

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: P628173

Luminaire Tested: **IFLD-L-SA7D-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628173
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

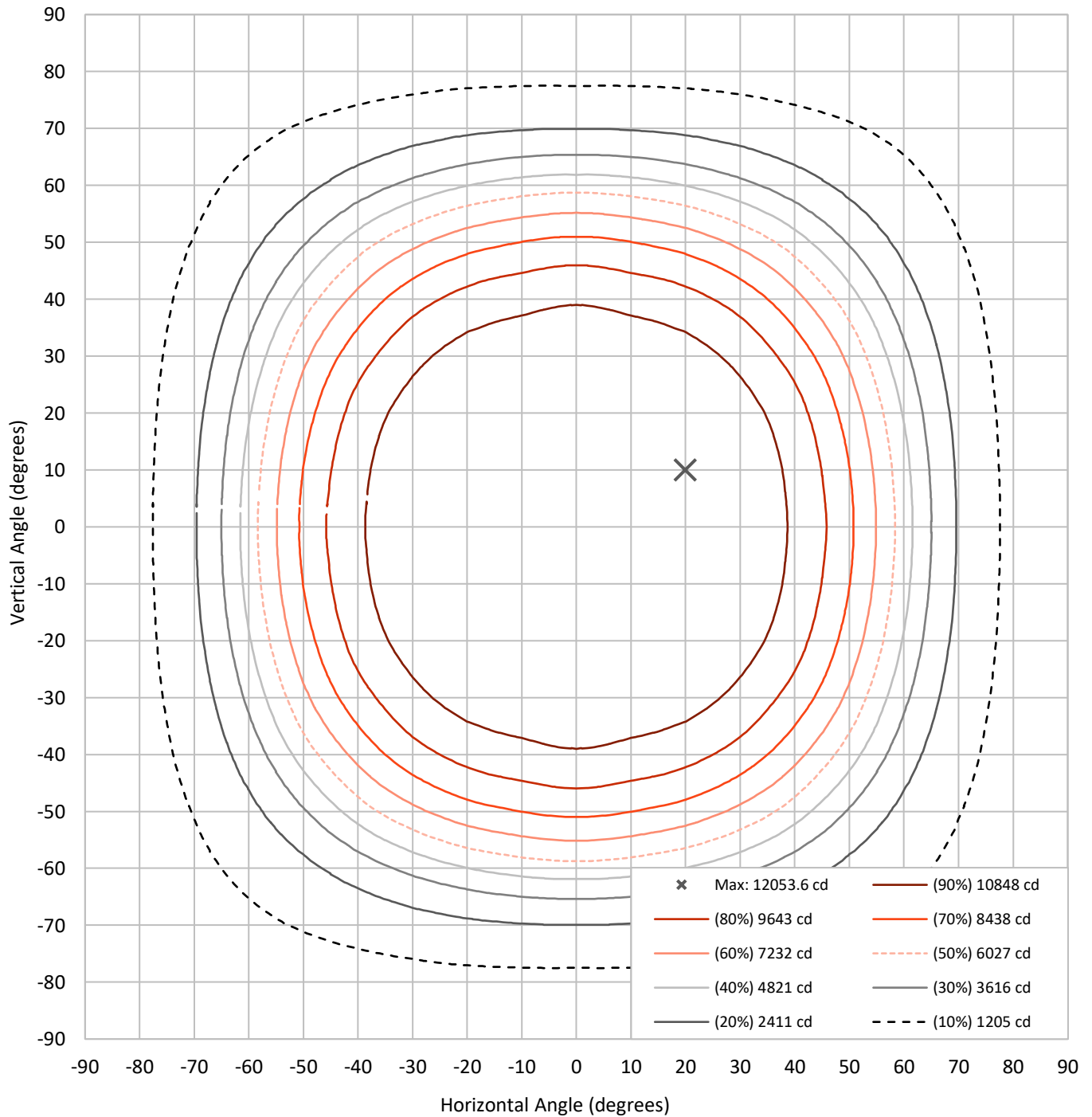
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36978.8 lumens	Max Intensity:	12053.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	87.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	22691 lumens	Field Lumens:	27202.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 422.6
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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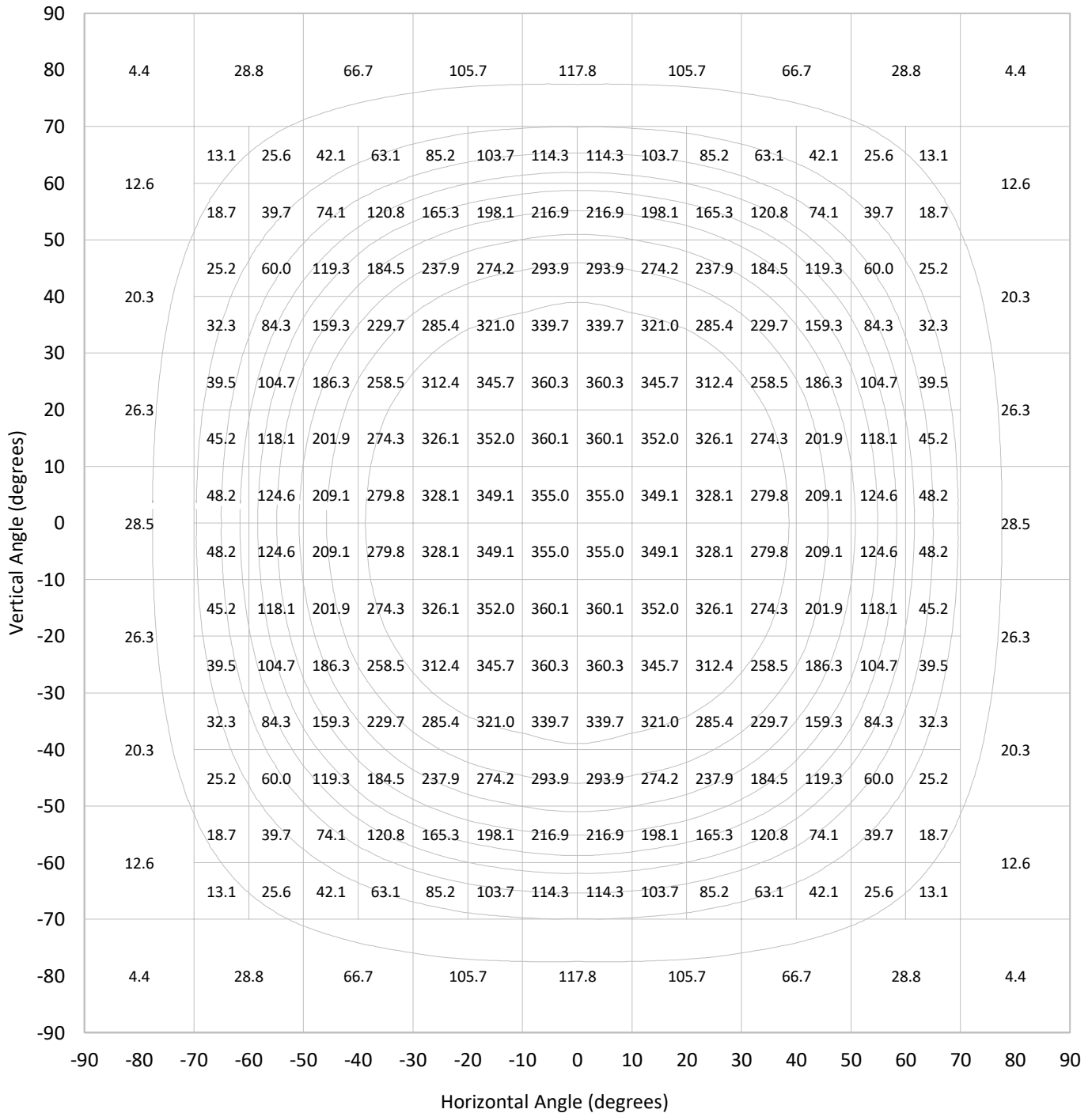
Iso-Candela Plot





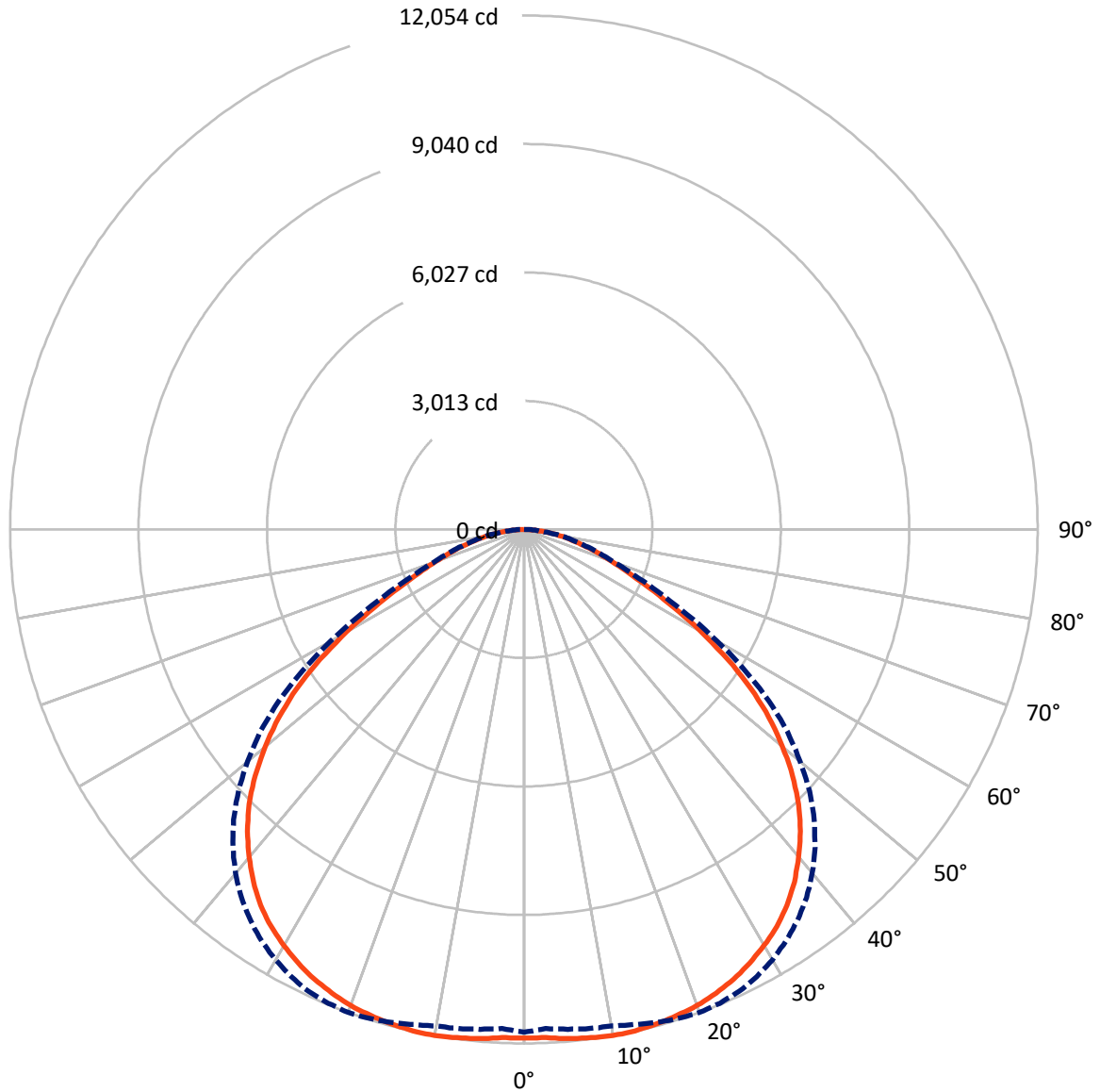
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Lumen Table



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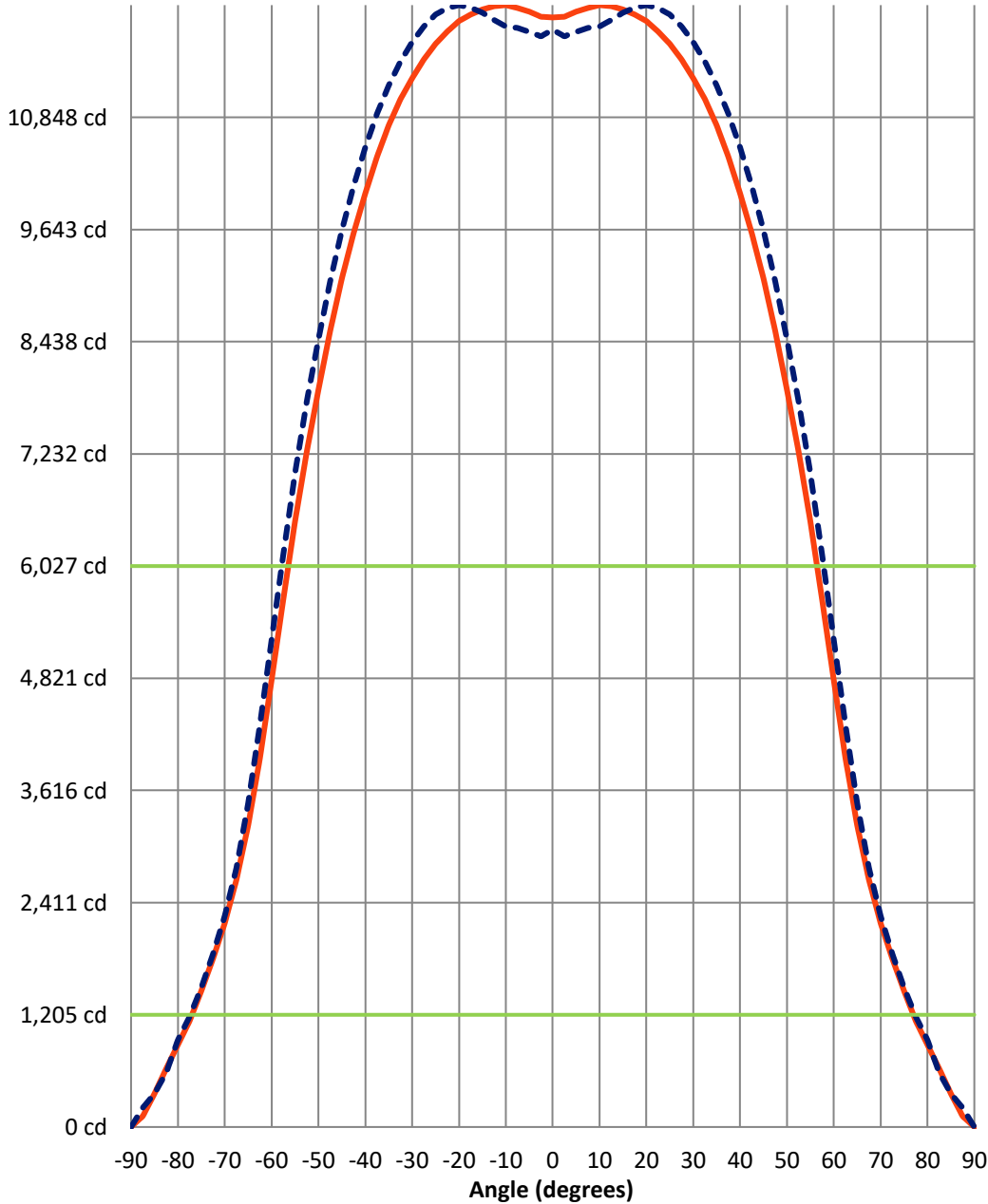
Luminous Intensity Polar Plot



— 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: 22691
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 27202.6
 Efficiency: 73.6%

Spill:
 Lumens: 9776.2
 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°	97.3	105.1	108.9	112.8	116.7	120.6	124.5	120.6	116.7	116.7	112.8
85°	260.7	268.5	272.4	299.6	326.8	342.4	361.8	358.0	358.0	354.1	350.2
82.5°	521.4	544.7	564.2	591.4	607.0	630.3	645.9	634.2	626.4	610.9	599.2
80°	926.0	933.8	937.7	941.6	922.1	918.2	910.4	898.8	883.2	863.8	844.3
77.5°	1178.9	1186.7	1194.5	1186.7	1182.8	1178.9	1167.2	1155.6	1140.0	1124.4	1101.1
75°	1560.2	1560.2	1560.2	1548.5	1540.7	1529.1	1509.6	1490.2	1462.9	1431.8	1396.8
72.5°	1964.8	1960.9	1957.1	1933.7	1914.3	1890.9	1863.7	1840.3	1809.2	1774.2	1727.5
70°	2388.9	2396.7	2400.6	2369.5	2346.1	2315.0	2280.0	2237.2	2190.5	2139.9	2073.8
67.5°	2972.5	2964.8	2957.0	2914.2	2883.1	2840.3	2789.7	2727.4	2657.4	2579.6	2486.2
65°	3696.2	3707.9	3684.6	3641.8	3583.4	3513.4	3435.5	3346.1	3241.0	3124.3	2992.0
62.5°	4571.7	4591.1	4563.9	4509.4	4435.5	4342.1	4233.2	4104.8	3960.8	3797.4	3634.0
60°	5567.7	5563.8	5513.2	5439.3	5342.0	5225.3	5104.7	4964.6	4801.2	4610.6	4412.1
57.5°	6482.0	6474.2	6412.0	6338.1	6240.8	6116.3	5987.9	5840.0	5668.8	5466.5	5237.0
55°	7303.0	7295.2	7232.9	7155.1	7054.0	6929.5	6812.7	6672.7	6505.4	6291.4	6046.3
52.5°	8030.5	8034.4	7980.0	7894.4	7785.4	7664.8	7552.0	7411.9	7252.4	7038.4	6801.1
50°	8699.8	8695.9	8637.5	8559.7	8458.5	8341.8	8229.0	8088.9	7921.6	7715.4	7485.8
47.5°	9322.3	9314.5	9248.4	9162.8	9057.7	8956.5	8851.5	8727.0	8551.9	8345.7	8116.1
45°	9843.6	9828.1	9761.9	9680.2	9579.1	9489.6	9396.2	9302.8	9116.1	8925.4	8707.5
42.5°	10291.1	10287.2	10221.0	10139.3	10038.2	9960.4	9874.8	9758.0	9602.4	9427.3	9213.3
40°	10719.1	10687.9	10621.8	10544.0	10450.6	10384.5	10298.9	10182.1	10030.4	9859.2	9653.0
37.5°	11038.1	11042.0	10972.0	10886.4	10804.7	10742.4	10664.6	10555.7	10423.4	10256.1	10049.9
35°	11341.6	11322.1	11263.8	11189.8	11115.9	11045.9	10964.2	10870.8	10761.9	10606.2	10411.7
32.5°	11540.0	11567.3	11497.2	11419.4	11376.6	11322.1	11236.5	11139.3	11042.0	10886.4	10711.3
30°	11757.9	11734.6	11680.1	11613.9	11582.8	11547.8	11473.9	11380.5	11267.7	11127.6	10964.2
27.5°	11909.6	11898.0	11831.8	11769.6	11754.0	11722.9	11664.5	11582.8	11470.0	11333.8	11182.1
25°	11975.8	11983.6	11921.3	11886.3	11886.3	11866.8	11820.2	11750.1	11637.3	11512.8	11364.9
22.5°	12006.9	11999.1	11956.3	11948.5	11968.0	11952.4	11933.0	11870.7	11769.6	11668.4	11543.9
20°	12026.4	11971.9	11933.0	11964.1	11987.5	11983.6	11968.0	11929.1	11882.4	11796.8	11687.9
17.5°	11983.6	11948.5	11901.9	11948.5	11999.1	12003.0	11987.5	11964.1	11952.4	11898.0	11800.7
15°	11878.5	11851.3	11859.1	11905.8	11964.1	11983.6	11995.2	12022.5	12006.9	11964.1	11878.5
12.5°	11808.5	11773.5	11808.5	11855.2	11886.3	11898.0	11991.3	12041.9	12041.9	12003.0	11948.5
10°	11789.0	11719.0	11765.7	11808.5	11824.0	11894.1	11971.9	12026.4	12053.6	12022.5	11952.4
7.5°	11750.1	11703.4	11722.9	11742.3	11831.8	11882.4	11925.2	11983.6	12022.5	12018.6	11956.3
5°	11730.7	11672.3	11680.1	11761.8	11824.0	11859.1	11874.6	11925.2	11983.6	11995.2	11948.5
2.5°	11680.1	11652.9	11711.2	11719.0	11765.7	11792.9	11808.5	11855.2	11929.1	11956.3	11936.9
0°	11652.9	11613.9	11575.0	11606.2	11684.0	11742.3	11765.7	11835.7	11921.3	11948.5	11905.8



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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°	108.9	105.1	101.2	97.3	101.2	101.2	101.2	97.3	101.2	97.3	97.3
85°	338.5	322.9	311.3	295.7	280.1	268.5	252.9	237.3	233.4	229.6	221.8
82.5°	583.6	564.2	544.7	521.4	498.0	470.8	443.5	412.4	404.6	396.9	385.2
80°	821.0	793.7	766.5	739.2	715.9	688.7	657.5	622.5	599.2	579.7	556.4
77.5°	1070.0	1031.1	992.1	945.5	918.2	891.0	859.9	824.8	789.8	758.7	723.7
75°	1354.0	1311.2	1272.3	1225.6	1175.0	1124.4	1073.9	1027.2	976.6	929.9	883.2
72.5°	1669.1	1606.9	1544.6	1486.3	1424.0	1361.8	1295.6	1233.4	1171.1	1108.9	1042.7
70°	1999.9	1922.0	1844.2	1766.4	1684.7	1603.0	1525.2	1447.4	1369.6	1287.8	1213.9
67.5°	2388.9	2299.4	2198.3	2089.3	1968.7	1863.7	1762.5	1669.1	1575.8	1482.4	1389.0
65°	2875.3	2750.8	2614.6	2466.7	2326.7	2186.6	2038.8	1898.7	1789.8	1680.8	1575.8
62.5°	3474.5	3299.4	3108.7	2918.1	2746.9	2564.0	2392.8	2210.0	2038.8	1883.1	1754.7
60°	4190.4	3953.0	3719.6	3474.5	3237.1	2988.1	2770.2	2544.6	2330.6	2139.9	1953.2
57.5°	4980.2	4703.9	4423.8	4124.2	3801.3	3509.5	3213.8	2918.1	2665.2	2412.3	2202.2
55°	5781.7	5489.9	5174.7	4836.2	4482.2	4108.7	3707.9	3377.2	3030.9	2735.2	2462.9
52.5°	6544.3	6240.8	5914.0	5602.7	5178.6	4750.6	4311.0	3875.2	3470.6	3093.2	2762.4
50°	7225.2	6929.5	6614.3	6252.5	5859.5	5404.3	4914.0	4423.8	3945.2	3501.7	3089.3
47.5°	7847.7	7559.8	7244.6	6882.8	6524.8	6019.0	5524.9	4984.1	4451.0	3941.3	3458.9
45°	8431.3	8139.5	7812.7	7466.4	7054.0	6602.6	6092.9	5548.2	4976.3	4404.3	3848.0
42.5°	8960.4	8668.6	8337.9	7980.0	7571.4	7124.0	6629.9	6081.3	5505.4	4882.9	4272.1
40°	9423.4	9139.4	8820.4	8446.9	8065.6	7594.8	7108.4	6587.1	5991.8	5365.4	4692.3
37.5°	9828.1	9563.5	9248.4	8878.7	8474.1	8053.9	7552.0	7030.6	6493.7	5812.8	5124.1
35°	10186.0	9940.9	9618.0	9267.8	8871.0	8427.4	7956.6	7446.9	6867.2	6229.1	5559.9
32.5°	10497.3	10248.3	9952.6	9602.4	9217.2	8800.9	8318.5	7804.9	7256.3	6606.5	5879.0
30°	10761.9	10520.6	10240.5	9909.8	9540.2	9127.7	8657.0	8139.5	7579.2	6933.3	6213.6
27.5°	10991.4	10761.9	10489.5	10182.1	9828.1	9431.2	8956.5	8435.2	7863.2	7240.7	6520.9
25°	11189.8	10968.1	10715.2	10423.4	10073.2	9684.1	9236.7	8692.0	8120.0	7493.6	6781.6
22.5°	11368.8	11154.8	10901.9	10617.9	10298.9	9909.8	9458.5	8917.6	8337.9	7719.3	7018.9
20°	11528.3	11329.9	11080.9	10789.1	10470.1	10077.1	9629.7	9116.1	8532.5	7925.5	7232.9
17.5°	11656.7	11481.7	11232.6	10925.3	10606.2	10224.9	9789.2	9318.4	8699.8	8100.6	7411.9
15°	11746.2	11575.0	11349.4	11038.1	10726.8	10349.4	9913.7	9427.3	8851.5	8240.6	7559.8
12.5°	11808.5	11625.6	11415.5	11127.6	10816.3	10442.8	10018.7	9540.2	8979.9	8365.2	7688.2
10°	11824.0	11656.7	11446.6	11189.8	10886.4	10524.5	10108.2	9633.5	9084.9	8462.4	7793.2
7.5°	11831.8	11672.3	11481.7	11236.5	10936.9	10586.8	10174.4	9707.5	9162.8	8544.1	7871.0
5°	11827.9	11676.2	11505.0	11267.7	10968.1	10621.8	10217.2	9758.0	9217.2	8598.6	7929.4
2.5°	11816.3	11680.1	11520.6	11291.0	11003.1	10660.7	10260.0	9816.4	9275.6	8645.3	7976.1
0°	11847.4	11730.7	11528.3	11283.2	11010.9	10660.7	10256.1	9824.2	9283.4	8641.4	7972.2



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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°	97.3	93.4	93.4	89.5	85.6	81.7	73.9	70.0	62.3	50.6	38.9
85°	210.1	198.4	186.8	179.0	171.2	163.4	151.7	140.1	124.5	101.2	77.8
82.5°	369.6	346.3	322.9	295.7	272.4	249.0	229.6	210.1	186.8	151.7	116.7
80°	529.1	494.1	459.1	420.2	385.2	346.3	311.3	280.1	249.0	202.3	155.6
77.5°	688.7	642.0	591.4	544.7	494.1	443.5	393.0	350.2	303.5	249.0	194.5
75°	836.5	782.0	735.4	669.2	607.0	540.8	474.7	416.3	358.0	291.8	233.4
72.5°	984.4	914.3	848.2	785.9	715.9	634.2	560.3	486.3	412.4	334.6	264.6
70°	1132.2	1046.6	964.9	891.0	813.2	731.5	642.0	556.4	466.9	373.5	291.8
67.5°	1284.0	1186.7	1093.3	999.9	910.4	817.1	723.7	626.4	521.4	412.4	322.9
65°	1451.3	1330.6	1217.8	1112.8	1007.7	906.5	801.5	696.4	579.7	455.2	350.2
62.5°	1618.6	1486.3	1354.0	1221.7	1105.0	992.1	879.3	762.6	634.2	501.9	377.4
60°	1797.5	1645.8	1494.1	1346.2	1202.2	1077.7	953.2	828.7	692.6	544.7	404.6
57.5°	1996.0	1813.1	1641.9	1474.6	1311.2	1163.3	1027.2	894.9	743.1	587.5	435.8
55°	2221.6	1996.0	1793.6	1606.9	1427.9	1248.9	1101.1	964.9	801.5	630.3	470.8
52.5°	2459.0	2198.3	1953.2	1743.1	1552.4	1350.1	1171.1	1019.4	859.9	673.1	501.9
50°	2735.2	2404.5	2132.1	1875.4	1661.4	1451.3	1245.0	1081.6	918.2	723.7	533.0
47.5°	3019.2	2653.5	2311.1	2031.0	1778.1	1548.5	1330.6	1136.1	972.7	770.4	564.2
45°	3350.0	2890.8	2513.4	2182.7	1890.9	1649.7	1416.2	1194.5	1019.4	817.1	595.3
42.5°	3669.0	3171.0	2723.5	2350.0	2019.3	1747.0	1494.1	1256.7	1066.1	863.8	622.5
40°	4046.4	3451.1	2925.9	2509.5	2147.7	1840.3	1571.9	1322.9	1108.9	906.5	649.8
37.5°	4408.2	3735.1	3171.0	2684.6	2272.2	1933.7	1649.7	1385.1	1147.8	949.3	684.8
35°	4766.2	4050.3	3404.4	2848.0	2400.6	2038.8	1727.5	1443.5	1186.7	984.4	715.9
32.5°	5108.6	4346.0	3641.8	3030.9	2540.7	2136.0	1797.5	1497.9	1225.6	1015.5	747.0
30°	5427.6	4626.1	3875.2	3217.7	2669.1	2225.5	1863.7	1552.4	1272.3	1042.7	778.2
27.5°	5719.4	4898.5	4108.7	3392.7	2789.7	2307.2	1933.7	1603.0	1311.2	1070.0	805.4
25°	5984.0	5143.6	4322.6	3552.3	2898.6	2396.7	1999.9	1653.6	1346.2	1093.3	828.7
22.5°	6233.0	5369.3	4517.2	3711.8	3030.9	2486.2	2062.1	1700.3	1381.2	1116.7	852.1
20°	6450.9	5575.5	4703.9	3871.3	3147.6	2567.9	2116.6	1743.1	1412.3	1132.2	875.4
17.5°	6626.0	5758.3	4871.2	4011.4	3248.8	2637.9	2163.3	1782.0	1439.6	1151.7	891.0
15°	6781.6	5914.0	5011.3	4132.0	3338.3	2696.3	2206.1	1813.1	1462.9	1163.3	910.4
12.5°	6913.9	6046.3	5131.9	4237.0	3416.1	2746.9	2241.1	1836.4	1482.4	1175.0	922.1
10°	7022.8	6151.3	5233.1	4318.8	3478.3	2785.8	2268.3	1859.8	1497.9	1186.7	933.8
7.5°	7104.5	6229.1	5307.0	4388.8	3528.9	2813.0	2291.7	1875.4	1513.5	1194.5	953.2
5°	7166.8	6295.3	5365.4	4435.5	3567.8	2851.9	2318.9	1894.8	1529.1	1202.2	953.2
2.5°	7213.5	6349.7	5412.1	4474.4	3599.0	2844.2	2318.9	1890.9	1529.1	1202.2	949.3
0°	7205.7	6353.6	5408.2	4474.4	3599.0	2836.4	2318.9	1887.0	1529.1	1202.2	949.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.2	19.5	7.8	0.0
85°	58.4	38.9	19.5	0.0
82.5°	85.6	54.5	27.2	0.0
80°	112.8	73.9	35.0	0.0
77.5°	144.0	93.4	46.7	0.0
75°	171.2	108.9	54.5	0.0
72.5°	198.4	128.4	62.3	0.0
70°	221.8	144.0	70.0	0.0
67.5°	245.1	163.4	81.7	0.0
65°	264.6	179.0	89.5	0.0
62.5°	280.1	198.4	97.3	0.0
60°	299.6	214.0	105.1	0.0
57.5°	315.2	225.7	112.8	0.0
55°	330.7	233.4	120.6	0.0
52.5°	346.3	245.1	128.4	0.0
50°	361.8	256.8	136.2	0.0
47.5°	377.4	264.6	140.1	0.0
45°	400.7	276.2	147.8	0.0
42.5°	420.2	284.0	155.6	0.0
40°	439.7	291.8	159.5	0.0
37.5°	459.1	299.6	167.3	0.0
35°	478.6	307.4	171.2	0.0
32.5°	494.1	315.2	175.1	0.0
30°	509.7	322.9	179.0	0.0
27.5°	525.3	326.8	182.9	0.0
25°	536.9	334.6	186.8	0.0
22.5°	548.6	338.5	190.6	0.0
20°	556.4	342.4	194.5	0.0
17.5°	568.1	346.3	198.4	0.0
15°	571.9	350.2	206.2	0.0
12.5°	579.7	354.1	206.2	0.0
10°	583.6	358.0	206.2	0.0
7.5°	591.4	358.0	206.2	0.0
5°	587.5	358.0	206.2	0.0
2.5°	587.5	358.0	206.2	0.0
0°	583.6	358.0	206.2	0.0

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