

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: P628463

Luminaire Tested: **IFLD-L-SA7D-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628463
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	32129.3 lumens	Max Intensity:	10472.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	76.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

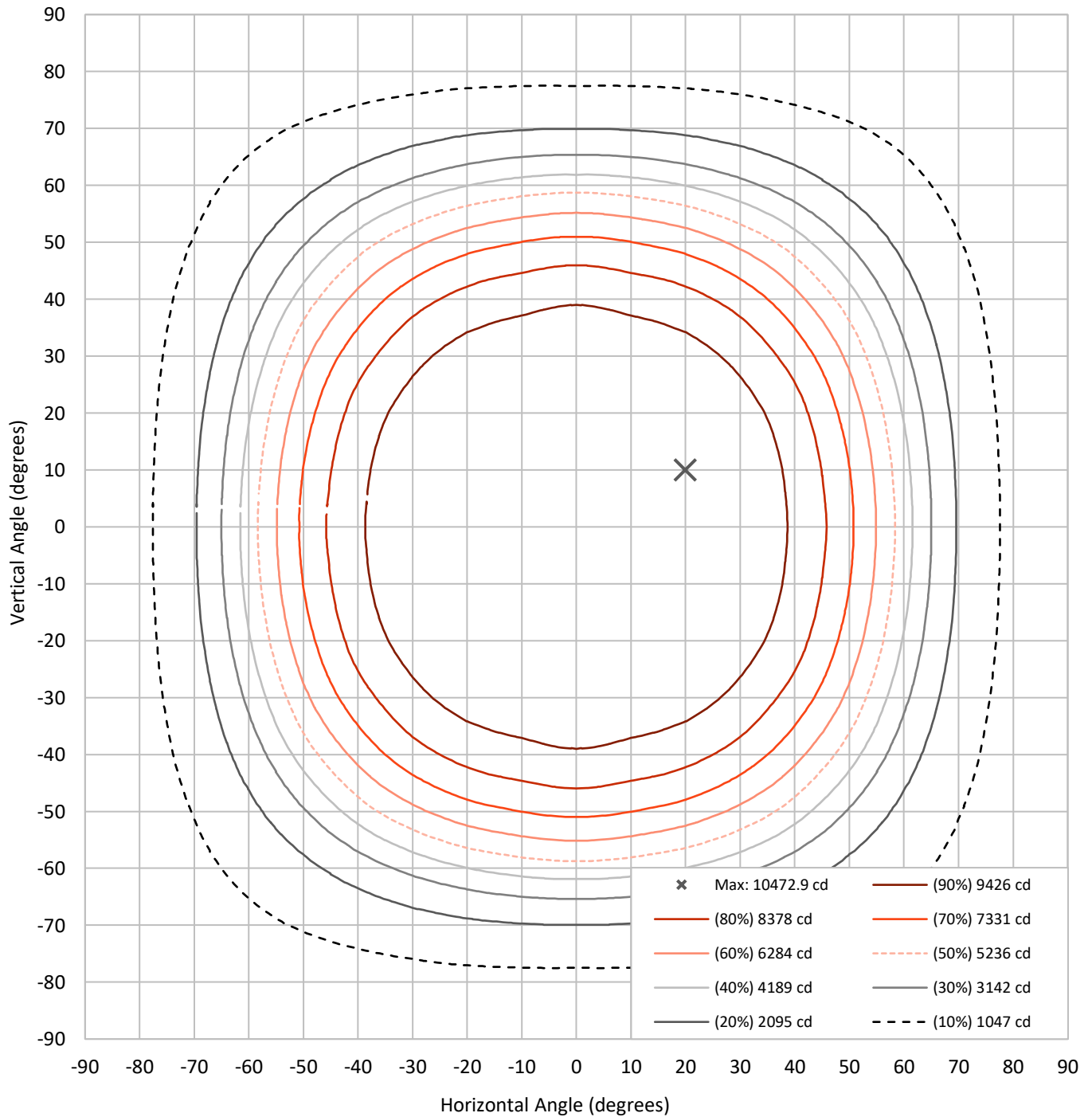
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	19715.2 lumens	Field Lumens:	23635.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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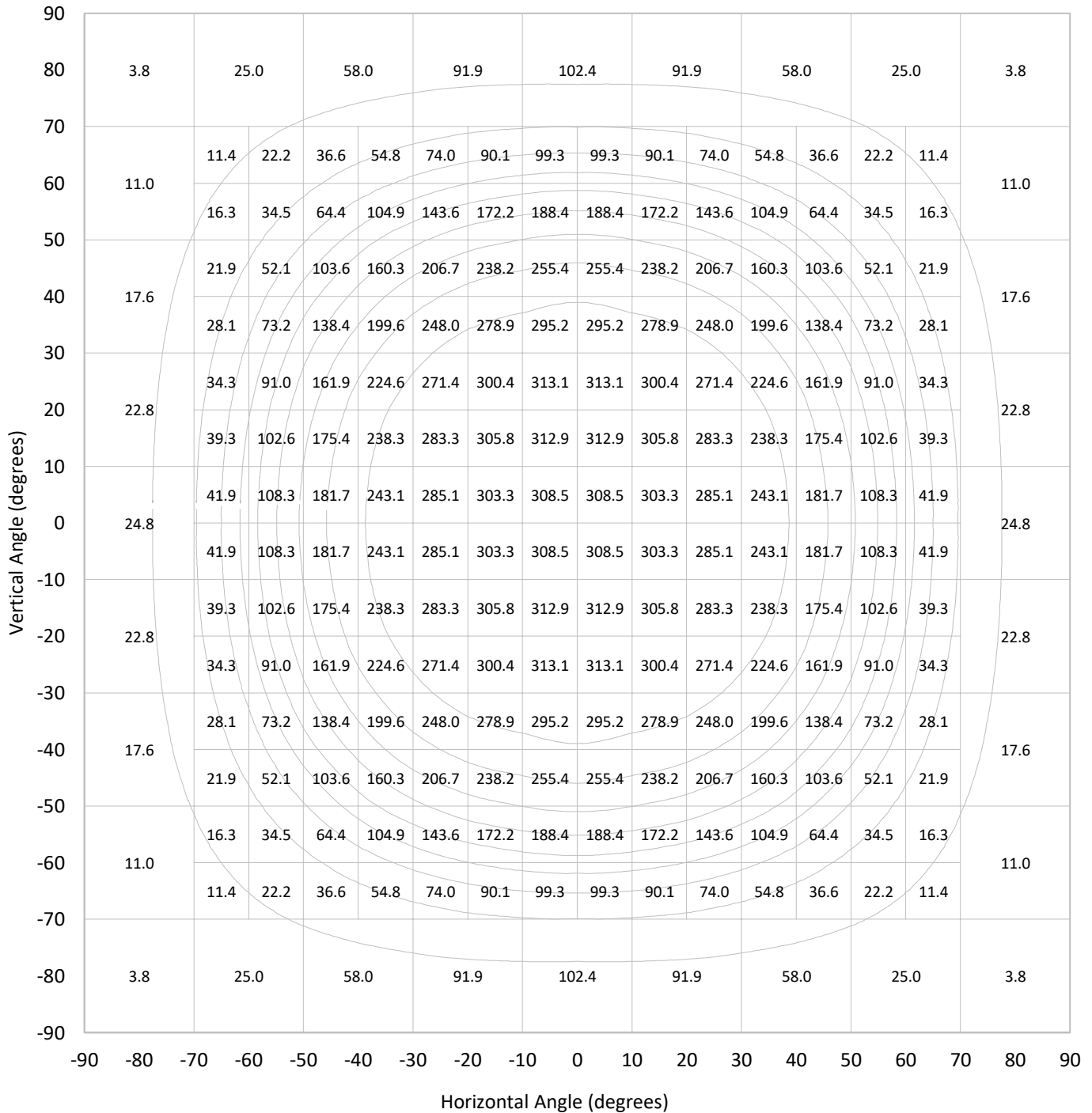
Iso-Candela Plot





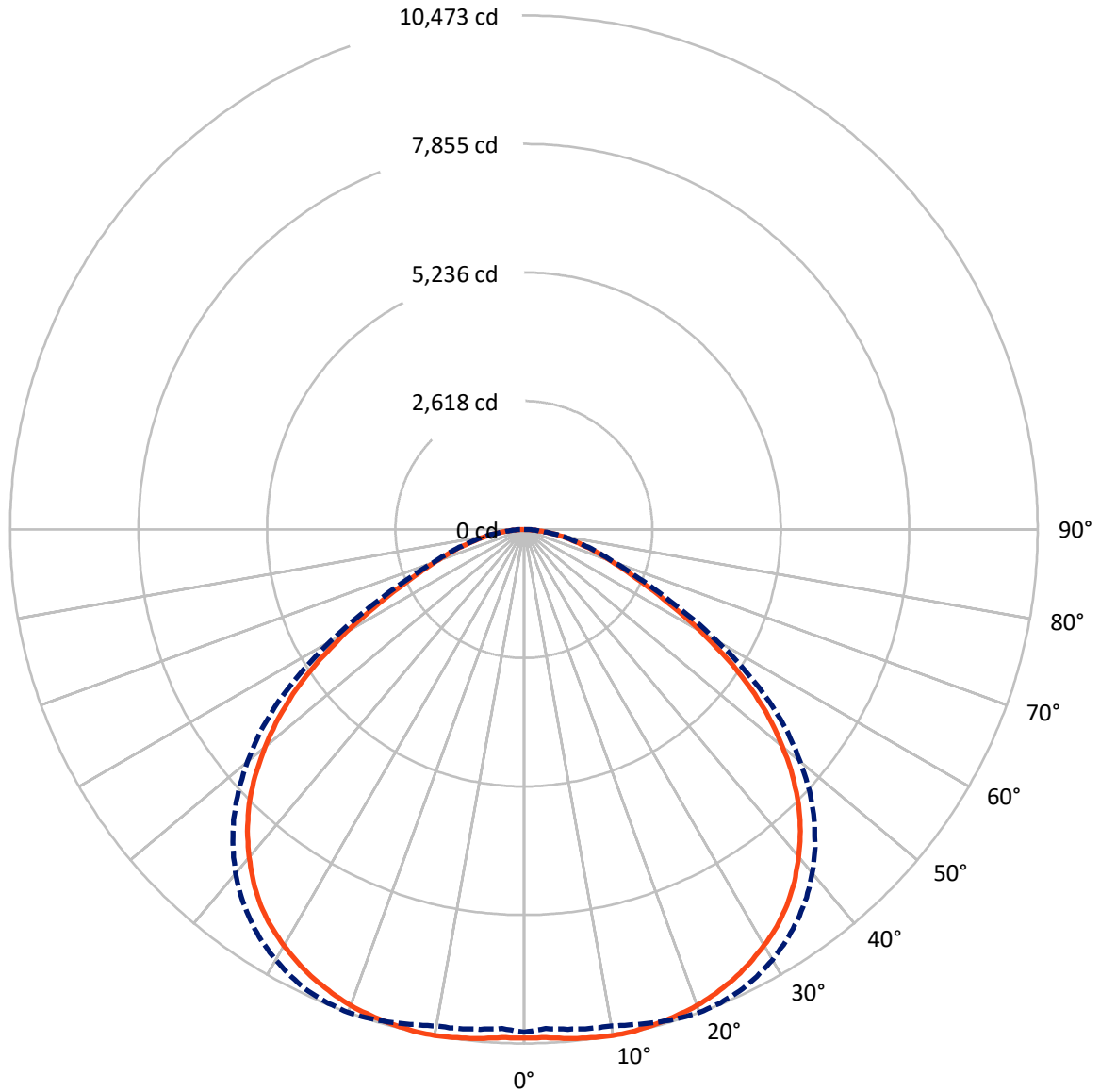
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Lumen Table



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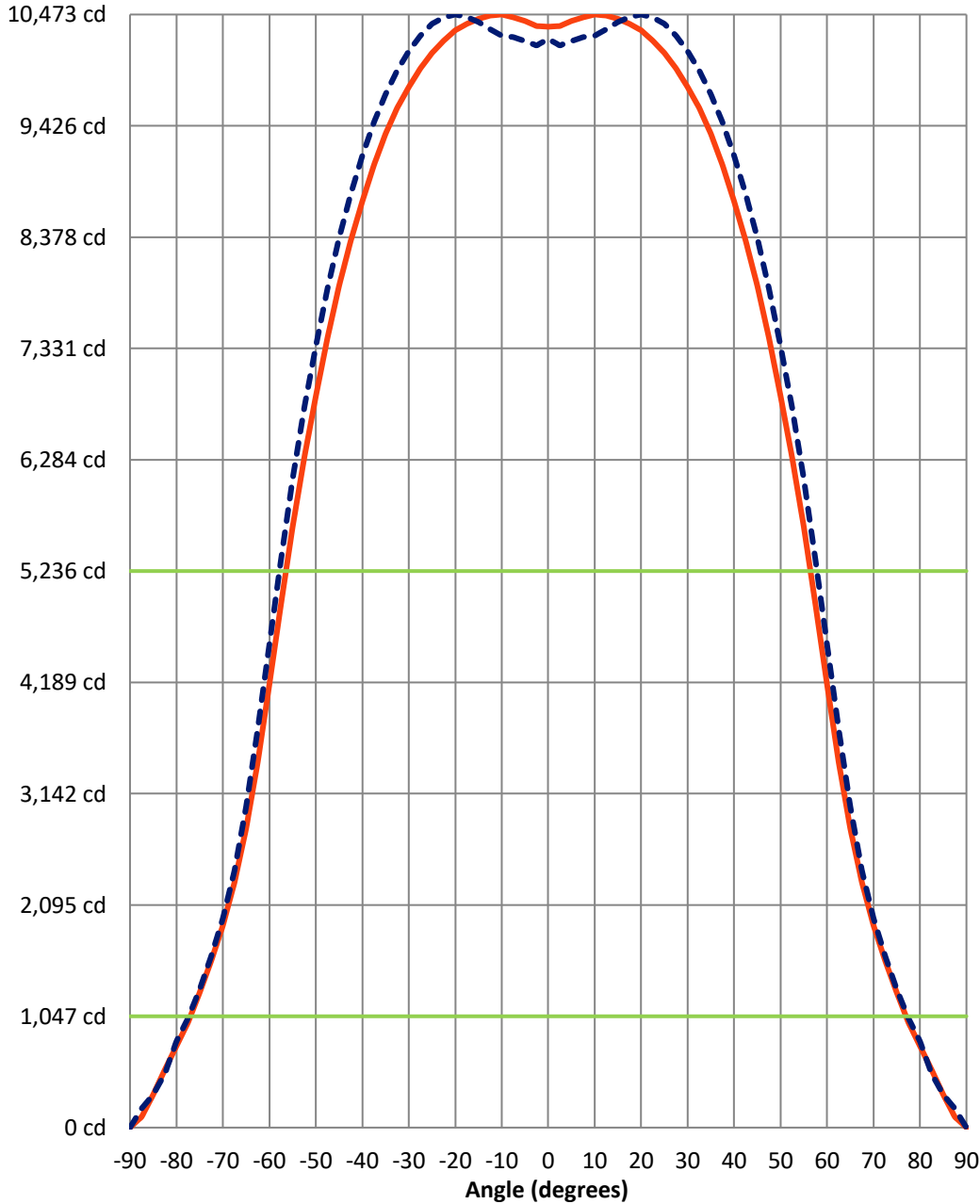
Luminous Intensity Polar Plot



— 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: 19715.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 23635.2
 Efficiency: 73.6%

Spill:
 Lumens: 8494.1
 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°	84.5	91.3	94.7	98.0	101.4	104.8	108.2	104.8	101.4	101.4	98.0
85°	226.5	233.3	236.6	260.3	284.0	297.5	314.4	311.0	311.0	307.6	304.2
82.5°	453.0	473.3	490.2	513.8	527.4	547.6	561.2	551.0	544.3	530.7	520.6
80°	804.6	811.3	814.7	818.1	801.2	797.8	791.0	780.9	767.4	750.5	733.6
77.5°	1024.3	1031.1	1037.8	1031.1	1027.7	1024.3	1014.2	1004.0	990.5	977.0	956.7
75°	1355.6	1355.6	1355.6	1345.4	1338.7	1328.5	1311.6	1294.7	1271.1	1244.0	1213.6
72.5°	1707.2	1703.8	1700.4	1680.1	1663.2	1642.9	1619.3	1599.0	1571.9	1541.5	1501.0
70°	2075.6	2082.4	2085.8	2058.7	2038.5	2011.4	1981.0	1943.8	1903.2	1859.3	1801.8
67.5°	2582.7	2576.0	2569.2	2532.0	2505.0	2467.8	2423.8	2369.7	2308.9	2241.3	2160.2
65°	3211.5	3221.6	3201.4	3164.2	3113.5	3052.6	2985.0	2907.2	2816.0	2714.6	2599.6
62.5°	3972.1	3989.0	3965.4	3918.0	3853.8	3772.7	3678.0	3566.4	3441.4	3299.4	3157.4
60°	4837.5	4834.1	4790.2	4726.0	4641.5	4540.0	4435.2	4313.5	4171.6	4005.9	3833.5
57.5°	5631.9	5625.2	5571.1	5506.9	5422.4	5314.2	5202.6	5074.2	4925.4	4749.6	4550.2
55°	6345.2	6338.5	6284.4	6216.8	6128.9	6020.7	5919.3	5797.6	5652.2	5466.3	5253.3
52.5°	6977.4	6980.8	6933.4	6859.1	6764.4	6659.6	6561.6	6439.9	6301.3	6115.4	5909.2
50°	7558.8	7555.5	7504.8	7437.1	7349.3	7247.8	7149.8	7028.1	6882.7	6703.6	6504.1
47.5°	8099.7	8093.0	8035.5	7961.1	7869.9	7782.0	7690.7	7582.5	7430.4	7251.2	7051.8
45°	8552.7	8539.2	8481.7	8410.7	8322.8	8245.1	8164.0	8082.8	7920.6	7754.9	7565.6
42.5°	8941.5	8938.1	8880.6	8809.6	8721.7	8654.1	8579.8	8478.3	8343.1	8191.0	8005.1
40°	9313.3	9286.3	9228.8	9161.2	9080.1	9022.6	8948.2	8846.8	8715.0	8566.2	8387.1
37.5°	9590.5	9593.9	9533.1	9458.7	9387.7	9333.6	9266.0	9171.4	9056.4	8911.1	8731.9
35°	9854.2	9837.3	9786.6	9722.4	9658.1	9597.3	9526.3	9445.2	9350.5	9215.3	9046.3
32.5°	10026.6	10050.3	9989.4	9921.8	9884.6	9837.3	9762.9	9678.4	9593.9	9458.7	9306.6
30°	10215.9	10195.7	10148.3	10090.9	10063.8	10033.4	9969.2	9888.0	9790.0	9668.3	9526.3
27.5°	10347.8	10337.6	10280.2	10226.1	10212.6	10185.5	10134.8	10063.8	9965.8	9847.5	9715.6
25°	10405.2	10412.0	10357.9	10327.5	10327.5	10310.6	10270.0	10209.2	10111.1	10003.0	9874.5
22.5°	10432.3	10425.5	10388.3	10381.6	10398.5	10385.0	10368.1	10314.0	10226.1	10138.2	10030.0
20°	10449.2	10401.9	10368.1	10395.1	10415.4	10412.0	10398.5	10364.7	10324.1	10249.7	10155.1
17.5°	10412.0	10381.6	10341.0	10381.6	10425.5	10428.9	10415.4	10395.1	10385.0	10337.6	10253.1
15°	10320.7	10297.1	10303.8	10344.4	10395.1	10412.0	10422.1	10445.8	10432.3	10395.1	10320.7
12.5°	10259.9	10229.5	10259.9	10300.4	10327.5	10337.6	10418.8	10462.7	10462.7	10428.9	10381.6
10°	10243.0	10182.1	10222.7	10259.9	10273.4	10334.3	10401.9	10449.2	10472.9	10445.8	10385.0
7.5°	10209.2	10168.6	10185.5	10202.4	10280.2	10324.1	10361.3	10412.0	10445.8	10442.4	10388.3
5°	10192.3	10141.6	10148.3	10219.3	10273.4	10303.8	10317.3	10361.3	10412.0	10422.1	10381.6
2.5°	10148.3	10124.7	10175.4	10182.1	10222.7	10246.4	10259.9	10300.4	10364.7	10388.3	10371.4
0°	10124.7	10090.9	10057.0	10084.1	10151.7	10202.4	10222.7	10283.5	10357.9	10381.6	10344.4



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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°	94.7	91.3	87.9	84.5	87.9	87.9	87.9	84.5	87.9	84.5	84.5
85°	294.1	280.6	270.4	256.9	243.4	233.3	219.7	206.2	202.8	199.5	192.7
82.5°	507.1	490.2	473.3	453.0	432.7	409.0	385.4	358.3	351.6	344.8	334.7
80°	713.3	689.6	666.0	642.3	622.0	598.4	571.3	540.9	520.6	503.7	483.4
77.5°	929.6	895.8	862.0	821.5	797.8	774.1	747.1	716.7	686.2	659.2	628.8
75°	1176.4	1139.2	1105.4	1064.9	1020.9	977.0	933.0	892.5	848.5	807.9	767.4
72.5°	1450.2	1396.2	1342.1	1291.4	1237.3	1183.2	1125.7	1071.6	1017.5	963.4	906.0
70°	1737.6	1670.0	1602.4	1534.8	1463.8	1392.8	1325.2	1257.6	1189.9	1119.0	1054.7
67.5°	2075.6	1997.9	1910.0	1815.3	1710.5	1619.3	1531.4	1450.2	1369.1	1288.0	1206.8
65°	2498.2	2390.0	2271.7	2143.3	2021.6	1899.9	1771.4	1649.7	1555.0	1460.4	1369.1
62.5°	3018.8	2866.7	2701.0	2535.4	2386.6	2227.8	2079.0	1920.1	1771.4	1636.2	1524.6
60°	3640.8	3434.6	3231.8	3018.8	2812.6	2596.2	2406.9	2210.9	2024.9	1859.3	1697.0
57.5°	4327.1	4087.0	3843.7	3583.4	3302.8	3049.2	2792.3	2535.4	2315.7	2095.9	1913.4
55°	5023.5	4769.9	4496.1	4202.0	3894.4	3569.8	3221.6	2934.3	2633.4	2376.5	2139.9
52.5°	5686.0	5422.4	5138.4	4867.9	4499.5	4127.6	3745.6	3367.0	3015.4	2687.5	2400.2
50°	6277.6	6020.7	5746.9	5432.5	5091.1	4695.5	4269.6	3843.7	3427.8	3042.5	2684.1
47.5°	6818.5	6568.4	6294.5	5980.1	5669.1	5229.7	4800.3	4330.4	3867.3	3424.5	3005.3
45°	7325.6	7072.0	6788.1	6487.2	6128.9	5736.7	5293.9	4820.6	4323.7	3826.7	3343.3
42.5°	7785.3	7531.8	7244.5	6933.4	6578.5	6189.7	5760.4	5283.8	4783.4	4242.6	3711.8
40°	8187.6	7940.8	7663.6	7339.1	7007.8	6598.8	6176.2	5723.2	5206.0	4661.7	4076.9
37.5°	8539.2	8309.3	8035.5	7714.3	7362.8	6997.7	6561.6	6108.6	5642.1	5050.5	4452.1
35°	8850.2	8637.2	8356.6	8052.4	7707.6	7322.2	6913.2	6470.3	5966.6	5412.2	4830.8
32.5°	9120.6	8904.3	8647.4	8343.1	8008.5	7646.7	7227.6	6781.3	6304.7	5740.1	5108.0
30°	9350.5	9140.9	8897.5	8610.2	8289.0	7930.7	7521.7	7072.0	6585.3	6024.1	5398.7
27.5°	9550.0	9350.5	9113.9	8846.8	8539.2	8194.4	7782.0	7329.0	6832.0	6291.1	5665.8
25°	9722.4	9529.7	9310.0	9056.4	8752.2	8414.1	8025.4	7552.1	7055.1	6510.9	5892.2
22.5°	9877.9	9692.0	9472.2	9225.4	8948.2	8610.2	8218.0	7748.2	7244.5	6707.0	6098.5
20°	10016.5	9844.1	9627.7	9374.2	9097.0	8755.5	8366.8	7920.6	7413.5	6886.1	6284.4
17.5°	10128.0	9975.9	9759.6	9492.5	9215.3	8884.0	8505.4	8096.3	7558.8	7038.2	6439.9
15°	10205.8	10057.0	9861.0	9590.5	9320.1	8992.2	8613.6	8191.0	7690.7	7159.9	6568.4
12.5°	10259.9	10101.0	9918.4	9668.3	9397.8	9073.3	8704.8	8289.0	7802.2	7268.1	6679.9
10°	10273.4	10128.0	9945.5	9722.4	9458.7	9144.3	8782.6	8370.2	7893.5	7352.6	6771.2
7.5°	10280.2	10141.6	9975.9	9762.9	9502.6	9198.4	8840.1	8434.4	7961.1	7423.6	6838.8
5°	10276.8	10144.9	9996.2	9790.0	9529.7	9228.8	8877.2	8478.3	8008.5	7471.0	6889.5
2.5°	10266.6	10148.3	10009.7	9810.3	9560.1	9262.6	8914.4	8529.1	8059.2	7511.5	6930.1
0°	10293.7	10192.3	10016.5	9803.5	9566.9	9262.6	8911.1	8535.8	8065.9	7508.1	6926.7



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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°	84.5	81.1	81.1	77.8	74.4	71.0	64.2	60.8	54.1	43.9	33.8
85°	182.5	172.4	162.3	155.5	148.7	142.0	131.8	121.7	108.2	87.9	67.6
82.5°	321.1	300.9	280.6	256.9	236.6	216.4	199.5	182.5	162.3	131.8	101.4
80°	459.8	429.3	398.9	365.1	334.7	300.9	270.4	243.4	216.4	175.8	135.2
77.5°	598.4	557.8	513.8	473.3	429.3	385.4	341.4	304.2	263.7	216.4	169.0
75°	726.8	679.5	638.9	581.4	527.4	469.9	412.4	361.7	311.0	253.5	202.8
72.5°	855.3	794.4	737.0	682.9	622.0	551.0	486.8	422.6	358.3	290.7	229.9
70°	983.7	909.4	838.4	774.1	706.5	635.5	557.8	483.4	405.7	324.5	253.5
67.5°	1115.6	1031.1	949.9	868.8	791.0	709.9	628.8	544.3	453.0	358.3	280.6
65°	1260.9	1156.1	1058.1	966.8	875.6	787.7	696.4	605.1	503.7	395.5	304.2
62.5°	1406.3	1291.4	1176.4	1061.5	960.1	862.0	764.0	662.6	551.0	436.1	327.9
60°	1561.8	1430.0	1298.1	1169.7	1044.6	936.4	828.2	720.1	601.7	473.3	351.6
57.5°	1734.2	1575.3	1426.6	1281.2	1139.2	1010.8	892.5	777.5	645.7	510.5	378.6
55°	1930.3	1734.2	1558.4	1396.2	1240.7	1085.1	956.7	838.4	696.4	547.6	409.0
52.5°	2136.5	1910.0	1697.0	1514.5	1348.8	1173.0	1017.5	885.7	747.1	584.8	436.1
50°	2376.5	2089.2	1852.5	1629.4	1443.5	1260.9	1081.8	939.8	797.8	628.8	463.1
47.5°	2623.3	2305.5	2008.0	1764.6	1544.9	1345.4	1156.1	987.1	845.1	669.3	490.2
45°	2910.6	2511.7	2183.8	1896.5	1642.9	1433.3	1230.5	1037.8	885.7	709.9	517.2
42.5°	3187.8	2755.1	2366.4	2041.8	1754.5	1517.9	1298.1	1091.9	926.3	750.5	540.9
40°	3515.7	2998.5	2542.2	2180.4	1866.0	1599.0	1365.7	1149.4	963.4	787.7	564.5
37.5°	3830.1	3245.3	2755.1	2332.6	1974.2	1680.1	1433.3	1203.5	997.3	824.8	595.0
35°	4141.1	3519.1	2958.0	2474.5	2085.8	1771.4	1501.0	1254.2	1031.1	855.3	622.0
32.5°	4438.6	3776.0	3164.2	2633.4	2207.5	1855.9	1561.8	1301.5	1064.9	882.3	649.1
30°	4715.8	4019.4	3367.0	2795.7	2319.0	1933.7	1619.3	1348.8	1105.4	906.0	676.1
27.5°	4969.4	4256.1	3569.8	2947.8	2423.8	2004.6	1680.1	1392.8	1139.2	929.6	699.8
25°	5199.2	4469.0	3755.8	3086.4	2518.5	2082.4	1737.6	1436.7	1169.7	949.9	720.1
22.5°	5415.6	4665.1	3924.8	3225.0	2633.4	2160.2	1791.7	1477.3	1200.1	970.2	740.3
20°	5604.9	4844.3	4087.0	3363.6	2734.8	2231.1	1839.0	1514.5	1227.1	983.7	760.6
17.5°	5757.0	5003.2	4232.4	3485.3	2822.7	2292.0	1879.6	1548.3	1250.8	1000.6	774.1
15°	5892.2	5138.4	4354.1	3590.1	2900.5	2342.7	1916.8	1575.3	1271.1	1010.8	791.0
12.5°	6007.2	5253.3	4458.9	3681.4	2968.1	2386.6	1947.2	1595.6	1288.0	1020.9	801.2
10°	6101.8	5344.6	4546.8	3752.4	3022.2	2420.5	1970.8	1615.9	1301.5	1031.1	811.3
7.5°	6172.8	5412.2	4611.0	3813.2	3066.1	2444.1	1991.1	1629.4	1315.0	1037.8	828.2
5°	6226.9	5469.7	4661.7	3853.8	3099.9	2477.9	2014.8	1646.3	1328.5	1044.6	828.2
2.5°	6267.5	5517.0	4702.3	3887.6	3127.0	2471.2	2014.8	1642.9	1328.5	1044.6	824.8
0°	6260.7	5520.4	4698.9	3887.6	3127.0	2464.4	2014.8	1639.6	1328.5	1044.6	824.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.7	16.9	6.8	0.0
85°	50.7	33.8	16.9	0.0
82.5°	74.4	47.3	23.7	0.0
80°	98.0	64.2	30.4	0.0
77.5°	125.1	81.1	40.6	0.0
75°	148.7	94.7	47.3	0.0
72.5°	172.4	111.6	54.1	0.0
70°	192.7	125.1	60.8	0.0
67.5°	213.0	142.0	71.0	0.0
65°	229.9	155.5	77.8	0.0
62.5°	243.4	172.4	84.5	0.0
60°	260.3	185.9	91.3	0.0
57.5°	273.8	196.1	98.0	0.0
55°	287.3	202.8	104.8	0.0
52.5°	300.9	213.0	111.6	0.0
50°	314.4	223.1	118.3	0.0
47.5°	327.9	229.9	121.7	0.0
45°	348.2	240.0	128.5	0.0
42.5°	365.1	246.8	135.2	0.0
40°	382.0	253.5	138.6	0.0
37.5°	398.9	260.3	145.4	0.0
35°	415.8	267.1	148.7	0.0
32.5°	429.3	273.8	152.1	0.0
30°	442.8	280.6	155.5	0.0
27.5°	456.4	284.0	158.9	0.0
25°	466.5	290.7	162.3	0.0
22.5°	476.7	294.1	165.6	0.0
20°	483.4	297.5	169.0	0.0
17.5°	493.6	300.9	172.4	0.0
15°	496.9	304.2	179.2	0.0
12.5°	503.7	307.6	179.2	0.0
10°	507.1	311.0	179.2	0.0
7.5°	513.8	311.0	179.2	0.0
5°	510.5	311.0	179.2	0.0
2.5°	510.5	311.0	179.2	0.0
0°	507.1	311.0	179.2	0.0

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