

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: P628423

Luminaire Tested: **IFLD-S-SA6C-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628423
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

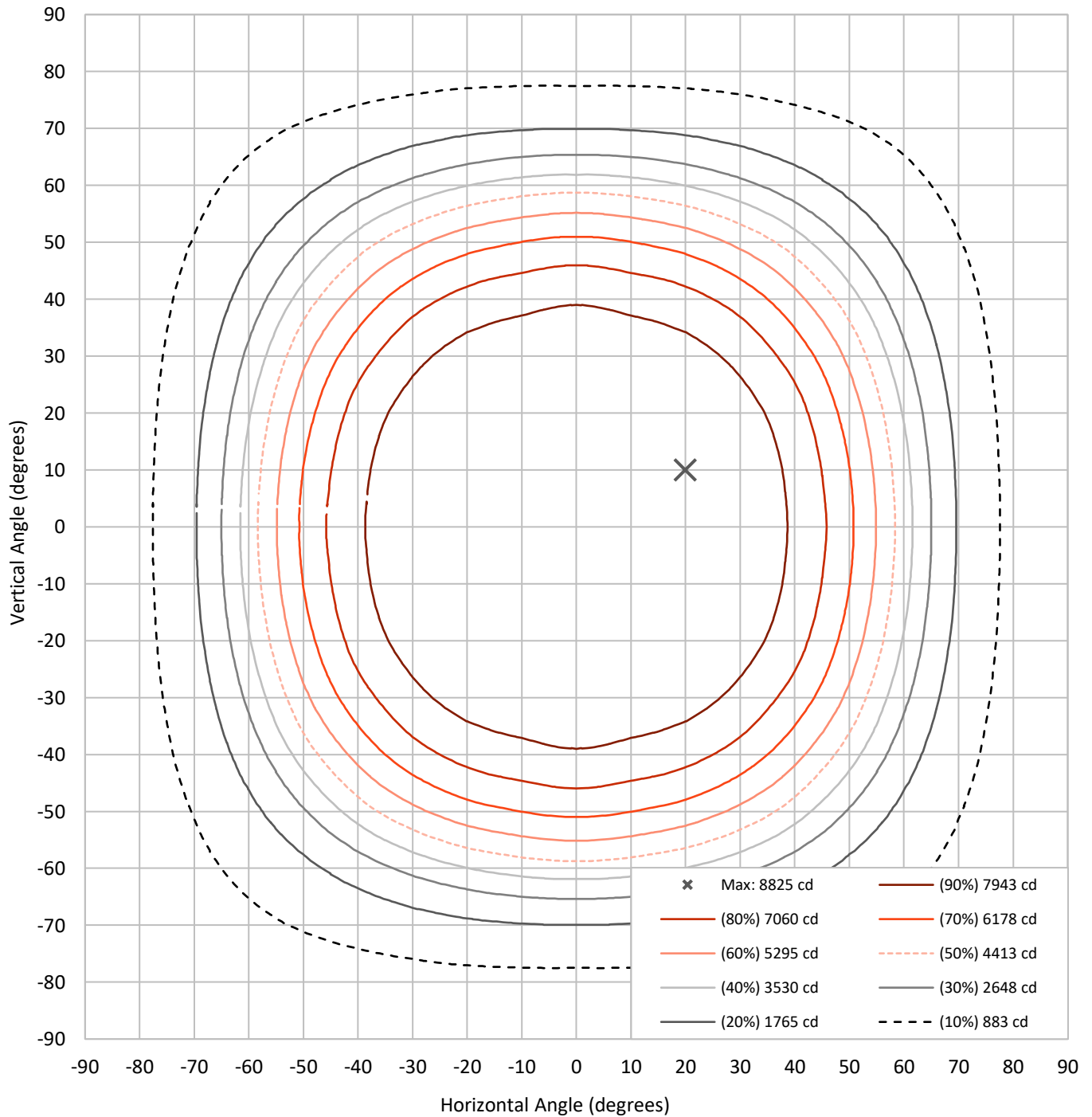
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27073.8 lumens	Max Intensity:	8825 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	84.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	16613.1 lumens	Field Lumens:	19916.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	321.5		
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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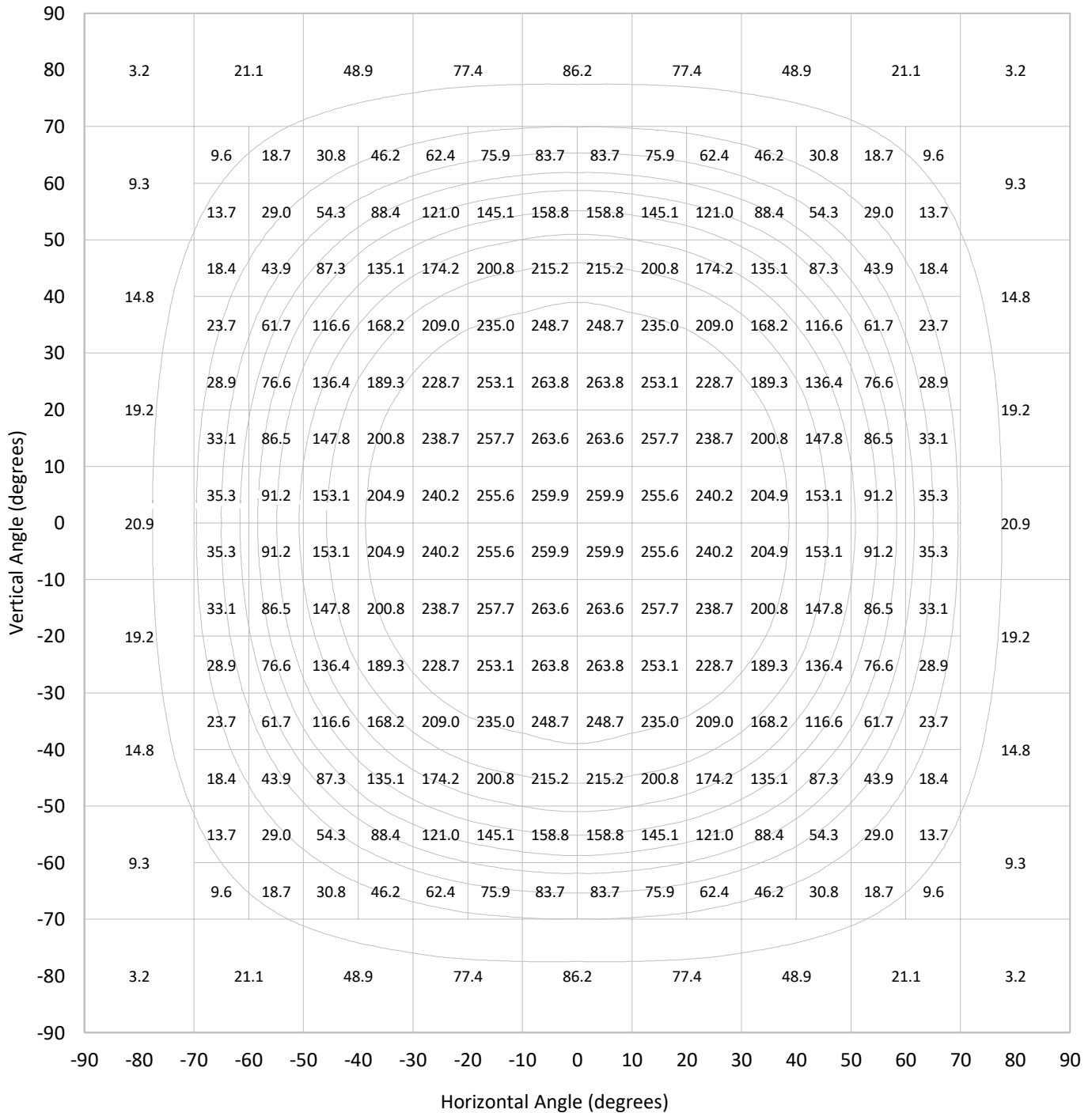
Iso-Candela Plot





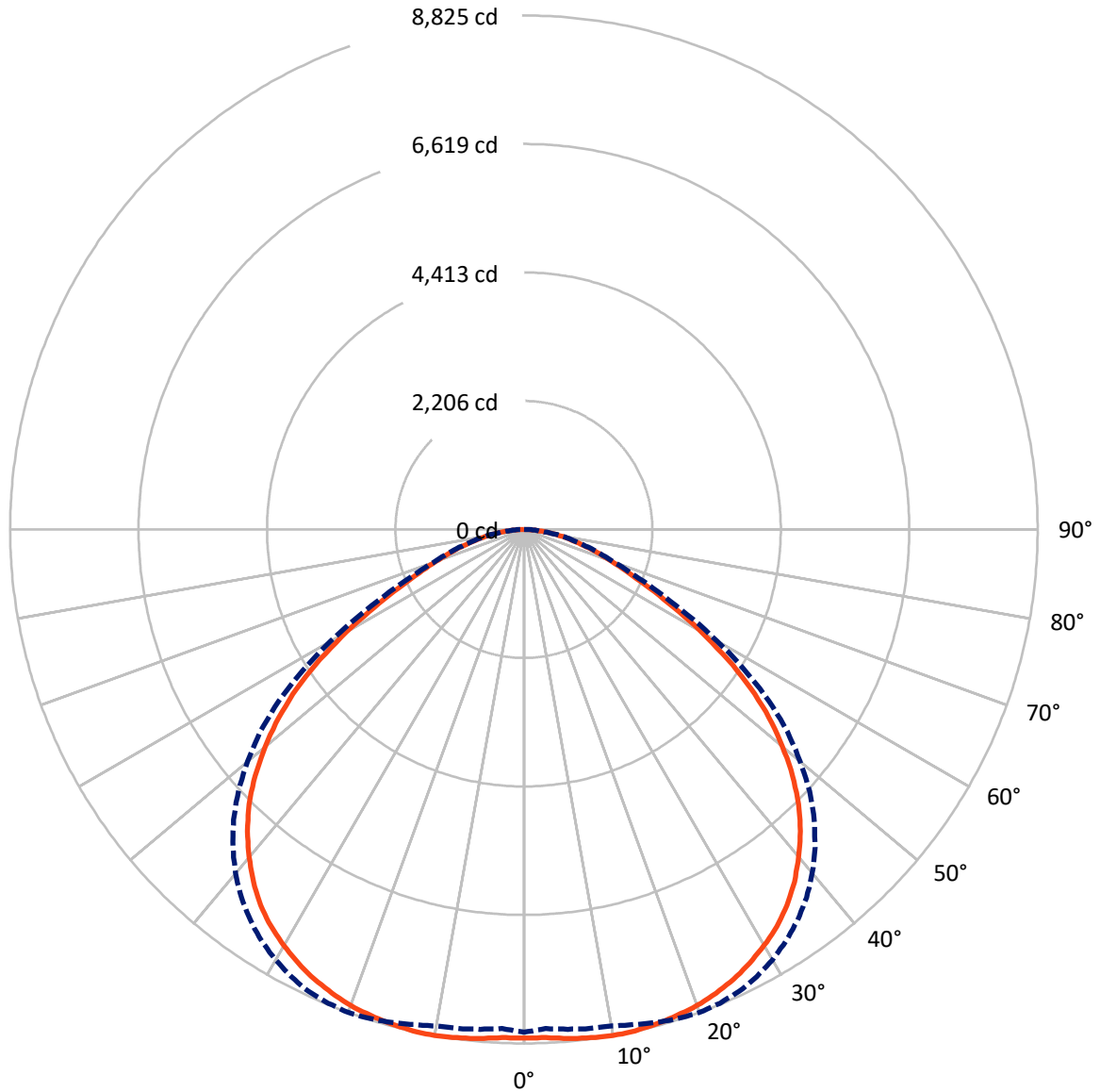
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Lumen Table



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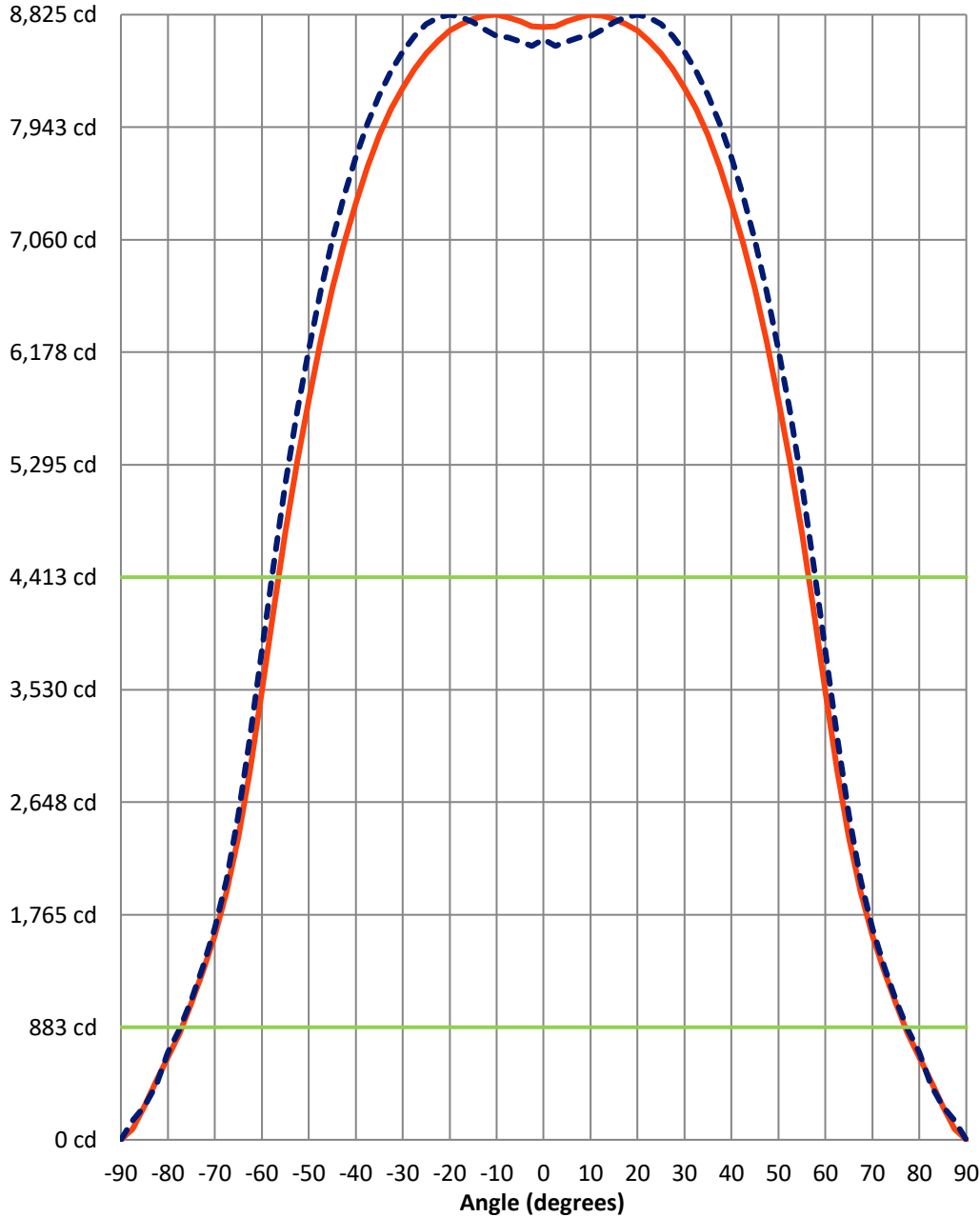
Luminous Intensity Polar Plot



— 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: 16613.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 19916.2
 Efficiency: 73.6%

Spill:
 Lumens: 7157.6
 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°	71.2	76.9	79.8	82.6	85.5	88.3	91.2	88.3	85.5	85.5	82.6
85°	190.9	196.6	199.4	219.3	239.3	250.7	264.9	262.1	262.1	259.2	256.4
82.5°	381.7	398.8	413.0	433.0	444.4	461.5	472.9	464.3	458.6	447.2	438.7
80°	678.0	683.7	686.5	689.4	675.1	672.3	666.6	658.0	646.6	632.4	618.1
77.5°	863.1	868.8	874.5	868.8	866.0	863.1	854.6	846.0	834.6	823.2	806.2
75°	1142.3	1142.3	1142.3	1133.7	1128.0	1119.5	1105.3	1091.0	1071.1	1048.3	1022.6
72.5°	1438.5	1435.7	1432.8	1415.8	1401.5	1384.4	1364.5	1347.4	1324.6	1299.0	1264.8
70°	1749.0	1754.7	1757.6	1734.8	1717.7	1694.9	1669.3	1637.9	1603.8	1566.7	1518.3
67.5°	2176.3	2170.6	2164.9	2133.6	2110.8	2079.5	2042.5	1996.9	1945.6	1888.6	1820.3
65°	2706.2	2714.7	2697.6	2666.3	2623.6	2572.3	2515.3	2449.8	2372.9	2287.4	2190.6
62.5°	3347.1	3361.4	3341.4	3301.5	3247.4	3179.0	3099.3	3005.3	2899.9	2780.2	2660.6
60°	4076.4	4073.5	4036.5	3982.4	3911.1	3825.7	3737.4	3634.8	3515.2	3375.6	3230.3
57.5°	4745.8	4740.1	4694.5	4640.4	4569.2	4478.0	4384.0	4275.8	4150.4	4002.3	3834.2
55°	5346.8	5341.1	5295.6	5238.6	5164.5	5073.4	4987.9	4885.4	4762.9	4606.2	4426.7
52.5°	5879.5	5882.4	5842.5	5779.8	5700.1	5611.8	5529.1	5426.6	5309.8	5153.1	4979.4
50°	6369.5	6366.6	6323.9	6266.9	6192.9	6107.4	6024.8	5922.3	5799.8	5648.8	5480.7
47.5°	6825.3	6819.6	6771.1	6708.5	6631.6	6557.5	6480.6	6389.4	6261.2	6110.3	5942.2
45°	7207.0	7195.6	7147.2	7087.3	7013.3	6947.8	6879.4	6811.0	6674.3	6534.7	6375.2
42.5°	7534.6	7531.7	7483.3	7423.5	7349.4	7292.4	7229.8	7144.3	7030.4	6902.2	6745.5
40°	7847.9	7825.1	7776.7	7719.7	7651.4	7602.9	7540.3	7454.8	7343.7	7218.4	7067.4
37.5°	8081.5	8084.3	8033.1	7970.4	7910.6	7865.0	7808.0	7728.3	7631.4	7508.9	7358.0
35°	8303.7	8289.4	8246.7	8192.6	8138.5	8087.2	8027.4	7959.0	7879.2	7765.3	7622.9
32.5°	8449.0	8468.9	8417.6	8360.7	8329.3	8289.4	8226.8	8155.6	8084.3	7970.4	7842.2
30°	8608.5	8591.4	8551.5	8503.1	8480.3	8454.7	8400.5	8332.2	8249.6	8147.0	8027.4
27.5°	8719.6	8711.0	8662.6	8617.0	8605.6	8582.9	8540.1	8480.3	8397.7	8298.0	8186.9
25°	8768.0	8773.7	8728.1	8702.5	8702.5	8688.2	8654.1	8602.8	8520.2	8429.0	8320.8
22.5°	8790.8	8785.1	8753.8	8748.1	8762.3	8750.9	8736.7	8691.1	8617.0	8543.0	8451.8
20°	8805.0	8765.2	8736.7	8759.5	8776.6	8773.7	8762.3	8733.8	8699.6	8637.0	8557.2
17.5°	8773.7	8748.1	8713.9	8748.1	8785.1	8788.0	8776.6	8759.5	8750.9	8711.0	8639.8
15°	8696.8	8676.9	8682.6	8716.7	8759.5	8773.7	8782.3	8802.2	8790.8	8759.5	8696.8
12.5°	8645.5	8619.9	8645.5	8679.7	8702.5	8711.0	8779.4	8816.4	8816.4	8788.0	8748.1
10°	8631.3	8580.0	8614.2	8645.5	8656.9	8708.2	8765.2	8805.0	8825.0	8802.2	8750.9
7.5°	8602.8	8568.6	8582.9	8597.1	8662.6	8699.6	8731.0	8773.7	8802.2	8799.3	8753.8
5°	8588.5	8545.8	8551.5	8611.3	8656.9	8682.6	8693.9	8731.0	8773.7	8782.3	8748.1
2.5°	8551.5	8531.6	8574.3	8580.0	8614.2	8634.1	8645.5	8679.7	8733.8	8753.8	8739.5
0°	8531.6	8503.1	8474.6	8497.4	8554.4	8597.1	8614.2	8665.5	8728.1	8748.1	8716.7



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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°	79.8	76.9	74.1	71.2	74.1	74.1	74.1	71.2	74.1	71.2	71.2
85°	247.8	236.4	227.9	216.5	205.1	196.6	185.2	173.8	170.9	168.1	162.4
82.5°	427.3	413.0	398.8	381.7	364.6	344.7	324.7	302.0	296.3	290.6	282.0
80°	601.1	581.1	561.2	541.2	524.1	504.2	481.4	455.8	438.7	424.4	407.4
77.5°	783.4	754.9	726.4	692.2	672.3	652.3	629.5	603.9	578.3	555.5	529.8
75°	991.3	960.0	931.5	897.3	860.3	823.2	786.2	752.0	715.0	680.8	646.6
72.5°	1222.1	1176.5	1130.9	1088.2	1042.6	997.0	948.6	903.0	857.4	811.9	763.4
70°	1464.2	1407.2	1350.2	1293.3	1233.4	1173.6	1116.7	1059.7	1002.7	942.9	888.8
67.5°	1749.0	1683.5	1609.5	1529.7	1441.4	1364.5	1290.4	1222.1	1153.7	1085.3	1017.0
65°	2105.1	2014.0	1914.3	1806.0	1703.5	1600.9	1492.7	1390.1	1310.4	1230.6	1153.7
62.5°	2543.8	2415.6	2276.0	2136.5	2011.1	1877.2	1751.9	1618.0	1492.7	1378.7	1284.7
60°	3067.9	2894.2	2723.3	2543.8	2370.0	2187.7	2028.2	1863.0	1706.3	1566.7	1430.0
57.5°	3646.2	3444.0	3238.9	3019.5	2783.1	2569.4	2352.9	2136.5	1951.3	1766.1	1612.3
55°	4233.0	4019.4	3788.6	3540.8	3281.6	3008.1	2714.7	2472.6	2219.1	2002.6	1803.2
52.5°	4791.4	4569.2	4329.9	4102.0	3791.5	3478.1	3156.3	2837.2	2541.0	2264.6	2022.5
50°	5289.9	5073.4	4842.6	4577.7	4290.0	3956.7	3597.8	3238.9	2888.5	2563.7	2261.8
47.5°	5745.6	5534.8	5304.1	5039.2	4777.1	4406.8	4045.0	3649.1	3258.8	2885.6	2532.4
45°	6172.9	5959.3	5720.0	5466.5	5164.5	4834.1	4460.9	4062.1	3643.4	3224.6	2817.3
42.5°	6560.3	6346.7	6104.6	5842.5	5543.4	5215.8	4854.0	4452.4	4030.8	3575.0	3127.8
40°	6899.3	6691.4	6457.8	6184.3	5905.2	5560.5	5204.4	4822.7	4386.9	3928.2	3435.4
37.5°	7195.6	7001.9	6771.1	6500.5	6204.3	5896.6	5529.1	5147.4	4754.3	4255.8	3751.6
35°	7457.7	7278.2	7041.8	6785.4	6494.8	6170.1	5825.4	5452.2	5027.8	4560.6	4070.7
32.5°	7685.5	7503.2	7286.7	7030.4	6748.3	6443.5	6090.3	5714.3	5312.7	4836.9	4304.2
30°	7879.2	7702.6	7497.5	7255.4	6984.8	6682.8	6338.1	5959.3	5549.1	5076.2	4549.2
27.5°	8047.3	7879.2	7679.8	7454.8	7195.6	6905.0	6557.5	6175.8	5757.0	5301.3	4774.3
25°	8192.6	8030.2	7845.1	7631.4	7375.0	7090.2	6762.6	6363.8	5945.0	5486.4	4965.1
22.5°	8323.6	8167.0	7981.8	7773.8	7540.3	7255.4	6925.0	6529.0	6104.6	5651.6	5138.9
20°	8440.4	8295.1	8112.8	7899.2	7665.6	7377.9	7050.3	6674.3	6247.0	5802.6	5295.6
17.5°	8534.4	8406.2	8223.9	7998.9	7765.3	7486.1	7167.1	6822.4	6369.5	5930.8	5426.6
15°	8599.9	8474.6	8309.4	8081.5	7853.6	7577.3	7258.2	6902.2	6480.6	6033.3	5534.8
12.5°	8645.5	8511.6	8357.8	8147.0	7919.1	7645.7	7335.2	6984.8	6574.6	6124.5	5628.8
10°	8656.9	8534.4	8380.6	8192.6	7970.4	7705.5	7400.7	7053.1	6651.5	6195.7	5705.8
7.5°	8662.6	8545.8	8406.2	8226.8	8007.4	7751.1	7449.1	7107.3	6708.5	6255.5	5762.7
5°	8659.8	8548.7	8423.3	8249.6	8030.2	7776.7	7480.4	7144.3	6748.3	6295.4	5805.5
2.5°	8651.2	8551.5	8434.7	8266.7	8055.9	7805.2	7511.8	7187.0	6791.1	6329.6	5839.6
0°	8674.0	8588.5	8440.4	8261.0	8061.6	7805.2	7508.9	7192.7	6796.8	6326.8	5836.8



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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°	71.2	68.4	68.4	65.5	62.7	59.8	54.1	51.3	45.6	37.0	28.5
85°	153.8	145.3	136.7	131.0	125.3	119.6	111.1	102.5	91.2	74.1	57.0
82.5°	270.6	253.5	236.4	216.5	199.4	182.3	168.1	153.8	136.7	111.1	85.5
80°	387.4	361.8	336.1	307.6	282.0	253.5	227.9	205.1	182.3	148.1	113.9
77.5°	504.2	470.0	433.0	398.8	361.8	324.7	287.7	256.4	222.2	182.3	142.4
75°	612.5	572.6	538.4	490.0	444.4	396.0	347.5	304.8	262.1	213.6	170.9
72.5°	720.7	669.4	621.0	575.4	524.1	464.3	410.2	356.1	302.0	245.0	193.7
70°	828.9	766.3	706.5	652.3	595.4	535.5	470.0	407.4	341.8	273.5	213.6
67.5°	940.0	868.8	800.5	732.1	666.6	598.2	529.8	458.6	381.7	302.0	236.4
65°	1062.5	974.2	891.6	814.7	737.8	663.7	586.8	509.9	424.4	333.3	256.4
62.5°	1185.0	1088.2	991.3	894.5	809.0	726.4	643.8	558.3	464.3	367.5	276.3
60°	1316.1	1205.0	1093.9	985.6	880.2	789.1	697.9	606.8	507.1	398.8	296.3
57.5°	1461.3	1327.5	1202.1	1079.6	960.0	851.7	752.0	655.2	544.1	430.1	319.0
55°	1626.6	1461.3	1313.2	1176.5	1045.4	914.4	806.2	706.5	586.8	461.5	344.7
52.5°	1800.3	1609.5	1430.0	1276.2	1136.6	988.5	857.4	746.3	629.5	492.8	367.5
50°	2002.6	1760.4	1561.0	1373.0	1216.4	1062.5	911.6	791.9	672.3	529.8	390.3
47.5°	2210.5	1942.7	1692.1	1487.0	1301.8	1133.7	974.2	831.8	712.2	564.0	413.0
45°	2452.7	2116.5	1840.2	1598.1	1384.4	1207.8	1036.9	874.5	746.3	598.2	435.8
42.5°	2686.2	2321.6	1994.0	1720.6	1478.4	1279.0	1093.9	920.1	780.5	632.4	455.8
40°	2962.6	2526.7	2142.2	1837.4	1572.4	1347.4	1150.8	968.5	811.9	663.7	475.7
37.5°	3227.5	2734.7	2321.6	1965.5	1663.6	1415.8	1207.8	1014.1	840.3	695.1	501.4
35°	3489.5	2965.4	2492.5	2085.2	1757.6	1492.7	1264.8	1056.8	868.8	720.7	524.1
32.5°	3740.2	3181.9	2666.3	2219.1	1860.1	1563.9	1316.1	1096.7	897.3	743.5	546.9
30°	3973.8	3387.0	2837.2	2355.8	1954.1	1629.4	1364.5	1136.6	931.5	763.4	569.7
27.5°	4187.5	3586.4	3008.1	2484.0	2042.5	1689.2	1415.8	1173.6	960.0	783.4	589.7
25°	4381.2	3765.9	3164.8	2600.8	2122.2	1754.7	1464.2	1210.7	985.6	800.5	606.8
22.5°	4563.5	3931.1	3307.2	2717.6	2219.1	1820.3	1509.8	1244.8	1011.3	817.6	623.8
20°	4723.0	4082.1	3444.0	2834.4	2304.5	1880.1	1549.6	1276.2	1034.0	828.9	640.9
17.5°	4851.2	4215.9	3566.5	2936.9	2378.6	1931.4	1583.8	1304.7	1054.0	843.2	652.3
15°	4965.1	4329.9	3669.0	3025.2	2444.1	1974.1	1615.2	1327.5	1071.1	851.7	666.6
12.5°	5062.0	4426.7	3757.3	3102.1	2501.1	2011.1	1640.8	1344.5	1085.3	860.3	675.1
10°	5141.7	4503.6	3831.4	3162.0	2546.7	2039.6	1660.7	1361.6	1096.7	868.8	683.7
7.5°	5201.6	4560.6	3885.5	3213.2	2583.7	2059.5	1677.8	1373.0	1108.1	874.5	697.9
5°	5247.1	4609.0	3928.2	3247.4	2612.2	2088.0	1697.8	1387.3	1119.5	880.2	697.9
2.5°	5281.3	4648.9	3962.4	3275.9	2635.0	2082.3	1697.8	1384.4	1119.5	880.2	695.1
0°	5275.6	4651.8	3959.6	3275.9	2635.0	2076.6	1697.8	1381.6	1119.5	880.2	695.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.9	14.2	5.7	0.0
85°	42.7	28.5	14.2	0.0
82.5°	62.7	39.9	19.9	0.0
80°	82.6	54.1	25.6	0.0
77.5°	105.4	68.4	34.2	0.0
75°	125.3	79.8	39.9	0.0
72.5°	145.3	94.0	45.6	0.0
70°	162.4	105.4	51.3	0.0
67.5°	179.5	119.6	59.8	0.0
65°	193.7	131.0	65.5	0.0
62.5°	205.1	145.3	71.2	0.0
60°	219.3	156.7	76.9	0.0
57.5°	230.7	165.2	82.6	0.0
55°	242.1	170.9	88.3	0.0
52.5°	253.5	179.5	94.0	0.0
50°	264.9	188.0	99.7	0.0
47.5°	276.3	193.7	102.5	0.0
45°	293.4	202.3	108.2	0.0
42.5°	307.6	207.9	113.9	0.0
40°	321.9	213.6	116.8	0.0
37.5°	336.1	219.3	122.5	0.0
35°	350.4	225.0	125.3	0.0
32.5°	361.8	230.7	128.2	0.0
30°	373.2	236.4	131.0	0.0
27.5°	384.6	239.3	133.9	0.0
25°	393.1	245.0	136.7	0.0
22.5°	401.7	247.8	139.6	0.0
20°	407.4	250.7	142.4	0.0
17.5°	415.9	253.5	145.3	0.0
15°	418.7	256.4	151.0	0.0
12.5°	424.4	259.2	151.0	0.0
10°	427.3	262.1	151.0	0.0
7.5°	433.0	262.1	151.0	0.0
5°	430.1	262.1	151.0	0.0
2.5°	430.1	262.1	151.0	0.0
0°	427.3	262.1	151.0	0.0

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