

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: P628172

Luminaire Tested: **IFLD-L-SA7C-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628172
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-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

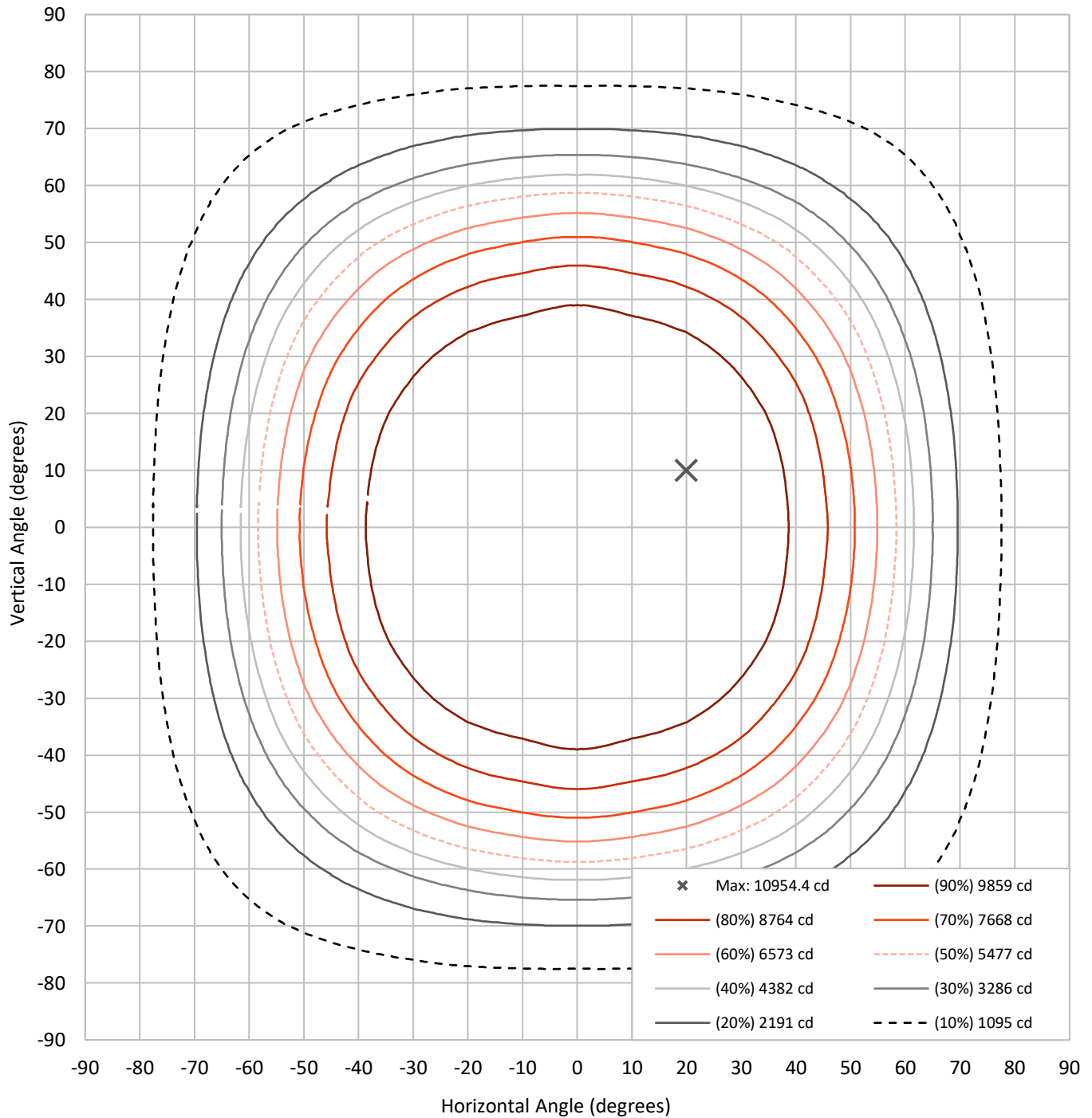
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33606.7 lumens	Max Intensity:	10954.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	91.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20621.7 lumens	Field Lumens:	24722 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 369
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



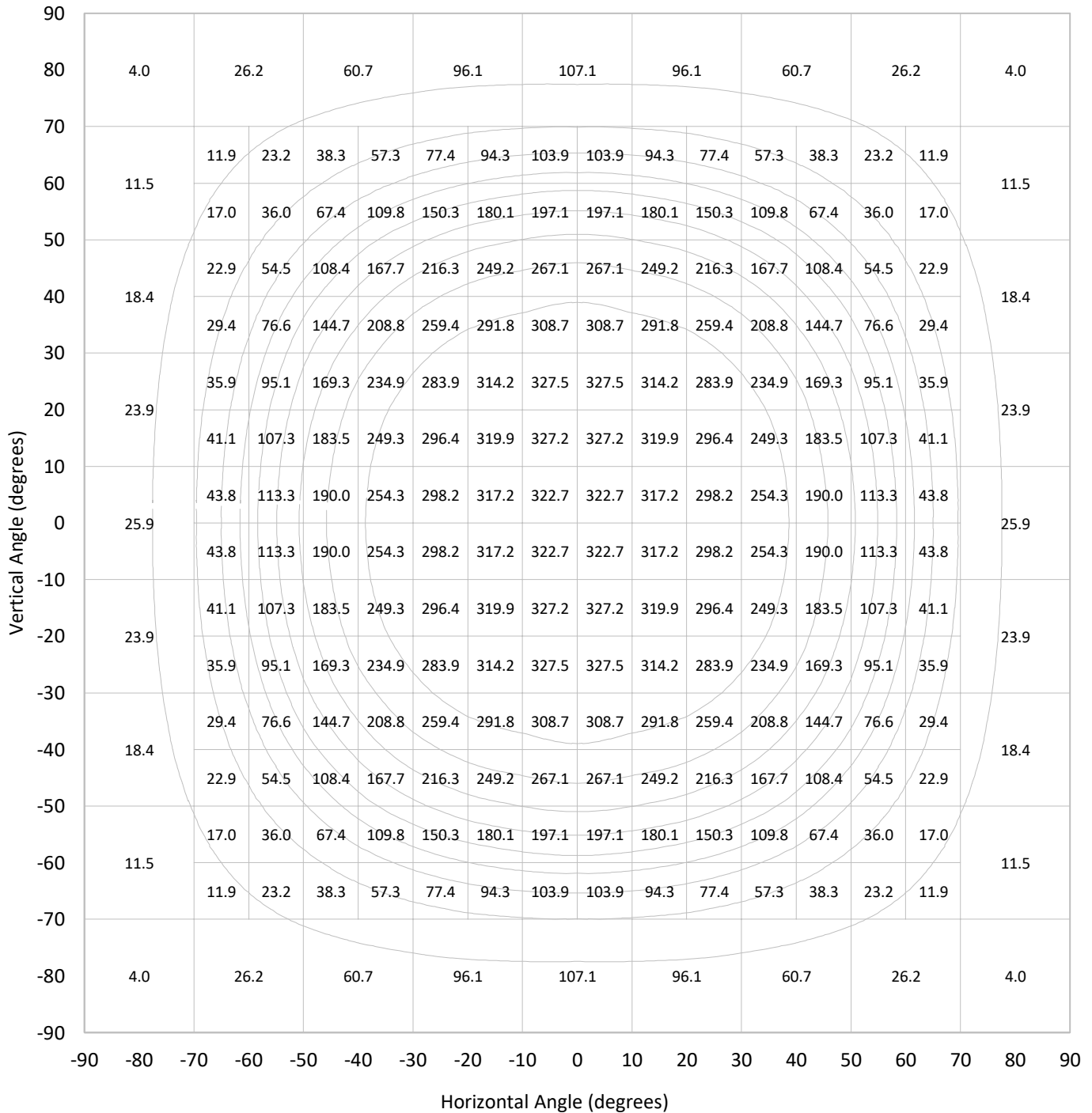
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Iso-Candela Plot



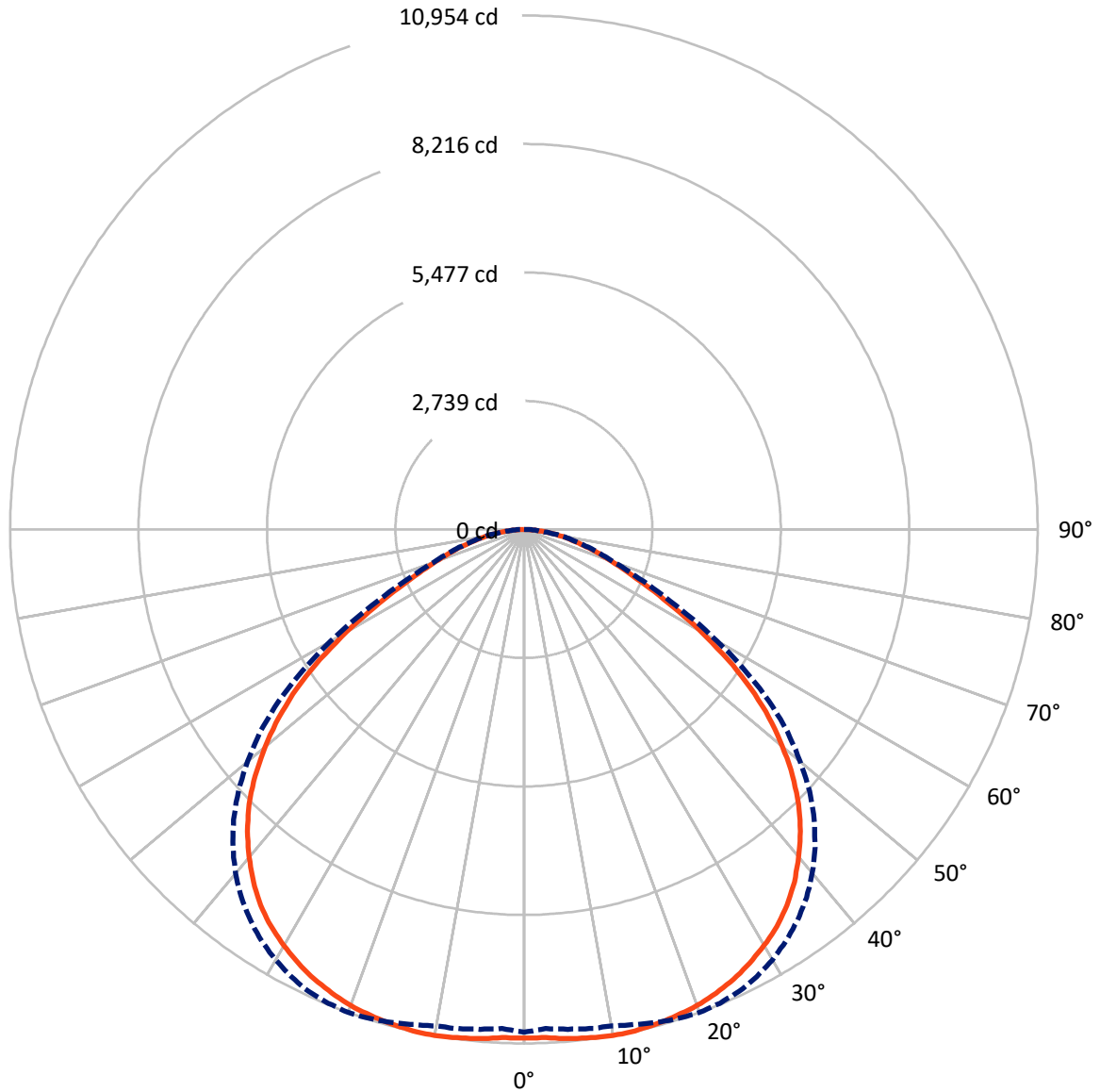
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Lumen Table



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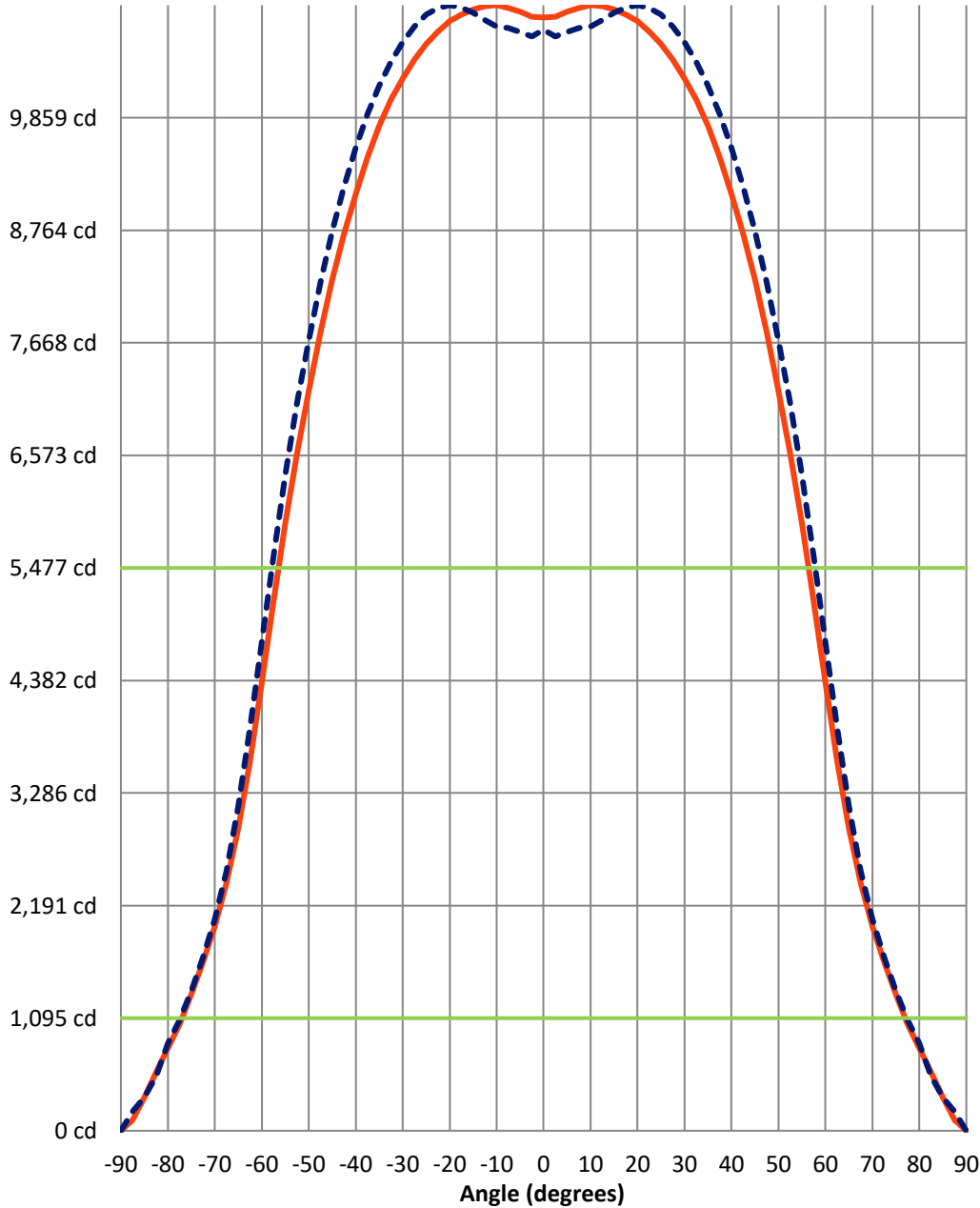
Luminous Intensity Polar Plot



— 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: 20621.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 24722
 Efficiency: 73.6%

Spill:
 Lumens: 8884.7
 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°	88.4	95.5	99.0	102.5	106.1	109.6	113.2	109.6	106.1	106.1	102.5
85°	236.9	244.0	247.5	272.3	297.0	311.2	328.8	325.3	325.3	321.8	318.2
82.5°	473.8	495.0	512.7	537.5	551.6	572.8	587.0	576.4	569.3	555.1	544.5
80°	841.6	848.6	852.2	855.7	838.0	834.5	827.4	816.8	802.7	785.0	767.3
77.5°	1071.4	1078.5	1085.5	1078.5	1074.9	1071.4	1060.8	1050.2	1036.0	1021.9	1000.7
75°	1417.9	1417.9	1417.9	1407.3	1400.2	1389.6	1372.0	1354.3	1329.5	1301.2	1269.4
72.5°	1785.7	1782.1	1778.6	1757.4	1739.7	1718.5	1693.7	1672.5	1644.2	1612.4	1570.0
70°	2171.1	2178.2	2181.7	2153.4	2132.2	2103.9	2072.1	2033.2	1990.7	1944.8	1884.7
67.5°	2701.5	2694.4	2687.3	2648.4	2620.1	2581.3	2535.3	2478.7	2415.1	2344.3	2259.5
65°	3359.2	3369.8	3348.6	3309.7	3256.6	3193.0	3122.3	3040.9	2945.5	2839.4	2719.2
62.5°	4154.8	4172.4	4147.7	4098.2	4031.0	3946.1	3847.1	3730.4	3599.6	3451.1	3302.6
60°	5060.0	5056.4	5010.5	4943.3	4854.9	4748.8	4639.2	4511.9	4363.4	4190.1	4009.8
57.5°	5890.9	5883.8	5827.3	5760.1	5671.7	5558.5	5441.8	5307.5	5151.9	4968.0	4759.4
55°	6637.0	6629.9	6573.4	6502.6	6410.7	6297.6	6191.5	6064.2	5912.1	5717.7	5494.9
52.5°	7298.2	7301.8	7252.3	7174.5	7075.5	6965.9	6863.3	6736.0	6591.0	6396.6	6180.9
50°	7906.4	7902.9	7849.8	7779.1	7687.2	7581.1	7478.6	7351.3	7199.2	7011.8	6803.2
47.5°	8472.2	8465.1	8405.0	8327.2	8231.7	8139.8	8044.3	7931.2	7772.1	7584.6	7376.0
45°	8946.0	8931.8	8871.7	8797.5	8705.5	8624.2	8539.4	8454.5	8284.8	8111.5	7913.5
42.5°	9352.6	9349.1	9289.0	9214.7	9122.8	9052.1	8974.3	8868.2	8726.8	8567.6	8373.2
40°	9741.6	9713.3	9653.2	9582.5	9497.6	9437.5	9359.7	9253.6	9115.7	8960.1	8772.7
37.5°	10031.5	10035.1	9971.4	9893.6	9819.4	9762.8	9692.1	9593.1	9472.8	9320.8	9133.4
35°	10307.3	10289.7	10236.6	10169.4	10102.3	10038.6	9964.3	9879.5	9780.5	9639.0	9462.2
32.5°	10487.7	10512.4	10448.8	10378.1	10339.2	10289.7	10211.9	10123.5	10035.1	9893.6	9734.5
30°	10685.7	10664.5	10615.0	10554.9	10526.6	10494.7	10427.6	10342.7	10240.2	10112.9	9964.3
27.5°	10823.6	10813.0	10752.9	10696.3	10682.1	10653.9	10600.8	10526.6	10424.0	10300.3	10162.4
25°	10883.7	10890.8	10834.2	10802.4	10802.4	10784.7	10742.3	10678.6	10576.1	10462.9	10328.6
22.5°	10912.0	10904.9	10866.0	10858.9	10876.6	10862.5	10844.8	10788.2	10696.3	10604.4	10491.2
20°	10929.7	10880.2	10844.8	10873.1	10894.3	10890.8	10876.6	10841.3	10798.8	10721.0	10622.0
17.5°	10890.8	10858.9	10816.5	10858.9	10904.9	10908.5	10894.3	10873.1	10862.5	10813.0	10724.6
15°	10795.3	10770.5	10777.6	10820.1	10873.1	10890.8	10901.4	10926.1	10912.0	10873.1	10795.3
12.5°	10731.7	10699.8	10731.7	10774.1	10802.4	10813.0	10897.8	10943.8	10943.8	10908.5	10858.9
10°	10714.0	10650.3	10692.8	10731.7	10745.8	10809.4	10880.2	10929.7	10954.4	10926.1	10862.5
7.5°	10678.6	10636.2	10653.9	10671.5	10752.9	10798.8	10837.7	10890.8	10926.1	10922.6	10866.0
5°	10660.9	10607.9	10615.0	10689.2	10745.8	10777.6	10791.8	10837.7	10890.8	10901.4	10858.9
2.5°	10615.0	10590.2	10643.3	10650.3	10692.8	10717.5	10731.7	10774.1	10841.3	10866.0	10848.3
0°	10590.2	10554.9	10519.5	10547.8	10618.5	10671.5	10692.8	10756.4	10834.2	10858.9	10820.1



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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°	99.0	95.5	91.9	88.4	91.9	91.9	91.9	88.4	91.9	88.4	88.4
85°	307.6	293.5	282.9	268.7	254.6	244.0	229.8	215.7	212.2	208.6	201.5
82.5°	530.4	512.7	495.0	473.8	452.6	427.9	403.1	374.8	367.7	360.7	350.1
80°	746.1	721.3	696.6	671.8	650.6	625.9	597.6	565.8	544.5	526.9	505.6
77.5°	972.4	937.0	901.7	859.2	834.5	809.7	781.4	749.6	717.8	689.5	657.7
75°	1230.5	1191.6	1156.3	1113.8	1067.9	1021.9	975.9	933.5	887.5	845.1	802.7
72.5°	1516.9	1460.4	1403.8	1350.7	1294.2	1237.6	1177.5	1120.9	1064.3	1007.7	947.6
70°	1817.5	1746.8	1676.0	1605.3	1531.1	1456.8	1386.1	1315.4	1244.7	1170.4	1103.2
67.5°	2171.1	2089.8	1997.8	1898.8	1789.2	1693.7	1601.8	1516.9	1432.1	1347.2	1262.3
65°	2613.1	2499.9	2376.2	2241.8	2114.5	1987.2	1852.8	1725.6	1626.5	1527.5	1432.1
62.5°	3157.6	2998.5	2825.2	2652.0	2496.4	2330.2	2174.6	2008.4	1852.8	1711.4	1594.7
60°	3808.2	3592.5	3380.4	3157.6	2941.9	2715.6	2517.6	2312.5	2118.0	1944.8	1775.1
57.5°	4526.0	4275.0	4020.4	3748.1	3454.6	3189.4	2920.7	2652.0	2422.1	2192.3	2001.4
55°	5254.4	4989.2	4702.8	4395.2	4073.4	3734.0	3369.8	3069.2	2754.5	2485.8	2238.3
52.5°	5947.5	5671.7	5374.7	5091.8	4706.4	4317.4	3917.8	3521.8	3154.1	2811.1	2510.5
50°	6566.3	6297.6	6011.1	5682.3	5325.2	4911.5	4465.9	4020.4	3585.5	3182.4	2807.6
47.5°	7132.0	6870.4	6584.0	6255.1	5929.8	5470.1	5021.1	4529.6	4045.1	3581.9	3143.5
45°	7662.4	7397.2	7100.2	6785.5	6410.7	6000.5	5537.3	5042.3	4522.5	4002.7	3497.1
42.5°	8143.3	7878.1	7577.6	7252.3	6881.0	6474.4	6025.3	5526.7	5003.4	4437.6	3882.5
40°	8564.1	8306.0	8016.0	7676.6	7330.1	6902.2	6460.2	5986.4	5445.4	4876.1	4264.4
37.5°	8931.8	8691.4	8405.0	8069.1	7701.3	7319.4	6863.3	6389.5	5901.5	5282.7	4656.9
35°	9257.2	9034.4	8740.9	8422.7	8062.0	7658.9	7231.0	6767.8	6241.0	5661.1	5052.9
32.5°	9540.0	9313.7	9045.0	8726.8	8376.7	7998.4	7559.9	7093.1	6594.6	6004.1	5342.8
30°	9780.5	9561.2	9306.7	9006.1	8670.2	8295.4	7867.5	7397.2	6888.1	6301.1	5646.9
27.5°	9989.1	9780.5	9533.0	9253.6	8931.8	8571.2	8139.8	7666.0	7146.2	6580.4	5926.3
25°	10169.4	9967.9	9738.0	9472.8	9154.6	8801.0	8394.4	7899.3	7379.6	6810.3	6163.2
22.5°	10332.1	10137.6	9907.8	9649.6	9359.7	9006.1	8595.9	8104.4	7577.6	7015.4	6378.9
20°	10477.1	10296.7	10070.4	9805.2	9515.3	9158.1	8751.5	8284.8	7754.4	7202.8	6573.4
17.5°	10593.8	10434.6	10208.3	9929.0	9639.0	9292.5	8896.5	8468.6	7906.4	7361.9	6736.0
15°	10675.1	10519.5	10314.4	10031.5	9748.7	9405.7	9009.6	8567.6	8044.3	7489.2	6870.4
12.5°	10731.7	10565.5	10374.5	10112.9	9830.0	9490.5	9105.1	8670.2	8161.0	7602.3	6987.1
10°	10745.8	10593.8	10402.8	10169.4	9893.6	9564.8	9186.4	8755.0	8256.5	7690.7	7082.5
7.5°	10752.9	10607.9	10434.6	10211.9	9939.6	9621.4	9246.5	8822.2	8327.2	7765.0	7153.3
5°	10749.3	10611.4	10455.8	10240.2	9967.9	9653.2	9285.4	8868.2	8376.7	7814.5	7206.3
2.5°	10738.7	10615.0	10470.0	10261.4	9999.7	9688.5	9324.3	8921.2	8429.7	7856.9	7248.7
0°	10767.0	10660.9	10477.1	10254.3	10006.8	9688.5	9320.8	8928.3	8436.8	7853.4	7245.2



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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°	88.4	84.9	84.9	81.3	77.8	74.3	67.2	63.6	56.6	46.0	35.4
85°	190.9	180.3	169.7	162.7	155.6	148.5	137.9	127.3	113.2	91.9	70.7
82.5°	335.9	314.7	293.5	268.7	247.5	226.3	208.6	190.9	169.7	137.9	106.1
80°	480.9	449.1	417.2	381.9	350.1	314.7	282.9	254.6	226.3	183.9	141.4
77.5°	625.9	583.4	537.5	495.0	449.1	403.1	357.1	318.2	275.8	226.3	176.8
75°	760.2	710.7	668.3	608.2	551.6	491.5	431.4	378.3	325.3	265.2	212.2
72.5°	894.6	831.0	770.8	714.3	650.6	576.4	509.2	442.0	374.8	304.1	240.4
70°	1029.0	951.2	876.9	809.7	739.0	664.8	583.4	505.6	424.3	339.5	265.2
67.5°	1166.9	1078.5	993.6	908.7	827.4	742.6	657.7	569.3	473.8	374.8	293.5
65°	1318.9	1209.3	1106.8	1011.3	915.8	823.9	728.4	632.9	526.9	413.7	318.2
62.5°	1471.0	1350.7	1230.5	1110.3	1004.2	901.7	799.1	693.0	576.4	456.1	343.0
60°	1633.6	1495.7	1357.8	1223.4	1092.6	979.5	866.3	753.2	629.4	495.0	367.7
57.5°	1813.9	1647.8	1492.2	1340.1	1191.6	1057.3	933.5	813.3	675.4	533.9	396.0
55°	2019.0	1813.9	1630.1	1460.4	1297.7	1135.0	1000.7	876.9	728.4	572.8	427.9
52.5°	2234.7	1997.8	1775.1	1584.1	1410.8	1227.0	1064.3	926.4	781.4	611.7	456.1
50°	2485.8	2185.2	1937.7	1704.3	1509.9	1318.9	1131.5	983.0	834.5	657.7	484.4
47.5°	2743.9	2411.5	2100.4	1845.8	1615.9	1407.3	1209.3	1032.5	884.0	700.1	512.7
45°	3044.5	2627.2	2284.2	1983.7	1718.5	1499.2	1287.1	1085.5	926.4	742.6	541.0
42.5°	3334.4	2881.8	2475.2	2135.7	1835.2	1587.6	1357.8	1142.1	968.9	785.0	565.8
40°	3677.4	3136.4	2659.0	2280.7	1951.9	1672.5	1428.5	1202.2	1007.7	823.9	590.5
37.5°	4006.2	3394.5	2881.8	2439.8	2065.0	1757.4	1499.2	1258.8	1043.1	862.8	622.3
35°	4331.6	3680.9	3094.0	2588.3	2181.7	1852.8	1570.0	1311.8	1078.5	894.6	650.6
32.5°	4642.7	3949.7	3309.7	2754.5	2309.0	1941.2	1633.6	1361.3	1113.8	922.9	678.9
30°	4932.7	4204.3	3521.8	2924.2	2425.7	2022.6	1693.7	1410.8	1156.3	947.6	707.2
27.5°	5197.9	4451.8	3734.0	3083.4	2535.3	2096.8	1757.4	1456.8	1191.6	972.4	731.9
25°	5438.3	4674.5	3928.5	3228.3	2634.3	2178.2	1817.5	1502.8	1223.4	993.6	753.2
22.5°	5664.6	4879.6	4105.3	3373.3	2754.5	2259.5	1874.1	1545.2	1255.3	1014.8	774.4
20°	5862.6	5067.0	4275.0	3518.3	2860.6	2333.7	1923.6	1584.1	1283.6	1029.0	795.6
17.5°	6021.7	5233.2	4427.0	3645.6	2952.5	2397.4	1966.0	1619.5	1308.3	1046.6	809.7
15°	6163.2	5374.7	4554.3	3755.2	3033.9	2450.4	2004.9	1647.8	1329.5	1057.3	827.4
12.5°	6283.4	5494.9	4663.9	3850.7	3104.6	2496.4	2036.7	1669.0	1347.2	1067.9	838.0
10°	6382.4	5590.4	4755.9	3924.9	3161.2	2531.8	2061.5	1690.2	1361.3	1078.5	848.6
7.5°	6456.7	5661.1	4823.1	3988.6	3207.1	2556.5	2082.7	1704.3	1375.5	1085.5	866.3
5°	6513.2	5721.2	4876.1	4031.0	3242.5	2591.9	2107.4	1722.0	1389.6	1092.6	866.3
2.5°	6555.7	5770.7	4918.5	4066.4	3270.8	2584.8	2107.4	1718.5	1389.6	1092.6	862.8
0°	6548.6	5774.2	4915.0	4066.4	3270.8	2577.7	2107.4	1714.9	1389.6	1092.6	862.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.8	17.7	7.1	0.0
85°	53.0	35.4	17.7	0.0
82.5°	77.8	49.5	24.8	0.0
80°	102.5	67.2	31.8	0.0
77.5°	130.8	84.9	42.4	0.0
75°	155.6	99.0	49.5	0.0
72.5°	180.3	116.7	56.6	0.0
70°	201.5	130.8	63.6	0.0
67.5°	222.8	148.5	74.3	0.0
65°	240.4	162.7	81.3	0.0
62.5°	254.6	180.3	88.4	0.0
60°	272.3	194.5	95.5	0.0
57.5°	286.4	205.1	102.5	0.0
55°	300.6	212.2	109.6	0.0
52.5°	314.7	222.8	116.7	0.0
50°	328.8	233.4	123.8	0.0
47.5°	343.0	240.4	127.3	0.0
45°	364.2	251.1	134.4	0.0
42.5°	381.9	258.1	141.4	0.0
40°	399.6	265.2	145.0	0.0
37.5°	417.2	272.3	152.0	0.0
35°	434.9	279.3	155.6	0.0
32.5°	449.1	286.4	159.1	0.0
30°	463.2	293.5	162.7	0.0
27.5°	477.4	297.0	166.2	0.0
25°	488.0	304.1	169.7	0.0
22.5°	498.6	307.6	173.3	0.0
20°	505.6	311.2	176.8	0.0
17.5°	516.3	314.7	180.3	0.0
15°	519.8	318.2	187.4	0.0
12.5°	526.9	321.8	187.4	0.0
10°	530.4	325.3	187.4	0.0
7.5°	537.5	325.3	187.4	0.0
5°	533.9	325.3	187.4	0.0
2.5°	533.9	325.3	187.4	0.0
0°	530.4	325.3	187.4	0.0

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