

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: P628161

Luminaire Tested: **IFLD-S-SA6B-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628161
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

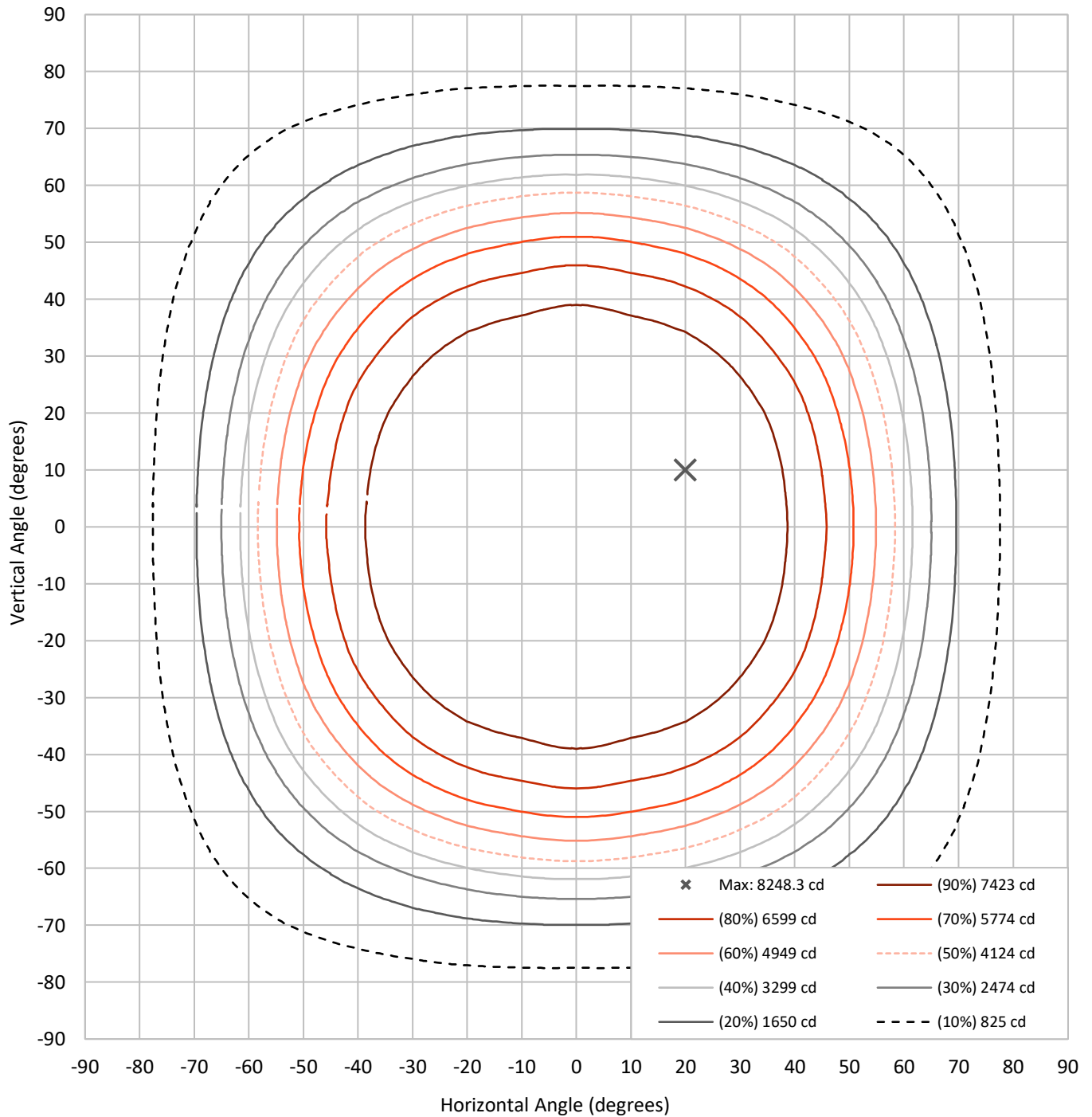
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	25304.7 lumens	Max Intensity:	8248.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	103.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	15527.5 lumens	Field Lumens:	18614.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 244.9
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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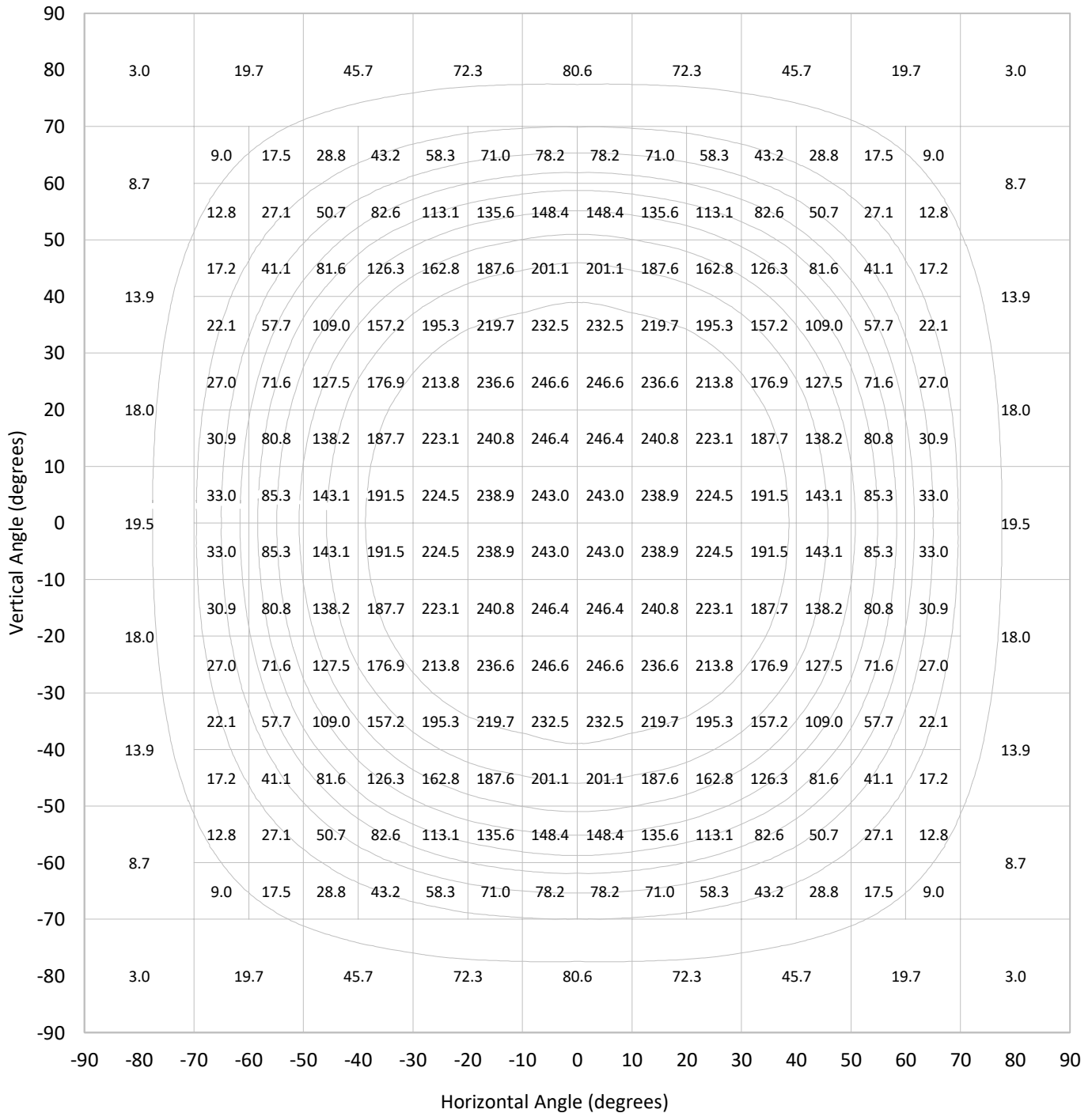
Iso-Candela Plot





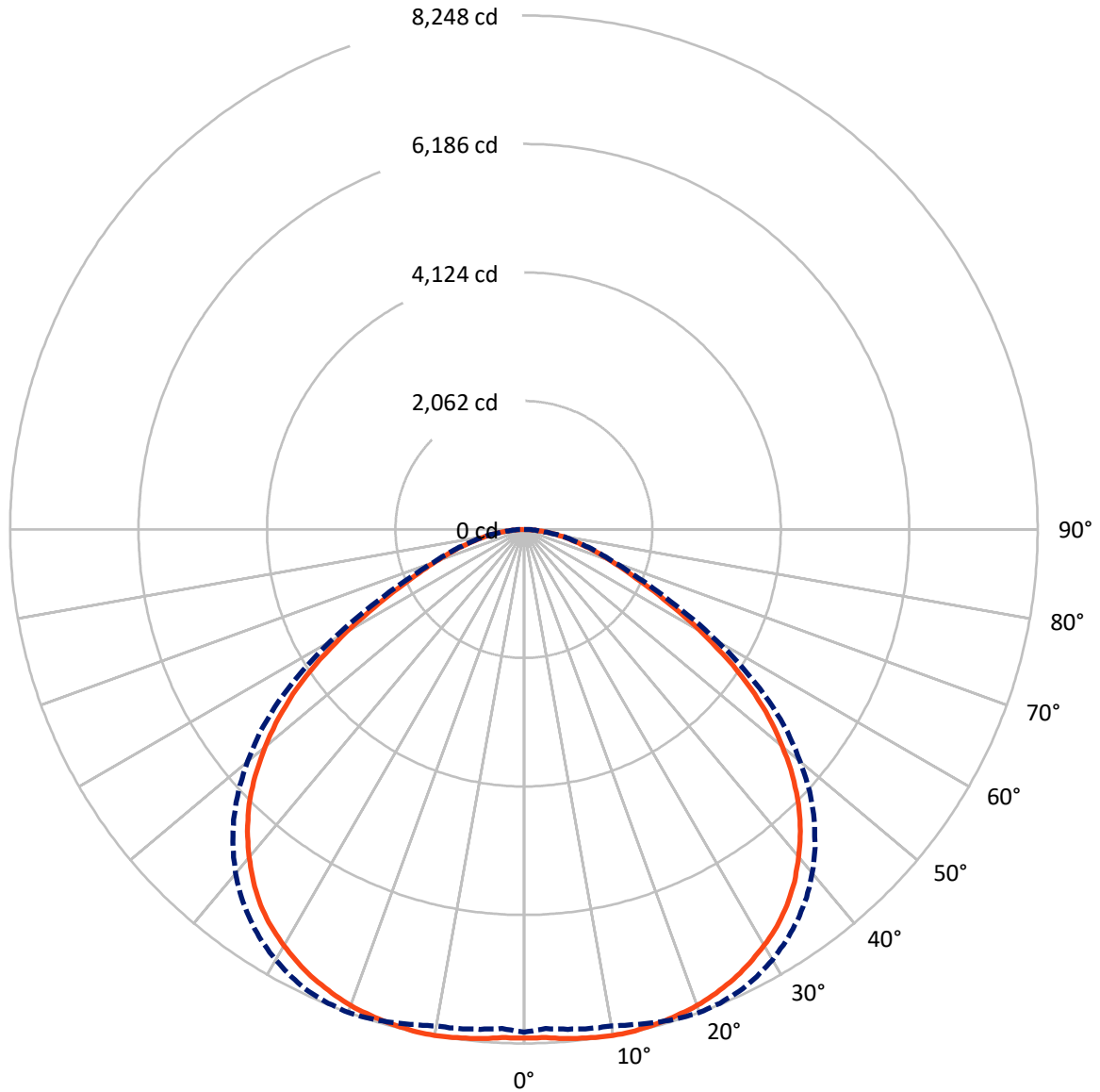
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Lumen Table



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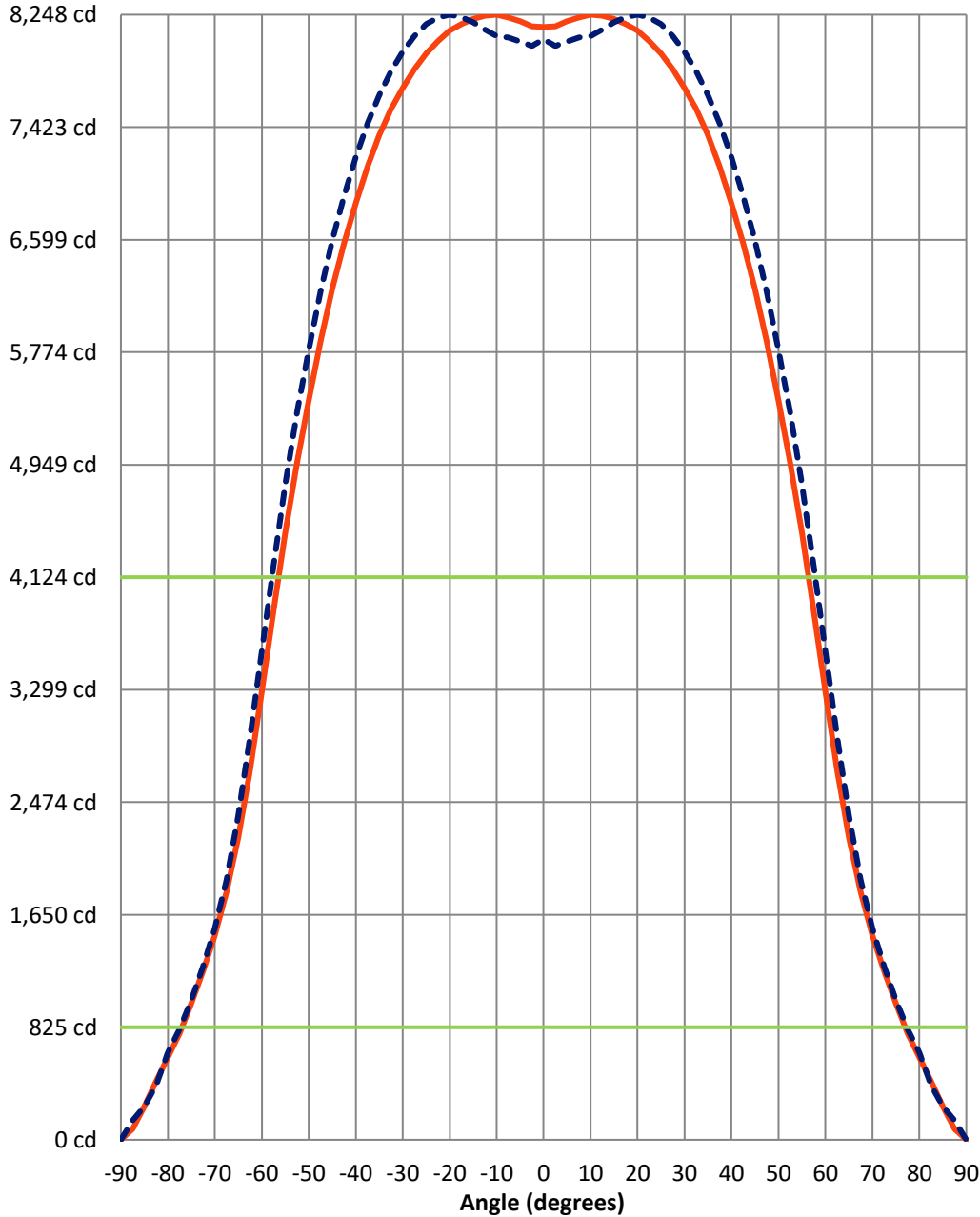
Luminous Intensity Polar Plot



— 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: 15527.5
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 18614.8
 Efficiency: 73.6%

Spill:
 Lumens: 6689.9
 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°	66.6	71.9	74.5	77.2	79.9	82.5	85.2	82.5	79.9	79.9	77.2
85°	178.4	183.7	186.4	205.0	223.6	234.3	247.6	244.9	244.9	242.3	239.6
82.5°	356.8	372.7	386.1	404.7	415.3	431.3	442.0	434.0	428.7	418.0	410.0
80°	633.7	639.0	641.7	644.3	631.0	628.3	623.0	615.0	604.4	591.1	577.8
77.5°	806.7	812.1	817.4	812.1	809.4	806.7	798.7	790.8	780.1	769.5	753.5
75°	1067.6	1067.6	1067.6	1059.7	1054.3	1046.3	1033.0	1019.7	1001.1	979.8	955.8
72.5°	1344.5	1341.9	1339.2	1323.2	1309.9	1294.0	1275.3	1259.3	1238.0	1214.1	1182.1
70°	1634.8	1640.1	1642.7	1621.4	1605.5	1584.2	1560.2	1530.9	1499.0	1464.4	1419.1
67.5°	2034.1	2028.8	2023.5	1994.2	1972.9	1943.6	1909.0	1866.4	1818.5	1765.2	1701.3
65°	2529.3	2537.3	2521.4	2492.1	2452.1	2404.2	2351.0	2289.7	2217.8	2138.0	2047.4
62.5°	3128.4	3141.7	3123.1	3085.8	3035.2	2971.3	2896.8	2808.9	2710.4	2598.6	2486.7
60°	3810.0	3807.3	3772.7	3722.1	3655.6	3575.7	3493.2	3397.3	3285.5	3155.0	3019.2
57.5°	4435.7	4430.3	4387.7	4337.2	4270.6	4185.4	4097.5	3996.4	3879.2	3740.8	3583.7
55°	4997.4	4992.1	4949.5	4896.3	4827.0	4741.9	4662.0	4566.1	4451.6	4305.2	4137.5
52.5°	5495.3	5498.0	5460.7	5402.1	5327.6	5245.1	5167.8	5072.0	4962.8	4816.4	4654.0
50°	5953.3	5950.6	5910.7	5857.4	5788.2	5708.3	5631.1	5535.3	5420.8	5279.7	5122.6
47.5°	6379.3	6373.9	6328.7	6270.1	6198.2	6129.0	6057.1	5971.9	5852.1	5711.0	5553.9
45°	6736.0	6725.4	6680.1	6624.2	6555.0	6493.8	6429.9	6366.0	6238.2	6107.7	5958.6
42.5°	7042.2	7039.6	6994.3	6938.4	6869.2	6815.9	6757.3	6677.5	6571.0	6451.2	6304.7
40°	7335.1	7313.8	7268.5	7215.3	7151.4	7106.1	7047.5	6967.7	6863.8	6746.7	6605.6
37.5°	7553.4	7556.1	7508.2	7449.6	7393.7	7351.1	7297.8	7223.3	7132.7	7018.3	6877.1
35°	7761.1	7747.8	7707.8	7657.2	7606.7	7558.7	7502.8	7438.9	7364.4	7257.9	7124.8
32.5°	7896.9	7915.5	7867.6	7814.3	7785.0	7747.8	7689.2	7622.6	7556.1	7449.6	7329.8
30°	8046.0	8030.0	7992.7	7947.5	7926.2	7902.2	7851.6	7787.7	7710.5	7614.6	7502.8
27.5°	8149.8	8141.8	8096.6	8054.0	8043.3	8022.0	7982.1	7926.2	7848.9	7755.8	7651.9
25°	8195.1	8200.4	8157.8	8133.8	8133.8	8120.5	8088.6	8040.6	7963.4	7878.2	7777.1
22.5°	8216.4	8211.0	8181.8	8176.4	8189.7	8179.1	8165.8	8123.2	8054.0	7984.7	7899.5
20°	8229.7	8192.4	8165.8	8187.1	8203.1	8200.4	8189.7	8163.1	8131.2	8072.6	7998.0
17.5°	8200.4	8176.4	8144.5	8176.4	8211.0	8213.7	8203.1	8187.1	8179.1	8141.8	8075.3
15°	8128.5	8109.9	8115.2	8147.1	8187.1	8200.4	8208.4	8227.0	8216.4	8187.1	8128.5
12.5°	8080.6	8056.6	8080.6	8112.5	8133.8	8141.8	8205.7	8240.3	8240.3	8213.7	8176.4
10°	8067.3	8019.3	8051.3	8080.6	8091.2	8139.2	8192.4	8229.7	8248.3	8227.0	8179.1
7.5°	8040.6	8008.7	8022.0	8035.3	8096.6	8131.2	8160.5	8200.4	8227.0	8224.4	8181.8
5°	8027.3	7987.4	7992.7	8048.6	8091.2	8115.2	8125.8	8160.5	8200.4	8208.4	8176.4
2.5°	7992.7	7974.1	8014.0	8019.3	8051.3	8069.9	8080.6	8112.5	8163.1	8181.8	8168.4
0°	7974.1	7947.5	7920.8	7942.1	7995.4	8035.3	8051.3	8099.2	8157.8	8176.4	8147.1



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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°	74.5	71.9	69.2	66.6	69.2	69.2	69.2	66.6	69.2	66.6	66.6
85°	231.6	221.0	213.0	202.3	191.7	183.7	173.1	162.4	159.7	157.1	151.8
82.5°	399.4	386.1	372.7	356.8	340.8	322.2	303.5	282.2	276.9	271.6	263.6
80°	561.8	543.1	524.5	505.9	489.9	471.3	450.0	426.0	410.0	396.7	380.7
77.5°	732.2	705.6	678.9	647.0	628.3	609.7	588.4	564.4	540.5	519.2	495.2
75°	926.5	897.3	870.6	838.7	804.1	769.5	734.8	702.9	668.3	636.3	604.4
72.5°	1142.2	1099.6	1057.0	1017.1	974.5	931.9	886.6	844.0	801.4	758.8	713.5
70°	1368.5	1315.3	1262.0	1208.8	1152.8	1096.9	1043.7	990.4	937.2	881.3	830.7
67.5°	1634.8	1573.5	1504.3	1429.7	1347.2	1275.3	1206.1	1142.2	1078.3	1014.4	950.5
65°	1967.6	1882.4	1789.2	1688.0	1592.2	1496.3	1395.1	1299.3	1224.7	1150.2	1078.3
62.5°	2377.6	2257.8	2127.3	1996.8	1879.7	1754.6	1637.4	1512.3	1395.1	1288.6	1200.8
60°	2867.5	2705.1	2545.3	2377.6	2215.2	2044.8	1895.7	1741.3	1594.8	1464.4	1336.6
57.5°	3408.0	3218.9	3027.2	2822.2	2601.2	2401.5	2199.2	1996.8	1823.8	1650.7	1507.0
55°	3956.4	3756.7	3541.1	3309.4	3067.2	2811.6	2537.3	2311.0	2074.1	1871.7	1685.3
52.5°	4478.3	4270.6	4046.9	3833.9	3543.7	3250.9	2950.0	2651.8	2374.9	2116.7	1890.4
50°	4944.2	4741.9	4526.2	4278.6	4009.7	3698.2	3362.7	3027.2	2699.7	2396.2	2114.0
47.5°	5370.2	5173.2	4957.5	4709.9	4465.0	4118.8	3780.7	3410.6	3045.9	2697.1	2366.9
45°	5769.6	5569.9	5346.2	5109.3	4827.0	4518.2	4169.4	3796.7	3405.3	3013.9	2633.2
42.5°	6131.7	5932.0	5705.7	5460.7	5181.2	4875.0	4536.8	4161.4	3767.4	3341.4	2923.4
40°	6448.5	6254.1	6035.8	5780.2	5519.3	5197.1	4864.3	4507.6	4100.2	3671.5	3210.9
37.5°	6725.4	6544.3	6328.7	6075.7	5798.8	5511.3	5167.8	4811.1	4443.7	3977.7	3506.5
35°	6970.3	6802.6	6581.6	6342.0	6070.4	5766.9	5444.7	5096.0	4699.3	4262.6	3804.7
32.5°	7183.3	7012.9	6810.6	6571.0	6307.4	6022.5	5692.4	5340.9	4965.5	4520.9	4023.0
30°	7364.4	7199.3	7007.6	6781.3	6528.4	6246.1	5924.0	5569.9	5186.5	4744.5	4252.0
27.5°	7521.5	7364.4	7178.0	6967.7	6725.4	6453.8	6129.0	5772.2	5380.8	4954.8	4462.3
25°	7657.2	7505.5	7332.4	7132.7	6893.1	6626.9	6320.7	5947.9	5556.6	5127.9	4640.7
22.5°	7779.7	7633.3	7460.2	7265.9	7047.5	6781.3	6472.5	6102.4	5705.7	5282.3	4803.1
20°	7888.9	7753.1	7582.7	7383.0	7164.7	6895.8	6589.6	6238.2	5838.8	5423.4	4949.5
17.5°	7976.7	7856.9	7686.5	7476.2	7257.9	6997.0	6698.8	6376.6	5953.3	5543.3	5072.0
15°	8038.0	7920.8	7766.4	7553.4	7340.4	7082.2	6784.0	6451.2	6057.1	5639.1	5173.2
12.5°	8080.6	7955.4	7811.7	7614.6	7401.7	7146.1	6855.8	6528.4	6145.0	5724.3	5261.0
10°	8091.2	7976.7	7833.0	7657.2	7449.6	7202.0	6917.1	6592.3	6216.9	5790.9	5332.9
7.5°	8096.6	7987.4	7856.9	7689.2	7484.2	7244.6	6962.3	6642.9	6270.1	5846.8	5386.2
5°	8093.9	7990.1	7872.9	7710.5	7505.5	7268.5	6991.6	6677.5	6307.4	5884.0	5426.1
2.5°	8085.9	7992.7	7883.6	7726.5	7529.5	7295.2	7020.9	6717.4	6347.3	5916.0	5458.1
0°	8107.2	8027.3	7888.9	7721.1	7534.8	7295.2	7018.3	6722.7	6352.6	5913.3	5455.4



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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°	66.6	63.9	63.9	61.2	58.6	55.9	50.6	47.9	42.6	34.6	26.6
85°	143.8	135.8	127.8	122.5	117.1	111.8	103.8	95.8	85.2	69.2	53.2
82.5°	252.9	237.0	221.0	202.3	186.4	170.4	157.1	143.8	127.8	103.8	79.9
80°	362.1	338.1	314.2	287.5	263.6	237.0	213.0	191.7	170.4	138.4	106.5
77.5°	471.3	439.3	404.7	372.7	338.1	303.5	268.9	239.6	207.7	170.4	133.1
75°	572.4	535.2	503.2	457.9	415.3	370.1	324.8	284.9	244.9	199.7	159.7
72.5°	673.6	625.7	580.4	537.8	489.9	434.0	383.4	332.8	282.2	229.0	181.0
70°	774.8	716.2	660.3	609.7	556.5	500.5	439.3	380.7	319.5	255.6	199.7
67.5°	878.6	812.1	748.2	684.3	623.0	559.1	495.2	428.7	356.8	282.2	221.0
65°	993.1	910.6	833.4	761.5	689.6	620.4	548.5	476.6	396.7	311.5	239.6
62.5°	1107.6	1017.1	926.5	836.0	756.1	678.9	601.7	521.8	434.0	343.5	258.3
60°	1230.1	1126.2	1022.4	921.2	822.7	737.5	652.3	567.1	473.9	372.7	276.9
57.5°	1365.8	1240.7	1123.6	1009.1	897.3	796.1	702.9	612.4	508.5	402.0	298.2
55°	1520.3	1365.8	1227.4	1099.6	977.1	854.7	753.5	660.3	548.5	431.3	322.2
52.5°	1682.7	1504.3	1336.6	1192.8	1062.3	923.9	801.4	697.6	588.4	460.6	343.5
50°	1871.7	1645.4	1459.0	1283.3	1136.9	993.1	852.0	740.2	628.3	495.2	364.8
47.5°	2066.1	1815.8	1581.5	1389.8	1216.7	1059.7	910.6	777.4	665.6	527.2	386.1
45°	2292.4	1978.2	1720.0	1493.6	1294.0	1128.9	969.1	817.4	697.6	559.1	407.4
42.5°	2510.7	2169.9	1863.7	1608.1	1381.8	1195.4	1022.4	860.0	729.5	591.1	426.0
40°	2769.0	2361.6	2002.2	1717.3	1469.7	1259.3	1075.6	905.2	758.8	620.4	444.6
37.5°	3016.6	2556.0	2169.9	1837.1	1554.9	1323.2	1128.9	947.8	785.4	649.6	468.6
35°	3261.5	2771.6	2329.7	1948.9	1642.7	1395.1	1182.1	987.8	812.1	673.6	489.9
32.5°	3495.8	2974.0	2492.1	2074.1	1738.6	1461.7	1230.1	1025.0	838.7	694.9	511.2
30°	3714.1	3165.7	2651.8	2201.9	1826.5	1522.9	1275.3	1062.3	870.6	713.5	532.5
27.5°	3913.8	3352.0	2811.6	2321.7	1909.0	1578.8	1323.2	1096.9	897.3	732.2	551.1
25°	4094.9	3519.8	2958.0	2430.8	1983.5	1640.1	1368.5	1131.5	921.2	748.2	567.1
22.5°	4265.3	3674.2	3091.1	2540.0	2074.1	1701.3	1411.1	1163.5	945.2	764.1	583.1
20°	4414.4	3815.3	3218.9	2649.2	2153.9	1757.2	1448.4	1192.8	966.5	774.8	599.1
17.5°	4534.2	3940.4	3333.4	2745.0	2223.2	1805.2	1480.3	1219.4	985.1	788.1	609.7
15°	4640.7	4046.9	3429.3	2827.5	2284.4	1845.1	1509.6	1240.7	1001.1	796.1	623.0
12.5°	4731.2	4137.5	3511.8	2899.4	2337.6	1879.7	1533.6	1256.7	1014.4	804.1	631.0
10°	4805.7	4209.4	3581.0	2955.3	2380.2	1906.3	1552.2	1272.7	1025.0	812.1	639.0
7.5°	4861.7	4262.6	3631.6	3003.3	2414.9	1925.0	1568.2	1283.3	1035.7	817.4	652.3
5°	4904.3	4307.9	3671.5	3035.2	2441.5	1951.6	1586.8	1296.6	1046.3	822.7	652.3
2.5°	4936.2	4345.1	3703.5	3061.8	2462.8	1946.3	1586.8	1294.0	1046.3	822.7	649.6
0°	4930.9	4347.8	3700.8	3061.8	2462.8	1940.9	1586.8	1291.3	1046.3	822.7	649.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.6	13.3	5.3	0.0
85°	39.9	26.6	13.3	0.0
82.5°	58.6	37.3	18.6	0.0
80°	77.2	50.6	24.0	0.0
77.5°	98.5	63.9	31.9	0.0
75°	117.1	74.5	37.3	0.0
72.5°	135.8	87.9	42.6	0.0
70°	151.8	98.5	47.9	0.0
67.5°	167.7	111.8	55.9	0.0
65°	181.0	122.5	61.2	0.0
62.5°	191.7	135.8	66.6	0.0
60°	205.0	146.4	71.9	0.0
57.5°	215.7	154.4	77.2	0.0
55°	226.3	159.7	82.5	0.0
52.5°	237.0	167.7	87.9	0.0
50°	247.6	175.7	93.2	0.0
47.5°	258.3	181.0	95.8	0.0
45°	274.2	189.0	101.2	0.0
42.5°	287.5	194.4	106.5	0.0
40°	300.9	199.7	109.2	0.0
37.5°	314.2	205.0	114.5	0.0
35°	327.5	210.3	117.1	0.0
32.5°	338.1	215.7	119.8	0.0
30°	348.8	221.0	122.5	0.0
27.5°	359.4	223.6	125.1	0.0
25°	367.4	229.0	127.8	0.0
22.5°	375.4	231.6	130.5	0.0
20°	380.7	234.3	133.1	0.0
17.5°	388.7	237.0	135.8	0.0
15°	391.4	239.6	141.1	0.0
12.5°	396.7	242.3	141.1	0.0
10°	399.4	244.9	141.1	0.0
7.5°	404.7	244.9	141.1	0.0
5°	402.0	244.9	141.1	0.0
2.5°	402.0	244.9	141.1	0.0
0°	399.4	244.9	141.1	0.0

(END OF REPORT)