

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: P628424

Luminaire Tested: **IFLD-S-SA6D-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628424
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-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:	29790.9 lumens	Max Intensity:	9710.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	80.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

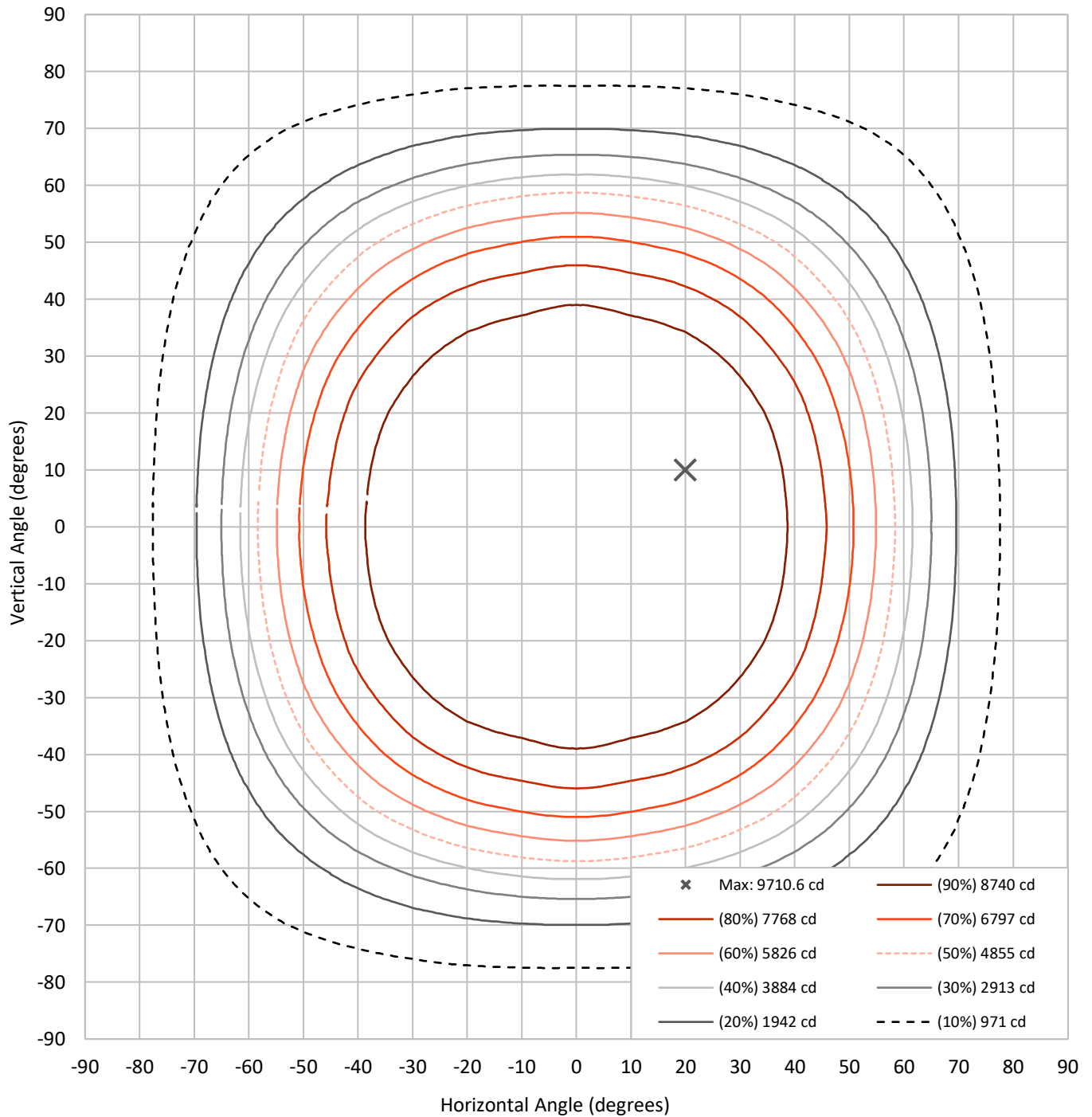
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	18280.3 lumens	Field Lumens:	21915 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 368.2
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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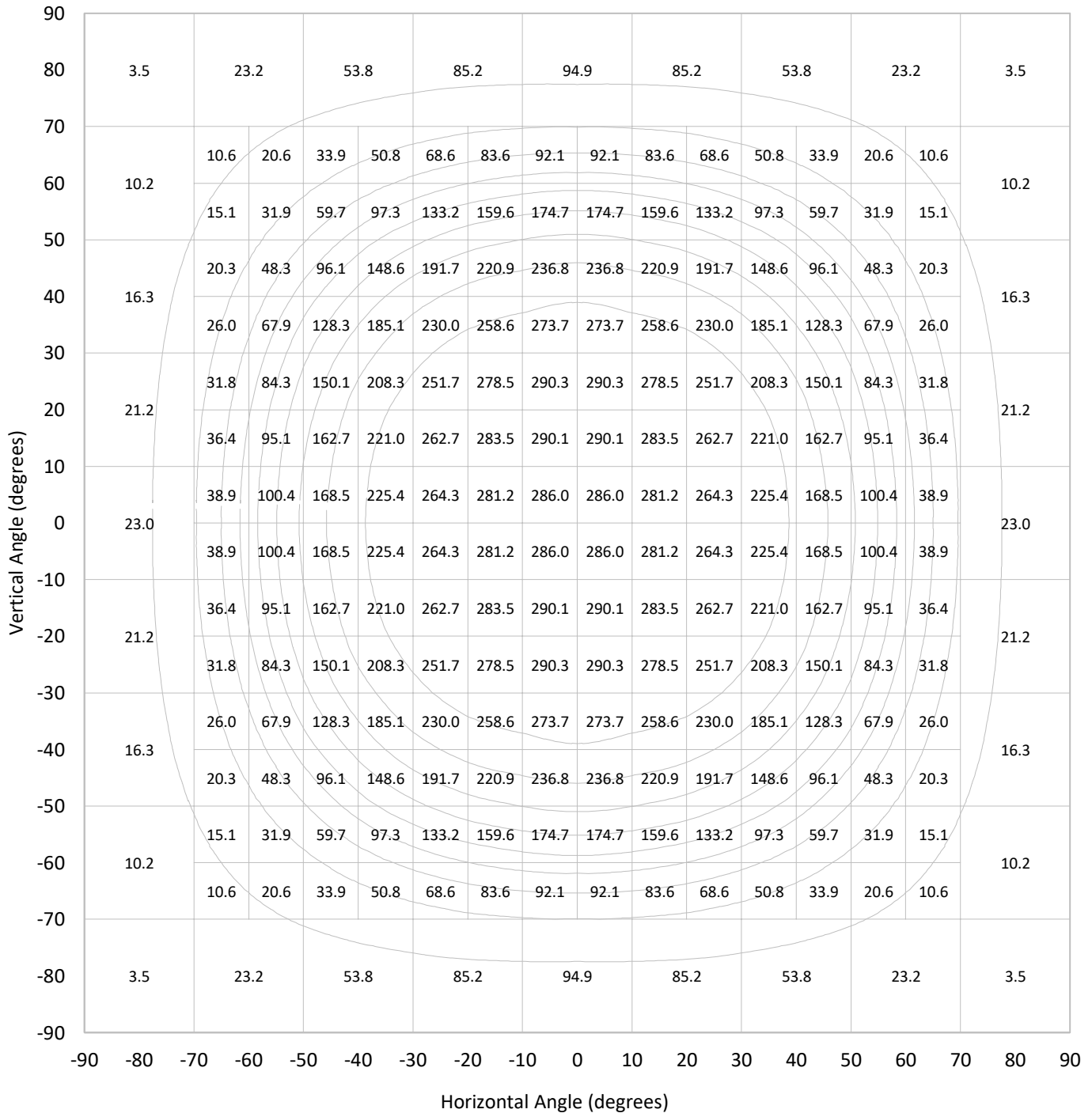
Iso-Candela Plot





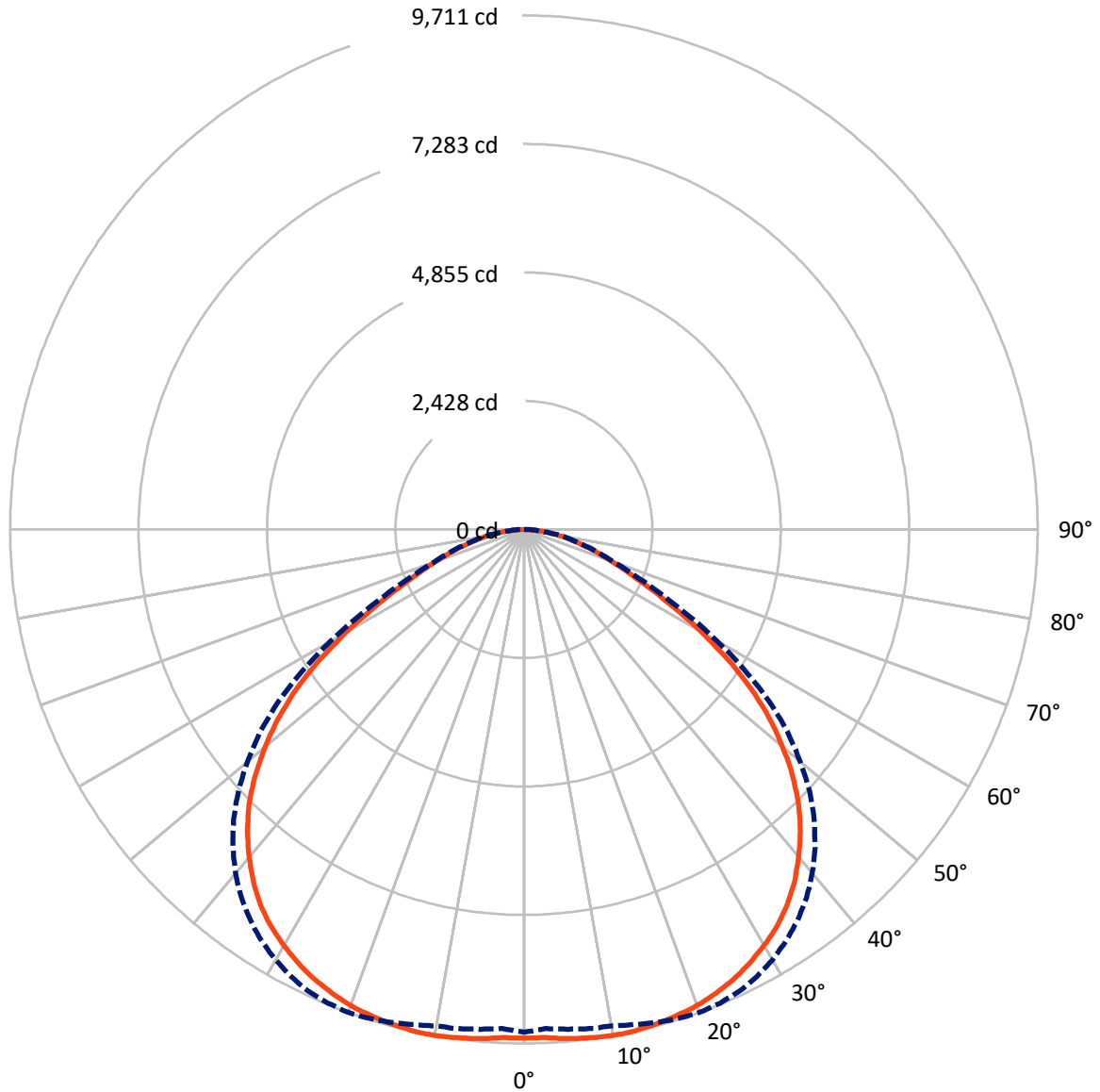
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Lumen Table



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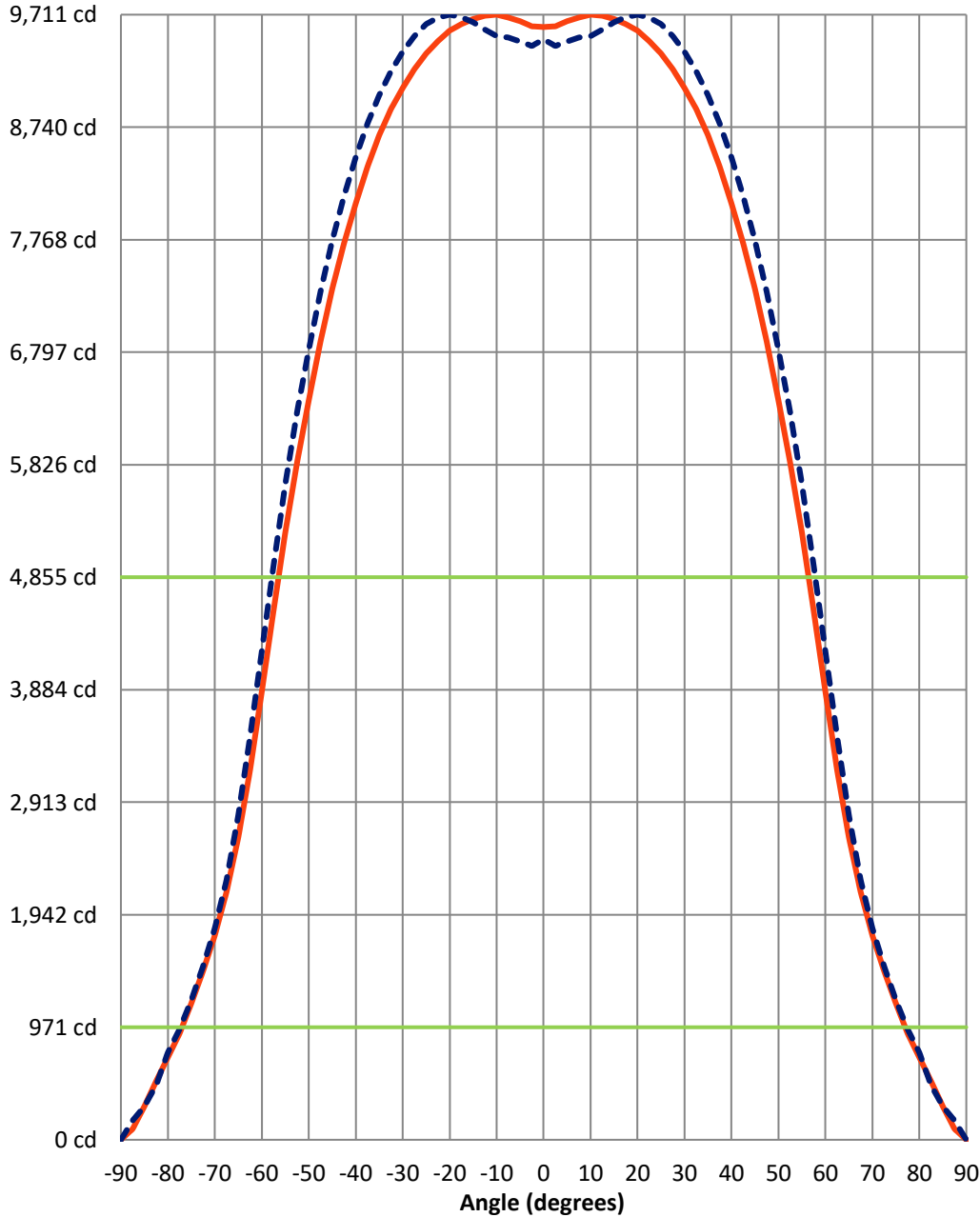
Luminous Intensity Polar Plot



— 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: 18280.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 21915
 Efficiency: 73.6%

Spill:
 Lumens: 7875.9
 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°	78.4	84.6	87.8	90.9	94.0	97.2	100.3	97.2	94.0	94.0	90.9
85°	210.0	216.3	219.4	241.4	263.3	275.8	291.5	288.4	288.4	285.2	282.1
82.5°	420.0	438.8	454.5	476.4	489.0	507.8	520.3	510.9	504.7	492.1	482.7
80°	746.0	752.3	755.4	758.5	742.9	739.7	733.5	724.1	711.5	695.9	680.2
77.5°	949.7	956.0	962.3	956.0	952.9	949.7	940.3	930.9	918.4	905.9	887.1
75°	1256.9	1256.9	1256.9	1247.5	1241.3	1231.9	1216.2	1200.5	1178.6	1153.5	1125.3
72.5°	1582.9	1579.8	1576.6	1557.8	1542.2	1523.4	1501.4	1482.6	1457.5	1429.3	1391.7
70°	1924.6	1930.8	1934.0	1908.9	1890.1	1865.0	1836.8	1802.3	1764.7	1724.0	1670.7
67.5°	2394.7	2388.5	2382.2	2347.7	2322.7	2288.2	2247.4	2197.3	2140.9	2078.2	2002.9
65°	2977.8	2987.2	2968.4	2933.9	2886.9	2830.4	2767.7	2695.7	2611.0	2517.0	2410.4
62.5°	3683.0	3698.7	3676.7	3632.9	3573.3	3498.1	3410.3	3306.9	3190.9	3059.3	2927.6
60°	4485.4	4482.3	4441.6	4382.0	4303.6	4209.6	4112.4	3999.6	3868.0	3714.4	3554.5
57.5°	5222.1	5215.8	5165.6	5106.1	5027.7	4927.4	4824.0	4704.9	4566.9	4404.0	4219.0
55°	5883.4	5877.2	5827.0	5764.3	5682.8	5582.5	5488.5	5375.6	5240.9	5068.5	4871.0
52.5°	6469.6	6472.7	6428.8	6359.9	6272.1	6174.9	6084.0	5971.2	5842.7	5670.3	5479.1
50°	7008.7	7005.6	6958.6	6895.9	6814.4	6720.3	6629.4	6516.6	6381.8	6215.7	6030.7
47.5°	7510.2	7504.0	7450.7	7381.7	7297.1	7215.6	7131.0	7030.6	6889.6	6723.5	6538.5
45°	7930.2	7917.7	7864.4	7798.6	7717.1	7645.0	7569.8	7494.6	7344.1	7190.5	7015.0
42.5°	8290.7	8287.6	8234.3	8168.5	8087.0	8024.3	7955.3	7861.3	7735.9	7594.9	7422.5
40°	8635.5	8610.4	8557.1	8494.5	8419.2	8365.9	8297.0	8202.9	8080.7	7942.8	7776.7
37.5°	8892.5	8895.7	8839.2	8770.3	8704.5	8654.3	8591.6	8503.9	8397.3	8262.5	8096.4
35°	9137.0	9121.3	9074.3	9014.8	8955.2	8898.8	8833.0	8757.7	8670.0	8544.6	8387.9
32.5°	9296.9	9318.8	9262.4	9199.7	9165.2	9121.3	9052.4	8974.0	8895.7	8770.3	8629.2
30°	9472.4	9453.6	9409.7	9356.4	9331.4	9303.1	9243.6	9168.4	9077.5	8964.6	8833.0
27.5°	9594.7	9585.3	9532.0	9481.8	9469.3	9444.2	9397.2	9331.4	9240.5	9130.8	9008.5
25°	9647.9	9654.2	9604.1	9575.8	9575.8	9560.2	9522.6	9466.1	9375.2	9274.9	9155.8
22.5°	9673.0	9666.7	9632.3	9626.0	9641.7	9629.1	9613.5	9563.3	9481.8	9400.3	9300.0
20°	9688.7	9644.8	9613.5	9638.5	9657.3	9654.2	9641.7	9610.3	9572.7	9503.8	9416.0
17.5°	9654.2	9626.0	9588.4	9626.0	9666.7	9669.9	9657.3	9638.5	9629.1	9585.3	9506.9
15°	9569.6	9547.6	9553.9	9591.5	9638.5	9654.2	9663.6	9685.6	9673.0	9638.5	9569.6
12.5°	9513.2	9484.9	9513.2	9550.8	9575.8	9585.3	9660.5	9701.2	9701.2	9669.9	9626.0
10°	9497.5	9441.1	9478.7	9513.2	9525.7	9582.1	9644.8	9688.7	9710.6	9685.6	9629.1
7.5°	9466.1	9428.5	9444.2	9459.9	9532.0	9572.7	9607.2	9654.2	9685.6	9682.4	9632.3
5°	9450.5	9403.5	9409.7	9475.5	9525.7	9553.9	9566.4	9607.2	9654.2	9663.6	9626.0
2.5°	9409.7	9387.8	9434.8	9441.1	9478.7	9500.6	9513.2	9550.8	9610.3	9632.3	9616.6
0°	9387.8	9356.4	9325.1	9350.2	9412.9	9459.9	9478.7	9535.1	9604.1	9626.0	9591.5



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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°	87.8	84.6	81.5	78.4	81.5	81.5	81.5	78.4	81.5	78.4	78.4
85°	272.7	260.2	250.8	238.2	225.7	216.3	203.7	191.2	188.1	184.9	178.7
82.5°	470.2	454.5	438.8	420.0	401.2	379.3	357.3	332.3	326.0	319.7	310.3
80°	661.4	639.4	617.5	595.6	576.7	554.8	529.7	501.5	482.7	467.0	448.2
77.5°	862.0	830.6	799.3	761.7	739.7	717.8	692.7	664.5	636.3	611.2	583.0
75°	1090.8	1056.3	1025.0	987.4	946.6	905.9	865.1	827.5	786.8	749.1	711.5
72.5°	1344.7	1294.5	1244.4	1197.4	1147.2	1097.1	1043.8	993.6	943.5	893.3	840.0
70°	1611.1	1548.4	1485.7	1423.1	1357.2	1291.4	1228.7	1166.0	1103.3	1037.5	978.0
67.5°	1924.6	1852.5	1771.0	1683.2	1586.0	1501.4	1419.9	1344.7	1269.5	1194.2	1119.0
65°	2316.4	2216.1	2106.4	1987.3	1874.4	1761.6	1642.5	1529.6	1441.9	1354.1	1269.5
62.5°	2799.1	2658.0	2504.5	2350.9	2212.9	2065.6	1927.7	1780.4	1642.5	1517.1	1413.7
60°	3375.8	3184.6	2996.6	2799.1	2607.9	2407.3	2231.8	2050.0	1877.6	1724.0	1573.5
57.5°	4012.1	3789.6	3563.9	3322.6	3062.4	2827.3	2589.1	2350.9	2147.1	1943.4	1774.1
55°	4657.8	4422.8	4168.9	3896.2	3610.9	3310.0	2987.2	2720.7	2441.8	2203.5	1984.1
52.5°	5272.2	5027.7	4764.4	4513.7	4172.0	3827.2	3473.0	3121.9	2796.0	2491.9	2225.5
50°	5820.7	5582.5	5328.6	5037.1	4720.5	4353.8	3958.9	3563.9	3178.4	2821.0	2488.8
47.5°	6322.3	6090.3	5836.4	5544.9	5256.5	4849.0	4451.0	4015.3	3585.8	3175.2	2786.6
45°	6792.4	6557.3	6294.0	6015.1	5682.8	5319.2	4908.6	4469.8	4009.0	3548.2	3100.0
42.5°	7218.7	6983.6	6717.2	6428.8	6099.7	5739.2	5341.2	4899.2	4435.3	3933.8	3441.7
40°	7591.7	7362.9	7105.9	6805.0	6497.8	6118.5	5726.7	5306.7	4827.1	4322.5	3780.2
37.5°	7917.7	7704.6	7450.7	7152.9	6826.9	6488.4	6084.0	5664.0	5231.5	4682.9	4128.1
35°	8206.1	8008.6	7748.4	7466.3	7146.6	6789.3	6410.0	5999.4	5532.4	5018.3	4479.2
32.5°	8456.8	8256.2	8018.0	7735.9	7425.6	7090.2	6701.5	6287.8	5845.8	5322.4	4736.2
30°	8670.0	8475.6	8250.0	7983.5	7685.8	7353.5	6974.2	6557.3	6106.0	5585.7	5005.8
27.5°	8854.9	8670.0	8450.6	8202.9	7917.7	7598.0	7215.6	6795.6	6334.8	5833.3	5253.4
25°	9014.8	8836.1	8632.4	8397.3	8115.2	7801.7	7441.3	7002.4	6541.7	6037.0	5463.4
22.5°	9159.0	8986.6	8782.8	8554.0	8297.0	7983.5	7619.9	7184.2	6717.2	6218.8	5654.6
20°	9287.5	9127.6	8927.0	8691.9	8434.9	8118.3	7757.8	7344.1	6873.9	6384.9	5827.0
17.5°	9390.9	9249.9	9049.3	8801.6	8544.6	8237.4	7886.4	7507.1	7008.7	6526.0	5971.2
15°	9463.0	9325.1	9143.3	8892.5	8641.8	8337.7	7986.7	7594.9	7131.0	6638.8	6090.3
12.5°	9513.2	9365.8	9196.6	8964.6	8713.9	8413.0	8071.3	7685.8	7234.4	6739.1	6193.7
10°	9525.7	9390.9	9221.7	9014.8	8770.3	8478.8	8143.4	7761.0	7319.0	6817.5	6278.4
7.5°	9532.0	9403.5	9249.9	9052.4	8811.0	8528.9	8196.7	7820.5	7381.7	6883.3	6341.1
5°	9528.8	9406.6	9268.7	9077.5	8836.1	8557.1	8231.2	7861.3	7425.6	6927.2	6388.1
2.5°	9519.4	9409.7	9281.2	9096.3	8864.3	8588.5	8265.6	7908.3	7472.6	6964.8	6425.7
0°	9544.5	9450.5	9287.5	9090.0	8870.6	8588.5	8262.5	7914.6	7478.9	6961.7	6422.6



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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°	78.4	75.2	75.2	72.1	69.0	65.8	59.6	56.4	50.2	40.7	31.3
85°	169.3	159.9	150.5	144.2	137.9	131.6	122.2	112.8	100.3	81.5	62.7
82.5°	297.8	279.0	260.2	238.2	219.4	200.6	184.9	169.3	150.5	122.2	94.0
80°	426.3	398.1	369.9	338.5	310.3	279.0	250.8	225.7	200.6	163.0	125.4
77.5°	554.8	517.2	476.4	438.8	398.1	357.3	316.6	282.1	244.5	200.6	156.7
75°	673.9	630.0	592.4	539.1	489.0	435.7	382.4	335.4	288.4	235.1	188.1
72.5°	793.0	736.6	683.3	633.2	576.7	510.9	451.4	391.8	332.3	269.6	213.1
70°	912.1	843.2	777.4	717.8	655.1	589.3	517.2	448.2	376.1	300.9	235.1
67.5°	1034.4	956.0	880.8	805.6	733.5	658.2	583.0	504.7	420.0	332.3	260.2
65°	1169.2	1072.0	981.1	896.5	811.8	730.3	645.7	561.1	467.0	366.7	282.1
62.5°	1303.9	1197.4	1090.8	984.2	890.2	799.3	708.4	614.4	510.9	404.3	304.0
60°	1448.1	1325.9	1203.6	1084.5	968.6	868.3	767.9	667.6	557.9	438.8	326.0
57.5°	1608.0	1460.7	1322.8	1188.0	1056.3	937.2	827.5	720.9	598.7	473.3	351.1
55°	1789.8	1608.0	1445.0	1294.5	1150.4	1006.2	887.1	777.4	645.7	507.8	379.3
52.5°	1981.0	1771.0	1573.5	1404.2	1250.7	1087.7	943.5	821.2	692.7	542.3	404.3
50°	2203.5	1937.1	1717.7	1510.8	1338.4	1169.2	1003.0	871.4	739.7	583.0	429.4
47.5°	2432.4	2137.7	1861.9	1636.2	1432.5	1247.5	1072.0	915.3	783.6	620.6	454.5
45°	2698.8	2328.9	2024.9	1758.4	1523.4	1329.0	1141.0	962.3	821.2	658.2	479.6
42.5°	2955.8	2554.6	2194.1	1893.2	1626.8	1407.4	1203.6	1012.4	858.8	695.9	501.5
40°	3259.9	2780.3	2357.1	2021.7	1730.2	1482.6	1266.3	1065.7	893.3	730.3	523.5
37.5°	3551.4	3009.1	2554.6	2162.8	1830.5	1557.8	1329.0	1115.9	924.7	764.8	551.7
35°	3839.7	3263.0	2742.7	2294.4	1934.0	1642.5	1391.7	1162.9	956.0	793.0	576.7
32.5°	4115.6	3501.2	2933.9	2441.8	2046.8	1720.8	1448.1	1206.8	987.4	818.1	601.8
30°	4372.6	3726.9	3121.9	2592.2	2150.3	1792.9	1501.4	1250.7	1025.0	840.0	626.9
27.5°	4607.7	3946.3	3310.0	2733.3	2247.4	1858.7	1557.8	1291.4	1056.3	862.0	648.8
25°	4820.8	4143.8	3482.4	2861.8	2335.2	1930.8	1611.1	1332.2	1084.5	880.8	667.6
22.5°	5021.4	4325.6	3639.1	2990.3	2441.8	2002.9	1661.3	1369.8	1112.7	899.6	686.5
20°	5197.0	4491.7	3789.6	3118.8	2535.8	2068.8	1705.2	1404.2	1137.8	912.1	705.3
17.5°	5338.0	4639.0	3924.4	3231.7	2617.3	2125.2	1742.8	1435.6	1159.8	927.8	717.8
15°	5463.4	4764.4	4037.2	3328.8	2689.4	2172.2	1777.3	1460.7	1178.6	937.2	733.5
12.5°	5570.0	4871.0	4134.4	3413.5	2752.1	2212.9	1805.5	1479.5	1194.2	946.6	742.9
10°	5657.7	4955.6	4215.9	3479.3	2802.2	2244.3	1827.4	1498.3	1206.8	956.0	752.3
7.5°	5723.6	5018.3	4275.4	3535.7	2843.0	2266.2	1846.2	1510.8	1219.3	962.3	767.9
5°	5773.7	5071.6	4322.5	3573.3	2874.3	2297.6	1868.2	1526.5	1231.9	968.6	767.9
2.5°	5811.3	5115.5	4360.1	3604.7	2899.4	2291.3	1868.2	1523.4	1231.9	968.6	764.8
0°	5805.1	5118.6	4356.9	3604.7	2899.4	2285.0	1868.2	1520.2	1231.9	968.6	764.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.9	15.7	6.3	0.0
85°	47.0	31.3	15.7	0.0
82.5°	69.0	43.9	21.9	0.0
80°	90.9	59.6	28.2	0.0
77.5°	116.0	75.2	37.6	0.0
75°	137.9	87.8	43.9	0.0
72.5°	159.9	103.4	50.2	0.0
70°	178.7	116.0	56.4	0.0
67.5°	197.5	131.6	65.8	0.0
65°	213.1	144.2	72.1	0.0
62.5°	225.7	159.9	78.4	0.0
60°	241.4	172.4	84.6	0.0
57.5°	253.9	181.8	90.9	0.0
55°	266.4	188.1	97.2	0.0
52.5°	279.0	197.5	103.4	0.0
50°	291.5	206.9	109.7	0.0
47.5°	304.0	213.1	112.8	0.0
45°	322.9	222.5	119.1	0.0
42.5°	338.5	228.8	125.4	0.0
40°	354.2	235.1	128.5	0.0
37.5°	369.9	241.4	134.8	0.0
35°	385.5	247.6	137.9	0.0
32.5°	398.1	253.9	141.1	0.0
30°	410.6	260.2	144.2	0.0
27.5°	423.2	263.3	147.3	0.0
25°	432.6	269.6	150.5	0.0
22.5°	442.0	272.7	153.6	0.0
20°	448.2	275.8	156.7	0.0
17.5°	457.6	279.0	159.9	0.0
15°	460.8	282.1	166.1	0.0
12.5°	467.0	285.2	166.1	0.0
10°	470.2	288.4	166.1	0.0
7.5°	476.4	288.4	166.1	0.0
5°	473.3	288.4	166.1	0.0
2.5°	473.3	288.4	166.1	0.0
0°	470.2	288.4	166.1	0.0

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