	2180.8	1816.6	1488.8	1220.2	910.6
27.5°	6692.7	5732.0	4807.8	3970.1	3264.4	2699.8	2262.8	1875.8	1534.3	1252.0	942.4
25°	7002.2	6018.8	5058.2	4156.7	3391.9	2804.5	2340.2	1935.0	1575.3	1279.3	969.8
22.5°	7293.6	6282.9	5285.8	4343.4	3546.6	2909.3	2413.0	1989.6	1616.3	1306.7	997.1
20°	7548.6	6524.2	5504.4	4530.1	3683.2	3004.9	2476.7	2039.7	1652.7	1324.9	1024.4
17.5°	7753.5	6738.2	5700.1	4694.0	3801.6	3086.8	2531.4	2085.2	1684.5	1347.6	1042.6
15°	7935.6	6920.3	5864.0	4835.1	3906.3	3155.1	2581.5	2121.6	1711.9	1361.3	1065.4
12.5°	8090.4	7075.1	6005.2	4958.0	3997.4	3214.3	2622.4	2148.9	1734.6	1375.0	1079.0
10°	8217.8	7198.0	6123.5	5053.6	4070.2	3259.8	2654.3	2176.2	1752.8	1388.6	1092.7
7.5°	8313.5	7289.1	6210.1	5135.6	4129.4	3291.7	2681.6	2194.5	1771.0	1397.7	1115.4
5°	8386.3	7366.5	6278.3	5190.2	4174.9	3337.2	2713.5	2217.2	1789.3	1406.8	1115.4
2.5°	8440.9	7430.2	6333.0	5235.7	4211.4	3328.1	2713.5	2212.7	1789.3	1406.8	1110.9
0°	8431.8	7434.8	6328.4	5235.7	4211.4	3319.0	2713.5	2208.1	1789.3	1406.8	1110.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	31.9	22.8	9.1	0.0
85°	68.3	45.5	22.8	0.0
82.5°	100.2	63.7	31.9	0.0
80°	132.0	86.5	41.0	0.0
77.5°	168.5	109.3	54.6	0.0
75°	200.3	127.5	63.7	0.0
72.5°	232.2	150.2	72.8	0.0
70°	259.5	168.5	82.0	0.0
67.5°	286.8	191.2	95.6	0.0
65°	309.6	209.4	104.7	0.0
62.5°	327.8	232.2	113.8	0.0
60°	350.6	250.4	122.9	0.0
57.5°	368.8	264.1	132.0	0.0
55°	387.0	273.2	141.1	0.0
52.5°	405.2	286.8	150.2	0.0
50°	423.4	300.5	159.3	0.0
47.5°	441.6	309.6	163.9	0.0
45°	468.9	323.3	173.0	0.0
42.5°	491.7	332.4	182.1	0.0
40°	514.5	341.5	186.7	0.0
37.5°	537.2	350.6	195.8	0.0
35°	560.0	359.7	200.3	0.0
32.5°	578.2	368.8	204.9	0.0
30°	596.4	377.9	209.4	0.0
27.5°	614.6	382.4	214.0	0.0
25°	628.3	391.5	218.5	0.0
22.5°	641.9	396.1	223.1	0.0
20°	651.1	400.6	227.6	0.0
17.5°	664.7	405.2	232.2	0.0
15°	669.3	409.8	241.3	0.0
12.5°	678.4	414.3	241.3	0.0
10°	682.9	418.9	241.3	0.0
7.5°	692.0	418.9	241.3	0.0
5°	687.5	418.9	241.3	0.0
2.5°	687.5	418.9	241.3	0.0
0°	682.9	418.9	241.3	0.0

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