

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: P628228

Luminaire Tested: **IFLD-L-SA7A-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628228
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

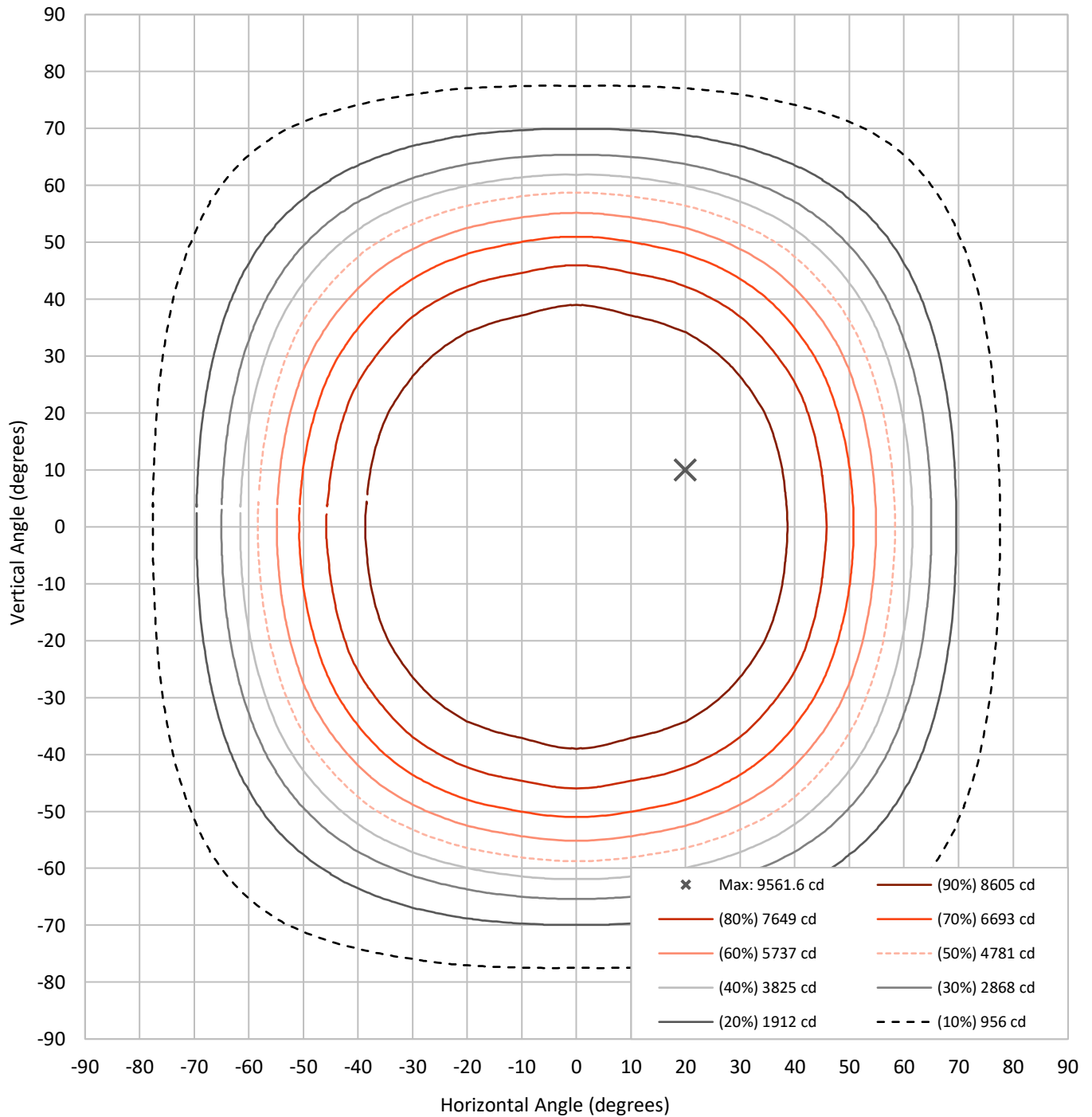
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29333.7 lumens	Max Intensity:	9561.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	134.8 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:	17999.8 lumens	Field Lumens:	21578.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	217.6		
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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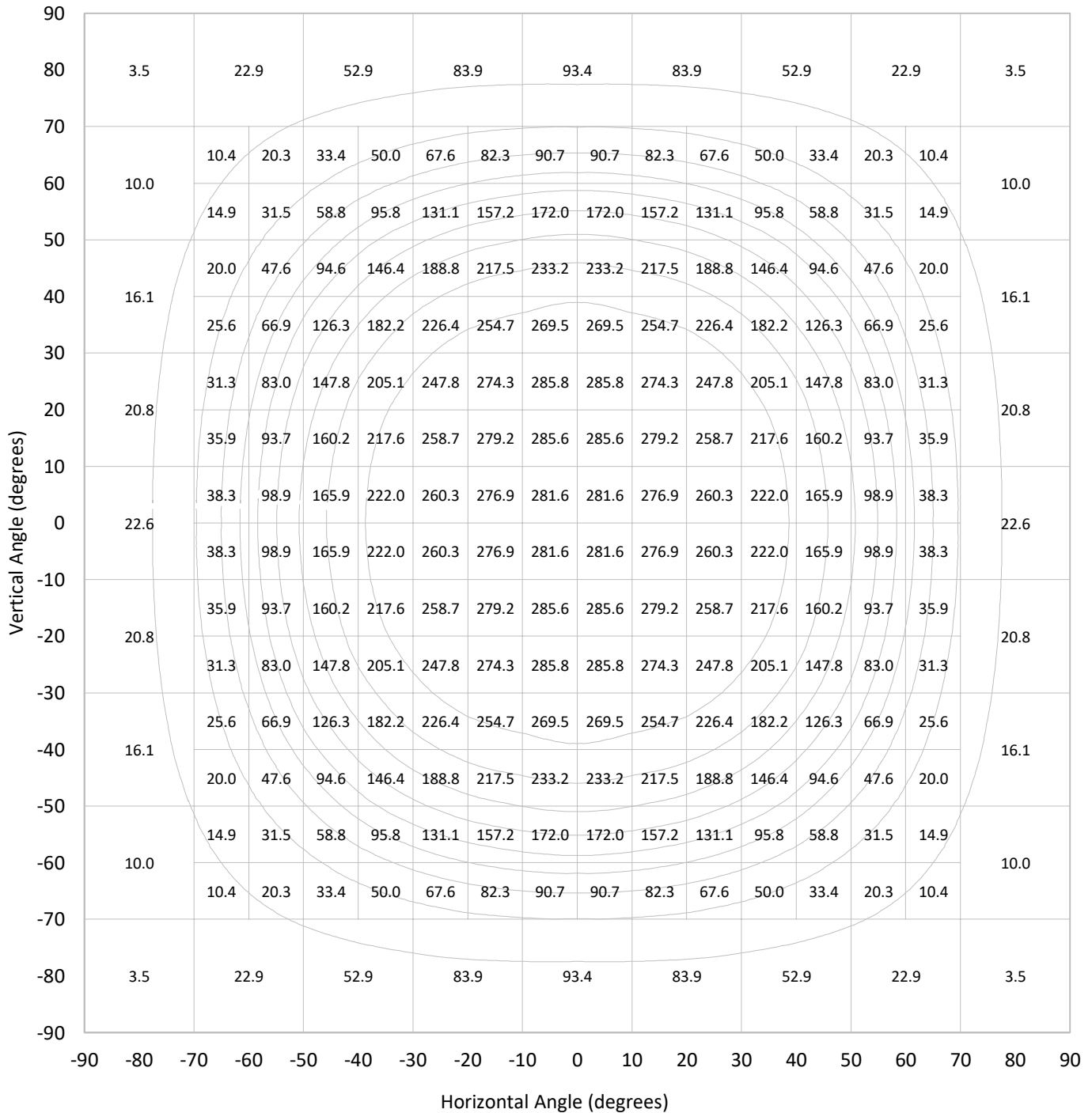
Iso-Candela Plot





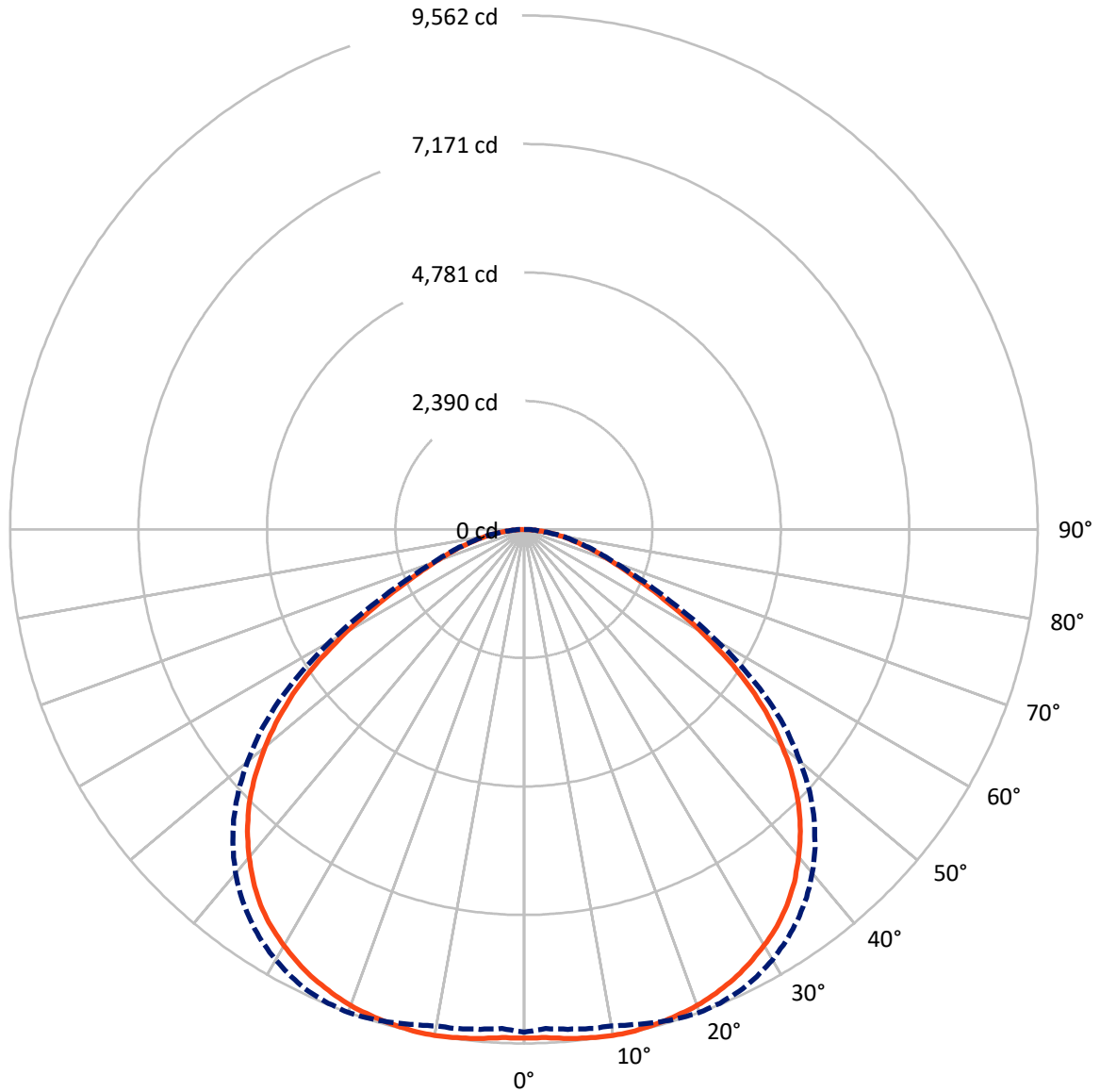
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Lumen Table



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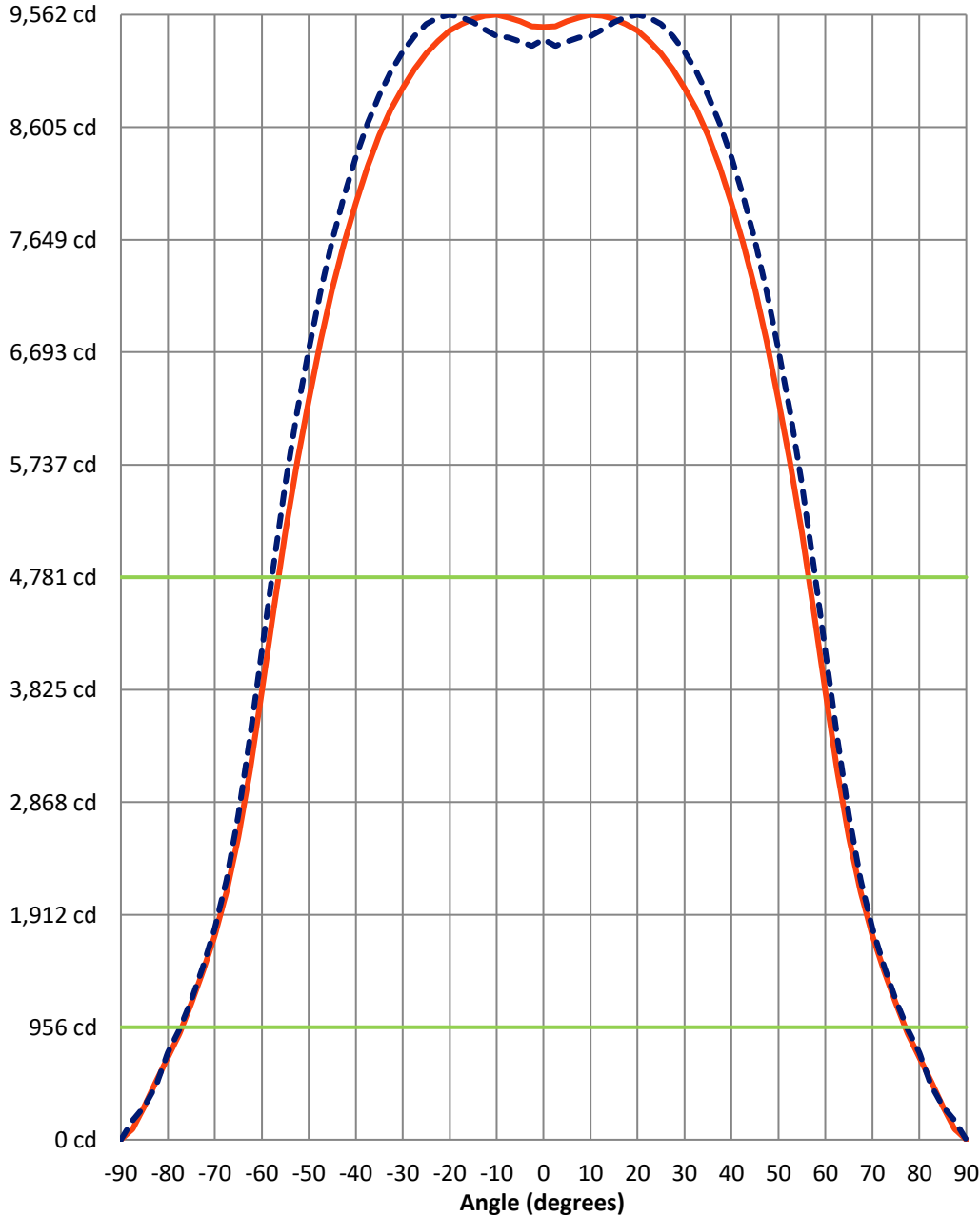
Luminous Intensity Polar Plot



— 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: 17999.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 21578.6
 Efficiency: 73.6%

Spill:
 Lumens: 7755.1
 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°	77.2	83.3	86.4	89.5	92.6	95.7	98.8	95.7	92.6	92.6	89.5
85°	206.8	213.0	216.0	237.7	259.3	271.6	287.0	283.9	283.9	280.9	277.8
82.5°	413.6	432.1	447.5	469.1	481.5	500.0	512.3	503.1	496.9	484.6	475.3
80°	734.6	740.7	743.8	746.9	731.5	728.4	722.2	713.0	700.6	685.2	669.7
77.5°	935.2	941.3	947.5	941.3	938.3	935.2	925.9	916.7	904.3	892.0	873.4
75°	1237.6	1237.6	1237.6	1228.4	1222.2	1212.9	1197.5	1182.1	1160.5	1135.8	1108.0
72.5°	1558.6	1555.5	1552.4	1533.9	1518.5	1500.0	1478.4	1459.9	1435.2	1407.4	1370.4
70°	1895.0	1901.2	1904.3	1879.6	1861.1	1836.4	1808.6	1774.7	1737.6	1697.5	1645.0
67.5°	2358.0	2351.8	2345.6	2311.7	2287.0	2253.1	2212.9	2163.6	2108.0	2046.3	1972.2
65°	2932.1	2941.3	2922.8	2888.9	2842.6	2787.0	2725.3	2654.3	2571.0	2478.4	2373.4
62.5°	3626.5	3641.9	3620.3	3577.1	3518.5	3444.4	3358.0	3256.1	3141.9	3012.3	2882.7
60°	4416.6	4413.5	4373.4	4314.8	4237.6	4145.0	4049.3	3938.2	3808.6	3657.4	3500.0
57.5°	5141.9	5135.7	5086.4	5027.7	4950.6	4851.8	4749.9	4632.7	4496.9	4336.4	4154.3
55°	5793.1	5787.0	5737.6	5675.9	5595.6	5496.8	5404.3	5293.1	5160.4	4990.7	4796.2
52.5°	6370.3	6373.4	6330.2	6262.3	6175.8	6080.2	5990.7	5879.6	5753.0	5583.3	5395.0
50°	6901.1	6898.1	6851.8	6790.0	6709.8	6617.2	6527.7	6416.6	6283.9	6120.3	5938.2
47.5°	7395.0	7388.8	7336.3	7268.4	7185.1	7104.8	7021.5	6922.7	6783.9	6620.3	6438.2
45°	7808.5	7796.2	7743.7	7678.9	7598.7	7527.7	7453.6	7379.5	7231.4	7080.2	6907.3
42.5°	8163.5	8160.4	8107.9	8043.1	7962.9	7901.1	7833.2	7740.6	7617.2	7478.3	7308.5
40°	8503.0	8478.3	8425.8	8364.1	8290.0	8237.5	8169.6	8077.1	7956.7	7820.9	7657.3
37.5°	8756.1	8759.1	8703.6	8635.7	8570.9	8521.5	8459.8	8373.3	8268.4	8135.7	7972.1
35°	8996.8	8981.4	8935.1	8876.4	8817.8	8762.2	8697.4	8623.3	8536.9	8413.5	8259.2
32.5°	9154.2	9175.8	9120.3	9058.5	9024.6	8981.4	8913.5	8836.3	8759.1	8635.7	8496.8
30°	9327.0	9308.5	9265.3	9212.8	9188.2	9160.4	9101.7	9027.7	8938.2	8827.0	8697.4
27.5°	9447.4	9438.1	9385.7	9336.3	9324.0	9299.3	9253.0	9188.2	9098.6	8990.6	8870.3
25°	9499.9	9506.0	9456.7	9428.9	9428.9	9413.5	9376.4	9320.9	9231.4	9132.6	9015.3
22.5°	9524.6	9518.4	9484.4	9478.3	9493.7	9481.4	9465.9	9416.5	9336.3	9256.1	9157.3
20°	9540.0	9496.8	9465.9	9490.6	9509.1	9506.0	9493.7	9462.8	9425.8	9357.9	9271.5
17.5°	9506.0	9478.3	9441.2	9478.3	9518.4	9521.5	9509.1	9490.6	9481.4	9438.1	9361.0
15°	9422.7	9401.1	9407.3	9444.3	9490.6	9506.0	9515.3	9536.9	9524.6	9490.6	9422.7
12.5°	9367.2	9339.4	9367.2	9404.2	9428.9	9438.1	9512.2	9552.3	9552.3	9521.5	9478.3
10°	9351.7	9296.2	9333.2	9367.2	9379.5	9435.1	9496.8	9540.0	9561.6	9536.9	9481.4
7.5°	9320.9	9283.8	9299.3	9314.7	9385.7	9425.8	9459.8	9506.0	9536.9	9533.8	9484.4
5°	9305.4	9259.1	9265.3	9330.1	9379.5	9407.3	9419.6	9459.8	9506.0	9515.3	9478.3
2.5°	9265.3	9243.7	9290.0	9296.2	9333.2	9354.8	9367.2	9404.2	9462.8	9484.4	9469.0
0°	9243.7	9212.8	9182.0	9206.7	9268.4	9314.7	9333.2	9388.8	9456.7	9478.3	9444.3



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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°	86.4	83.3	80.2	77.2	80.2	80.2	80.2	77.2	80.2	77.2	77.2
85°	268.5	256.2	246.9	234.6	222.2	213.0	200.6	188.3	185.2	182.1	175.9
82.5°	463.0	447.5	432.1	413.6	395.1	373.5	351.8	327.2	321.0	314.8	305.6
80°	651.2	629.6	608.0	586.4	567.9	546.3	521.6	493.8	475.3	459.9	441.4
77.5°	848.8	817.9	787.0	750.0	728.4	706.8	682.1	654.3	626.5	601.8	574.1
75°	1074.1	1040.1	1009.2	972.2	932.1	892.0	851.8	814.8	774.7	737.6	700.6
72.5°	1324.1	1274.7	1225.3	1179.0	1129.6	1080.2	1027.8	978.4	929.0	879.6	827.1
70°	1586.4	1524.7	1462.9	1401.2	1336.4	1271.6	1209.9	1148.1	1086.4	1021.6	963.0
67.5°	1895.0	1824.1	1743.8	1657.4	1561.7	1478.4	1398.1	1324.1	1250.0	1175.9	1101.8
65°	2280.8	2182.1	2074.0	1956.8	1845.7	1734.5	1617.3	1506.2	1419.7	1333.3	1250.0
62.5°	2756.1	2617.2	2466.0	2314.8	2179.0	2033.9	1898.1	1753.1	1617.3	1493.8	1392.0
60°	3324.0	3135.8	2950.6	2756.1	2567.9	2370.3	2197.5	2018.5	1848.7	1697.5	1549.4
57.5°	3950.6	3731.4	3509.2	3271.6	3015.4	2783.9	2549.3	2314.8	2114.2	1913.6	1746.9
55°	4586.4	4354.9	4104.9	3836.4	3555.5	3259.2	2941.3	2679.0	2404.3	2169.7	1953.7
52.5°	5191.3	4950.6	4691.3	4444.4	4108.0	3768.5	3419.7	3074.0	2753.1	2453.7	2191.3
50°	5731.4	5496.8	5246.8	4959.8	4648.1	4287.0	3898.1	3509.2	3129.6	2777.7	2450.6
47.5°	6225.2	5996.8	5746.8	5459.8	5175.9	4774.6	4382.7	3953.7	3530.8	3126.5	2743.8
45°	6688.2	6456.7	6197.4	5922.8	5595.6	5237.6	4833.3	4401.2	3947.5	3493.8	3052.4
42.5°	7107.9	6876.5	6614.1	6330.2	6006.1	5651.2	5259.2	4824.0	4367.2	3873.4	3388.8
40°	7475.2	7249.9	6996.8	6700.5	6398.1	6024.6	5638.8	5225.2	4753.0	4256.1	3722.2
37.5°	7796.2	7586.3	7336.3	7043.1	6722.1	6388.8	5990.7	5577.1	5151.2	4611.1	4064.8
35°	8080.1	7885.7	7629.5	7351.8	7036.9	6685.1	6311.6	5907.3	5447.5	4941.3	4410.4
32.5°	8327.1	8129.5	7895.0	7617.2	7311.6	6981.4	6598.7	6191.3	5756.1	5240.7	4663.5
30°	8536.9	8345.6	8123.4	7861.0	7567.8	7240.6	6867.2	6456.7	6012.3	5499.9	4928.9
27.5°	8719.0	8536.9	8320.9	8077.1	7796.2	7481.4	7104.8	6691.3	6237.6	5743.8	5172.8
25°	8876.4	8700.5	8499.9	8268.4	7990.6	7682.0	7327.1	6895.0	6441.3	5944.4	5379.6
22.5°	9018.4	8848.6	8648.0	8422.7	8169.6	7861.0	7503.0	7074.0	6614.1	6123.4	5567.8
20°	9144.9	8987.5	8790.0	8558.5	8305.4	7993.7	7638.8	7231.4	6768.4	6287.0	5737.6
17.5°	9246.8	9107.9	8910.4	8666.6	8413.5	8111.0	7765.3	7391.9	6901.1	6425.8	5879.6
15°	9317.8	9182.0	9003.0	8756.1	8509.1	8209.8	7864.1	7478.3	7021.5	6537.0	5996.8
12.5°	9367.2	9222.1	9055.4	8827.0	8580.1	8283.8	7947.4	7567.8	7123.4	6635.7	6098.7
10°	9379.5	9246.8	9080.1	8876.4	8635.7	8348.7	8018.4	7641.9	7206.7	6712.9	6182.0
7.5°	9385.7	9259.1	9107.9	8913.5	8675.8	8398.0	8070.9	7700.5	7268.4	6777.7	6243.7
5°	9382.6	9262.2	9126.4	8938.2	8700.5	8425.8	8104.8	7740.6	7311.6	6820.9	6290.0
2.5°	9373.3	9265.3	9138.8	8956.7	8728.3	8456.7	8138.8	7786.9	7357.9	6857.9	6327.1
0°	9398.0	9305.4	9144.9	8950.5	8734.5	8456.7	8135.7	7793.1	7364.1	6854.8	6324.0



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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°	77.2	74.1	74.1	71.0	67.9	64.8	58.6	55.6	49.4	40.1	30.9
85°	166.7	157.4	148.1	142.0	135.8	129.6	120.4	111.1	98.8	80.2	61.7
82.5°	293.2	274.7	256.2	234.6	216.0	197.5	182.1	166.7	148.1	120.4	92.6
80°	419.7	392.0	364.2	333.3	305.6	274.7	246.9	222.2	197.5	160.5	123.5
77.5°	546.3	509.3	469.1	432.1	392.0	351.8	311.7	277.8	240.7	197.5	154.3
75°	663.6	620.4	583.3	530.9	481.5	429.0	376.5	330.2	283.9	231.5	185.2
72.5°	780.9	725.3	672.8	623.4	567.9	503.1	444.4	385.8	327.2	265.4	209.9
70°	898.1	830.2	765.4	706.8	645.1	580.2	509.3	441.4	370.4	296.3	231.5
67.5°	1018.5	941.3	867.3	793.2	722.2	648.1	574.1	496.9	413.6	327.2	256.2
65°	1151.2	1055.5	966.0	882.7	799.4	719.1	635.8	552.5	459.9	361.1	277.8
62.5°	1283.9	1179.0	1074.1	969.1	876.5	787.0	697.5	604.9	503.1	398.1	299.4
60°	1425.9	1305.5	1185.2	1067.9	953.7	854.9	756.2	657.4	549.4	432.1	321.0
57.5°	1583.3	1438.3	1302.5	1169.7	1040.1	922.8	814.8	709.9	589.5	466.0	345.7
55°	1762.3	1583.3	1422.8	1274.7	1132.7	990.7	873.4	765.4	635.8	500.0	373.5
52.5°	1950.6	1743.8	1549.4	1382.7	1231.5	1071.0	929.0	808.6	682.1	533.9	398.1
50°	2169.7	1907.4	1691.3	1487.6	1317.9	1151.2	987.6	858.0	728.4	574.1	422.8
47.5°	2395.0	2104.9	1833.3	1611.1	1410.5	1228.4	1055.5	901.2	771.6	611.1	447.5
45°	2657.4	2293.2	1993.8	1731.5	1500.0	1308.6	1123.4	947.5	808.6	648.1	472.2
42.5°	2910.5	2515.4	2160.5	1864.2	1601.8	1385.8	1185.2	996.9	845.7	685.2	493.8
40°	3209.8	2737.6	2321.0	1990.7	1703.7	1459.9	1246.9	1049.4	879.6	719.1	515.4
37.5°	3496.9	2962.9	2515.4	2129.6	1802.4	1533.9	1308.6	1098.8	910.5	753.1	543.2
35°	3780.8	3212.9	2700.6	2259.2	1904.3	1617.3	1370.4	1145.0	941.3	780.9	567.9
32.5°	4052.4	3447.5	2888.9	2404.3	2015.4	1694.4	1425.9	1188.3	972.2	805.5	592.6
30°	4305.5	3669.7	3074.0	2552.4	2117.3	1765.4	1478.4	1231.5	1009.2	827.1	617.3
27.5°	4537.0	3885.8	3259.2	2691.3	2212.9	1830.2	1533.9	1271.6	1040.1	848.8	638.9
25°	4746.9	4080.2	3429.0	2817.9	2299.4	1901.2	1586.4	1311.7	1067.9	867.3	657.4
22.5°	4944.4	4259.2	3583.3	2944.4	2404.3	1972.2	1635.8	1348.7	1095.7	885.8	675.9
20°	5117.2	4422.8	3731.4	3070.9	2496.9	2037.0	1679.0	1382.7	1120.4	898.1	694.4
17.5°	5256.1	4567.8	3864.1	3182.1	2577.1	2092.6	1716.0	1413.6	1142.0	913.6	706.8
15°	5379.6	4691.3	3975.3	3277.7	2648.1	2138.9	1750.0	1438.3	1160.5	922.8	722.2
12.5°	5484.5	4796.2	4070.9	3361.1	2709.8	2179.0	1777.8	1456.8	1175.9	932.1	731.5
10°	5570.9	4879.6	4151.2	3425.9	2759.2	2209.8	1799.4	1475.3	1188.3	941.3	740.7
7.5°	5635.7	4941.3	4209.8	3481.4	2799.3	2231.5	1817.9	1487.6	1200.6	947.5	756.2
5°	5685.1	4993.8	4256.1	3518.5	2830.2	2262.3	1839.5	1503.1	1212.9	953.7	756.2
2.5°	5722.1	5037.0	4293.2	3549.3	2854.9	2256.1	1839.5	1500.0	1212.9	953.7	753.1
0°	5716.0	5040.1	4290.1	3549.3	2854.9	2250.0	1839.5	1496.9	1212.9	953.7	753.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.6	15.4	6.2	0.0
85°	46.3	30.9	15.4	0.0
82.5°	67.9	43.2	21.6	0.0
80°	89.5	58.6	27.8	0.0
77.5°	114.2	74.1	37.0	0.0
75°	135.8	86.4	43.2	0.0
72.5°	157.4	101.9	49.4	0.0
70°	175.9	114.2	55.6	0.0
67.5°	194.4	129.6	64.8	0.0
65°	209.9	142.0	71.0	0.0
62.5°	222.2	157.4	77.2	0.0
60°	237.7	169.8	83.3	0.0
57.5°	250.0	179.0	89.5	0.0
55°	262.3	185.2	95.7	0.0
52.5°	274.7	194.4	101.9	0.0
50°	287.0	203.7	108.0	0.0
47.5°	299.4	209.9	111.1	0.0
45°	317.9	219.1	117.3	0.0
42.5°	333.3	225.3	123.5	0.0
40°	348.8	231.5	126.5	0.0
37.5°	364.2	237.7	132.7	0.0
35°	379.6	243.8	135.8	0.0
32.5°	392.0	250.0	138.9	0.0
30°	404.3	256.2	142.0	0.0
27.5°	416.7	259.3	145.1	0.0
25°	425.9	265.4	148.1	0.0
22.5°	435.2	268.5	151.2	0.0
20°	441.4	271.6	154.3	0.0
17.5°	450.6	274.7	157.4	0.0
15°	453.7	277.8	163.6	0.0
12.5°	459.9	280.9	163.6	0.0
10°	463.0	283.9	163.6	0.0
7.5°	469.1	283.9	163.6	0.0
5°	466.0	283.9	163.6	0.0
2.5°	466.0	283.9	163.6	0.0
0°	463.0	283.9	163.6	0.0

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