

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: P628274

Luminaire Tested: **IFLD-S-SA3D-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628274
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

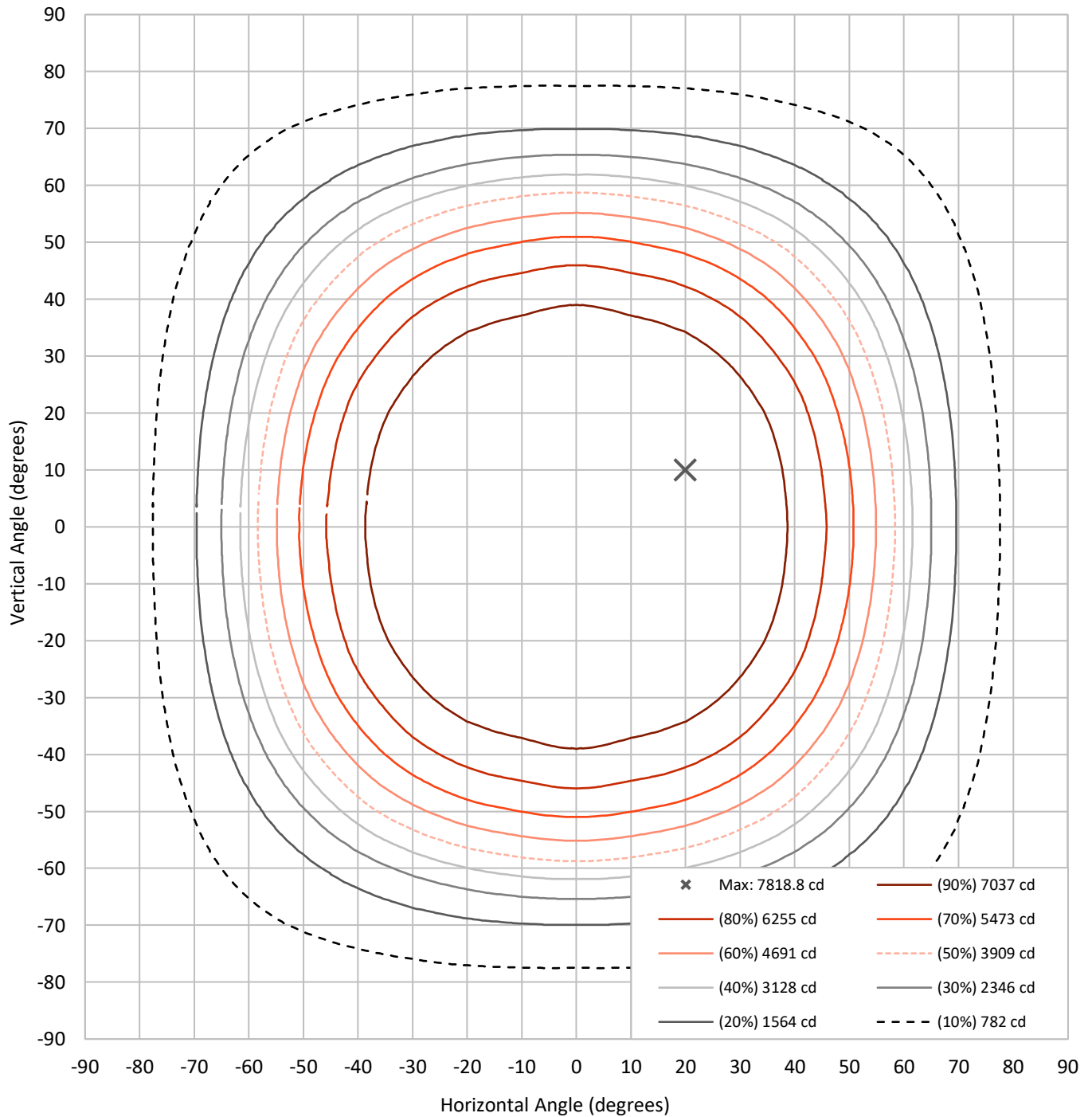
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23986.9 lumens	Max Intensity:	7818.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	130.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	14718.9 lumens	Field Lumens:	17645.4 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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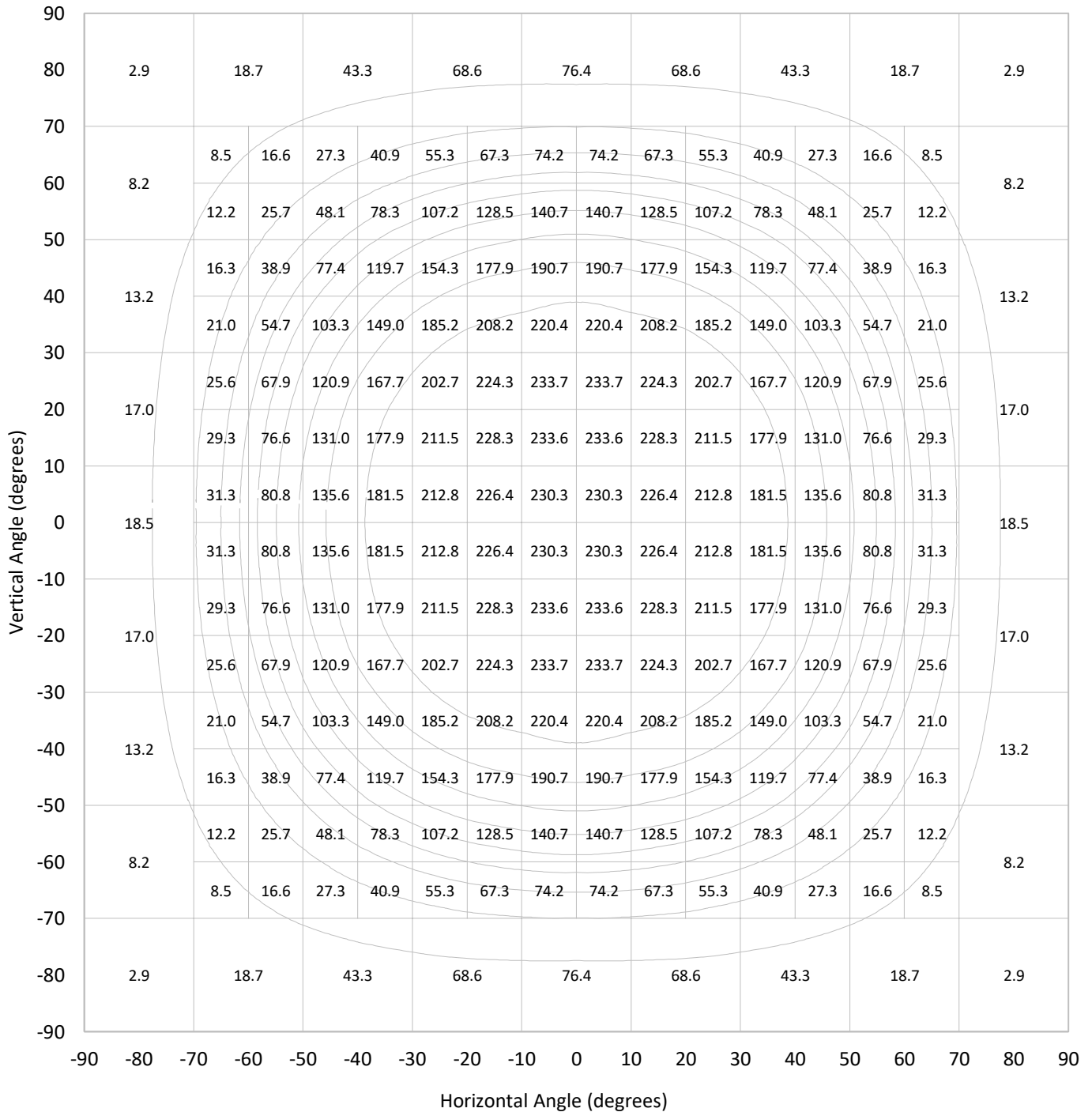
Iso-Candela Plot





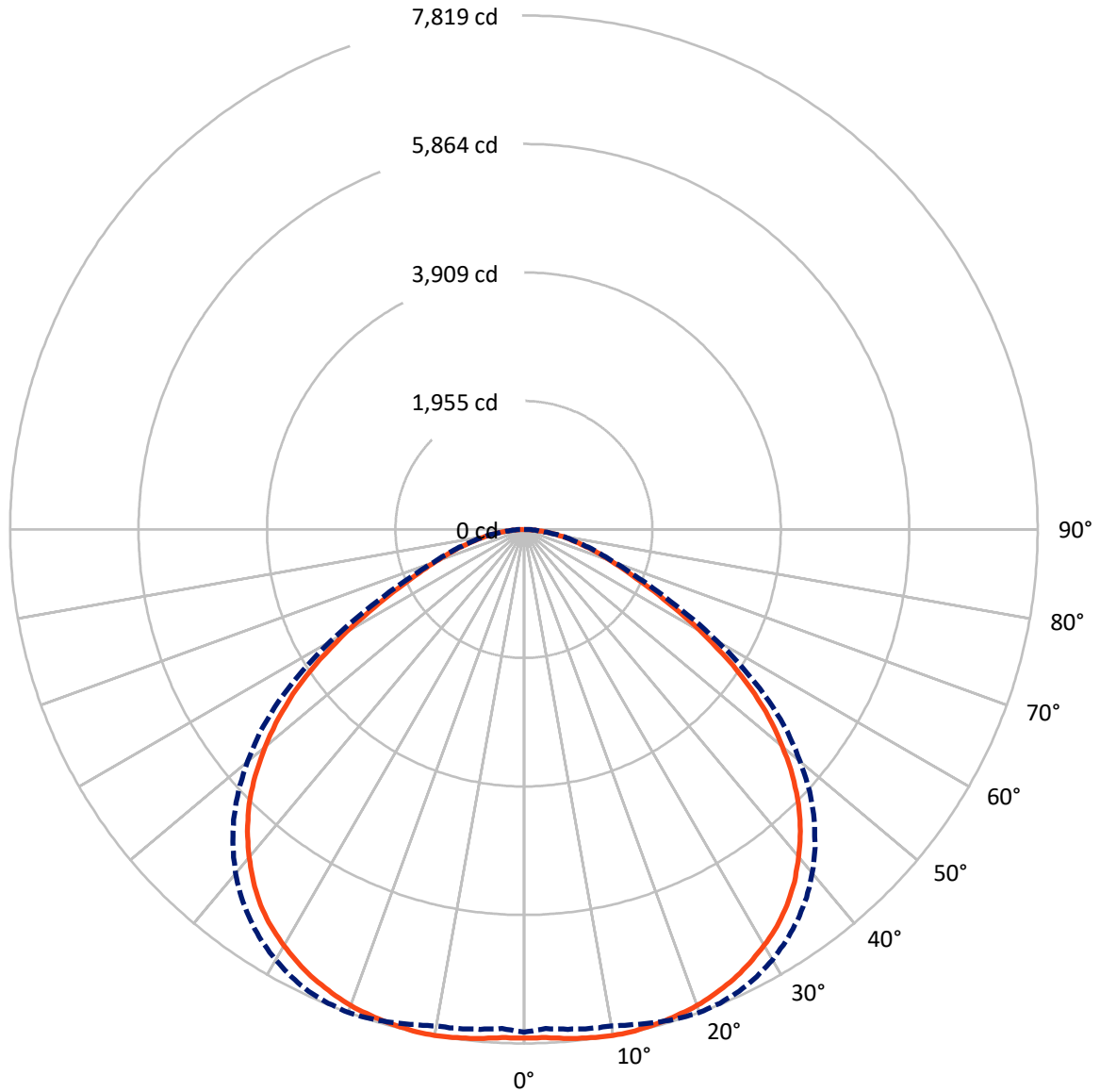
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Lumen Table



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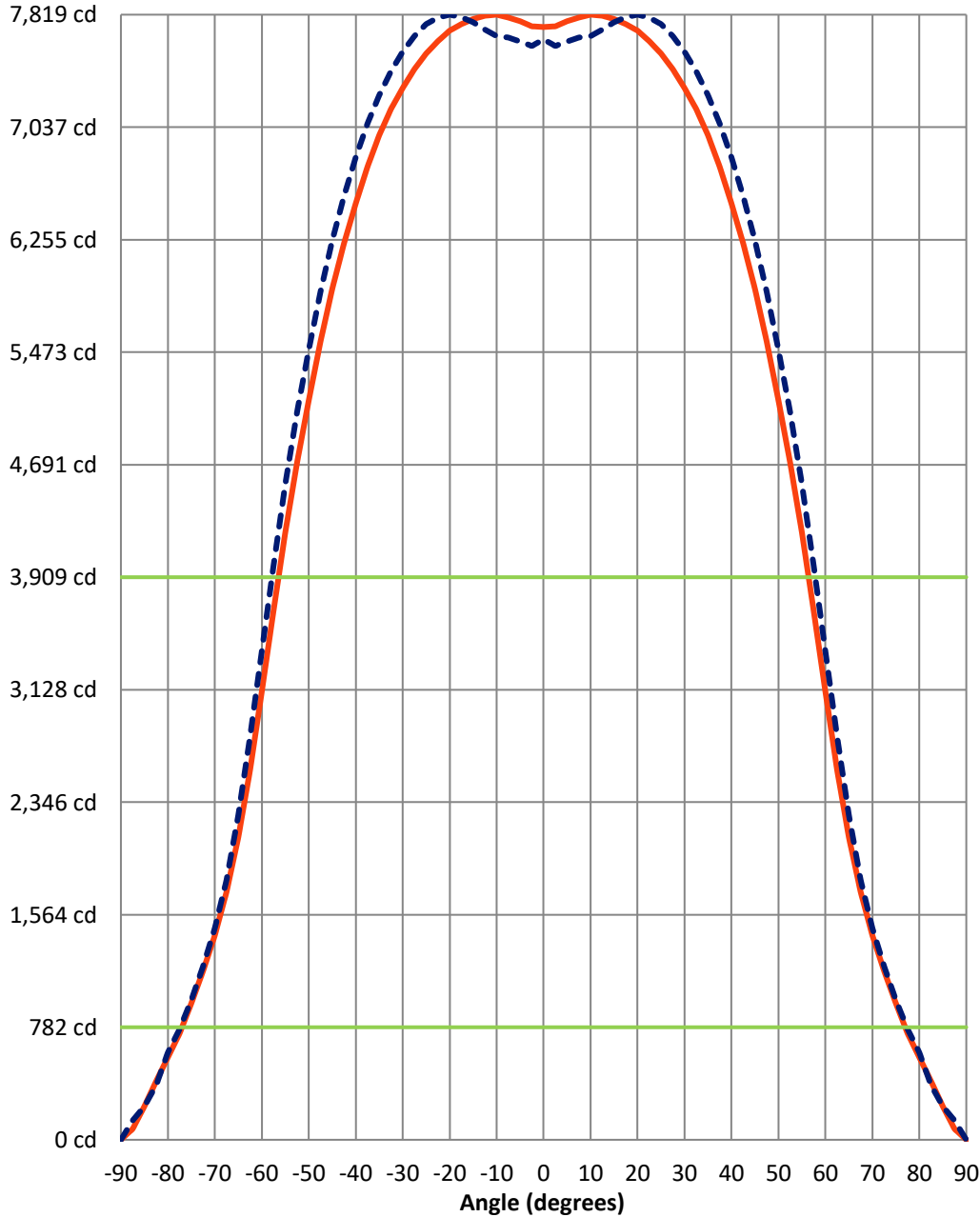
Luminous Intensity Polar Plot



— 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: 14718.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 17645.4
 Efficiency: 73.6%

Spill:
 Lumens: 6341.5
 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°	63.1	68.1	70.7	73.2	75.7	78.2	80.8	78.2	75.7	75.7	73.2
85°	169.1	174.1	176.7	194.3	212.0	222.1	234.7	232.2	229.7	229.7	227.1
82.5°	338.2	353.3	366.0	383.6	393.7	408.9	419.0	411.4	406.3	396.2	388.7
80°	600.7	605.7	608.2	610.8	598.1	595.6	590.6	583.0	572.9	560.3	547.7
77.5°	764.7	769.8	774.8	769.8	767.2	764.7	757.1	749.6	739.5	729.4	714.2
75°	1012.0	1012.0	1012.0	1004.5	999.4	991.9	979.2	966.6	949.0	928.8	906.0
72.5°	1274.5	1272.0	1269.5	1254.3	1241.7	1226.6	1208.9	1193.8	1173.6	1150.9	1120.6
70°	1549.6	1554.7	1557.2	1537.0	1521.9	1501.7	1479.0	1451.2	1420.9	1388.1	1345.2
67.5°	1928.2	1923.1	1918.1	1890.3	1870.1	1842.4	1809.6	1769.2	1723.8	1673.3	1612.7
65°	2397.6	2405.2	2390.0	2362.3	2324.4	2279.0	2228.5	2170.5	2102.3	2026.6	1940.8
62.5°	2965.5	2978.1	2960.4	2925.1	2877.1	2816.6	2745.9	2662.6	2569.2	2463.2	2357.2
60°	3611.6	3609.0	3576.2	3528.3	3465.2	3389.5	3311.2	3220.4	3114.4	2990.7	2862.0
57.5°	4204.7	4199.6	4159.2	4111.3	4048.2	3967.4	3884.1	3788.2	3677.2	3546.0	3397.0
55°	4737.2	4732.1	4691.8	4641.3	4575.7	4494.9	4419.2	4328.3	4219.8	4081.0	3922.0
52.5°	5209.1	5211.7	5176.3	5120.8	5050.1	4971.9	4898.7	4807.9	4704.4	4565.6	4411.6
50°	5643.2	5640.7	5602.9	5552.4	5486.8	5411.0	5337.9	5247.0	5138.5	5004.7	4855.8
47.5°	6047.0	6042.0	5999.1	5943.6	5875.4	5809.8	5741.7	5660.9	5547.3	5413.6	5264.7
45°	6385.2	6375.1	6332.2	6279.2	6213.6	6155.6	6095.0	6034.4	5913.3	5789.6	5648.3
42.5°	6675.5	6673.0	6630.0	6577.0	6511.4	6461.0	6405.4	6329.7	6228.8	6115.2	5976.4
40°	6953.1	6932.9	6890.0	6839.5	6779.0	6736.0	6680.5	6604.8	6506.4	6395.3	6261.6
37.5°	7160.0	7162.6	7117.1	7061.6	7008.6	6968.2	6917.8	6847.1	6761.3	6652.8	6519.0
35°	7356.9	7344.3	7306.4	7258.5	7210.5	7165.1	7112.1	7051.5	6980.9	6879.9	6753.7
32.5°	7485.6	7503.3	7457.9	7407.4	7379.6	7344.3	7288.8	7225.7	7162.6	7061.6	6948.0
30°	7627.0	7611.8	7576.5	7533.6	7513.4	7490.7	7442.7	7382.1	7309.0	7218.1	7112.1
27.5°	7725.4	7717.8	7674.9	7634.5	7624.4	7604.2	7566.4	7513.4	7440.2	7351.9	7253.4
25°	7768.3	7773.3	7733.0	7710.2	7710.2	7697.6	7667.3	7621.9	7548.7	7468.0	7372.0
22.5°	7788.5	7783.4	7755.7	7750.6	7763.2	7753.1	7740.5	7700.1	7634.5	7568.9	7488.1
20°	7801.1	7765.8	7740.5	7760.7	7775.9	7773.3	7763.2	7738.0	7707.7	7652.2	7581.5
17.5°	7773.3	7750.6	7720.3	7750.6	7783.4	7786.0	7775.9	7760.7	7753.1	7717.8	7654.7
15°	7705.2	7687.5	7692.6	7722.9	7760.7	7773.3	7780.9	7798.6	7788.5	7760.7	7705.2
12.5°	7659.8	7637.0	7659.8	7690.0	7710.2	7717.8	7778.4	7811.2	7811.2	7786.0	7750.6
10°	7647.1	7601.7	7632.0	7659.8	7669.9	7715.3	7765.8	7801.1	7818.8	7798.6	7753.1
7.5°	7621.9	7591.6	7604.2	7616.9	7674.9	7707.7	7735.5	7773.3	7798.6	7796.0	7755.7
5°	7609.3	7571.4	7576.5	7629.5	7669.9	7692.6	7702.7	7735.5	7773.3	7780.9	7750.6
2.5°	7576.5	7558.8	7596.7	7601.7	7632.0	7649.7	7659.8	7690.0	7738.0	7755.7	7743.0
0°	7558.8	7533.6	7508.3	7528.5	7579.0	7616.9	7632.0	7677.4	7733.0	7750.6	7722.9



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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°	70.7	68.1	65.6	63.1	65.6	65.6	65.6	63.1	65.6	63.1	63.1
85°	219.6	209.5	201.9	191.8	181.7	174.1	164.0	154.0	151.4	148.9	143.9
82.5°	378.6	366.0	353.3	338.2	323.0	305.4	287.7	267.5	262.5	257.4	249.9
80°	532.5	514.9	497.2	479.5	464.4	446.7	426.5	403.8	388.7	376.0	360.9
77.5°	694.0	668.8	643.6	613.3	595.6	578.0	557.8	535.0	512.3	492.1	469.4
75°	878.3	850.5	825.3	795.0	762.2	729.4	696.6	666.3	633.5	603.2	572.9
72.5°	1082.7	1042.3	1002.0	964.1	923.7	883.3	840.4	800.0	759.7	719.3	676.4
70°	1297.2	1246.8	1196.3	1145.8	1092.8	1039.8	989.3	938.9	888.4	835.4	787.4
67.5°	1549.6	1491.6	1426.0	1355.3	1277.0	1208.9	1143.3	1082.7	1022.1	961.6	901.0
65°	1865.1	1784.3	1696.0	1600.1	1509.2	1418.4	1322.5	1231.6	1161.0	1090.3	1022.1
62.5°	2253.8	2140.2	2016.5	1892.9	1781.8	1663.2	1552.1	1433.5	1322.5	1221.5	1138.2
60°	2718.1	2564.2	2412.8	2253.8	2099.8	1938.3	1797.0	1650.6	1511.8	1388.1	1267.0
57.5°	3230.5	3051.3	2869.6	2675.2	2465.8	2276.5	2084.7	1892.9	1728.8	1564.8	1428.5
55°	3750.4	3561.1	3356.7	3137.1	2907.4	2665.1	2405.2	2190.7	1966.0	1774.2	1597.6
52.5°	4245.0	4048.2	3836.2	3634.3	3359.2	3081.6	2796.4	2513.7	2251.2	2006.4	1791.9
50°	4686.7	4494.9	4290.5	4055.8	3800.9	3505.6	3187.6	2869.6	2559.1	2271.4	2003.9
47.5°	5090.5	4903.8	4699.3	4464.6	4232.4	3904.3	3583.8	3233.0	2887.2	2556.6	2243.7
45°	5469.1	5279.8	5067.8	4843.2	4575.7	4282.9	3952.3	3599.0	3228.0	2857.0	2496.0
42.5°	5812.3	5623.0	5408.5	5176.3	4911.3	4621.1	4300.6	3944.7	3571.2	3167.4	2771.1
40°	6112.7	5928.4	5721.5	5479.2	5231.9	4926.5	4611.0	4272.8	3886.7	3480.3	3043.7
37.5°	6375.1	6203.5	5999.1	5759.3	5496.9	5224.3	4898.7	4560.5	4212.2	3770.6	3323.9
35°	6607.3	6448.3	6238.9	6011.7	5754.3	5466.6	5161.2	4830.6	4454.5	4040.6	3606.5
32.5°	6809.2	6647.7	6455.9	6228.8	5978.9	5708.9	5395.9	5062.8	4706.9	4285.4	3813.5
30°	6980.9	6824.4	6642.7	6428.1	6188.4	5920.9	5615.5	5279.8	4916.4	4497.4	4030.5
27.5°	7129.8	6980.9	6804.2	6604.8	6375.1	6117.7	5809.8	5471.6	5100.6	4696.8	4229.9
25°	7258.5	7114.6	6950.6	6761.3	6534.1	6281.8	5991.5	5638.2	5267.2	4860.9	4399.0
22.5°	7374.6	7235.8	7071.7	6887.5	6680.5	6428.1	6135.4	5784.6	5408.5	5007.2	4553.0
20°	7478.0	7349.3	7187.8	6998.5	6791.6	6536.7	6246.4	5913.3	5534.7	5141.0	4691.8
17.5°	7561.3	7447.8	7286.2	7086.9	6879.9	6632.6	6349.9	6044.5	5643.2	5254.6	4807.9
15°	7619.4	7508.3	7362.0	7160.0	6958.1	6713.3	6430.7	6115.2	5741.7	5345.4	4903.8
12.5°	7659.8	7541.1	7404.9	7218.1	7016.2	6773.9	6498.8	6188.4	5825.0	5426.2	4987.0
10°	7669.9	7561.3	7425.0	7258.5	7061.6	6826.9	6556.9	6249.0	5893.1	5489.3	5055.2
7.5°	7674.9	7571.4	7447.8	7288.8	7094.4	6867.3	6599.8	6296.9	5943.6	5542.3	5105.7
5°	7672.4	7574.0	7462.9	7309.0	7114.6	6890.0	6627.5	6329.7	5978.9	5577.6	5143.5
2.5°	7664.8	7576.5	7473.0	7324.1	7137.3	6915.2	6655.3	6367.6	6016.8	5607.9	5173.8
0°	7685.0	7609.3	7478.0	7319.0	7142.4	6915.2	6652.8	6372.6	6021.8	5605.4	5171.3



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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°	63.1	60.6	60.6	58.0	55.5	53.0	48.0	45.4	40.4	32.8	25.2
85°	136.3	128.7	121.1	116.1	111.0	106.0	98.4	90.9	80.8	65.6	50.5
82.5°	239.8	224.6	209.5	191.8	176.7	161.5	148.9	136.3	121.1	98.4	75.7
80°	343.2	320.5	297.8	272.6	249.9	224.6	201.9	181.7	161.5	131.2	101.0
77.5°	446.7	416.4	383.6	353.3	320.5	287.7	254.9	227.1	196.9	161.5	126.2
75°	542.6	507.3	477.0	434.1	393.7	350.8	307.9	270.0	232.2	189.3	151.4
72.5°	638.5	593.1	550.2	509.8	464.4	411.4	363.4	315.5	267.5	217.0	171.6
70°	734.4	678.9	625.9	578.0	527.5	474.5	416.4	360.9	302.9	242.3	189.3
67.5°	832.9	769.8	709.2	648.6	590.6	530.0	469.4	406.3	338.2	267.5	209.5
65°	941.4	863.1	790.0	721.8	653.7	588.0	519.9	451.8	376.0	295.3	227.1
62.5°	1049.9	964.1	878.3	792.5	716.8	643.6	570.4	494.7	411.4	325.6	244.8
60°	1166.0	1067.6	969.1	873.2	779.9	699.1	618.3	537.6	449.2	353.3	262.5
57.5°	1294.7	1176.1	1065.0	956.5	850.5	754.6	666.3	580.5	482.0	381.1	282.7
55°	1441.1	1294.7	1163.5	1042.3	926.2	810.1	714.2	625.9	519.9	408.9	305.4
52.5°	1595.0	1426.0	1267.0	1130.7	1007.0	875.8	759.7	661.2	557.8	436.6	325.6
50°	1774.2	1559.7	1383.0	1216.5	1077.7	941.4	807.6	701.6	595.6	469.4	345.8
47.5°	1958.5	1721.2	1499.1	1317.4	1153.4	1004.5	863.1	737.0	631.0	499.7	366.0
45°	2173.0	1875.2	1630.4	1415.9	1226.6	1070.1	918.7	774.8	661.2	530.0	386.1
42.5°	2380.0	2056.9	1766.7	1524.4	1309.9	1133.2	969.1	815.2	691.5	560.3	403.8
40°	2624.8	2238.6	1897.9	1627.9	1393.1	1193.8	1019.6	858.1	719.3	588.0	421.5
37.5°	2859.5	2422.9	2056.9	1741.4	1473.9	1254.3	1070.1	898.5	744.5	615.8	444.2
35°	3091.7	2627.3	2208.3	1847.4	1557.2	1322.5	1120.6	936.3	769.8	638.5	464.4
32.5°	3313.8	2819.1	2362.3	1966.0	1648.0	1385.6	1166.0	971.7	795.0	658.7	484.6
30°	3520.7	3000.8	2513.7	2087.2	1731.3	1443.6	1208.9	1007.0	825.3	676.4	504.8
27.5°	3710.0	3177.5	2665.1	2200.8	1809.6	1496.6	1254.3	1039.8	850.5	694.0	522.4
25°	3881.6	3336.5	2804.0	2304.2	1880.2	1554.7	1297.2	1072.6	873.2	709.2	537.6
22.5°	4043.1	3482.9	2930.1	2407.7	1966.0	1612.7	1337.6	1102.9	896.0	724.3	552.7
20°	4184.5	3616.6	3051.3	2511.2	2041.8	1665.7	1373.0	1130.7	916.1	734.4	567.9
17.5°	4298.0	3735.2	3159.8	2602.0	2107.4	1711.1	1403.2	1155.9	933.8	747.0	578.0
15°	4399.0	3836.2	3250.7	2680.3	2165.4	1749.0	1431.0	1176.1	949.0	754.6	590.6
12.5°	4484.8	3922.0	3328.9	2748.4	2215.9	1781.8	1453.7	1191.2	961.6	762.2	598.1
10°	4555.5	3990.1	3394.5	2801.4	2256.3	1807.0	1471.4	1206.4	971.7	769.8	605.7
7.5°	4608.5	4040.6	3442.5	2846.9	2289.1	1824.7	1486.5	1216.5	981.8	774.8	618.3
5°	4648.9	4083.5	3480.3	2877.1	2314.3	1850.0	1504.2	1229.1	991.9	779.9	618.3
2.5°	4679.1	4118.9	3510.6	2902.4	2334.5	1844.9	1504.2	1226.6	991.9	779.9	615.8
0°	4674.1	4121.4	3508.1	2902.4	2334.5	1839.9	1504.2	1224.0	991.9	779.9	615.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.7	12.6	5.0	0.0
85°	37.9	25.2	12.6	0.0
82.5°	55.5	35.3	17.7	0.0
80°	73.2	48.0	22.7	0.0
77.5°	93.4	60.6	30.3	0.0
75°	111.0	70.7	35.3	0.0
72.5°	128.7	83.3	40.4	0.0
70°	143.9	93.4	45.4	0.0
67.5°	159.0	106.0	53.0	0.0
65°	171.6	116.1	58.0	0.0
62.5°	181.7	128.7	63.1	0.0
60°	194.3	138.8	68.1	0.0
57.5°	204.4	146.4	73.2	0.0
55°	214.5	151.4	78.2	0.0
52.5°	224.6	159.0	83.3	0.0
50°	234.7	166.6	88.3	0.0
47.5°	244.8	171.6	90.9	0.0
45°	260.0	179.2	95.9	0.0
42.5°	272.6	184.2	101.0	0.0
40°	285.2	189.3	103.5	0.0
37.5°	297.8	194.3	108.5	0.0
35°	310.4	199.4	111.0	0.0
32.5°	320.5	204.4	113.6	0.0
30°	330.6	209.5	116.1	0.0
27.5°	340.7	212.0	118.6	0.0
25°	348.3	217.0	121.1	0.0
22.5°	355.9	219.6	123.7	0.0
20°	360.9	222.1	126.2	0.0
17.5°	368.5	224.6	128.7	0.0
15°	371.0	227.1	133.8	0.0
12.5°	376.0	229.7	133.8	0.0
10°	378.6	232.2	133.8	0.0
7.5°	383.6	232.2	133.8	0.0
5°	381.1	232.2	133.8	0.0
2.5°	381.1	232.2	133.8	0.0
0°	378.6	232.2	133.8	0.0

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