

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: P628206

Luminaire Tested: **IFLD-L-SA8C-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628206
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	43606.3 lumens	Max Intensity:	14213.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	103.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

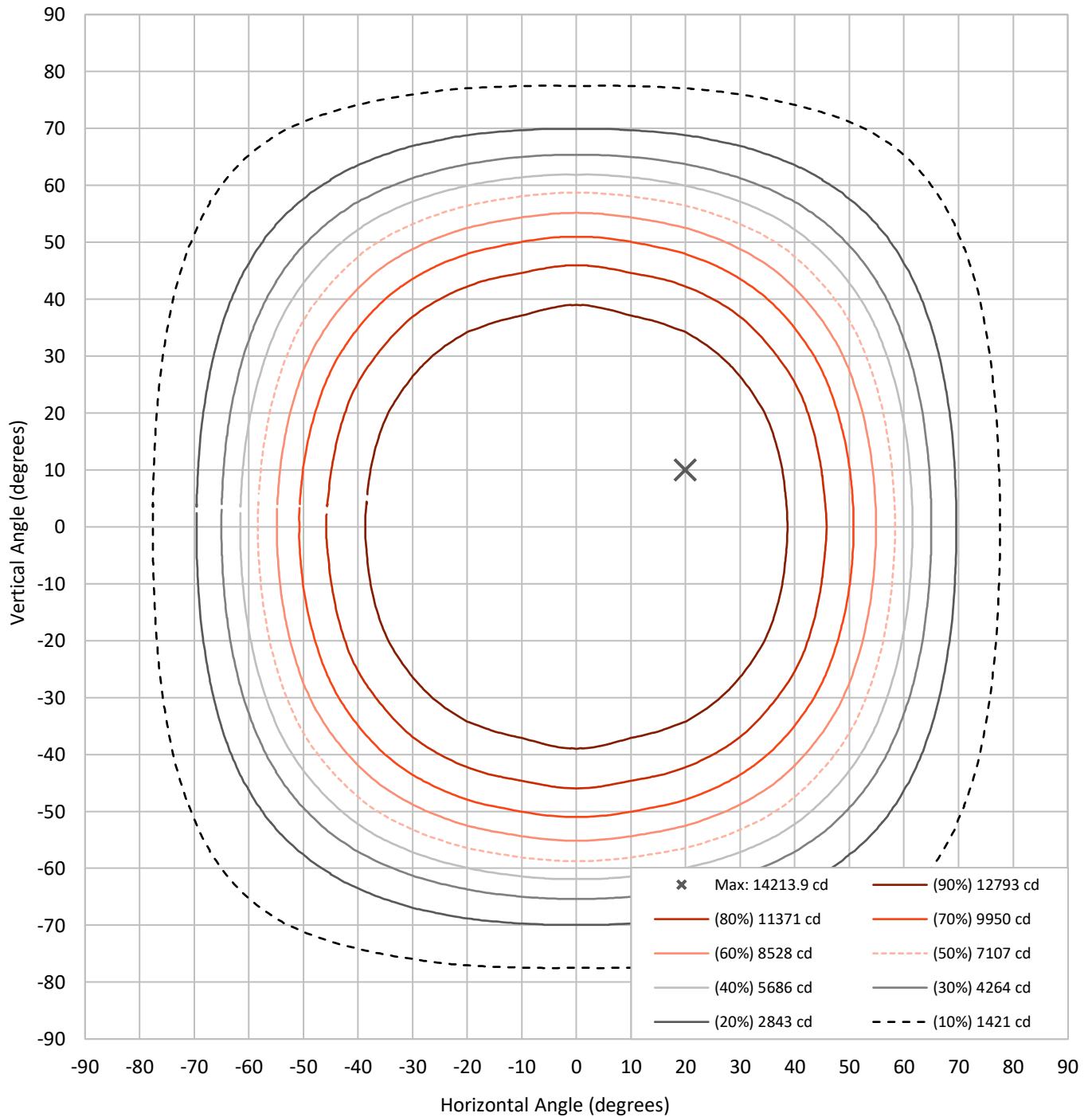
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	26757.7 lumens	Field Lumens:	32077.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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



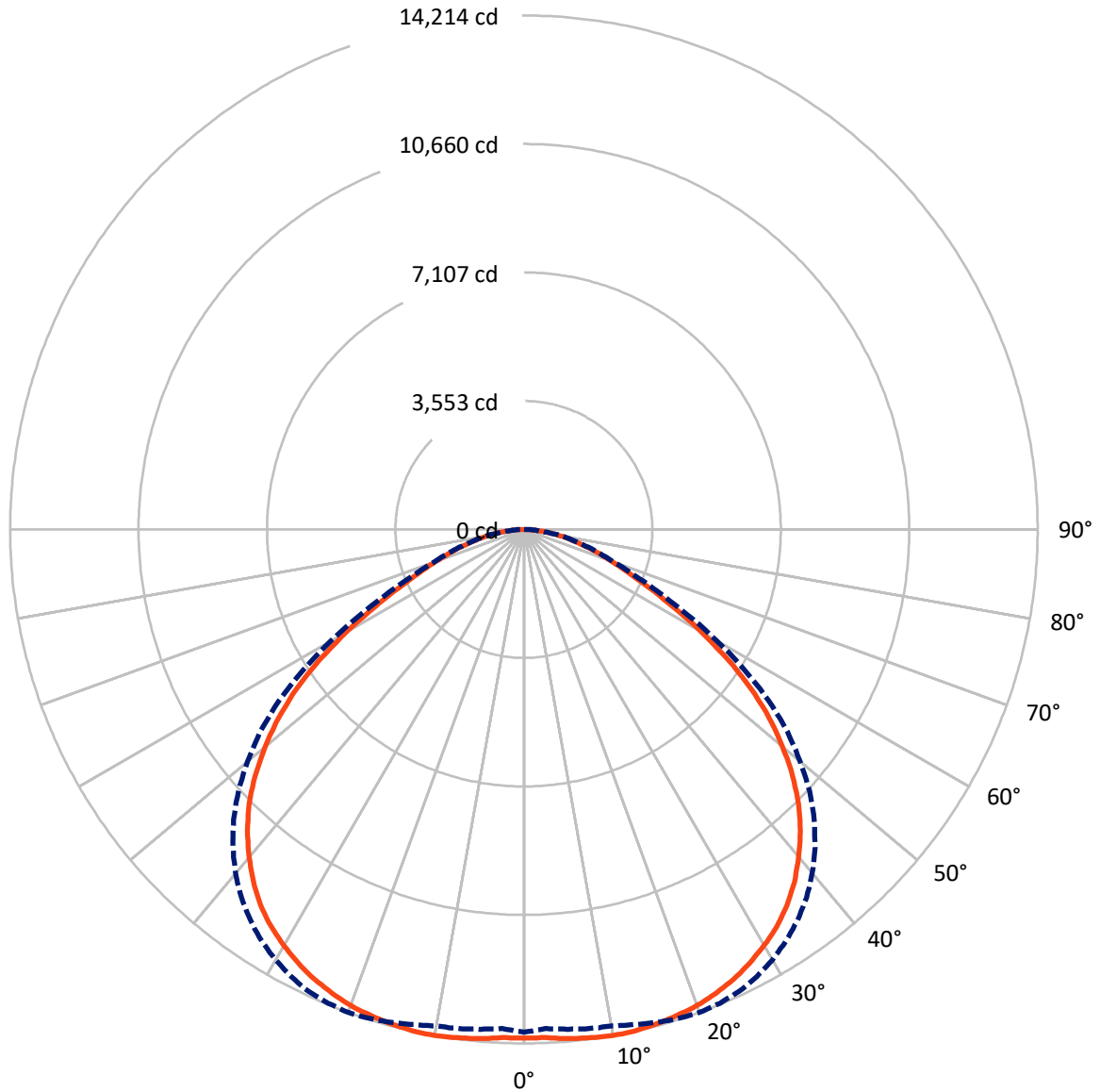
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Iso-Candela Plot



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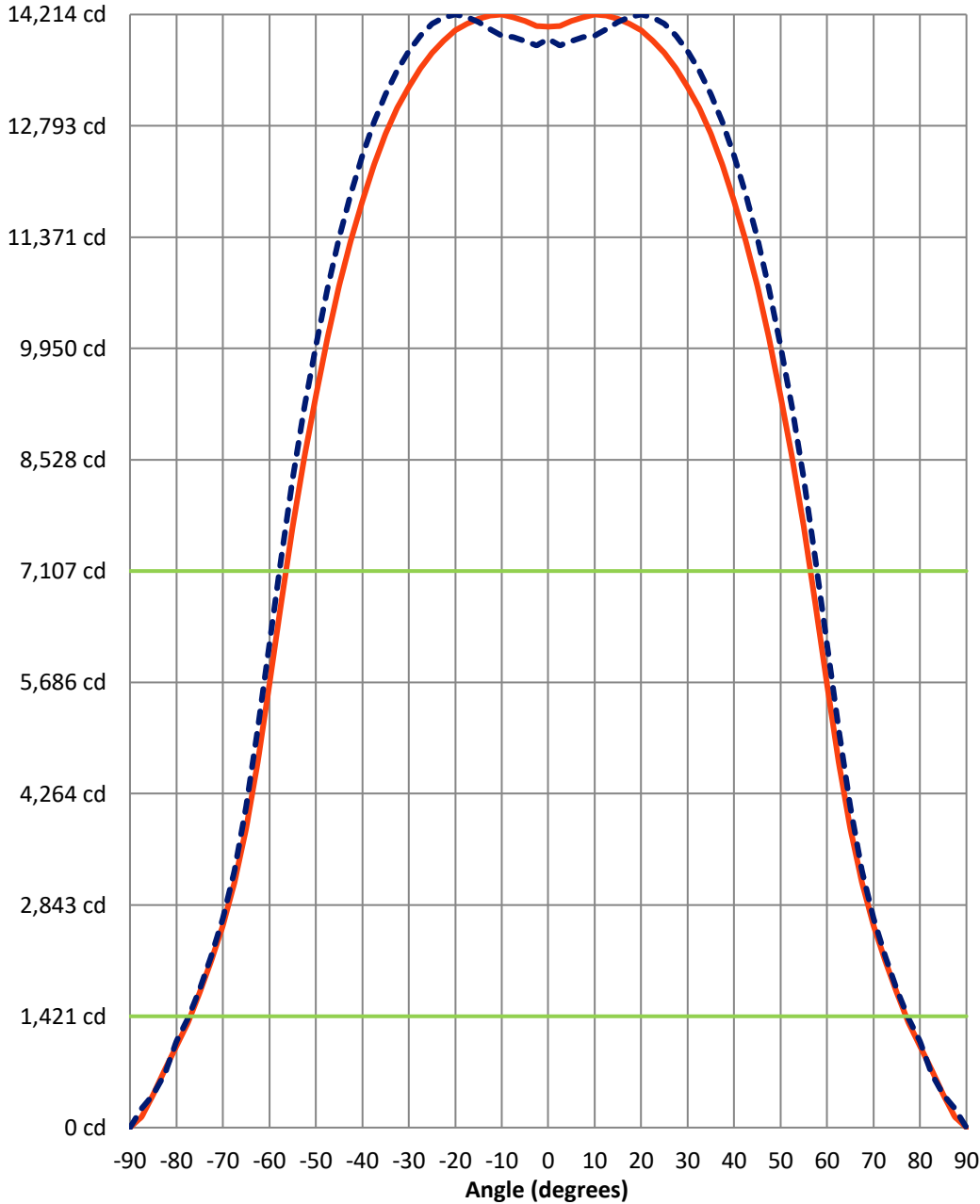
Luminous Intensity Polar Plot



— 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: 26757.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 32077.9
 Efficiency: 73.6%

Spill:
 Lumens: 11528.3
 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°	114.7	123.9	128.5	133.1	137.6	142.2	146.8	142.2	137.6	137.6	133.1
85°	307.4	316.6	321.2	353.3	385.4	403.8	426.7	422.1	422.1	417.5	412.9
82.5°	614.8	642.3	665.3	697.4	715.7	743.3	761.6	747.9	738.7	720.3	706.6
80°	1092.0	1101.1	1105.7	1110.3	1087.4	1082.8	1073.6	1059.8	1041.5	1018.6	995.6
77.5°	1390.2	1399.4	1408.5	1399.4	1394.8	1390.2	1376.4	1362.7	1344.3	1326.0	1298.4
75°	1839.8	1839.8	1839.8	1826.1	1816.9	1803.1	1780.2	1757.2	1725.1	1688.4	1647.1
72.5°	2317.0	2312.4	2307.8	2280.3	2257.3	2229.8	2197.7	2170.2	2133.5	2092.2	2037.1
70°	2817.1	2826.3	2830.8	2794.1	2766.6	2729.9	2688.6	2638.1	2583.1	2523.4	2445.4
67.5°	3505.3	3496.1	3486.9	3436.5	3399.8	3349.3	3289.7	3216.2	3133.7	3041.9	2931.8
65°	4358.7	4372.4	4344.9	4294.4	4225.6	4143.0	4051.3	3945.8	3821.9	3684.2	3528.2
62.5°	5391.0	5413.9	5381.8	5317.6	5230.4	5120.3	4991.8	4840.4	4670.7	4478.0	4285.3
60°	6565.5	6561.0	6501.3	6414.1	6299.4	6161.8	6019.6	5854.4	5661.7	5436.9	5202.9
57.5°	7643.7	7634.6	7561.2	7474.0	7359.3	7212.5	7061.1	6886.7	6684.8	6446.3	6175.6
55°	8611.8	8602.7	8529.2	8437.5	8318.2	8171.4	8033.7	7868.6	7671.3	7418.9	7129.9
52.5°	9469.8	9474.4	9410.2	9309.2	9180.8	9038.5	8905.5	8740.3	8552.2	8299.8	8020.0
50°	10259.0	10254.4	10185.5	10093.8	9974.5	9836.9	9703.8	9538.6	9341.3	9098.2	8827.5
47.5°	10993.1	10983.9	10905.9	10804.9	10681.1	10561.8	10437.9	10291.1	10084.6	9841.4	9570.7
45°	11607.9	11589.5	11511.5	11415.2	11295.9	11190.3	11080.2	10970.1	10749.9	10525.1	10268.1
42.5°	12135.5	12130.9	12052.9	11956.5	11837.3	11745.5	11644.6	11506.9	11323.4	11116.9	10864.6
40°	12640.2	12603.5	12525.5	12433.7	12323.6	12245.6	12144.7	12007.0	11828.1	11626.2	11383.0
37.5°	13016.4	13021.0	12938.4	12837.5	12741.1	12667.7	12575.9	12447.5	12291.5	12094.2	11851.0
35°	13374.3	13351.3	13282.5	13195.3	13108.2	13025.6	12929.2	12819.1	12690.6	12507.1	12277.7
32.5°	13608.3	13640.4	13557.8	13466.0	13415.6	13351.3	13250.4	13135.7	13021.0	12837.5	12631.0
30°	13865.2	13837.7	13773.4	13695.4	13658.7	13617.4	13530.3	13420.1	13287.1	13121.9	12929.2
27.5°	14044.1	14030.4	13952.4	13879.0	13860.6	13823.9	13755.1	13658.7	13525.7	13365.1	13186.2
25°	14122.1	14131.3	14057.9	14016.6	14016.6	13993.7	13938.6	13856.0	13723.0	13576.1	13401.8
22.5°	14158.8	14149.7	14099.2	14090.0	14112.9	14094.6	14071.7	13998.2	13879.0	13759.7	13612.8
20°	14181.8	14117.5	14071.7	14108.4	14135.9	14131.3	14112.9	14067.1	14012.0	13911.1	13782.6
17.5°	14131.3	14090.0	14035.0	14090.0	14149.7	14154.2	14135.9	14108.4	14094.6	14030.4	13915.7
15°	14007.4	13975.3	13984.5	14039.5	14108.4	14131.3	14145.1	14177.2	14158.8	14108.4	14007.4
12.5°	13924.8	13883.5	13924.8	13979.9	14016.6	14030.4	14140.5	14200.1	14200.1	14154.2	14090.0
10°	13901.9	13819.3	13874.4	13924.8	13943.2	14025.8	14117.5	14181.8	14213.9	14177.2	14094.6
7.5°	13856.0	13801.0	13823.9	13846.8	13952.4	14012.0	14062.5	14131.3	14177.2	14172.6	14099.2
5°	13833.1	13764.3	13773.4	13869.8	13943.2	13984.5	14002.8	14062.5	14131.3	14145.1	14090.0
2.5°	13773.4	13741.3	13810.1	13819.3	13874.4	13906.5	13924.8	13979.9	14067.1	14099.2	14076.2
0°	13741.3	13695.4	13649.6	13686.3	13778.0	13846.8	13874.4	13957.0	14057.9	14090.0	14039.5



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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°	128.5	123.9	119.3	114.7	119.3	119.3	119.3	114.7	119.3	114.7	114.7
85°	399.2	380.8	367.0	348.7	330.3	316.6	298.2	279.9	275.3	270.7	261.5
82.5°	688.2	665.3	642.3	614.8	587.3	555.2	523.0	486.3	477.2	468.0	454.2
80°	968.1	936.0	903.9	871.7	844.2	812.1	775.4	734.1	706.6	683.6	656.1
77.5°	1261.7	1215.8	1170.0	1114.9	1082.8	1050.7	1014.0	972.7	931.4	894.7	853.4
75°	1596.7	1546.2	1500.3	1445.2	1385.6	1326.0	1266.3	1211.3	1151.6	1096.6	1041.5
72.5°	1968.3	1894.9	1821.5	1752.6	1679.2	1605.8	1527.8	1454.4	1381.0	1307.6	1229.6
70°	2358.3	2266.5	2174.8	2083.0	1986.6	1890.3	1798.5	1706.8	1615.0	1518.7	1431.5
67.5°	2817.1	2711.6	2592.3	2463.8	2321.6	2197.7	2078.4	1968.3	1858.2	1748.1	1637.9
65°	3390.6	3243.8	3083.2	2908.8	2743.7	2578.5	2404.2	2239.0	2110.5	1982.1	1858.2
62.5°	4097.2	3890.7	3665.9	3441.1	3239.2	3023.5	2821.7	2606.0	2404.2	2220.6	2069.2
60°	4941.4	4661.5	4386.2	4097.2	3817.3	3523.6	3266.7	3000.6	2748.3	2523.4	2303.2
57.5°	5872.7	5547.0	5216.7	4863.4	4482.6	4138.5	3789.8	3441.1	3142.8	2844.6	2596.9
55°	6817.9	6473.8	6102.2	5703.0	5285.5	4845.0	4372.4	3982.5	3574.1	3225.4	2904.3
52.5°	7717.2	7359.3	6973.9	6606.8	6106.7	5602.1	5083.6	4569.7	4092.6	3647.5	3257.5
50°	8520.1	8171.4	7799.7	7373.1	6909.7	6372.8	5794.8	5216.7	4652.3	4129.3	3642.9
47.5°	9254.2	8914.6	8543.0	8116.3	7694.2	7097.8	6515.1	5877.3	5248.8	4647.7	4078.8
45°	9942.4	9598.3	9212.9	8804.5	8318.2	7786.0	7184.9	6542.6	5868.2	5193.7	4537.6
42.5°	10566.4	10222.3	9832.3	9410.2	8928.4	8400.8	7818.1	7171.2	6492.1	5758.0	5037.7
40°	11112.3	10777.4	10401.2	9960.7	9511.1	8955.9	8382.4	7767.6	7065.7	6327.0	5533.2
37.5°	11589.5	11277.5	10905.9	10470.0	9992.8	9497.3	8905.5	8290.7	7657.5	6854.6	6042.5
35°	12011.6	11722.6	11341.7	10928.8	10460.8	9937.8	9382.6	8781.6	8098.0	7345.5	6556.4
32.5°	12378.7	12085.0	11736.3	11323.4	10869.2	10378.2	9809.3	9203.7	8556.8	7790.6	6932.6
30°	12690.6	12406.2	12075.8	11685.9	11250.0	10763.6	10208.5	9598.3	8937.6	8176.0	7327.2
27.5°	12961.3	12690.6	12369.5	12007.0	11589.5	11121.5	10561.8	9947.0	9272.5	8538.4	7689.6
25°	13195.3	12933.8	12635.6	12291.5	11878.6	11419.7	10892.1	10249.8	9575.3	8836.7	7997.0
22.5°	13406.4	13154.0	12855.8	12520.9	12144.7	11685.9	11153.6	10515.9	9832.3	9102.8	8276.9
20°	13594.5	13360.5	13066.9	12722.8	12346.5	11883.1	11355.5	10749.9	10061.7	9345.9	8529.2
17.5°	13745.9	13539.4	13245.8	12883.3	12507.1	12057.5	11543.6	10988.5	10259.0	9552.4	8740.3
15°	13851.4	13649.6	13383.4	13016.4	12649.4	12204.3	11690.4	11116.9	10437.9	9717.6	8914.6
12.5°	13924.8	13709.2	13461.4	13121.9	12754.9	12314.4	11814.3	11250.0	10589.3	9864.4	9066.1
10°	13943.2	13745.9	13498.1	13195.3	12837.5	12410.8	11919.8	11360.1	10713.2	9979.1	9189.9
7.5°	13952.4	13764.3	13539.4	13250.4	12897.1	12484.2	11997.8	11447.3	10804.9	10075.4	9281.7
5°	13947.8	13768.8	13567.0	13287.1	12933.8	12525.5	12048.3	11506.9	10869.2	10139.7	9350.5
2.5°	13934.0	13773.4	13585.3	13314.6	12975.1	12571.4	12098.8	11575.7	10938.0	10194.7	9405.6
0°	13970.7	13833.1	13594.5	13305.4	12984.3	12571.4	12094.2	11584.9	10947.2	10190.1	9401.0



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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°	114.7	110.1	110.1	105.5	100.9	96.3	87.2	82.6	73.4	59.6	45.9
85°	247.8	234.0	220.2	211.1	201.9	192.7	178.9	165.2	146.8	119.3	91.8
82.5°	435.9	408.3	380.8	348.7	321.2	293.6	270.7	247.8	220.2	178.9	137.6
80°	624.0	582.7	541.4	495.5	454.2	408.3	367.0	330.3	293.6	238.6	183.5
77.5°	812.1	757.0	697.4	642.3	582.7	523.0	463.4	412.9	357.9	293.6	229.4
75°	986.4	922.2	867.1	789.2	715.7	637.7	559.7	490.9	422.1	344.1	275.3
72.5°	1160.8	1078.2	1000.2	926.8	844.2	747.9	660.7	573.5	486.3	394.6	312.0
70°	1335.1	1234.2	1137.8	1050.7	958.9	862.6	757.0	656.1	550.6	440.5	344.1
67.5°	1514.1	1399.4	1289.3	1179.1	1073.6	963.5	853.4	738.7	614.8	486.3	380.8
65°	1711.4	1569.1	1436.1	1312.2	1188.3	1069.0	945.1	821.3	683.6	536.8	412.9
62.5°	1908.6	1752.6	1596.7	1440.7	1303.0	1170.0	1036.9	899.3	747.9	591.9	445.0
60°	2119.7	1940.8	1761.8	1587.5	1417.7	1270.9	1124.1	977.3	816.7	642.3	477.2
57.5°	2353.7	2138.0	1936.2	1738.9	1546.2	1371.8	1211.3	1055.3	876.3	692.8	513.9
55°	2619.8	2353.7	2115.1	1894.9	1683.8	1472.8	1298.4	1137.8	945.1	743.3	555.2
52.5°	2899.7	2592.3	2303.2	2055.5	1830.6	1592.1	1381.0	1202.1	1014.0	793.7	591.9
50°	3225.4	2835.4	2514.3	2211.5	1959.1	1711.4	1468.2	1275.5	1082.8	853.4	628.6
47.5°	3560.4	3129.1	2725.3	2395.0	2096.8	1826.1	1569.1	1339.7	1147.0	908.4	665.3
45°	3950.3	3408.9	2963.9	2573.9	2229.8	1945.3	1670.1	1408.5	1202.1	963.5	702.0
42.5°	4326.6	3739.3	3211.7	2771.2	2381.2	2060.1	1761.8	1482.0	1257.1	1018.6	734.1
40°	4771.6	4069.6	3450.2	2959.3	2532.6	2170.2	1853.6	1559.9	1307.6	1069.0	766.2
37.5°	5198.3	4404.6	3739.3	3165.8	2679.4	2280.3	1945.3	1633.4	1353.5	1119.5	807.5
35°	5620.4	4776.2	4014.6	3358.5	2830.8	2404.2	2037.1	1702.2	1399.4	1160.8	844.2
32.5°	6024.2	5124.9	4294.4	3574.1	2996.0	2518.9	2119.7	1766.4	1445.2	1197.5	880.9
30°	6400.4	5455.2	4569.7	3794.3	3147.4	2624.4	2197.7	1830.6	1500.3	1229.6	917.6
27.5°	6744.5	5776.4	4845.0	4000.8	3289.7	2720.7	2280.3	1890.3	1546.2	1261.7	949.7
25°	7056.5	6065.4	5097.4	4188.9	3418.1	2826.3	2358.3	1949.9	1587.5	1289.3	977.3
22.5°	7350.1	6331.6	5326.8	4377.0	3574.1	2931.8	2431.7	2005.0	1628.8	1316.8	1004.8
20°	7607.0	6574.7	5547.0	4565.1	3711.8	3028.1	2495.9	2055.5	1665.5	1335.1	1032.3
17.5°	7813.5	6790.4	5744.3	4730.3	3831.1	3110.7	2551.0	2101.3	1697.6	1358.1	1050.7
15°	7997.0	6973.9	5909.5	4872.5	3936.6	3179.5	2601.4	2138.0	1725.1	1371.8	1073.6
12.5°	8153.0	7129.9	6051.7	4996.4	4028.3	3239.2	2642.7	2165.6	1748.1	1385.6	1087.4
10°	8281.5	7253.8	6171.0	5092.8	4101.7	3285.1	2674.9	2193.1	1766.4	1399.4	1101.1
7.5°	8377.8	7345.5	6258.1	5175.4	4161.4	3317.2	2702.4	2211.5	1784.8	1408.5	1124.1
5°	8451.3	7423.5	6327.0	5230.4	4207.3	3363.1	2734.5	2234.4	1803.1	1417.7	1124.1
2.5°	8506.3	7487.8	6382.0	5276.3	4244.0	3353.9	2734.5	2229.8	1803.1	1417.7	1119.5
0°	8497.1	7492.3	6377.4	5276.3	4244.0	3344.7	2734.5	2225.2	1803.1	1417.7	1119.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	32.1	22.9	9.2	0.0
85°	68.8	45.9	22.9	0.0
82.5°	100.9	64.2	32.1	0.0
80°	133.1	87.2	41.3	0.0
77.5°	169.8	110.1	55.1	0.0
75°	201.9	128.5	64.2	0.0
72.5°	234.0	151.4	73.4	0.0
70°	261.5	169.8	82.6	0.0
67.5°	289.0	192.7	96.3	0.0
65°	312.0	211.1	105.5	0.0
62.5°	330.3	234.0	114.7	0.0
60°	353.3	252.3	123.9	0.0
57.5°	371.6	266.1	133.1	0.0
55°	390.0	275.3	142.2	0.0
52.5°	408.3	289.0	151.4	0.0
50°	426.7	302.8	160.6	0.0
47.5°	445.0	312.0	165.2	0.0
45°	472.6	325.8	174.3	0.0
42.5°	495.5	334.9	183.5	0.0
40°	518.5	344.1	188.1	0.0
37.5°	541.4	353.3	197.3	0.0
35°	564.3	362.5	201.9	0.0
32.5°	582.7	371.6	206.5	0.0
30°	601.0	380.8	211.1	0.0
27.5°	619.4	385.4	215.6	0.0
25°	633.2	394.6	220.2	0.0
22.5°	646.9	399.2	224.8	0.0
20°	656.1	403.8	229.4	0.0
17.5°	669.9	408.3	234.0	0.0
15°	674.4	412.9	243.2	0.0
12.5°	683.6	417.5	243.2	0.0
10°	688.2	422.1	243.2	0.0
7.5°	697.4	422.1	243.2	0.0
5°	692.8	422.1	243.2	0.0
2.5°	692.8	422.1	243.2	0.0
0°	688.2	422.1	243.2	0.0

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