

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: P628235

Luminaire Tested: **IFLD-L-SA8C-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628235
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	47480.4 lumens	Max Intensity:	15476.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	113.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

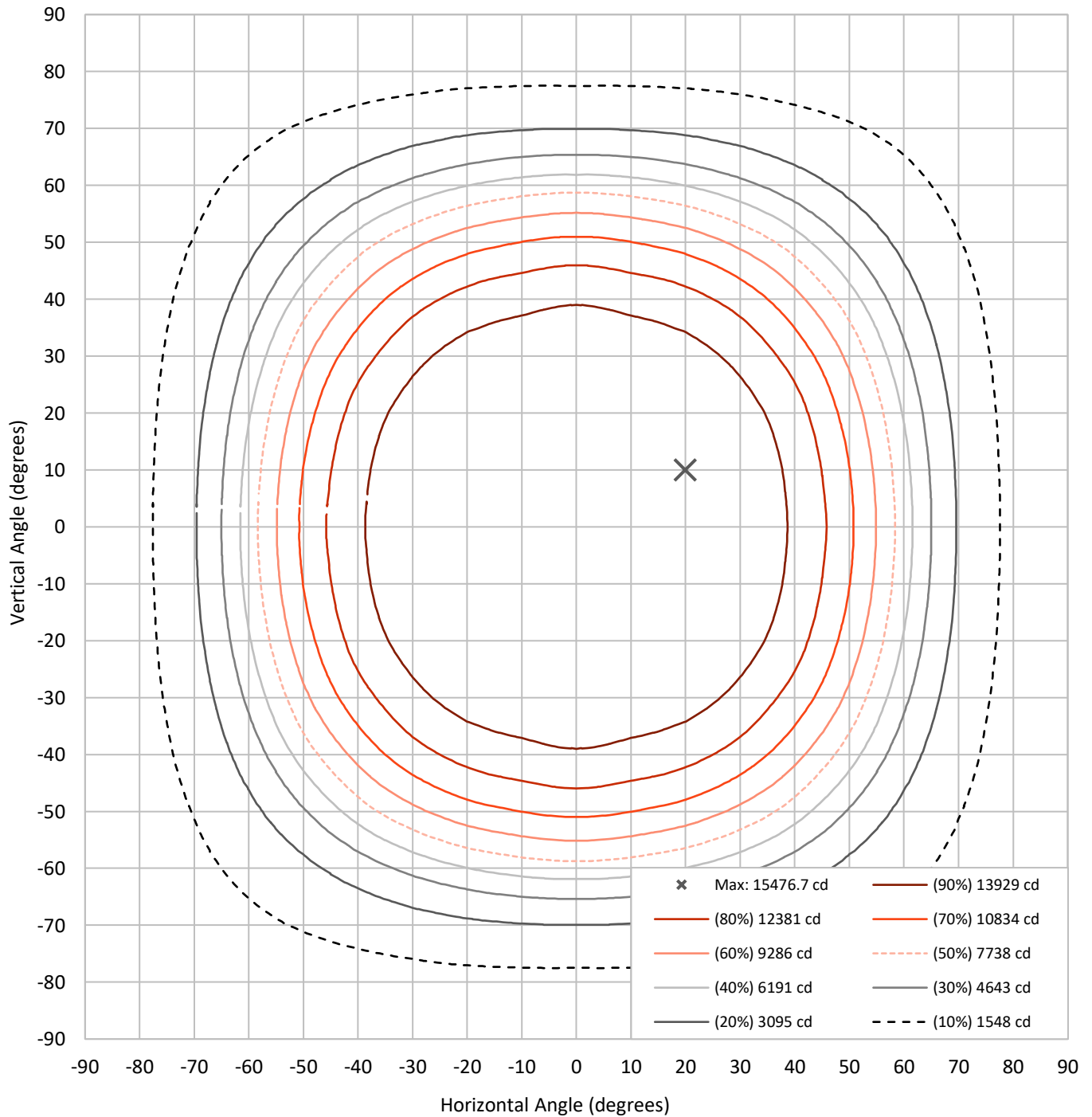
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	29135 lumens	Field Lumens:	34927.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 420.3
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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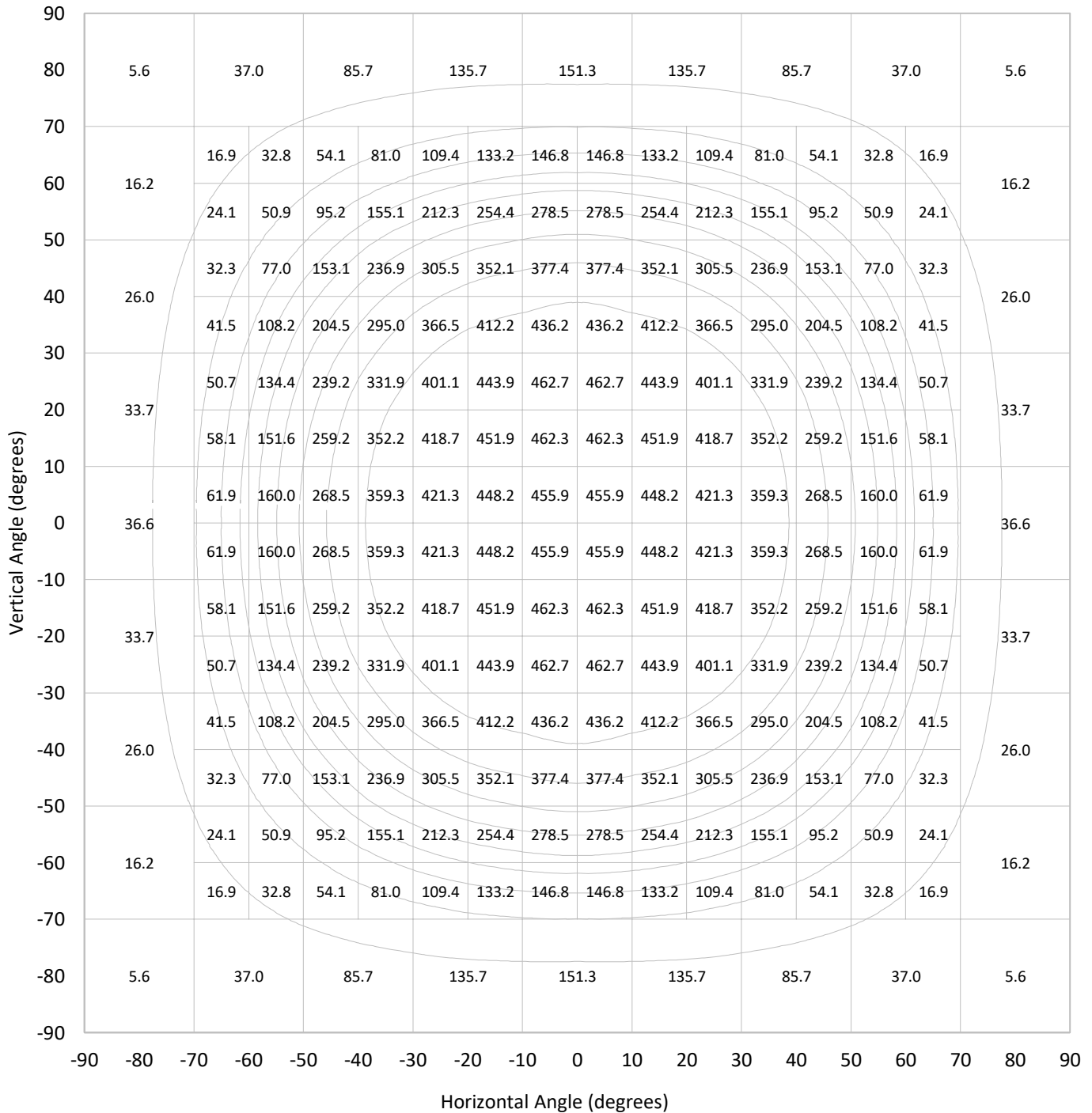
Iso-Candela Plot





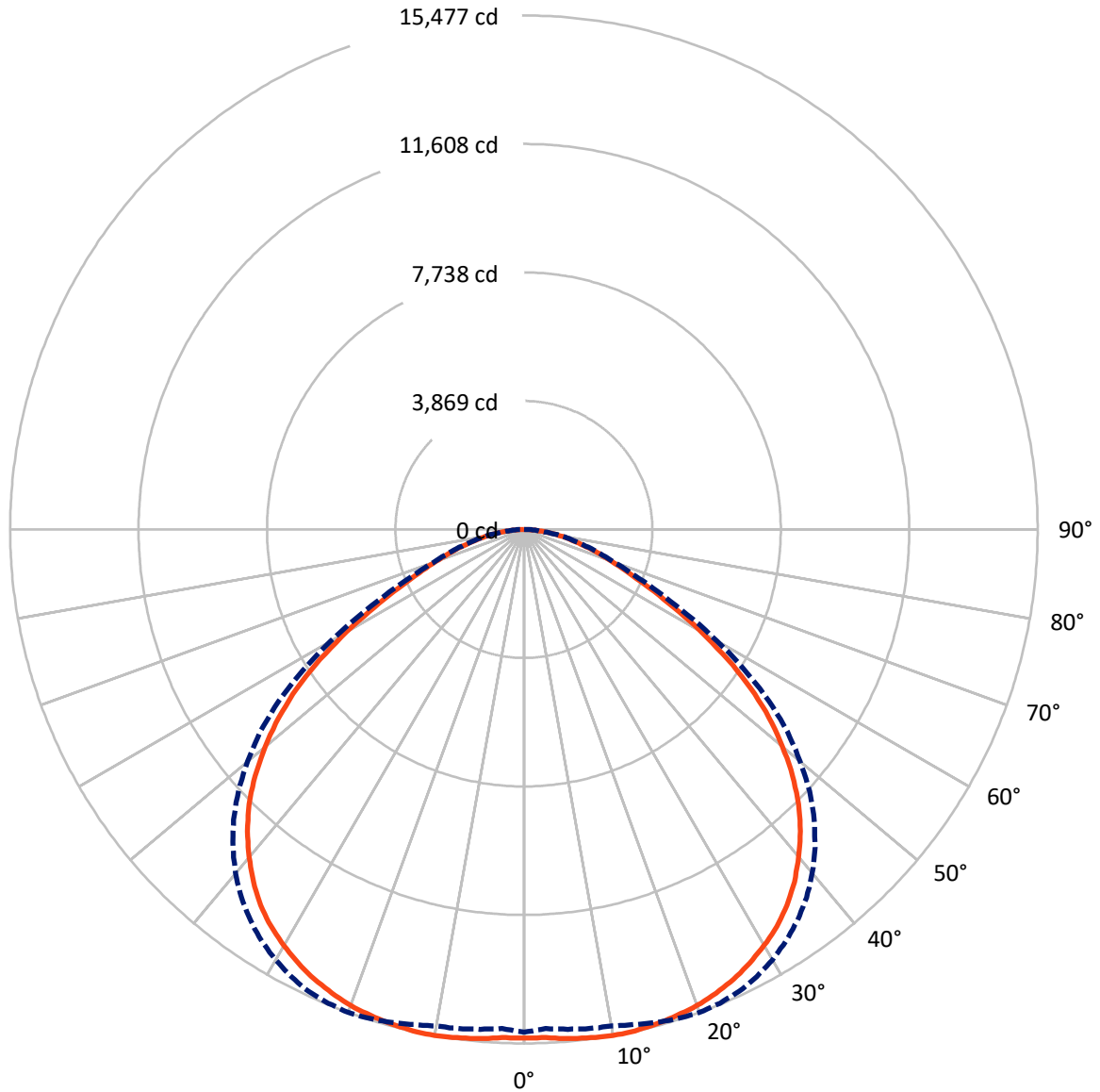
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Lumen Table



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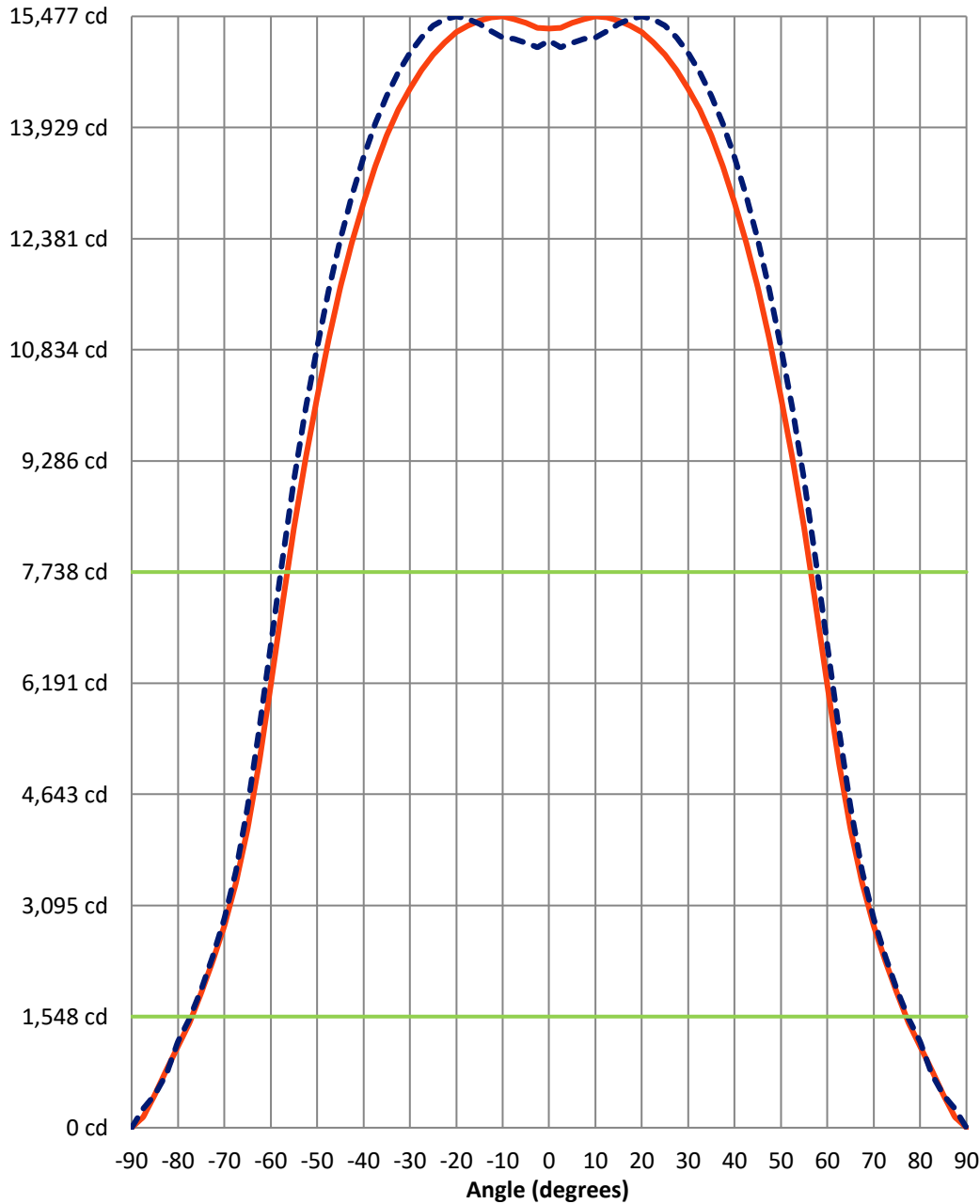
Luminous Intensity Polar Plot



— 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: 29135
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 34927.9
Efficiency: 73.6%

Spill:
Lumens: 12552.6
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°	124.9	134.9	139.9	144.9	149.9	154.9	159.9	154.9	149.9	149.9	144.9
85°	334.7	344.7	349.7	384.7	419.6	439.6	464.6	459.6	459.6	454.6	449.6
82.5°	669.4	699.4	724.4	759.3	779.3	809.3	829.3	814.3	804.3	784.3	769.3
80°	1189.0	1199.0	1204.0	1209.0	1184.0	1179.0	1169.0	1154.0	1134.0	1109.0	1084.1
77.5°	1513.7	1523.7	1533.7	1523.7	1518.7	1513.7	1498.7	1483.7	1463.7	1443.8	1413.8
75°	2003.3	2003.3	2003.3	1988.3	1978.3	1963.3	1938.3	1913.4	1878.4	1838.4	1793.5
72.5°	2522.8	2517.8	2512.8	2482.9	2457.9	2427.9	2392.9	2363.0	2323.0	2278.0	2218.1
70°	3067.4	3077.4	3082.4	3042.4	3012.4	2972.4	2927.5	2872.5	2812.6	2747.6	2662.7
67.5°	3816.7	3806.7	3796.7	3741.8	3701.8	3646.9	3581.9	3502.0	3412.1	3312.2	3192.3
65°	4745.9	4760.9	4730.9	4676.0	4601.0	4511.1	4411.2	4296.3	4161.4	4011.6	3841.7
62.5°	5870.0	5894.9	5860.0	5790.0	5695.1	5575.2	5435.3	5270.5	5085.6	4875.8	4666.0
60°	7148.9	7143.9	7078.9	6984.0	6859.1	6709.2	6554.4	6374.5	6164.7	5919.9	5665.1
57.5°	8322.8	8312.9	8232.9	8138.0	8013.1	7853.3	7688.4	7498.6	7278.7	7019.0	6724.2
55°	9376.9	9367.0	9287.0	9187.1	9057.2	8897.4	8747.5	8567.6	8352.8	8078.1	7763.3
52.5°	10311.1	10316.1	10246.2	10136.3	9996.4	9841.5	9696.7	9516.8	9312.0	9037.2	8732.5
50°	11170.4	11165.4	11090.5	10990.6	10860.7	10710.8	10565.9	10386.1	10171.3	9906.5	9611.7
47.5°	11969.7	11959.7	11874.8	11764.9	11630.0	11500.1	11365.2	11205.4	10980.6	10715.8	10421.0
45°	12639.1	12619.2	12534.2	12429.3	12299.4	12184.5	12064.6	11944.7	11704.9	11460.2	11180.4
42.5°	13213.6	13208.7	13123.7	13018.8	12888.9	12789.0	12679.1	12529.2	12329.4	12104.6	11829.8
40°	13763.2	13723.2	13638.3	13538.4	13418.5	13333.5	13223.6	13073.8	12878.9	12659.1	12394.4
37.5°	14172.8	14177.8	14087.9	13978.0	13873.1	13793.1	13693.2	13553.4	13383.5	13168.7	12903.9
35°	14562.5	14537.5	14462.6	14367.7	14272.7	14182.8	14077.9	13958.0	13818.1	13618.3	13368.5
32.5°	14817.3	14852.2	14762.3	14662.4	14607.4	14537.5	14427.6	14302.7	14177.8	13978.0	13753.2
30°	15097.0	15067.1	14997.1	14912.2	14872.2	14827.3	14732.3	14612.4	14467.6	14287.7	14077.9
27.5°	15291.9	15276.9	15191.9	15112.0	15092.0	15052.1	14977.1	14872.2	14727.3	14552.5	14357.7
25°	15376.8	15386.8	15306.8	15261.9	15261.9	15236.9	15177.0	15087.0	14942.2	14782.3	14592.5
22.5°	15416.8	15406.8	15351.8	15341.8	15366.8	15346.8	15321.8	15241.9	15112.0	14982.1	14822.3
20°	15441.7	15371.8	15321.8	15361.8	15391.8	15386.8	15366.8	15316.8	15256.9	15147.0	15007.1
17.5°	15386.8	15341.8	15281.9	15341.8	15406.8	15411.8	15391.8	15361.8	15346.8	15276.9	15152.0
15°	15251.9	15216.9	15226.9	15286.9	15361.8	15386.8	15401.8	15436.7	15416.8	15361.8	15251.9
12.5°	15162.0	15117.0	15162.0	15221.9	15261.9	15276.9	15396.8	15461.7	15461.7	15411.8	15341.8
10°	15137.0	15047.1	15107.0	15162.0	15182.0	15271.9	15371.8	15441.7	15476.7	15436.7	15346.8
7.5°	15087.0	15027.1	15052.1	15077.0	15191.9	15256.9	15311.8	15386.8	15436.7	15431.7	15351.8
5°	15062.1	14987.1	14997.1	15102.0	15182.0	15226.9	15246.9	15311.8	15386.8	15401.8	15341.8
2.5°	14997.1	14962.1	15037.1	15047.1	15107.0	15142.0	15162.0	15221.9	15316.8	15351.8	15326.8
0°	14962.1	14912.2	14862.2	14902.2	15002.1	15077.0	15107.0	15196.9	15306.8	15341.8	15286.9



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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°	139.9	134.9	129.9	124.9	129.9	129.9	129.9	124.9	129.9	124.9	124.9
85°	434.6	414.6	399.7	379.7	359.7	344.7	324.7	304.7	299.7	294.7	284.8
82.5°	749.4	724.4	699.4	669.4	639.5	604.5	569.5	529.5	519.6	509.6	494.6
80°	1054.1	1019.1	984.2	949.2	919.2	884.2	844.3	799.3	769.3	744.4	714.4
77.5°	1373.8	1323.9	1273.9	1214.0	1179.0	1144.0	1104.1	1059.1	1014.1	974.2	929.2
75°	1738.5	1683.6	1633.6	1573.6	1508.7	1443.8	1378.8	1318.9	1253.9	1194.0	1134.0
72.5°	2143.2	2063.2	1983.3	1908.4	1828.4	1748.5	1663.6	1583.6	1503.7	1423.8	1338.8
70°	2567.8	2467.9	2368.0	2268.1	2163.1	2058.2	1958.3	1858.4	1758.5	1653.6	1558.7
67.5°	3067.4	2952.5	2822.6	2682.7	2527.8	2392.9	2263.1	2143.2	2023.3	1903.4	1783.5
65°	3691.8	3532.0	3357.1	3167.3	2987.4	2807.6	2617.8	2437.9	2298.0	2158.1	2023.3
62.5°	4461.2	4236.4	3991.6	3746.8	3527.0	3292.2	3072.4	2837.6	2617.8	2417.9	2253.1
60°	5380.4	5075.6	4775.9	4461.2	4156.4	3836.7	3556.9	3267.2	2992.4	2747.6	2507.8
57.5°	6394.5	6039.8	5680.1	5295.4	4880.8	4506.1	4126.5	3746.8	3422.1	3097.3	2827.6
55°	7423.6	7048.9	6644.3	6209.7	5755.1	5275.5	4760.9	4336.3	3891.7	3512.0	3162.3
52.5°	8402.8	8013.1	7593.5	7193.8	6649.3	6099.8	5535.2	4975.7	4456.2	3971.6	3547.0
50°	9277.0	8897.4	8492.7	8028.1	7523.5	6939.0	6309.6	5680.1	5065.6	4496.1	3966.6
47.5°	10076.3	9706.7	9302.0	8837.4	8377.8	7728.4	7093.9	6399.5	5715.1	5060.7	4441.2
45°	10825.7	10451.0	10031.4	9586.8	9057.2	8477.7	7823.3	7123.9	6389.5	5655.1	4940.8
42.5°	11505.1	11130.4	10705.8	10246.2	9721.6	9147.1	8512.7	7808.3	7068.9	6269.6	5485.3
40°	12099.6	11734.9	11325.3	10845.7	10356.1	9751.6	9127.2	8457.7	7693.4	6889.1	6024.8
37.5°	12619.2	12279.4	11874.8	11400.2	10880.7	10341.1	9696.7	9027.2	8337.8	7463.6	6579.3
35°	13078.8	12764.0	12349.4	11899.8	11390.2	10820.7	10216.2	9561.8	8817.4	7998.1	7138.9
32.5°	13478.4	13158.7	12779.0	12329.4	11834.8	11300.3	10680.8	10021.4	9317.0	8482.7	7548.5
30°	13818.1	13508.4	13148.7	12724.1	12249.5	11719.9	11115.4	10451.0	9731.6	8902.4	7978.1
27.5°	14112.9	13818.1	13468.4	13073.8	12619.2	12109.6	11500.1	10830.7	10096.3	9297.0	8372.8
25°	14367.7	14082.9	13758.2	13383.5	12933.9	12434.3	11859.8	11160.4	10426.0	9621.7	8707.5
22.5°	14597.5	14322.7	13998.0	13633.3	13223.6	12724.1	12144.6	11450.2	10705.8	9911.5	9012.3
20°	14802.3	14547.5	14227.8	13853.1	13443.4	12938.9	12364.4	11704.9	10955.6	10176.3	9287.0
17.5°	14967.1	14742.3	14422.6	14027.9	13618.3	13128.7	12569.2	11964.7	11170.4	10401.1	9516.8
15°	15082.0	14862.2	14572.5	14172.8	13773.2	13288.6	12729.1	12104.6	11365.2	10580.9	9706.7
12.5°	15162.0	14927.2	14657.4	14287.7	13888.1	13408.5	12863.9	12249.5	11530.1	10740.8	9871.5
10°	15182.0	14967.1	14697.4	14367.7	13978.0	13513.4	12978.8	12369.4	11665.0	10865.7	10006.4
7.5°	15191.9	14987.1	14742.3	14427.6	14042.9	13593.3	13063.8	12464.3	11764.9	10970.6	10106.3
5°	15187.0	14992.1	14772.3	14467.6	14082.9	13638.3	13118.7	12529.2	11834.8	11040.5	10181.3
2.5°	15172.0	14997.1	14792.3	14497.5	14127.9	13688.2	13173.7	12604.2	11909.8	11100.5	10241.2
0°	15211.9	15062.1	14802.3	14487.6	14137.9	13688.2	13168.7	12614.2	11919.8	11095.5	10236.2



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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°	124.9	119.9	119.9	114.9	109.9	104.9	94.9	89.9	79.9	64.9	50.0
85°	269.8	254.8	239.8	229.8	219.8	209.8	194.8	179.8	159.9	129.9	99.9
82.5°	474.6	444.6	414.6	379.7	349.7	319.7	294.7	269.8	239.8	194.8	149.9
80°	679.4	634.5	589.5	539.5	494.6	444.6	399.7	359.7	319.7	259.8	199.8
77.5°	884.2	824.3	759.3	699.4	634.5	569.5	504.6	449.6	389.7	319.7	249.8
75°	1074.1	1004.1	944.2	859.3	779.3	694.4	609.5	534.5	459.6	374.7	299.7
72.5°	1263.9	1174.0	1089.1	1009.1	919.2	814.3	719.4	624.5	529.5	429.6	339.7
70°	1453.8	1343.8	1238.9	1144.0	1044.1	939.2	824.3	714.4	599.5	479.6	374.7
67.5°	1648.6	1523.7	1403.8	1283.9	1169.0	1049.1	929.2	804.3	669.4	529.5	414.6
65°	1863.4	1708.5	1563.7	1428.8	1293.9	1164.0	1029.1	894.2	744.4	584.5	449.6
62.5°	2078.2	1908.4	1738.5	1568.7	1418.8	1273.9	1129.0	979.2	814.3	644.4	484.6
60°	2308.0	2113.2	1918.4	1728.5	1543.7	1383.8	1223.9	1064.1	889.2	699.4	519.6
57.5°	2562.8	2328.0	2108.2	1893.4	1683.6	1493.7	1318.9	1149.0	954.2	754.4	559.5
55°	2852.5	2562.8	2303.0	2063.2	1833.4	1603.6	1413.8	1238.9	1029.1	809.3	604.5
52.5°	3157.3	2822.6	2507.8	2238.1	1993.3	1733.5	1503.7	1308.9	1104.1	864.3	644.4
50°	3512.0	3087.3	2737.6	2407.9	2133.2	1863.4	1598.6	1388.8	1179.0	929.2	684.4
47.5°	3876.7	3407.1	2967.5	2607.8	2283.0	1988.3	1708.5	1458.7	1248.9	989.2	724.4
45°	4301.3	3711.8	3227.2	2802.6	2427.9	2118.2	1818.4	1533.7	1308.9	1049.1	764.3
42.5°	4711.0	4071.5	3497.0	3017.4	2592.8	2243.1	1918.4	1613.6	1368.8	1109.0	799.3
40°	5195.5	4431.2	3756.8	3222.2	2757.6	2363.0	2018.3	1698.5	1423.8	1164.0	834.3
37.5°	5660.1	4795.9	4071.5	3447.0	2917.5	2482.9	2118.2	1778.5	1473.7	1219.0	879.2
35°	6119.7	5200.5	4371.2	3656.9	3082.4	2617.8	2218.1	1853.4	1523.7	1263.9	919.2
32.5°	6559.4	5580.2	4676.0	3891.7	3262.2	2742.6	2308.0	1923.3	1573.6	1303.9	959.2
30°	6969.0	5939.9	4975.7	4131.5	3427.1	2857.5	2392.9	1993.3	1633.6	1338.8	999.1
27.5°	7343.7	6289.6	5275.5	4356.3	3581.9	2962.5	2482.9	2058.2	1683.6	1373.8	1034.1
25°	7683.4	6604.3	5550.2	4561.1	3721.8	3077.4	2567.8	2123.2	1728.5	1403.8	1064.1
22.5°	8003.1	6894.1	5800.0	4765.9	3891.7	3192.3	2647.7	2183.1	1773.5	1433.8	1094.1
20°	8282.9	7158.8	6039.8	4970.7	4041.5	3297.2	2717.7	2238.1	1813.4	1453.8	1124.0
17.5°	8507.7	7393.6	6254.6	5150.6	4171.4	3387.1	2777.6	2288.0	1848.4	1478.7	1144.0
15°	8707.5	7593.5	6434.5	5305.4	4286.3	3462.0	2832.6	2328.0	1878.4	1493.7	1169.0
12.5°	8877.4	7763.3	6589.3	5440.3	4386.2	3527.0	2877.5	2358.0	1903.4	1508.7	1184.0
10°	9017.3	7898.2	6719.2	5545.2	4466.2	3576.9	2912.5	2387.9	1923.3	1523.7	1199.0
7.5°	9122.2	7998.1	6814.1	5635.2	4531.1	3611.9	2942.5	2407.9	1943.3	1533.7	1223.9
5°	9202.1	8083.1	6889.1	5695.1	4581.1	3661.9	2977.4	2432.9	1963.3	1543.7	1223.9
2.5°	9262.0	8153.0	6949.0	5745.1	4621.0	3651.9	2977.4	2427.9	1963.3	1543.7	1219.0
0°	9252.1	8158.0	6944.0	5745.1	4621.0	3641.9	2977.4	2422.9	1963.3	1543.7	1219.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	35.0	25.0	10.0	0.0
85°	74.9	50.0	25.0	0.0
82.5°	109.9	69.9	35.0	0.0
80°	144.9	94.9	45.0	0.0
77.5°	184.8	119.9	59.9	0.0
75°	219.8	139.9	69.9	0.0
72.5°	254.8	164.9	79.9	0.0
70°	284.8	184.8	89.9	0.0
67.5°	314.7	209.8	104.9	0.0
65°	339.7	229.8	114.9	0.0
62.5°	359.7	254.8	124.9	0.0
60°	384.7	274.8	134.9	0.0
57.5°	404.7	289.8	144.9	0.0
55°	424.6	299.7	154.9	0.0
52.5°	444.6	314.7	164.9	0.0
50°	464.6	329.7	174.8	0.0
47.5°	484.6	339.7	179.8	0.0
45°	514.6	354.7	189.8	0.0
42.5°	539.5	364.7	199.8	0.0
40°	564.5	374.7	204.8	0.0
37.5°	589.5	384.7	214.8	0.0
35°	614.5	394.7	219.8	0.0
32.5°	634.5	404.7	224.8	0.0
30°	654.4	414.6	229.8	0.0
27.5°	674.4	419.6	234.8	0.0
25°	689.4	429.6	239.8	0.0
22.5°	704.4	434.6	244.8	0.0
20°	714.4	439.6	249.8	0.0
17.5°	729.4	444.6	254.8	0.0
15°	734.4	449.6	264.8	0.0
12.5°	744.4	454.6	264.8	0.0
10°	749.4	459.6	264.8	0.0
7.5°	759.3	459.6	264.8	0.0
5°	754.4	459.6	264.8	0.0
2.5°	754.4	459.6	264.8	0.0
0°	749.4	459.6	264.8	0.0

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