

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: P628168

Luminaire Tested: **IFLD-M-SA4D-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628168
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

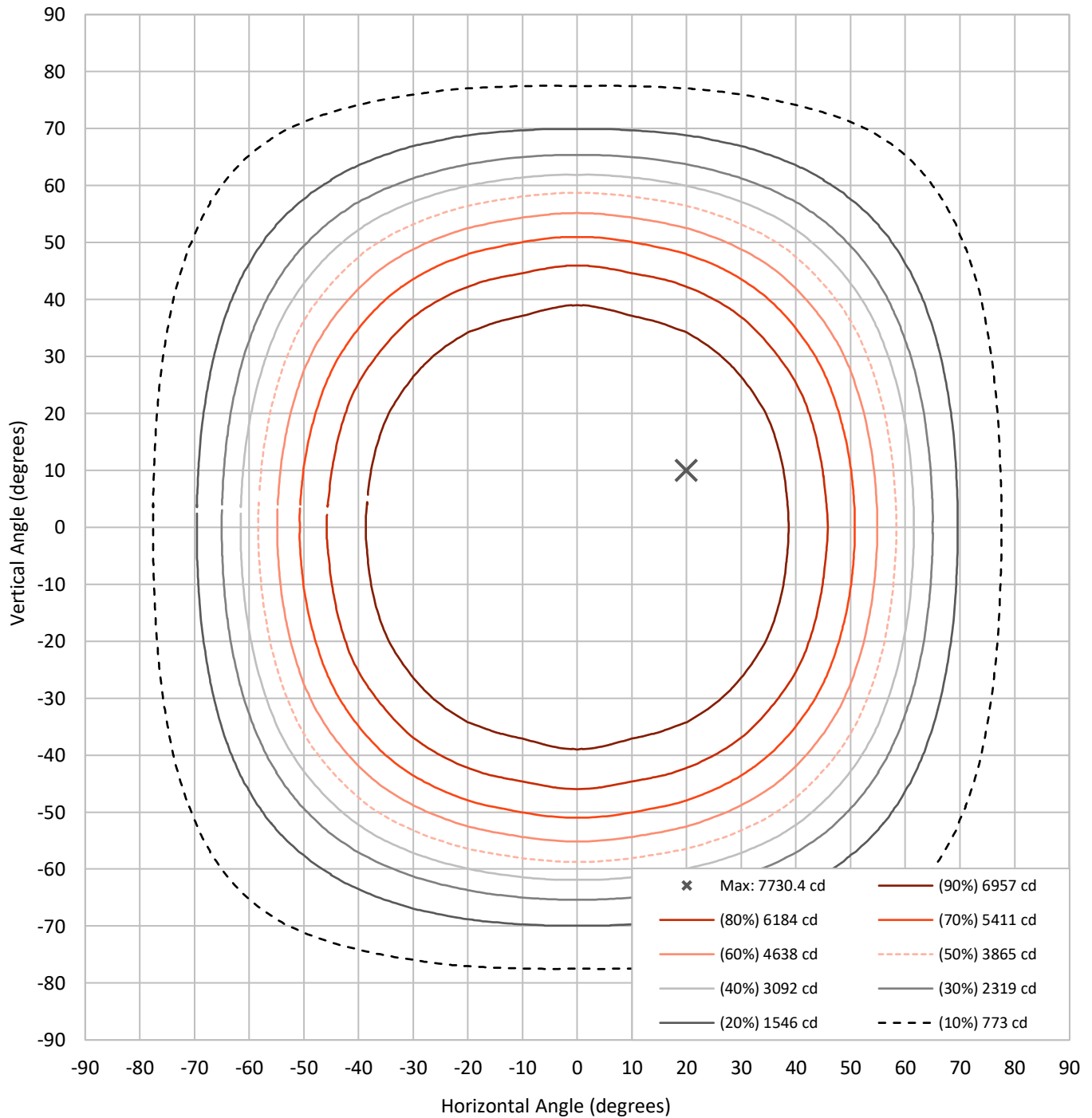
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23716 lumens	Max Intensity:	7730.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	95.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	14552.6 lumens	Field Lumens:	17446.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 249.7
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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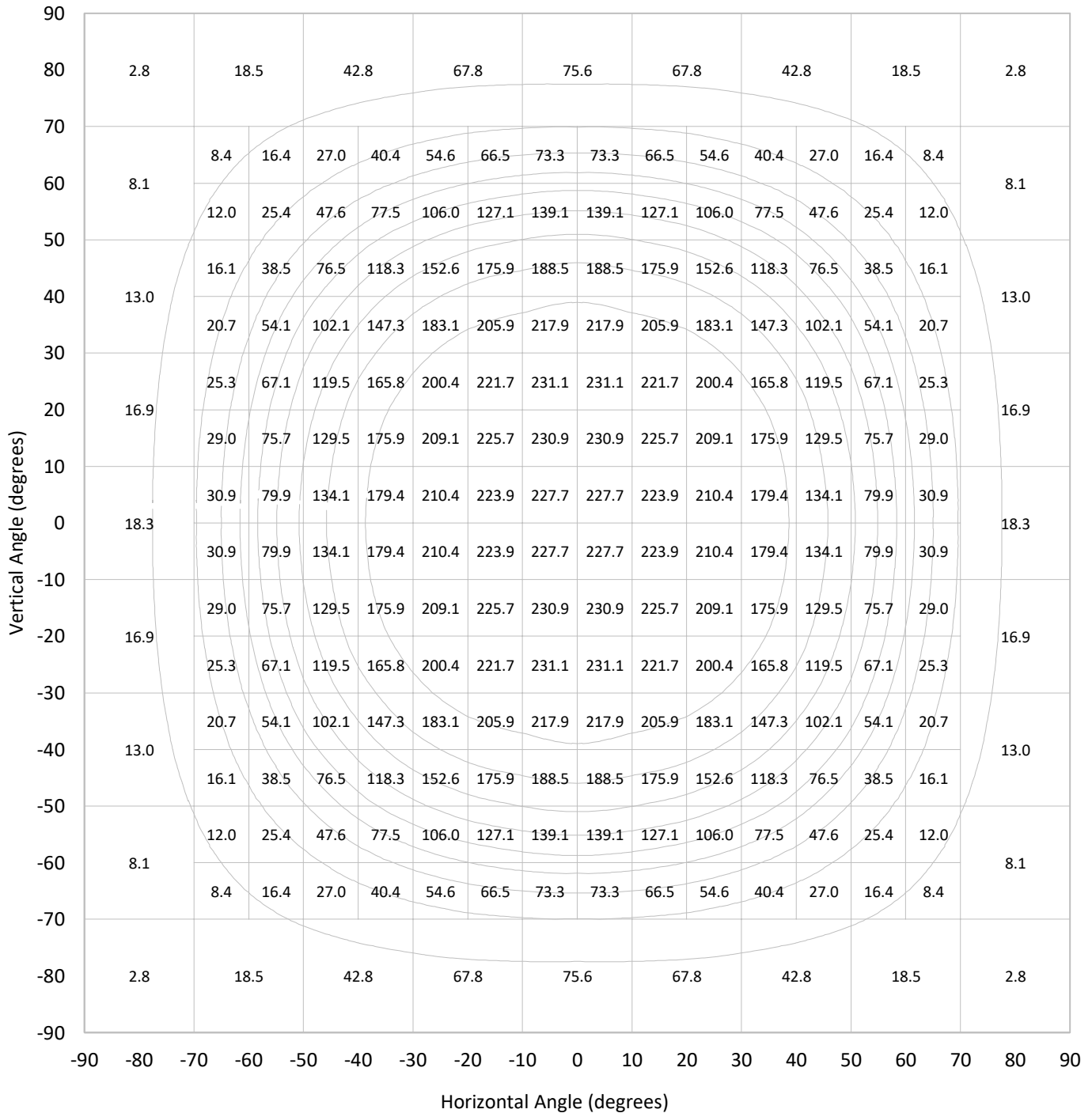
Iso-Candela Plot





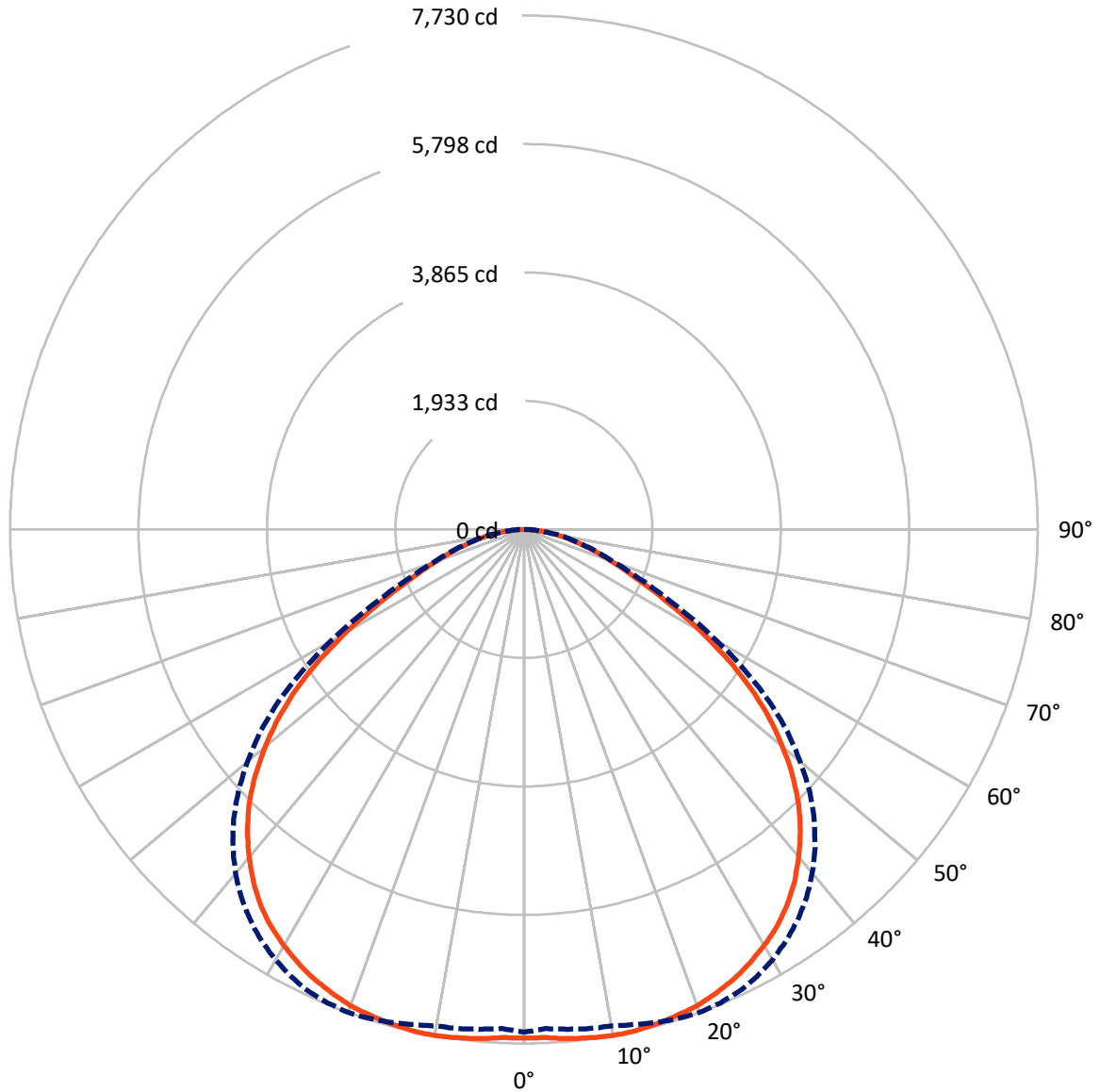
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Lumen Table



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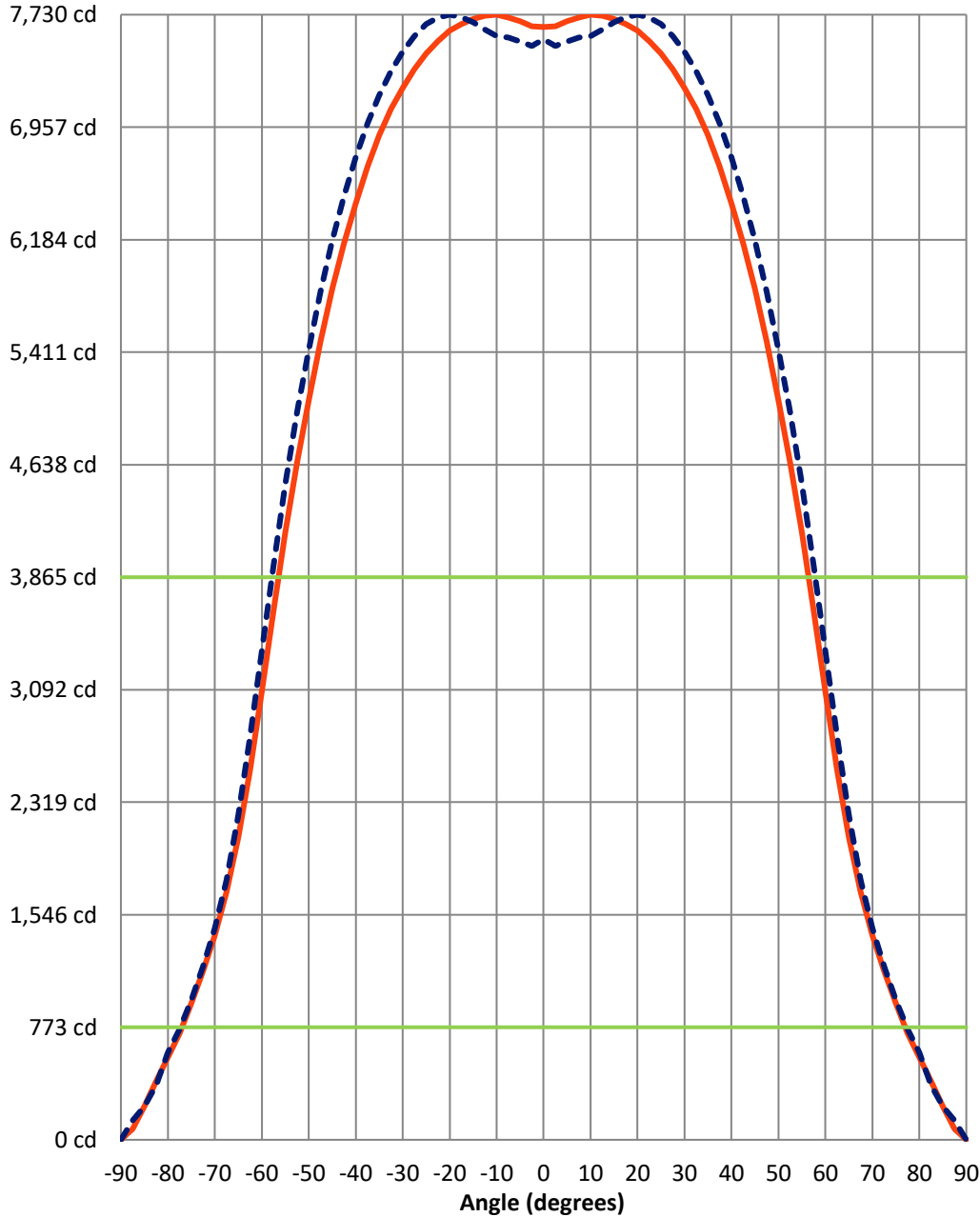
Luminous Intensity Polar Plot



— 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: 14552.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 17446.1
 Efficiency: 73.6%

Spill:
 Lumens: 6269.9
 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°	62.4	67.4	69.9	72.4	74.9	77.4	79.8	77.4	74.9	74.9	72.4
85°	167.2	172.2	174.7	192.1	209.6	219.6	232.1	229.6	229.6	227.1	224.6
82.5°	334.4	349.3	361.8	379.3	389.3	404.2	414.2	406.7	401.7	391.8	384.3
80°	593.9	598.9	601.4	603.9	591.4	588.9	583.9	576.4	566.4	554.0	541.5
77.5°	756.1	761.1	766.1	761.1	758.6	756.1	748.6	741.1	731.1	721.1	706.2
75°	1000.6	1000.6	1000.6	993.1	988.1	980.7	968.2	955.7	938.2	918.3	895.8
72.5°	1260.1	1257.6	1255.1	1240.2	1227.7	1212.7	1195.2	1180.3	1160.3	1137.9	1107.9
70°	1532.1	1537.1	1539.6	1519.6	1504.7	1484.7	1462.2	1434.8	1404.9	1372.4	1330.0
67.5°	1906.4	1901.4	1896.4	1869.0	1849.0	1821.6	1789.1	1749.2	1704.3	1654.4	1594.5
65°	2370.5	2378.0	2363.1	2335.6	2298.2	2253.3	2203.4	2146.0	2078.6	2003.7	1918.9
62.5°	2932.0	2944.5	2927.0	2892.1	2844.6	2784.8	2714.9	2632.5	2540.2	2435.4	2330.6
60°	3570.8	3568.3	3535.8	3488.4	3426.0	3351.2	3273.8	3184.0	3079.2	2956.9	2829.7
57.5°	4157.2	4152.2	4112.3	4064.8	4002.5	3922.6	3840.3	3745.4	3635.7	3505.9	3358.7
55°	4683.7	4678.7	4638.8	4588.9	4524.0	4444.1	4369.3	4279.4	4172.1	4034.9	3877.7
52.5°	5150.3	5152.8	5117.9	5063.0	4993.1	4915.7	4843.4	4753.5	4651.2	4514.0	4361.8
50°	5579.5	5577.0	5539.6	5489.7	5424.8	5349.9	5277.6	5187.7	5080.4	4948.2	4801.0
47.5°	5978.7	5973.8	5931.3	5876.4	5809.1	5744.2	5676.8	5597.0	5484.7	5352.4	5205.2
45°	6313.1	6303.1	6260.7	6208.3	6143.4	6086.0	6026.2	5966.3	5846.5	5724.2	5584.5
42.5°	6600.1	6597.6	6555.2	6502.8	6437.9	6388.0	6333.1	6258.2	6158.4	6046.1	5908.9
40°	6874.6	6854.6	6812.2	6762.3	6702.4	6660.0	6605.1	6530.2	6432.9	6323.1	6190.8
37.5°	7079.2	7081.7	7036.8	6981.9	6929.5	6889.5	6839.6	6769.8	6684.9	6577.6	6445.4
35°	7273.8	7261.3	7223.9	7176.5	7129.1	7084.2	7031.8	6971.9	6902.0	6802.2	6677.4
32.5°	7401.1	7418.5	7373.6	7323.7	7296.3	7261.3	7206.4	7144.0	7081.7	6981.9	6869.6
30°	7540.8	7525.8	7490.9	7448.5	7428.5	7406.1	7358.6	7298.8	7226.4	7136.6	7031.8
27.5°	7638.1	7630.6	7588.2	7548.3	7538.3	7518.3	7480.9	7428.5	7356.1	7268.8	7171.5
25°	7680.5	7685.5	7645.6	7623.1	7623.1	7610.7	7580.7	7535.8	7463.4	7383.6	7288.8
22.5°	7700.5	7695.5	7668.1	7663.1	7675.5	7665.6	7653.1	7613.2	7548.3	7483.4	7403.6
20°	7713.0	7678.0	7653.1	7673.1	7688.0	7685.5	7675.5	7650.6	7620.7	7565.8	7495.9
17.5°	7685.5	7663.1	7633.1	7663.1	7695.5	7698.0	7688.0	7673.1	7665.6	7630.6	7568.3
15°	7618.2	7600.7	7605.7	7635.6	7673.1	7685.5	7693.0	7710.5	7700.5	7673.1	7618.2
12.5°	7573.2	7550.8	7573.2	7603.2	7623.1	7630.6	7690.5	7723.0	7723.0	7698.0	7663.1
10°	7560.8	7515.8	7545.8	7573.2	7583.2	7628.1	7678.0	7713.0	7730.4	7710.5	7665.6
7.5°	7535.8	7505.9	7518.3	7530.8	7588.2	7620.7	7648.1	7685.5	7710.5	7708.0	7668.1
5°	7523.3	7485.9	7490.9	7543.3	7583.2	7605.7	7615.7	7648.1	7685.5	7693.0	7663.1
2.5°	7490.9	7473.4	7510.9	7515.8	7545.8	7563.3	7573.2	7603.2	7650.6	7668.1	7655.6
0°	7473.4	7448.5	7423.5	7443.5	7493.4	7530.8	7545.8	7590.7	7645.6	7663.1	7635.6



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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°	69.9	67.4	64.9	62.4	64.9	64.9	64.9	62.4	64.9	62.4	62.4
85°	217.1	207.1	199.6	189.6	179.7	172.2	162.2	152.2	149.7	147.2	142.2
82.5°	374.3	361.8	349.3	334.4	319.4	301.9	284.5	264.5	259.5	254.5	247.0
80°	526.5	509.0	491.6	474.1	459.1	441.7	421.7	399.2	384.3	371.8	356.8
77.5°	686.2	661.3	636.3	606.4	588.9	571.4	551.5	529.0	506.5	486.6	464.1
75°	868.4	840.9	816.0	786.0	753.6	721.1	688.7	658.8	626.3	596.4	566.4
72.5°	1070.5	1030.6	990.6	953.2	913.3	873.4	830.9	791.0	751.1	711.2	668.7
70°	1282.6	1232.7	1182.8	1132.9	1080.5	1028.1	978.2	928.3	878.3	825.9	778.5
67.5°	1532.1	1474.7	1409.8	1340.0	1262.6	1195.2	1130.4	1070.5	1010.6	950.7	890.8
65°	1844.0	1764.2	1676.8	1582.0	1492.2	1402.4	1307.5	1217.7	1147.8	1078.0	1010.6
62.5°	2228.3	2116.0	1993.7	1871.5	1761.7	1644.4	1534.6	1417.3	1307.5	1207.7	1125.4
60°	2687.4	2535.2	2385.5	2228.3	2076.1	1916.4	1776.7	1631.9	1494.7	1372.4	1252.6
57.5°	3194.0	3016.8	2837.2	2645.0	2437.9	2250.8	2061.1	1871.5	1709.3	1547.1	1412.3
55°	3708.0	3520.9	3318.8	3101.7	2874.6	2635.0	2378.0	2165.9	1943.8	1754.2	1579.5
52.5°	4197.1	4002.5	3792.9	3593.2	3321.2	3046.8	2764.8	2485.3	2225.8	1983.8	1771.7
50°	4633.8	4444.1	4242.0	4010.0	3757.9	3466.0	3151.6	2837.2	2530.2	2245.8	1981.3
47.5°	5033.0	4848.4	4646.3	4414.2	4184.6	3860.2	3543.3	3196.5	2854.6	2527.7	2218.3
45°	5407.3	5220.2	5010.6	4788.5	4524.0	4234.5	3907.6	3558.3	3191.5	2824.7	2467.9
42.5°	5746.7	5559.5	5347.4	5117.9	4855.9	4568.9	4252.0	3900.2	3530.9	3131.6	2739.8
40°	6043.6	5861.5	5656.8	5417.3	5172.8	4870.8	4558.9	4224.5	3842.8	3441.0	3009.3
37.5°	6303.1	6133.5	5931.3	5694.3	5434.8	5165.3	4843.4	4509.0	4164.7	3728.0	3286.3
35°	6532.7	6375.5	6168.4	5943.8	5689.3	5404.8	5102.9	4776.0	4404.2	3995.0	3565.8
32.5°	6732.3	6572.6	6383.0	6158.4	5911.4	5644.4	5335.0	5005.6	4653.7	4237.0	3770.4
30°	6902.0	6747.3	6567.6	6355.5	6118.5	5854.0	5552.0	5220.2	4860.8	4446.6	3985.0
27.5°	7049.2	6902.0	6727.3	6530.2	6303.1	6048.6	5744.2	5409.8	5043.0	4643.8	4182.1
25°	7176.5	7034.3	6872.1	6684.9	6460.3	6210.8	5923.8	5574.5	5207.7	4806.0	4349.3
22.5°	7291.3	7154.0	6991.8	6809.7	6605.1	6355.5	6066.1	5719.2	5347.4	4950.7	4501.5
20°	7393.6	7266.3	7106.6	6919.5	6714.9	6462.8	6175.9	5846.5	5472.2	5082.9	4638.8
17.5°	7475.9	7363.6	7203.9	7006.8	6802.2	6557.7	6278.2	5976.2	5579.5	5195.2	4753.5
15°	7533.3	7423.5	7278.8	7079.2	6879.5	6637.5	6358.0	6046.1	5676.8	5285.0	4848.4
12.5°	7573.2	7456.0	7321.2	7136.6	6936.9	6697.4	6425.4	6118.5	5759.2	5364.9	4930.7
10°	7583.2	7475.9	7341.2	7176.5	6981.9	6749.8	6482.8	6178.4	5826.5	5427.3	4998.1
7.5°	7588.2	7485.9	7363.6	7206.4	7014.3	6789.7	6525.2	6225.8	5876.4	5479.7	5048.0
5°	7585.7	7488.4	7378.6	7226.4	7034.3	6812.2	6552.7	6258.2	5911.4	5514.6	5085.4
2.5°	7578.2	7490.9	7388.6	7241.4	7056.7	6837.1	6580.1	6295.6	5948.8	5544.6	5115.4
0°	7598.2	7523.3	7393.6	7236.4	7061.7	6837.1	6577.6	6300.6	5953.8	5542.1	5112.9



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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°	62.4	59.9	59.9	57.4	54.9	52.4	47.4	44.9	39.9	32.4	25.0
85°	134.7	127.3	119.8	114.8	109.8	104.8	97.3	89.8	79.8	64.9	49.9
82.5°	237.1	222.1	207.1	189.6	174.7	159.7	147.2	134.7	119.8	97.3	74.9
80°	339.4	316.9	294.4	269.5	247.0	222.1	199.6	179.7	159.7	129.8	99.8
77.5°	441.7	411.7	379.3	349.3	316.9	284.5	252.0	224.6	194.6	159.7	124.8
75°	536.5	501.6	471.6	429.2	389.3	346.8	304.4	267.0	229.6	187.1	149.7
72.5°	631.3	586.4	544.0	504.1	459.1	406.7	359.3	311.9	264.5	214.6	169.7
70°	726.1	671.2	618.8	571.4	521.5	469.1	411.7	356.8	299.4	239.5	187.1
67.5°	823.4	761.1	701.2	641.3	583.9	524.0	464.1	401.7	334.4	264.5	207.1
65°	930.7	853.4	781.0	713.7	646.3	581.4	514.0	446.7	371.8	292.0	224.6
62.5°	1038.0	953.2	868.4	783.5	708.7	636.3	563.9	489.1	406.7	321.9	242.0
60°	1152.8	1055.5	958.2	863.4	771.0	691.2	611.3	531.5	444.2	349.3	259.5
57.5°	1280.1	1162.8	1053.0	945.7	840.9	746.1	658.8	573.9	476.6	376.8	279.5
55°	1424.8	1280.1	1150.3	1030.6	915.8	801.0	706.2	618.8	514.0	404.2	301.9
52.5°	1577.0	1409.8	1252.6	1117.9	995.6	865.9	751.1	653.8	551.5	431.7	321.9
50°	1754.2	1542.1	1367.4	1202.7	1065.5	930.7	798.5	693.7	588.9	464.1	341.9
47.5°	1936.4	1701.8	1482.2	1302.5	1140.4	993.1	853.4	728.6	623.8	494.1	361.8
45°	2148.5	1854.0	1612.0	1399.9	1212.7	1058.0	908.3	766.1	653.8	524.0	381.8
42.5°	2353.1	2033.7	1746.7	1507.2	1295.1	1120.4	958.2	806.0	683.7	554.0	399.2
40°	2595.1	2213.3	1876.5	1609.5	1377.4	1180.3	1008.1	848.4	711.2	581.4	416.7
37.5°	2827.2	2395.5	2033.7	1721.8	1457.3	1240.2	1058.0	888.3	736.1	608.9	439.2
35°	3056.7	2597.6	2183.4	1826.6	1539.6	1307.5	1107.9	925.8	761.1	631.3	459.1
32.5°	3276.3	2787.3	2335.6	1943.8	1629.4	1369.9	1152.8	960.7	786.0	651.3	479.1
30°	3480.9	2966.9	2485.3	2063.6	1711.8	1427.3	1195.2	995.6	816.0	668.7	499.1
27.5°	3668.1	3141.6	2635.0	2175.9	1789.1	1479.7	1240.2	1028.1	840.9	686.2	516.5
25°	3837.8	3298.8	2772.3	2278.2	1859.0	1537.1	1282.6	1060.5	863.4	701.2	531.5
22.5°	3997.5	3443.5	2897.0	2380.5	1943.8	1594.5	1322.5	1090.4	885.8	716.2	546.5
20°	4137.2	3575.8	3016.8	2482.8	2018.7	1646.9	1357.4	1117.9	905.8	726.1	561.4
17.5°	4249.5	3693.0	3124.1	2572.7	2083.6	1691.8	1387.4	1142.8	923.3	738.6	571.4
15°	4349.3	3792.9	3213.9	2650.0	2141.0	1729.2	1414.8	1162.8	938.2	746.1	583.9
12.5°	4434.2	3877.7	3291.3	2717.4	2190.9	1761.7	1437.3	1177.8	950.7	753.6	591.4
10°	4504.0	3945.1	3356.2	2769.8	2230.8	1786.6	1454.8	1192.8	960.7	761.1	598.9
7.5°	4556.4	3995.0	3403.6	2814.7	2263.2	1804.1	1469.7	1202.7	970.7	766.1	611.3
5°	4596.3	4037.4	3441.0	2844.6	2288.2	1829.1	1487.2	1215.2	980.7	771.0	611.3
2.5°	4626.3	4072.3	3471.0	2869.6	2308.2	1824.1	1487.2	1212.7	980.7	771.0	608.9
0°	4621.3	4074.8	3468.5	2869.6	2308.2	1819.1	1487.2	1210.2	980.7	771.0	608.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.5	12.5	5.0	0.0
85°	37.4	25.0	12.5	0.0
82.5°	54.9	34.9	17.5	0.0
80°	72.4	47.4	22.5	0.0
77.5°	92.3	59.9	29.9	0.0
75°	109.8	69.9	34.9	0.0
72.5°	127.3	82.3	39.9	0.0
70°	142.2	92.3	44.9	0.0
67.5°	157.2	104.8	52.4	0.0
65°	169.7	114.8	57.4	0.0
62.5°	179.7	127.3	62.4	0.0
60°	192.1	137.2	67.4	0.0
57.5°	202.1	144.7	72.4	0.0
55°	212.1	149.7	77.4	0.0
52.5°	222.1	157.2	82.3	0.0
50°	232.1	164.7	87.3	0.0
47.5°	242.0	169.7	89.8	0.0
45°	257.0	177.2	94.8	0.0
42.5°	269.5	182.2	99.8	0.0
40°	282.0	187.1	102.3	0.0
37.5°	294.4	192.1	107.3	0.0
35°	306.9	197.1	109.8	0.0
32.5°	316.9	202.1	112.3	0.0
30°	326.9	207.1	114.8	0.0
27.5°	336.9	209.6	117.3	0.0
25°	344.4	214.6	119.8	0.0
22.5°	351.8	217.1	122.3	0.0
20°	356.8	219.6	124.8	0.0
17.5°	364.3	222.1	127.3	0.0
15°	366.8	224.6	132.3	0.0
12.5°	371.8	227.1	132.3	0.0
10°	374.3	229.6	132.3	0.0
7.5°	379.3	229.6	132.3	0.0
5°	376.8	229.6	132.3	0.0
2.5°	376.8	229.6	132.3	0.0
0°	374.3	229.6	132.3	0.0

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