

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: P628225

Luminaire Tested: **IFLD-M-SA4C-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628225
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

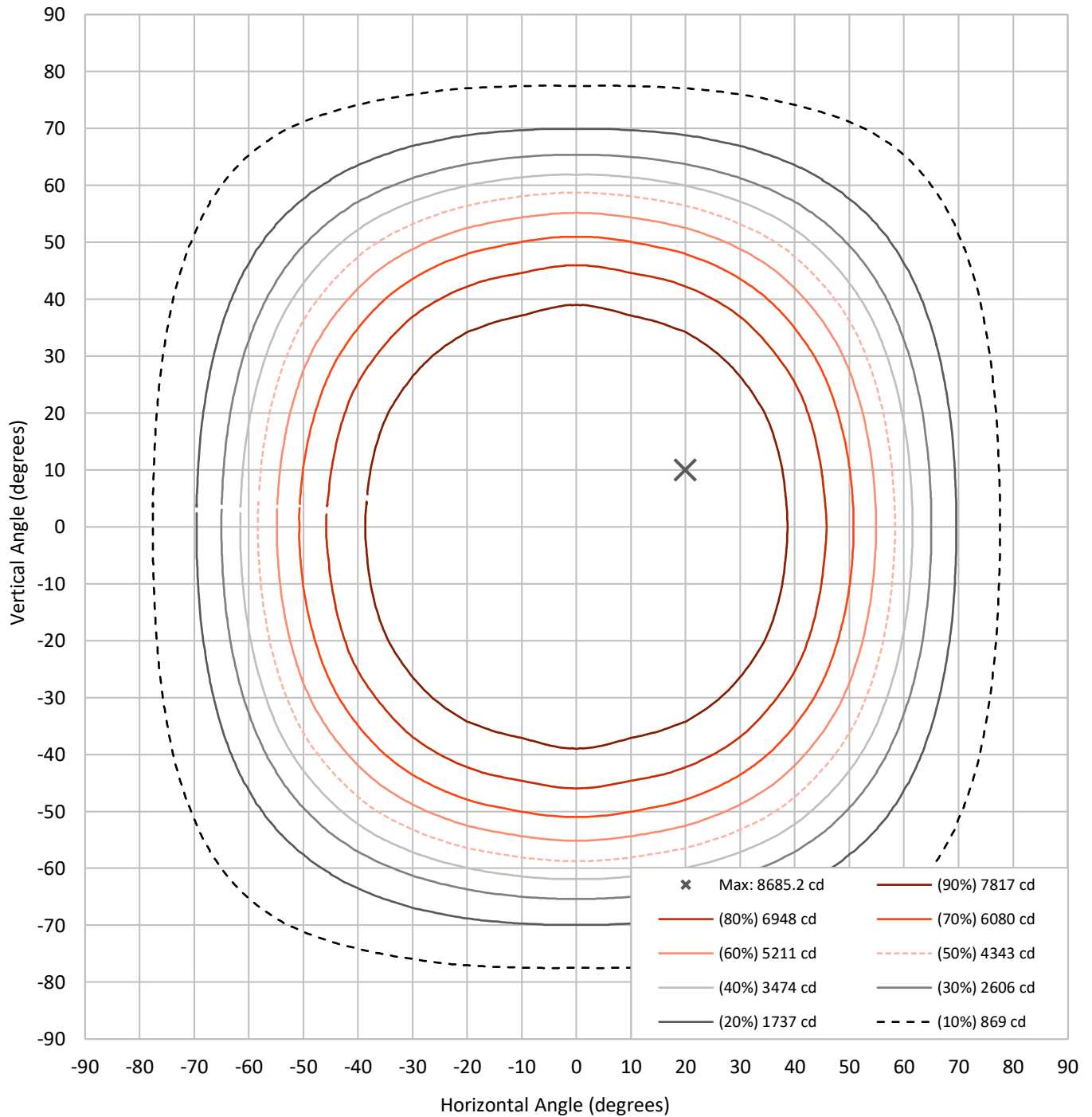
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26645.1 lumens	Max Intensity:	8685.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	122.2 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:	16350 lumens	Field Lumens:	19600.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	218.1		
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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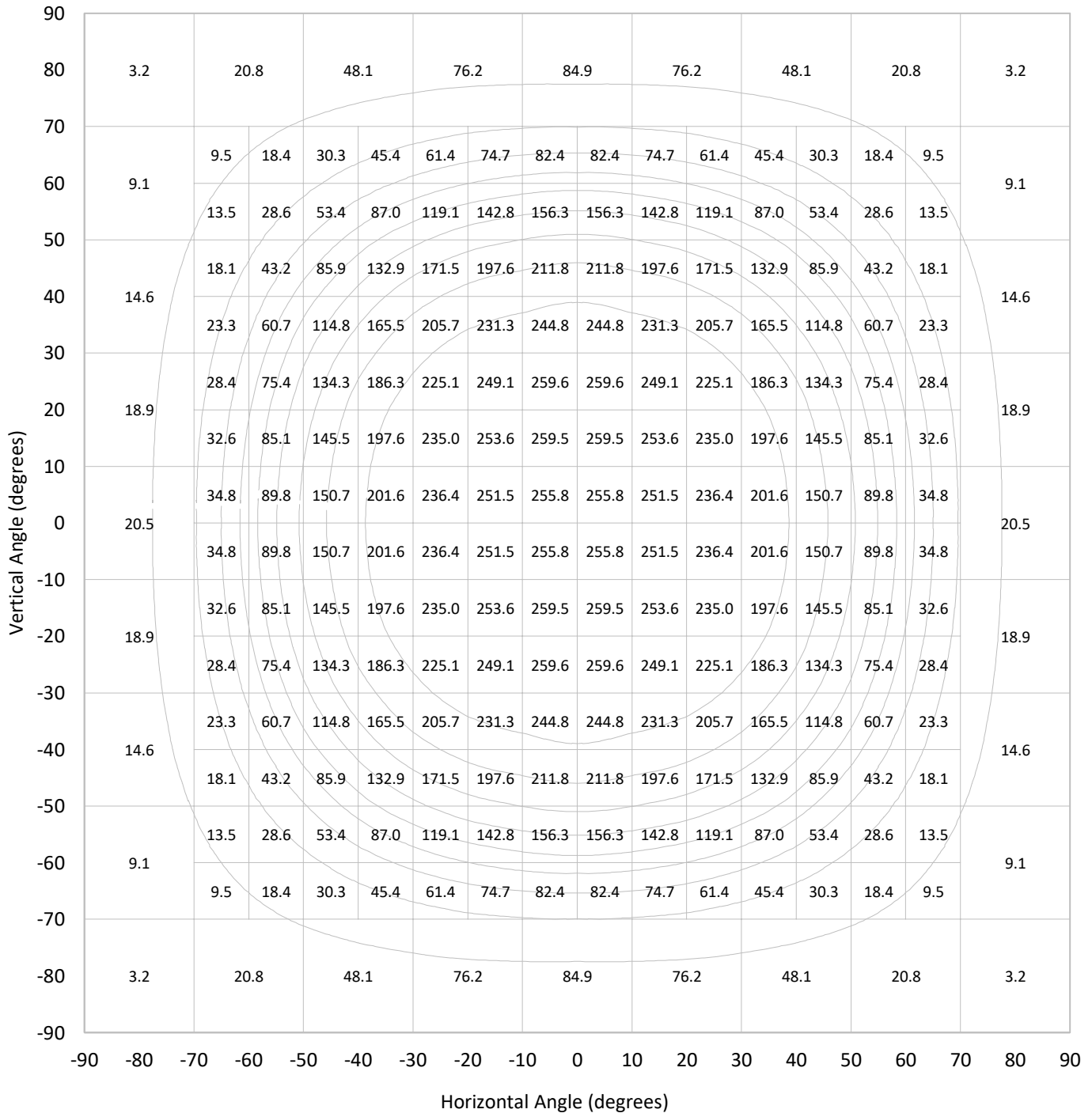
Iso-Candela Plot





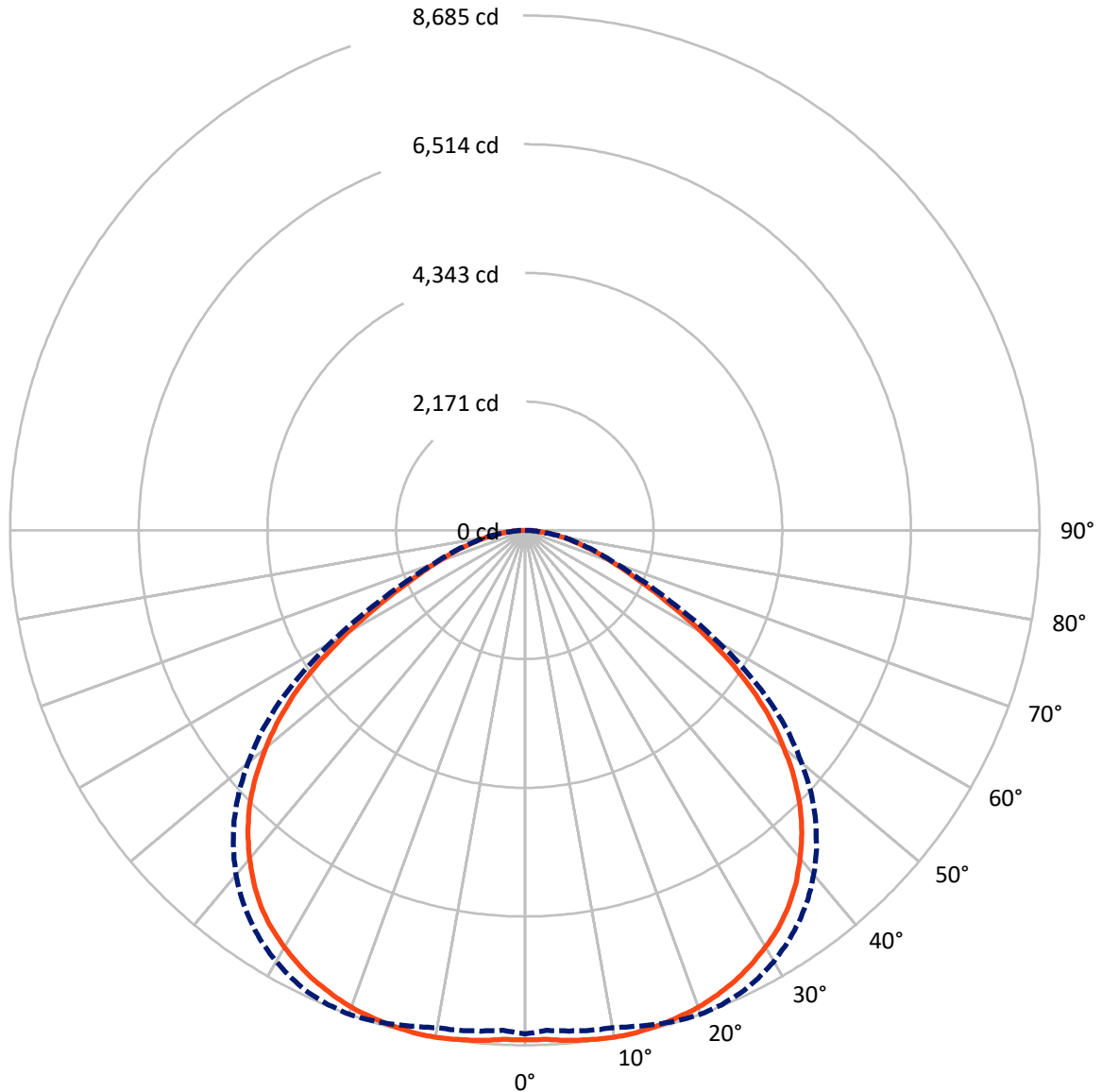
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Lumen Table



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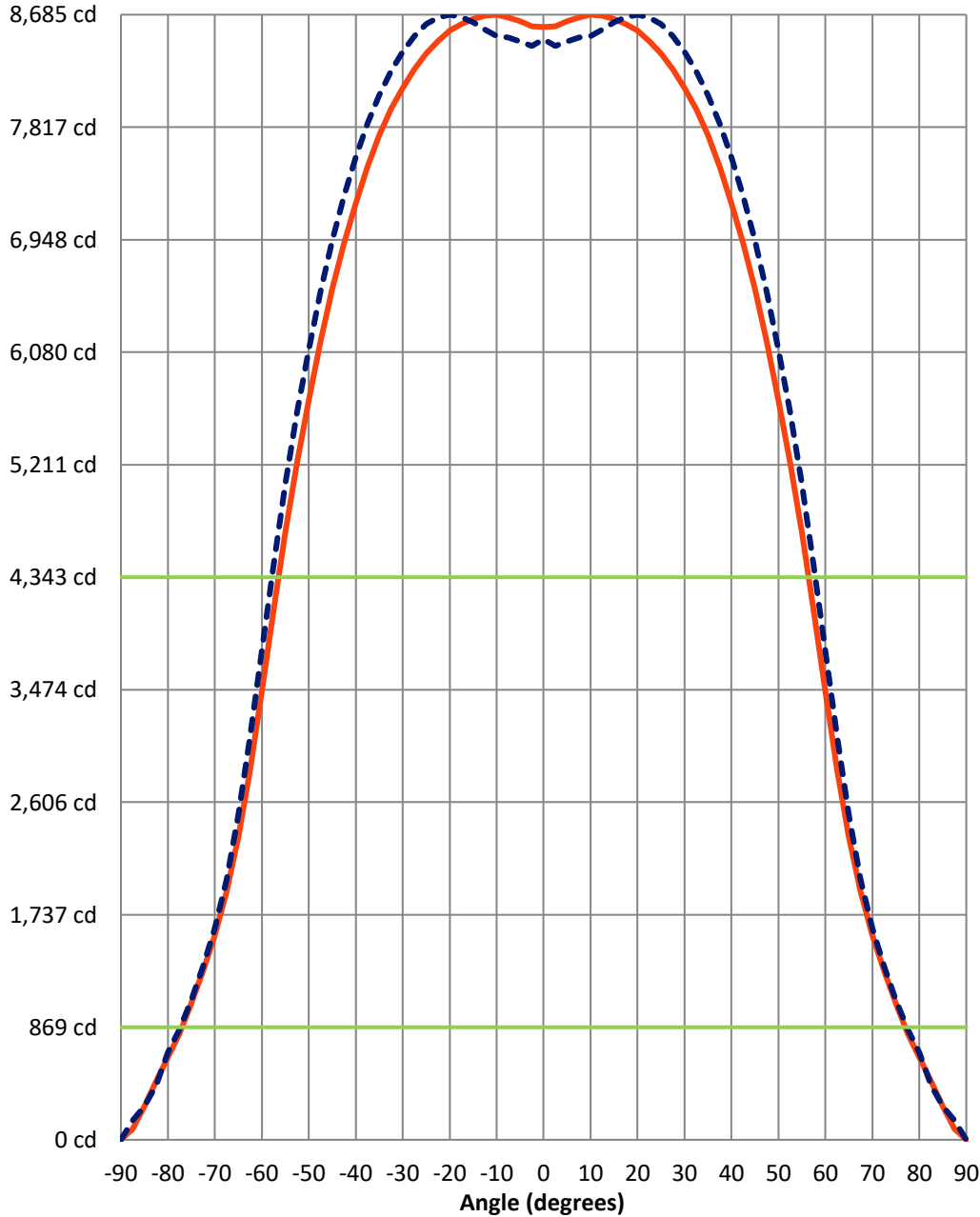
Luminous Intensity Polar Plot



— 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: 16350
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 19600.9
 Efficiency: 73.6%

Spill:
 Lumens: 7044.3
 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°	70.1	75.7	78.5	81.3	84.1	86.9	89.7	86.9	84.1	84.1	81.3
85°	187.8	193.4	196.2	215.9	235.5	246.7	260.7	257.9	257.9	255.1	252.3
82.5°	375.7	392.5	406.5	426.1	437.3	454.2	465.4	457.0	451.4	440.1	431.7
80°	667.2	672.8	675.6	678.4	664.4	661.6	656.0	647.6	636.4	622.4	608.4
77.5°	849.5	855.1	860.7	855.1	852.3	849.5	841.0	832.6	821.4	810.2	793.4
75°	1124.2	1124.2	1124.2	1115.8	1110.2	1101.8	1087.8	1073.7	1054.1	1031.7	1006.5
72.5°	1415.8	1413.0	1410.2	1393.3	1379.3	1362.5	1342.9	1326.1	1303.6	1278.4	1244.8
70°	1721.3	1727.0	1729.8	1707.3	1690.5	1668.1	1642.8	1612.0	1578.4	1541.9	1494.3
67.5°	2141.9	2136.3	2130.7	2099.8	2077.4	2046.6	2010.1	1965.3	1914.8	1858.7	1791.4
65°	2663.3	2671.7	2654.9	2624.1	2582.0	2531.6	2475.5	2411.0	2335.3	2251.2	2155.9
62.5°	3294.1	3308.1	3288.5	3249.3	3196.0	3128.7	3050.2	2957.7	2854.0	2736.2	2618.5
60°	4011.8	4009.0	3972.6	3919.3	3849.2	3765.1	3678.2	3577.3	3459.5	3322.1	3179.2
57.5°	4670.6	4665.0	4620.2	4566.9	4496.8	4407.1	4314.6	4208.1	4084.7	3938.9	3773.5
55°	5262.2	5256.6	5211.7	5155.6	5082.7	4993.0	4908.9	4808.0	4687.4	4533.3	4356.6
52.5°	5786.4	5789.2	5750.0	5688.3	5609.8	5522.9	5441.6	5340.7	5225.7	5071.5	4900.5
50°	6268.6	6265.8	6223.8	6167.7	6094.8	6010.7	5929.4	5828.5	5707.9	5559.3	5393.9
47.5°	6717.2	6711.6	6663.9	6602.2	6526.5	6453.7	6378.0	6288.2	6162.1	6013.5	5848.1
45°	7092.9	7081.6	7034.0	6975.1	6902.2	6837.7	6770.4	6703.2	6568.6	6431.2	6274.2
42.5°	7415.3	7412.4	7364.8	7305.9	7233.0	7177.0	7115.3	7031.2	6919.0	6792.9	6638.7
40°	7723.6	7701.2	7653.6	7597.5	7530.2	7482.5	7420.9	7336.8	7227.4	7104.1	6955.5
37.5°	7953.5	7956.3	7905.9	7844.2	7785.3	7740.5	7684.4	7605.9	7510.6	7390.0	7241.4
35°	8172.2	8158.2	8116.1	8062.9	8009.6	7959.1	7900.3	7833.0	7754.5	7642.3	7502.2
32.5°	8315.2	8334.8	8284.3	8228.3	8197.4	8158.2	8096.5	8026.4	7956.3	7844.2	7718.0
30°	8472.2	8455.4	8416.1	8368.4	8346.0	8320.8	8267.5	8200.2	8118.9	8018.0	7900.3
27.5°	8581.5	8573.1	8525.4	8480.6	8469.4	8446.9	8404.9	8346.0	8264.7	8166.6	8057.3
25°	8629.2	8634.8	8589.9	8564.7	8564.7	8550.7	8517.0	8466.6	8385.3	8295.6	8189.0
22.5°	8651.6	8646.0	8615.2	8609.5	8623.6	8612.3	8598.3	8553.5	8480.6	8407.7	8318.0
20°	8665.6	8626.4	8598.3	8620.8	8637.6	8634.8	8623.6	8595.5	8561.9	8500.2	8421.7
17.5°	8634.8	8609.5	8575.9	8609.5	8646.0	8648.8	8637.6	8620.8	8612.3	8573.1	8503.0
15°	8559.1	8539.5	8545.1	8578.7	8620.8	8634.8	8643.2	8662.8	8651.6	8620.8	8559.1
12.5°	8508.6	8483.4	8508.6	8542.3	8564.7	8573.1	8640.4	8676.8	8676.8	8648.8	8609.5
10°	8494.6	8444.1	8477.8	8508.6	8519.8	8570.3	8626.4	8665.6	8685.2	8662.8	8612.3
7.5°	8466.6	8432.9	8446.9	8461.0	8525.4	8561.9	8592.7	8634.8	8662.8	8660.0	8615.2
5°	8452.5	8410.5	8416.1	8475.0	8519.8	8545.1	8556.3	8592.7	8634.8	8643.2	8609.5
2.5°	8416.1	8396.5	8438.5	8444.1	8477.8	8497.4	8508.6	8542.3	8595.5	8615.2	8601.1
0°	8396.5	8368.4	8340.4	8362.8	8418.9	8461.0	8477.8	8528.2	8589.9	8609.5	8578.7



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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°	78.5	75.7	72.9	70.1	72.9	72.9	72.9	70.1	72.9	70.1	70.1
85°	243.9	232.7	224.3	213.1	201.9	193.4	182.2	171.0	168.2	165.4	159.8
82.5°	420.5	406.5	392.5	375.7	358.8	339.2	319.6	297.2	291.6	286.0	277.5
80°	591.5	571.9	552.3	532.7	515.8	496.2	473.8	448.6	431.7	417.7	400.9
77.5°	771.0	742.9	714.9	681.3	661.6	642.0	619.6	594.3	569.1	546.7	521.5
75°	975.6	944.8	916.7	883.1	846.7	810.2	773.8	740.1	703.7	670.0	636.4
72.5°	1202.7	1157.8	1113.0	1070.9	1026.1	981.2	933.6	888.7	843.9	799.0	751.3
70°	1441.0	1384.9	1328.9	1272.8	1213.9	1155.0	1099.0	1042.9	986.8	928.0	874.7
67.5°	1721.3	1656.9	1584.0	1505.5	1418.6	1342.9	1270.0	1202.7	1135.4	1068.1	1000.8
65°	2071.8	1982.1	1884.0	1777.4	1676.5	1575.6	1469.0	1368.1	1289.6	1211.1	1135.4
62.5°	2503.5	2377.4	2240.0	2102.6	1979.3	1847.5	1724.2	1592.4	1469.0	1356.9	1264.4
60°	3019.4	2848.4	2680.1	2503.5	2332.5	2153.1	1996.1	1833.5	1679.3	1541.9	1407.4
57.5°	3588.5	3389.4	3187.6	2971.7	2739.0	2528.8	2315.7	2102.6	1920.4	1738.2	1586.8
55°	4166.0	3955.7	3728.7	3484.7	3229.6	2960.5	2671.7	2433.4	2183.9	1970.9	1774.6
52.5°	4715.5	4496.8	4261.3	4037.0	3731.5	3423.1	3106.3	2792.3	2500.7	2228.8	1990.5
50°	5206.1	4993.0	4765.9	4505.2	4222.1	3894.1	3540.8	3187.6	2842.7	2523.1	2226.0
47.5°	5654.7	5447.2	5220.1	4959.4	4701.5	4337.0	3981.0	3591.3	3207.2	2839.9	2492.3
45°	6075.2	5864.9	5629.4	5379.9	5082.7	4757.5	4390.3	3997.8	3585.7	3173.6	2772.7
42.5°	6456.5	6246.2	6007.9	5750.0	5455.6	5133.2	4777.2	4381.9	3967.0	3518.4	3078.2
40°	6790.1	6585.4	6355.5	6086.4	5811.7	5472.4	5122.0	4746.3	4317.4	3866.0	3381.0
37.5°	7081.6	6891.0	6663.9	6397.6	6106.0	5803.2	5441.6	5065.9	4679.0	4188.4	3692.2
35°	7339.6	7162.9	6930.2	6677.9	6392.0	6072.4	5733.2	5365.9	4948.2	4488.4	4006.2
32.5°	7563.8	7384.4	7171.3	6919.0	6641.5	6341.5	5993.9	5623.8	5228.5	4760.3	4236.1
30°	7754.5	7580.7	7378.8	7140.5	6874.2	6577.0	6237.8	5864.9	5461.2	4995.8	4477.2
27.5°	7919.9	7754.5	7558.2	7336.8	7081.6	6795.7	6453.7	6078.0	5665.9	5217.3	4698.7
25°	8062.9	7903.1	7720.8	7510.6	7258.3	6977.9	6655.5	6263.0	5850.9	5399.5	4886.5
22.5°	8191.8	8037.6	7855.4	7650.7	7420.9	7140.5	6815.3	6425.6	6007.9	5562.1	5057.5
20°	8306.8	8163.8	7984.4	7774.1	7544.2	7261.1	6938.7	6568.6	6148.1	5710.7	5211.7
17.5°	8399.3	8273.1	8093.7	7872.2	7642.3	7367.6	7053.6	6714.4	6268.6	5836.9	5340.7
15°	8463.8	8340.4	8177.8	7953.5	7729.2	7457.3	7143.3	6792.9	6378.0	5937.8	5447.2
12.5°	8508.6	8376.9	8225.5	8018.0	7793.7	7524.6	7219.0	6874.2	6470.5	6027.5	5539.7
10°	8519.8	8399.3	8247.9	8062.9	7844.2	7583.5	7283.5	6941.5	6546.2	6097.6	5615.4
7.5°	8525.4	8410.5	8273.1	8096.5	7880.6	7628.3	7331.1	6994.7	6602.2	6156.5	5671.5
5°	8522.6	8413.3	8289.9	8118.9	7903.1	7653.6	7362.0	7031.2	6641.5	6195.7	5713.5
2.5°	8514.2	8416.1	8301.2	8135.8	7928.3	7681.6	7392.8	7073.2	6683.5	6229.4	5747.2
0°	8536.7	8452.5	8306.8	8130.1	7933.9	7681.6	7390.0	7078.8	6689.1	6226.6	5744.4



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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°	70.1	67.3	67.3	64.5	61.7	58.9	53.3	50.5	44.9	36.4	28.0
85°	151.4	143.0	134.6	129.0	123.4	117.7	109.3	100.9	89.7	72.9	56.1
82.5°	266.3	249.5	232.7	213.1	196.2	179.4	165.4	151.4	134.6	109.3	84.1
80°	381.3	356.0	330.8	302.8	277.5	249.5	224.3	201.9	179.4	145.8	112.1
77.5°	496.2	462.6	426.1	392.5	356.0	319.6	283.2	252.3	218.7	179.4	140.2
75°	602.8	563.5	529.9	482.2	437.3	389.7	342.0	300.0	257.9	210.3	168.2
72.5°	709.3	658.8	611.2	566.3	515.8	457.0	403.7	350.4	297.2	241.1	190.6
70°	815.8	754.1	695.3	642.0	585.9	527.1	462.6	400.9	336.4	269.1	210.3
67.5°	925.2	855.1	787.8	720.5	656.0	588.7	521.5	451.4	375.7	297.2	232.7
65°	1045.7	958.8	877.5	801.8	726.1	653.2	577.5	501.8	417.7	328.0	252.3
62.5°	1166.3	1070.9	975.6	880.3	796.2	714.9	633.6	549.5	457.0	361.7	271.9
60°	1295.2	1185.9	1076.5	970.0	866.3	776.6	686.9	597.1	499.0	392.5	291.6
57.5°	1438.2	1306.4	1183.1	1062.5	944.8	838.2	740.1	644.8	535.5	423.3	314.0
55°	1600.8	1438.2	1292.4	1157.8	1028.9	899.9	793.4	695.3	577.5	454.2	339.2
52.5°	1771.8	1584.0	1407.4	1256.0	1118.6	972.8	843.9	734.5	619.6	485.0	361.7
50°	1970.9	1732.6	1536.3	1351.3	1197.1	1045.7	897.1	779.4	661.6	521.5	384.1
47.5°	2175.5	1912.0	1665.3	1463.4	1281.2	1115.8	958.8	818.6	700.9	555.1	406.5
45°	2413.8	2083.0	1811.1	1572.8	1362.5	1188.7	1020.5	860.7	734.5	588.7	428.9
42.5°	2643.7	2284.9	1962.4	1693.3	1455.0	1258.8	1076.5	905.5	768.2	622.4	448.6
40°	2915.6	2486.7	2108.2	1808.3	1547.5	1326.1	1132.6	953.2	799.0	653.2	468.2
37.5°	3176.4	2691.4	2284.9	1934.4	1637.2	1393.3	1188.7	998.0	827.0	684.1	493.4
35°	3434.3	2918.4	2453.1	2052.2	1729.8	1469.0	1244.8	1040.1	855.1	709.3	515.8
32.5°	3681.0	3131.5	2624.1	2183.9	1830.7	1539.1	1295.2	1079.3	883.1	731.7	538.3
30°	3910.9	3333.4	2792.3	2318.5	1923.2	1603.6	1342.9	1118.6	916.7	751.3	560.7
27.5°	4121.1	3529.6	2960.5	2444.7	2010.1	1662.5	1393.3	1155.0	944.8	771.0	580.3
25°	4311.8	3706.2	3114.7	2559.6	2088.6	1727.0	1441.0	1191.5	970.0	787.8	597.1
22.5°	4491.2	3868.8	3254.9	2674.5	2183.9	1791.4	1485.9	1225.1	995.2	804.6	614.0
20°	4648.2	4017.4	3389.4	2789.5	2268.0	1850.3	1525.1	1256.0	1017.7	815.8	630.8
17.5°	4774.4	4149.2	3510.0	2890.4	2340.9	1900.8	1558.7	1284.0	1037.3	829.8	642.0
15°	4886.5	4261.3	3610.9	2977.3	2405.4	1942.8	1589.6	1306.4	1054.1	838.2	656.0
12.5°	4981.8	4356.6	3697.8	3053.0	2461.5	1979.3	1614.8	1323.3	1068.1	846.7	664.4
10°	5060.3	4432.3	3770.7	3111.9	2506.3	2007.3	1634.4	1340.1	1079.3	855.1	672.8
7.5°	5119.2	4488.4	3824.0	3162.3	2542.8	2026.9	1651.3	1351.3	1090.6	860.7	686.9
5°	5164.0	4536.1	3866.0	3196.0	2570.8	2055.0	1670.9	1365.3	1101.8	866.3	686.9
2.5°	5197.7	4575.3	3899.7	3224.0	2593.2	2049.4	1670.9	1362.5	1101.8	866.3	684.1
0°	5192.1	4578.1	3896.9	3224.0	2593.2	2043.8	1670.9	1359.7	1101.8	866.3	684.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.6	14.0	5.6	0.0
85°	42.1	28.0	14.0	0.0
82.5°	61.7	39.2	19.6	0.0
80°	81.3	53.3	25.2	0.0
77.5°	103.7	67.3	33.6	0.0
75°	123.4	78.5	39.2	0.0
72.5°	143.0	92.5	44.9	0.0
70°	159.8	103.7	50.5	0.0
67.5°	176.6	117.7	58.9	0.0
65°	190.6	129.0	64.5	0.0
62.5°	201.9	143.0	70.1	0.0
60°	215.9	154.2	75.7	0.0
57.5°	227.1	162.6	81.3	0.0
55°	238.3	168.2	86.9	0.0
52.5°	249.5	176.6	92.5	0.0
50°	260.7	185.0	98.1	0.0
47.5°	271.9	190.6	100.9	0.0
45°	288.8	199.0	106.5	0.0
42.5°	302.8	204.7	112.1	0.0
40°	316.8	210.3	114.9	0.0
37.5°	330.8	215.9	120.6	0.0
35°	344.8	221.5	123.4	0.0
32.5°	356.0	227.1	126.2	0.0
30°	367.3	232.7	129.0	0.0
27.5°	378.5	235.5	131.8	0.0
25°	386.9	241.1	134.6	0.0
22.5°	395.3	243.9	137.4	0.0
20°	400.9	246.7	140.2	0.0
17.5°	409.3	249.5	143.0	0.0
15°	412.1	252.3	148.6	0.0
12.5°	417.7	255.1	148.6	0.0
10°	420.5	257.9	148.6	0.0
7.5°	426.1	257.9	148.6	0.0
5°	423.3	257.9	148.6	0.0
2.5°	423.3	257.9	148.6	0.0
0°	420.5	257.9	148.6	0.0

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