

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: P628177

Luminaire Tested: **IFLD-L-SA8C-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628177
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	38407.7 lumens	Max Intensity:	12519.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	91.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

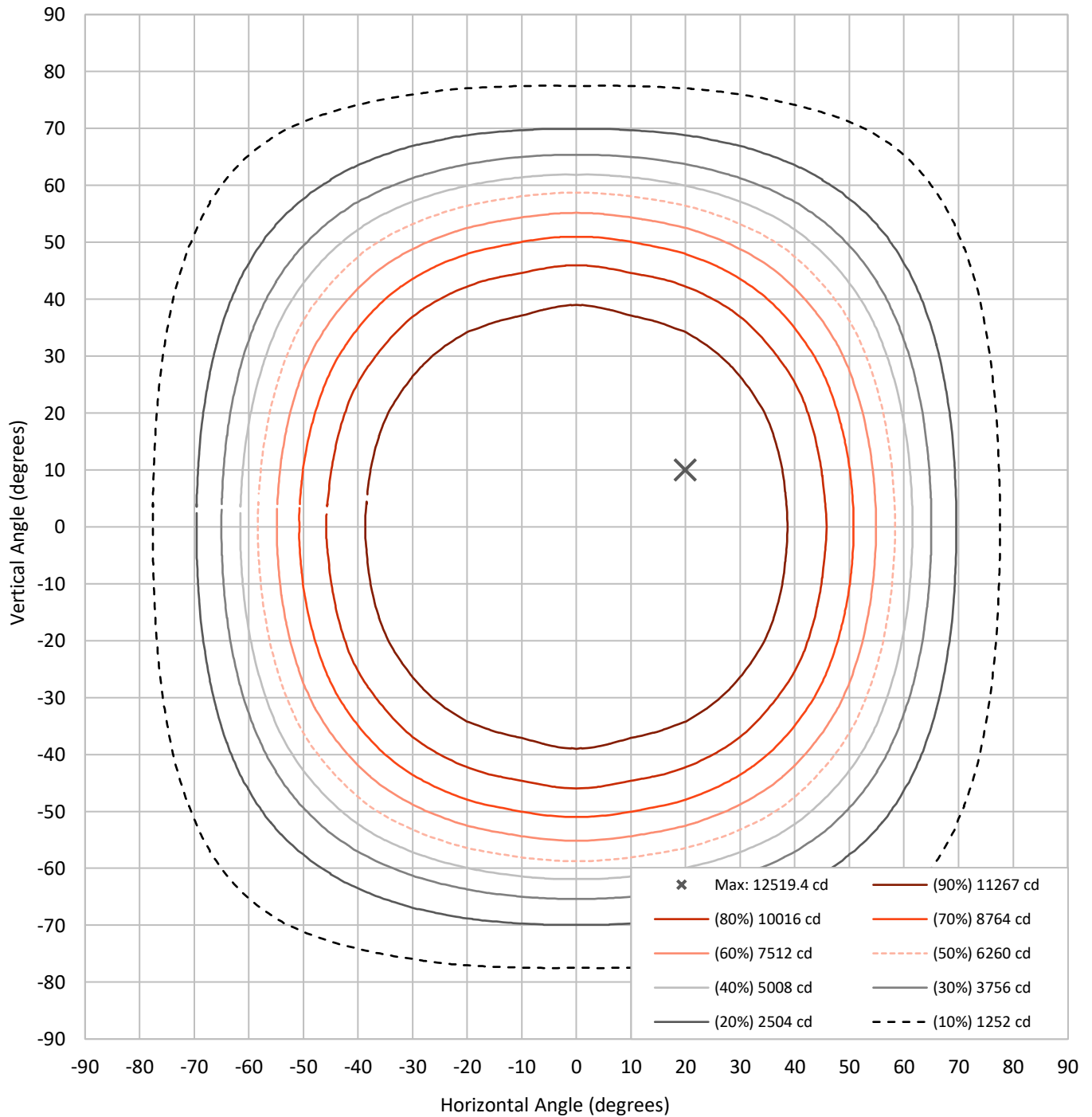
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	23567.8 lumens	Field Lumens:	28253.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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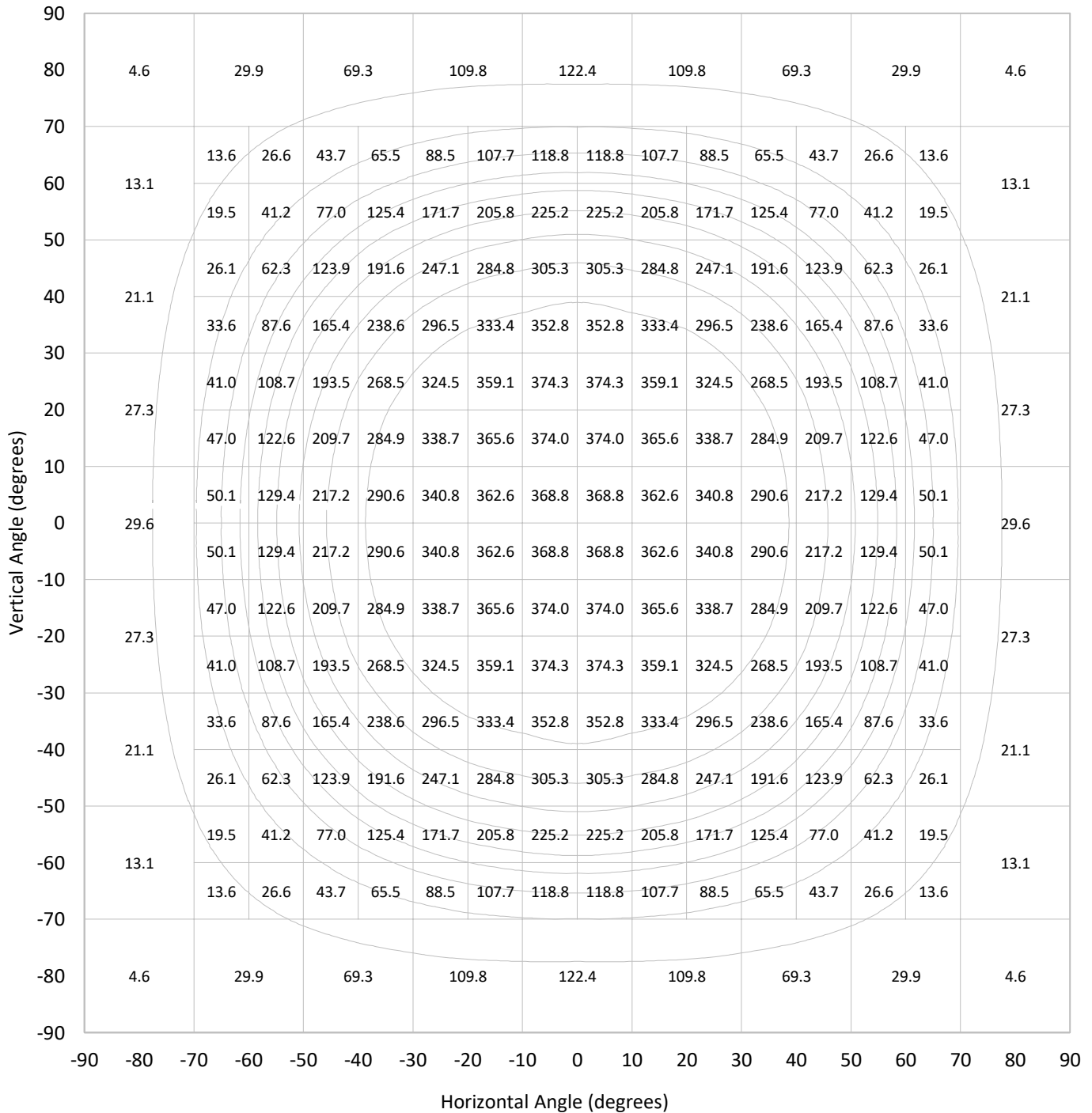
Iso-Candela Plot





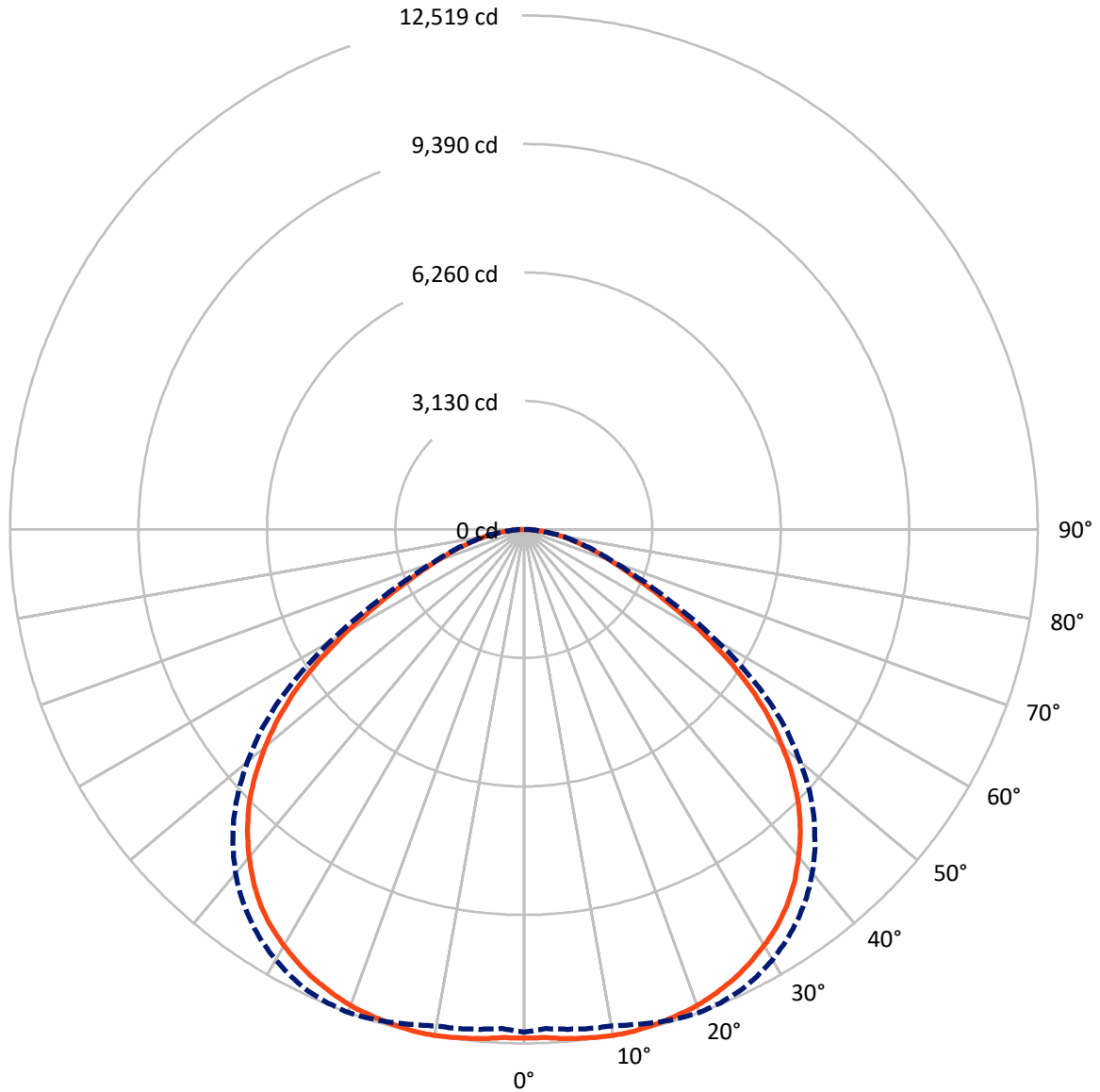
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Lumen Table



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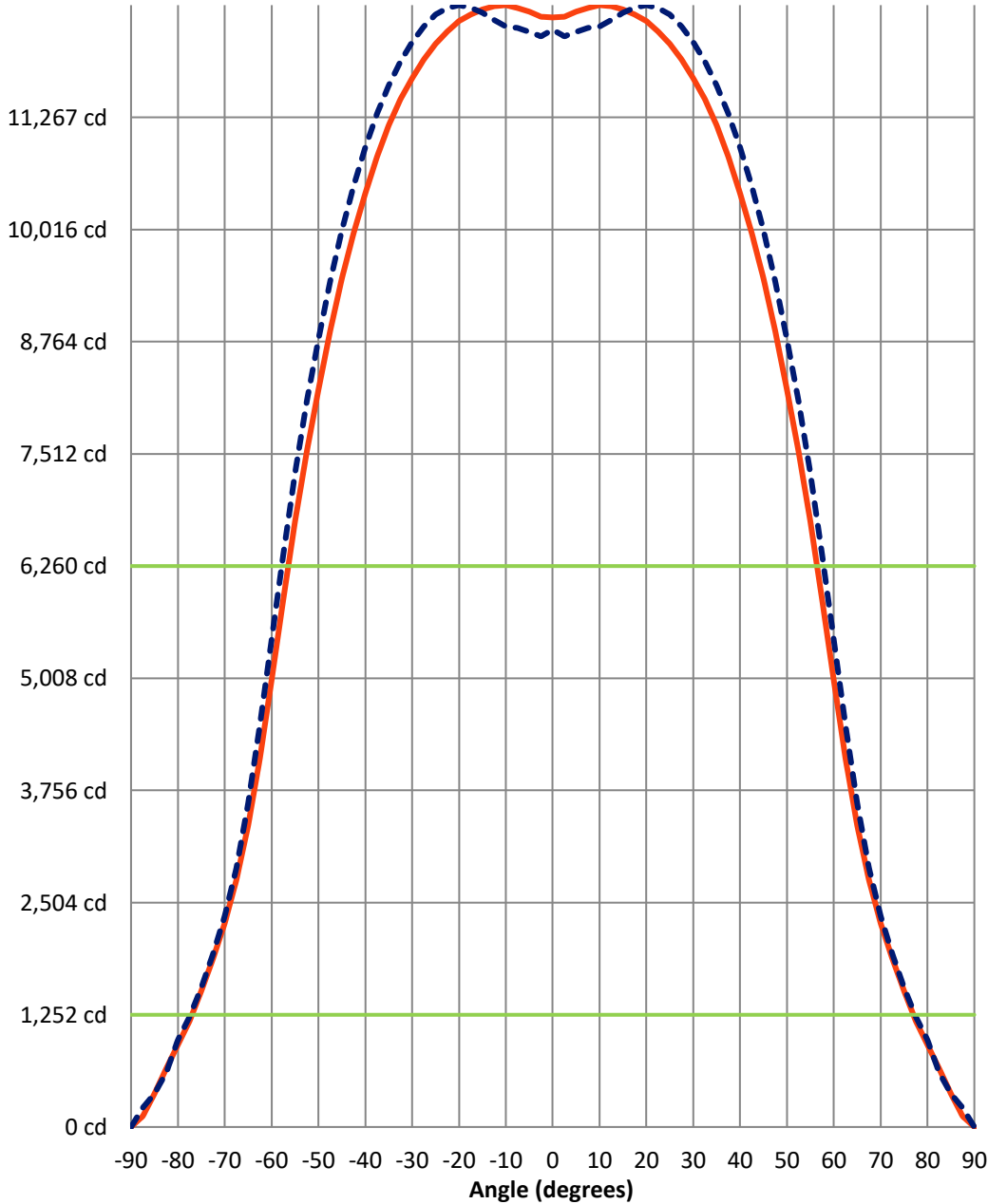
Luminous Intensity Polar Plot



— 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: 23567.8
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 28253.7
Efficiency: 73.6%

Spill:
Lumens: 10154
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°	101.0	109.1	113.2	117.2	121.2	125.3	129.3	125.3	121.2	121.2	117.2
85°	270.8	278.8	282.9	311.2	339.5	355.6	375.8	371.8	371.8	367.7	363.7
82.5°	541.5	565.8	586.0	614.2	630.4	654.7	670.8	658.7	650.6	634.5	622.3
80°	961.8	969.9	973.9	977.9	957.7	953.7	945.6	933.5	917.3	897.1	876.9
77.5°	1224.5	1232.5	1240.6	1232.5	1228.5	1224.5	1212.3	1200.2	1184.0	1167.9	1143.6
75°	1620.5	1620.5	1620.5	1608.4	1600.3	1588.2	1568.0	1547.7	1519.5	1487.1	1450.8
72.5°	2040.8	2036.7	2032.7	2008.4	1988.2	1964.0	1935.7	1911.4	1879.1	1842.7	1794.3
70°	2481.2	2489.3	2493.4	2461.0	2436.8	2404.5	2368.1	2323.6	2275.1	2222.6	2153.9
67.5°	3087.4	3079.3	3071.2	3026.8	2994.5	2950.0	2897.5	2832.8	2760.1	2679.3	2582.3
65°	3839.1	3851.2	3826.9	3782.5	3721.9	3649.1	3568.3	3475.4	3366.2	3245.0	3107.6
62.5°	4748.3	4768.5	4740.2	4683.7	4606.9	4509.9	4396.7	4263.4	4113.9	3944.1	3774.4
60°	5782.8	5778.8	5726.3	5649.5	5548.4	5427.2	5301.9	5156.5	4986.7	4788.7	4582.6
57.5°	6732.5	6724.4	6659.8	6583.0	6481.9	6352.6	6219.3	6065.7	5887.9	5677.8	5439.3
55°	7585.2	7577.1	7512.4	7431.6	7326.5	7197.2	7076.0	6930.5	6756.7	6534.5	6279.9
52.5°	8340.9	8344.9	8288.3	8199.4	8086.3	7961.0	7843.8	7698.3	7532.6	7310.4	7063.9
50°	9035.9	9031.9	8971.3	8890.5	8785.4	8664.1	8547.0	8401.5	8227.7	8013.5	7775.1
47.5°	9682.5	9674.4	9605.7	9516.8	9407.7	9302.6	9193.5	9064.2	8882.4	8668.2	8429.8
45°	10224.0	10207.9	10139.2	10054.3	9949.2	9856.3	9759.3	9662.3	9468.3	9270.3	9044.0
42.5°	10688.7	10684.7	10616.0	10531.1	10426.1	10345.3	10256.3	10135.1	9973.5	9791.6	9569.4
40°	11133.3	11100.9	11032.2	10951.4	10854.4	10785.7	10696.8	10575.6	10418.0	10240.2	10026.0
37.5°	11464.6	11468.7	11395.9	11307.0	11222.2	11157.5	11076.7	10963.5	10826.1	10652.4	10438.2
35°	11779.8	11759.6	11699.0	11622.2	11545.5	11472.7	11387.9	11290.9	11177.7	11016.1	10814.0
32.5°	11985.9	12014.2	11941.5	11860.7	11816.2	11759.6	11670.7	11569.7	11468.7	11307.0	11125.2
30°	12212.2	12188.0	12131.4	12062.7	12030.4	11994.0	11917.2	11820.3	11703.1	11557.6	11387.9
27.5°	12369.8	12357.7	12289.0	12224.4	12208.2	12175.9	12115.3	12030.4	11913.2	11771.8	11614.2
25°	12438.5	12446.6	12382.0	12345.6	12345.6	12325.4	12276.9	12204.2	12087.0	11957.7	11804.1
22.5°	12470.9	12462.8	12418.3	12410.3	12430.5	12414.3	12394.1	12329.4	12224.4	12119.3	11990.0
20°	12491.1	12434.5	12394.1	12426.4	12450.7	12446.6	12430.5	12390.1	12341.6	12252.7	12139.5
17.5°	12446.6	12410.3	12361.8	12410.3	12462.8	12466.8	12450.7	12426.4	12414.3	12357.7	12256.7
15°	12337.5	12309.2	12317.3	12365.8	12426.4	12446.6	12458.8	12487.0	12470.9	12426.4	12337.5
12.5°	12264.8	12228.4	12264.8	12313.3	12345.6	12357.7	12454.7	12507.2	12507.2	12466.8	12410.3
10°	12244.6	12171.8	12220.3	12264.8	12280.9	12353.7	12434.5	12491.1	12519.4	12487.0	12414.3
7.5°	12204.2	12155.7	12175.9	12196.1	12289.0	12341.6	12386.0	12446.6	12487.0	12483.0	12418.3
5°	12184.0	12123.3	12131.4	12216.3	12280.9	12317.3	12333.5	12386.0	12446.6	12458.8	12410.3
2.5°	12131.4	12103.1	12163.8	12171.8	12220.3	12248.6	12264.8	12313.3	12390.1	12418.3	12398.1
0°	12103.1	12062.7	12022.3	12054.6	12135.5	12196.1	12220.3	12293.1	12382.0	12410.3	12365.8



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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°	113.2	109.1	105.1	101.0	105.1	105.1	105.1	101.0	105.1	101.0	101.0
85°	351.6	335.4	323.3	307.1	291.0	278.8	262.7	246.5	242.5	238.4	230.3
82.5°	606.2	586.0	565.8	541.5	517.3	489.0	460.7	428.4	420.3	412.2	400.1
80°	852.7	824.4	796.1	767.8	743.6	715.3	682.9	646.6	622.3	602.1	577.9
77.5°	1111.3	1070.9	1030.5	982.0	953.7	925.4	893.1	856.7	820.3	788.0	751.6
75°	1406.3	1361.9	1321.4	1273.0	1220.4	1167.9	1115.3	1066.9	1014.3	965.8	917.3
72.5°	1733.6	1669.0	1604.3	1543.7	1479.0	1414.4	1345.7	1281.0	1216.4	1151.7	1083.0
70°	2077.1	1996.3	1915.5	1834.7	1749.8	1664.9	1584.1	1503.3	1422.5	1337.6	1260.8
67.5°	2481.2	2388.3	2283.2	2170.1	2044.8	1935.7	1830.6	1733.6	1636.7	1539.7	1442.7
65°	2986.4	2857.1	2715.6	2562.1	2416.6	2271.1	2117.5	1972.1	1858.9	1745.8	1636.7
62.5°	3608.7	3426.9	3228.8	3030.8	2853.0	2663.1	2485.3	2295.4	2117.5	1955.9	1822.5
60°	4352.3	4105.8	3863.3	3608.7	3362.2	3103.6	2877.3	2642.9	2420.6	2222.6	2028.6
57.5°	5172.6	4885.7	4594.7	4283.6	3948.2	3645.1	3338.0	3030.8	2768.2	2505.5	2287.3
55°	6005.1	5702.0	5374.7	5023.1	4655.4	4267.4	3851.2	3507.7	3148.0	2840.9	2558.0
52.5°	6797.2	6481.9	6142.5	5819.2	5378.7	4934.2	4477.6	4024.9	3604.7	3212.7	2869.2
50°	7504.3	7197.2	6869.9	6494.1	6085.9	5613.1	5103.9	4594.7	4097.7	3637.0	3208.6
47.5°	8150.9	7851.9	7524.6	7148.7	6776.9	6251.6	5738.4	5176.7	4623.0	4093.6	3592.6
45°	8757.1	8454.0	8114.6	7754.9	7326.5	6857.8	6328.4	5762.6	5168.6	4574.5	3996.7
42.5°	9306.7	9003.6	8660.1	8288.3	7864.0	7399.3	6886.1	6316.3	5718.2	5071.6	4437.1
40°	9787.6	9492.6	9161.2	8773.3	8377.2	7888.3	7383.1	6841.6	6223.3	5572.7	4873.6
37.5°	10207.9	9933.1	9605.7	9221.8	8801.5	8365.1	7843.8	7302.3	6744.6	6037.4	5322.1
35°	10579.6	10325.0	9989.6	9625.9	9213.7	8753.1	8264.1	7734.7	7132.6	6469.8	5774.8
32.5°	10902.9	10644.3	10337.2	9973.5	9573.4	9141.0	8639.9	8106.5	7536.7	6861.8	6106.1
30°	11177.7	10927.2	10636.2	10292.7	9908.8	9480.5	8991.5	8454.0	7872.1	7201.3	6453.7
27.5°	11416.1	11177.7	10894.8	10575.6	10207.9	9795.7	9302.6	8761.1	8167.1	7520.5	6772.9
25°	11622.2	11391.9	11129.2	10826.1	10462.4	10058.3	9593.6	9027.8	8433.8	7783.2	7043.7
22.5°	11808.1	11585.9	11323.2	11028.2	10696.8	10292.7	9823.9	9262.2	8660.1	8017.6	7290.2
20°	11973.8	11767.7	11509.1	11206.0	10874.6	10466.5	10001.8	9468.3	8862.2	8231.7	7512.4
17.5°	12107.2	11925.3	11666.7	11347.4	11016.1	10620.0	10167.4	9678.5	9035.9	8413.6	7698.3
15°	12200.1	12022.3	11787.9	11464.6	11141.4	10749.4	10296.8	9791.6	9193.5	8559.1	7851.9
12.5°	12264.8	12074.8	11856.6	11557.6	11234.3	10846.3	10405.9	9908.8	9326.9	8688.4	7985.2
10°	12280.9	12107.2	11889.0	11622.2	11307.0	10931.2	10498.8	10005.8	9436.0	8789.4	8094.4
7.5°	12289.0	12123.3	11925.3	11670.7	11359.6	10995.9	10567.5	10082.6	9516.8	8874.3	8175.2
5°	12285.0	12127.4	11949.6	11703.1	11391.9	11032.2	10612.0	10135.1	9573.4	8930.9	8235.8
2.5°	12272.9	12131.4	11965.7	11727.3	11428.3	11072.7	10656.4	10195.7	9634.0	8979.4	8284.3
0°	12305.2	12184.0	11973.8	11719.2	11436.4	11072.7	10652.4	10203.8	9642.1	8975.3	8280.2



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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°	101.0	97.0	97.0	92.9	88.9	84.9	76.8	72.7	64.7	52.5	40.4
85°	218.2	206.1	194.0	185.9	177.8	169.7	157.6	145.5	129.3	105.1	80.8
82.5°	383.9	359.7	335.4	307.1	282.9	258.6	238.4	218.2	194.0	157.6	121.2
80°	549.6	513.2	476.9	436.4	400.1	359.7	323.3	291.0	258.6	210.1	161.6
77.5°	715.3	666.8	614.2	565.8	513.2	460.7	408.2	363.7	315.2	258.6	202.1
75°	868.8	812.3	763.8	695.1	630.4	561.7	493.0	432.4	371.8	303.1	242.5
72.5°	1022.4	949.7	881.0	816.3	743.6	658.7	581.9	505.1	428.4	347.5	274.8
70°	1176.0	1087.1	1002.2	925.4	844.6	759.7	666.8	577.9	484.9	387.9	303.1
67.5°	1333.6	1232.5	1135.6	1038.6	945.6	848.6	751.6	650.6	541.5	428.4	335.4
65°	1507.3	1382.1	1264.9	1155.8	1046.6	941.6	832.5	723.4	602.1	472.8	363.7
62.5°	1681.1	1543.7	1406.3	1268.9	1147.7	1030.5	913.3	792.1	658.7	521.3	392.0
60°	1867.0	1709.4	1551.8	1398.2	1248.7	1119.4	990.1	860.8	719.3	565.8	420.3
57.5°	2073.1	1883.2	1705.3	1531.6	1361.9	1208.3	1066.9	929.5	771.9	610.2	452.6
55°	2307.5	2073.1	1863.0	1669.0	1483.1	1297.2	1143.6	1002.2	832.5	654.7	489.0
52.5°	2554.0	2283.2	2028.6	1810.4	1612.4	1402.3	1216.4	1058.8	893.1	699.1	521.3
50°	2840.9	2497.4	2214.5	1947.8	1725.6	1507.3	1293.2	1123.4	953.7	751.6	553.6
47.5°	3135.9	2756.0	2400.4	2109.5	1846.8	1608.4	1382.1	1180.0	1010.3	800.1	586.0
45°	3479.4	3002.5	2610.6	2267.1	1964.0	1713.4	1471.0	1240.6	1058.8	848.6	618.3
42.5°	3810.8	3293.5	2828.8	2440.8	2097.3	1814.5	1551.8	1305.3	1107.3	897.1	646.6
40°	4202.8	3584.5	3038.9	2606.5	2230.7	1911.4	1632.6	1374.0	1151.7	941.6	674.9
37.5°	4578.6	3879.5	3293.5	2788.4	2360.0	2008.4	1713.4	1438.6	1192.1	986.0	711.2
35°	4950.4	4206.8	3536.0	2958.1	2493.4	2117.5	1794.3	1499.3	1232.5	1022.4	743.6
32.5°	5306.0	4513.9	3782.5	3148.0	2638.8	2218.6	1867.0	1555.8	1273.0	1054.7	775.9
30°	5637.4	4804.9	4024.9	3342.0	2772.2	2311.5	1935.7	1612.4	1321.4	1083.0	808.2
27.5°	5940.4	5087.8	4267.4	3523.9	2897.5	2396.4	2008.4	1664.9	1361.9	1111.3	836.5
25°	6215.2	5342.4	4489.7	3689.5	3010.6	2489.3	2077.1	1717.5	1398.2	1135.6	860.8
22.5°	6473.9	5576.7	4691.7	3855.2	3148.0	2582.3	2141.8	1766.0	1434.6	1159.8	885.0
20°	6700.2	5790.9	4885.7	4020.9	3269.3	2667.1	2198.4	1810.4	1466.9	1176.0	909.3
17.5°	6882.0	5980.8	5059.5	4166.4	3374.3	2739.9	2246.9	1850.8	1495.2	1196.2	925.4
15°	7043.7	6142.5	5205.0	4291.7	3467.3	2800.5	2291.3	1883.2	1519.5	1208.3	945.6
12.5°	7181.1	6279.9	5330.2	4400.8	3548.1	2853.0	2327.7	1907.4	1539.7	1220.4	957.7
10°	7294.2	6389.0	5435.3	4485.6	3612.8	2893.4	2356.0	1931.7	1555.8	1232.5	969.9
7.5°	7379.1	6469.8	5512.1	4558.4	3665.3	2921.7	2380.2	1947.8	1572.0	1240.6	990.1
5°	7443.7	6538.5	5572.7	4606.9	3705.7	2962.1	2408.5	1968.0	1588.2	1248.7	990.1
2.5°	7492.2	6595.1	5621.2	4647.3	3738.0	2954.1	2408.5	1964.0	1588.2	1248.7	986.0
0°	7484.1	6599.1	5617.1	4647.3	3738.0	2946.0	2408.5	1959.9	1588.2	1248.7	986.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	28.3	20.2	8.1	0.0
85°	60.6	40.4	20.2	0.0
82.5°	88.9	56.6	28.3	0.0
80°	117.2	76.8	36.4	0.0
77.5°	149.5	97.0	48.5	0.0
75°	177.8	113.2	56.6	0.0
72.5°	206.1	133.4	64.7	0.0
70°	230.3	149.5	72.7	0.0
67.5°	254.6	169.7	84.9	0.0
65°	274.8	185.9	92.9	0.0
62.5°	291.0	206.1	101.0	0.0
60°	311.2	222.3	109.1	0.0
57.5°	327.3	234.4	117.2	0.0
55°	343.5	242.5	125.3	0.0
52.5°	359.7	254.6	133.4	0.0
50°	375.8	266.7	141.4	0.0
47.5°	392.0	274.8	145.5	0.0
45°	416.2	286.9	153.6	0.0
42.5°	436.4	295.0	161.6	0.0
40°	456.6	303.1	165.7	0.0
37.5°	476.9	311.2	173.8	0.0
35°	497.1	319.2	177.8	0.0
32.5°	513.2	327.3	181.9	0.0
30°	529.4	335.4	185.9	0.0
27.5°	545.6	339.5	189.9	0.0
25°	557.7	347.5	194.0	0.0
22.5°	569.8	351.6	198.0	0.0
20°	577.9	355.6	202.1	0.0
17.5°	590.0	359.7	206.1	0.0
15°	594.0	363.7	214.2	0.0
12.5°	602.1	367.7	214.2	0.0
10°	606.2	371.8	214.2	0.0
7.5°	614.2	371.8	214.2	0.0
5°	610.2	371.8	214.2	0.0
2.5°	610.2	371.8	214.2	0.0
0°	606.2	371.8	214.2	0.0

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