

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: P628453

Luminaire Tested: **IFLD-S-SA6D-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628453
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

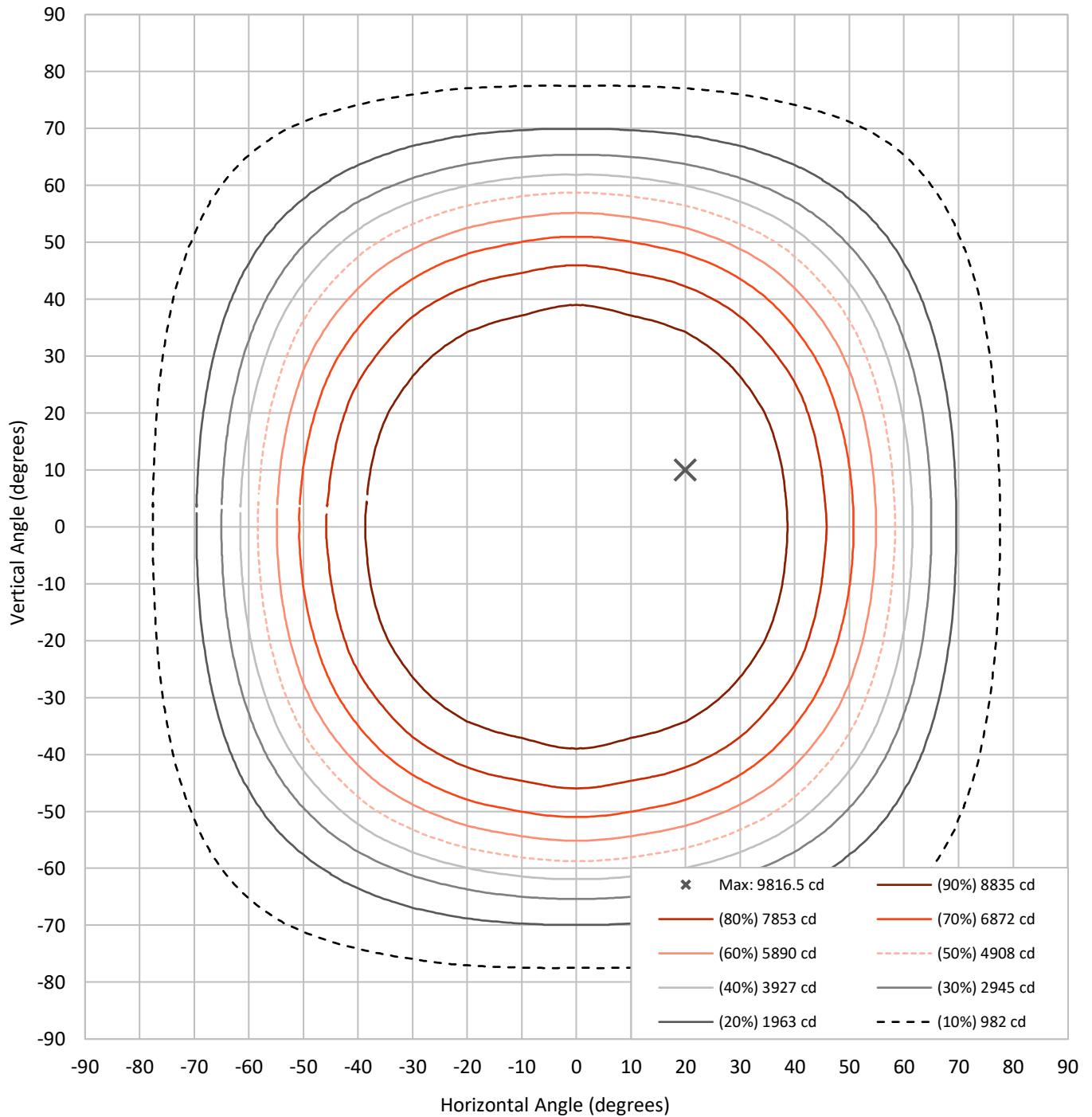
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30115.6 lumens	Max Intensity:	9816.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	81.8 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:	18479.5 lumens	Field Lumens:	22153.8 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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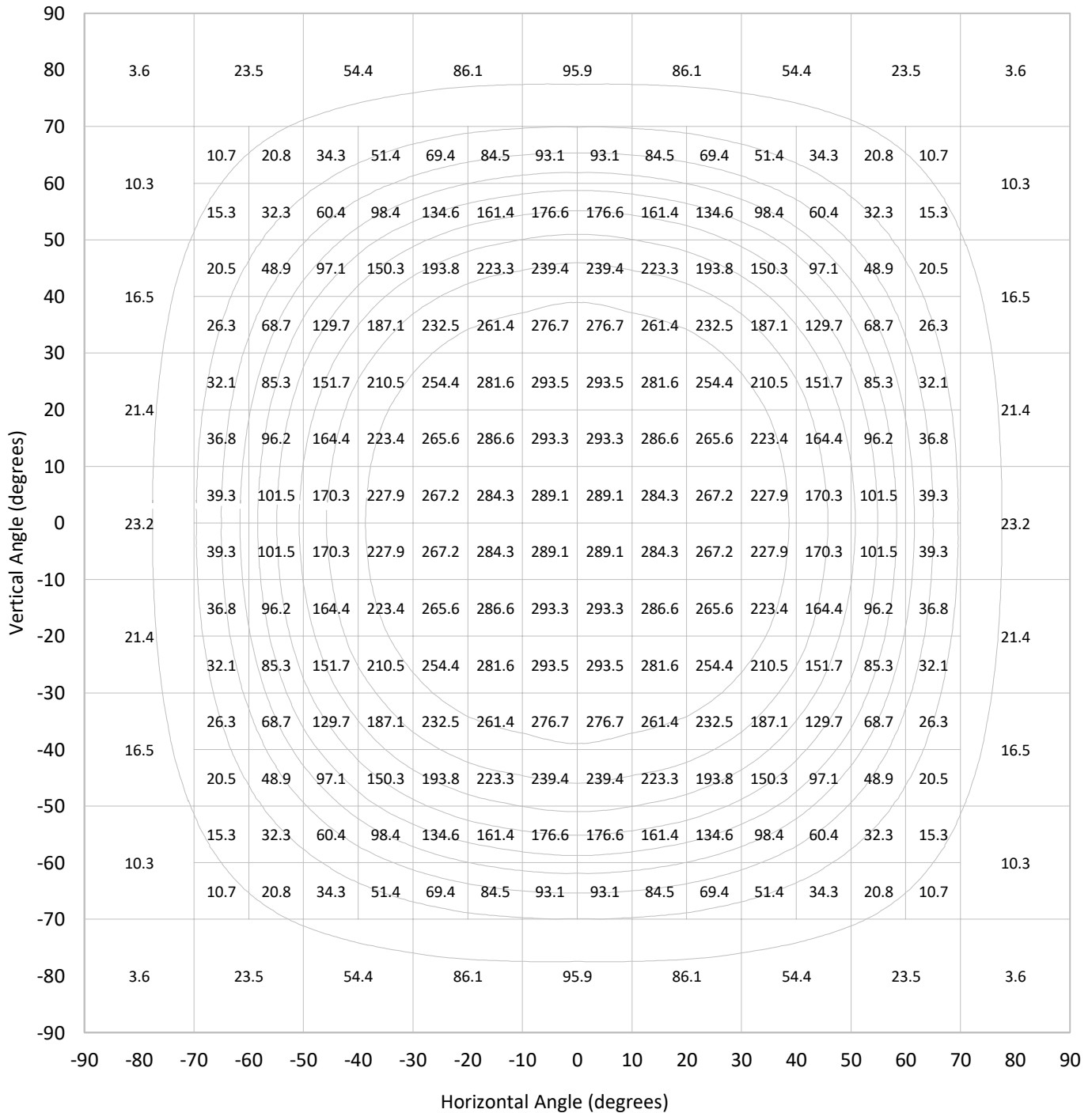
Iso-Candela Plot





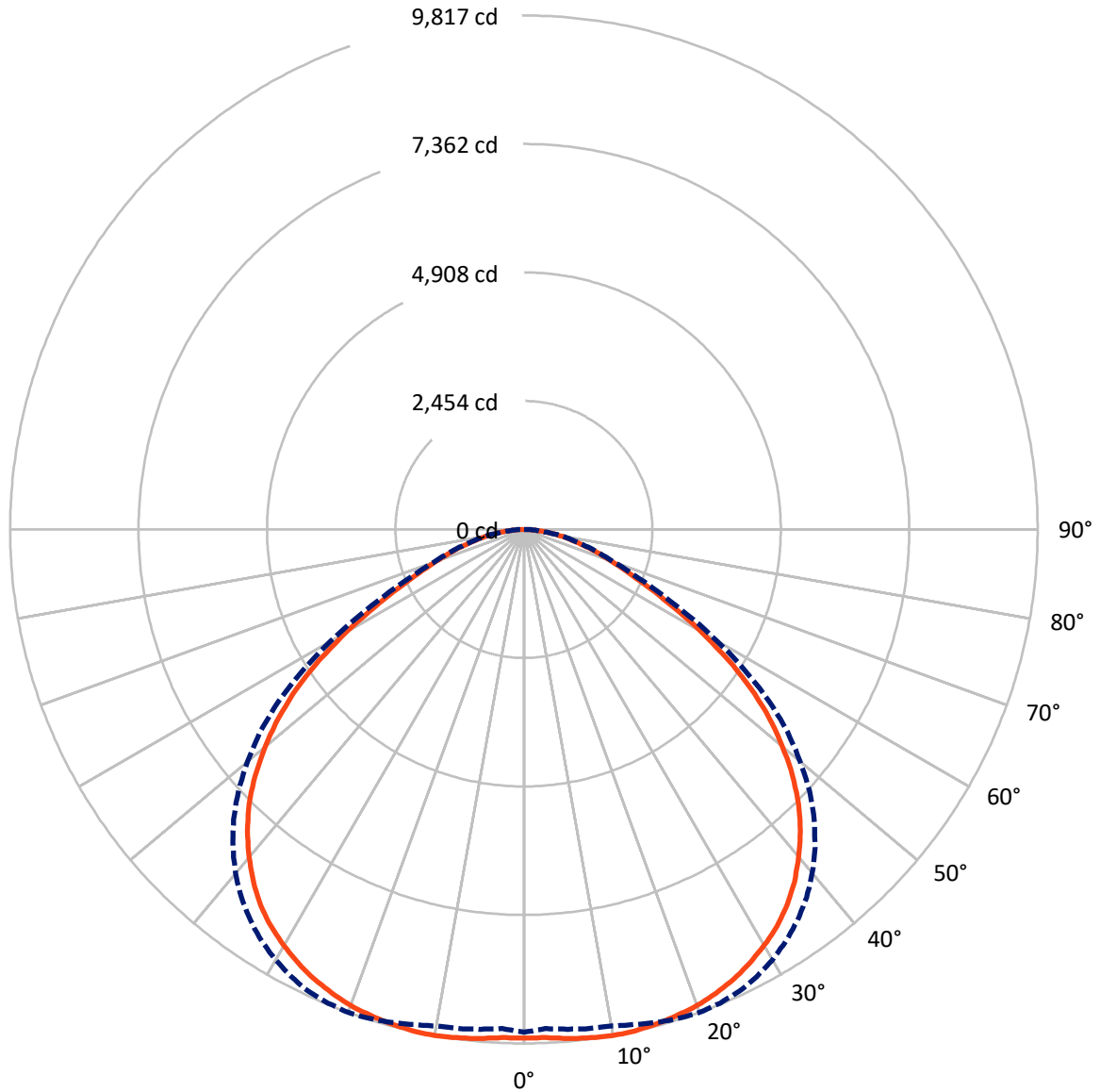
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Lumen Table



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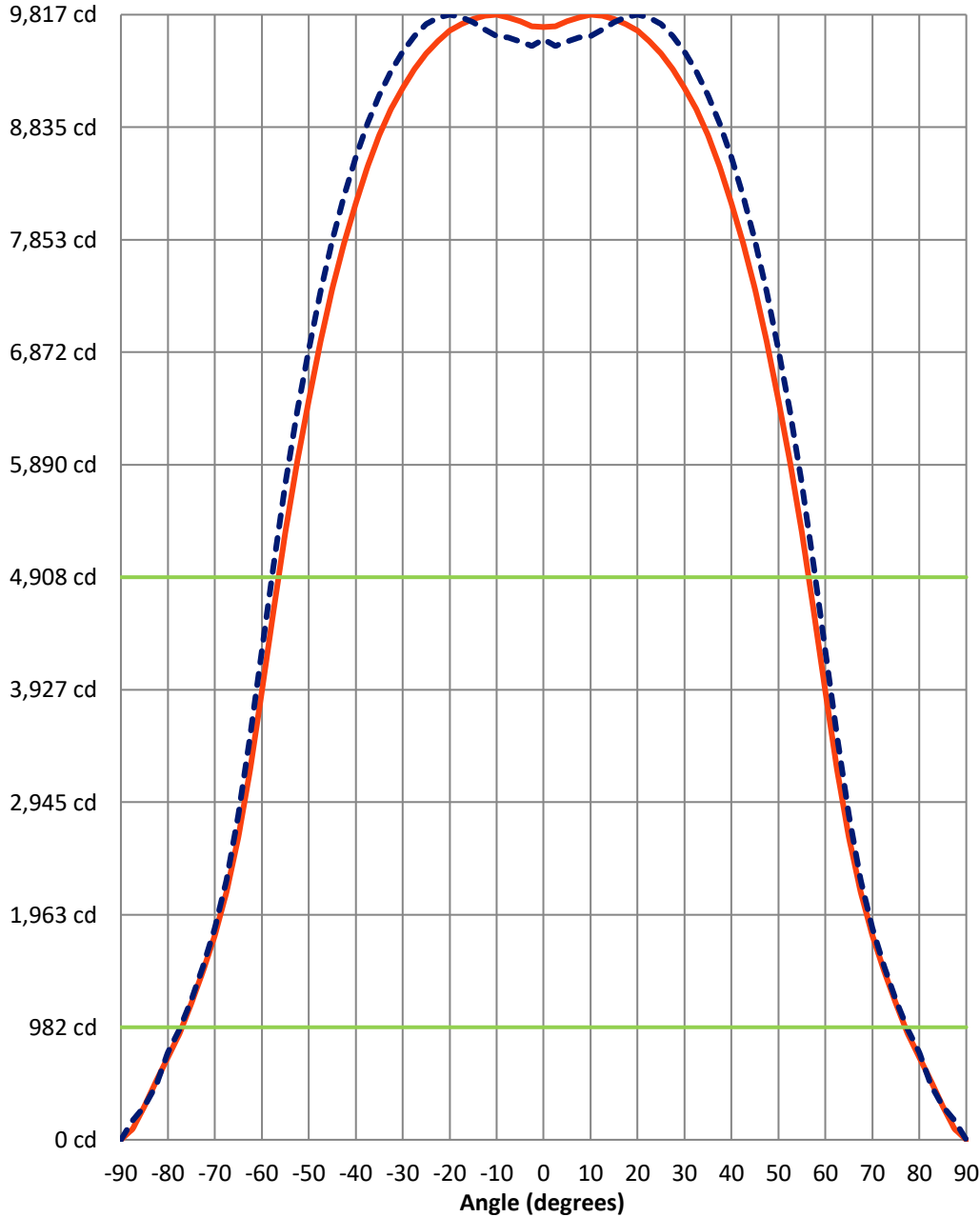
Luminous Intensity Polar Plot



— 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: 18479.5
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 22153.8
 Efficiency: 73.6%

Spill:
 Lumens: 7961.8
 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°	79.2	85.6	88.7	91.9	95.1	98.2	101.4	98.2	95.1	91.9	87.5
85°	212.3	218.6	221.8	244.0	266.2	278.8	294.7	291.5	288.3	285.2	282.0
82.5°	424.6	443.6	459.5	481.6	494.3	513.3	526.0	516.5	497.5	488.0	478.5
80°	754.1	760.5	763.6	766.8	751.0	747.8	741.5	732.0	703.4	687.6	672.1
77.5°	960.1	966.4	972.8	966.4	963.3	960.1	950.6	941.1	915.7	896.7	882.2
75°	1270.6	1270.6	1270.6	1261.1	1254.8	1245.3	1229.4	1213.6	1166.1	1137.5	1113.0
72.5°	1600.2	1597.0	1593.8	1574.8	1559.0	1540.0	1517.8	1498.8	1444.9	1406.9	1375.0
70°	1945.5	1951.9	1955.1	1929.7	1910.7	1885.3	1856.8	1822.0	1742.8	1688.9	1645.0
67.5°	2420.8	2414.5	2408.2	2373.3	2348.0	2313.1	2271.9	2221.2	2100.8	2024.8	1955.0
65°	3010.2	3019.7	3000.7	2965.9	2918.3	2861.3	2797.9	2725.0	2544.4	2436.7	2345.0
62.5°	3723.2	3739.0	3716.8	3672.5	3612.3	3536.2	3447.5	3342.9	3092.6	2959.5	2845.0
60°	4534.3	4531.2	4490.0	4429.8	4350.6	4255.5	4157.3	4043.2	3754.8	3593.2	3455.0
57.5°	5279.0	5272.6	5221.9	5161.7	5082.5	4981.1	4876.5	4756.1	4451.9	4265.0	4105.0
55°	5947.5	5941.2	5890.5	5827.1	5744.8	5643.4	5548.3	5434.2	5123.7	4924.1	4745.0
52.5°	6540.1	6543.3	6498.9	6429.2	6340.5	6242.2	6150.3	6036.3	5732.1	5538.8	5365.0
50°	7085.1	7081.9	7034.4	6971.0	6888.6	6793.6	6701.7	6587.6	6283.4	6096.5	5925.0
47.5°	7592.1	7585.7	7531.9	7462.2	7376.6	7294.2	7208.7	7107.3	6796.7	6609.8	6445.0
45°	8016.7	8004.0	7950.1	7883.6	7801.2	7728.3	7652.3	7576.2	7268.9	7091.4	6935.0
42.5°	8381.1	8377.9	8324.0	8257.5	8175.1	8111.7	8042.0	7947.0	7677.6	7503.4	7345.0
40°	8729.6	8704.3	8650.4	8587.0	8511.0	8457.1	8387.4	8292.3	8029.3	7861.4	7705.0
37.5°	8989.4	8992.6	8935.6	8865.9	8799.3	8748.6	8685.3	8596.5	8352.6	8184.6	8030.0
35°	9236.6	9220.8	9173.2	9113.0	9052.8	8995.8	8929.2	8853.2	8637.7	8479.3	8330.0
32.5°	9398.2	9420.4	9363.3	9300.0	9265.1	9220.8	9151.1	9071.8	8865.9	8723.3	8585.0
30°	9575.6	9556.6	9512.3	9458.4	9433.1	9404.5	9344.3	9268.3	9062.3	8929.2	8795.0
27.5°	9699.2	9689.7	9635.9	9585.2	9572.5	9547.1	9499.6	9433.1	9230.3	9106.7	8975.0
25°	9753.1	9759.4	9708.7	9680.2	9680.2	9664.4	9626.3	9569.3	9376.0	9255.6	9125.0
22.5°	9778.4	9772.1	9737.2	9730.9	9746.8	9734.1	9718.2	9667.5	9502.8	9401.4	9275.0
20°	9794.3	9749.9	9718.2	9743.6	9762.6	9759.4	9746.8	9715.1	9607.3	9518.6	9395.0
17.5°	9759.4	9730.9	9692.9	9730.9	9772.1	9775.3	9762.6	9743.6	9689.7	9610.5	9490.0
15°	9673.9	9651.7	9658.0	9696.1	9743.6	9759.4	9768.9	9791.1	9743.6	9673.9	9560.0
12.5°	9616.8	9588.3	9616.8	9654.9	9680.2	9689.7	9765.8	9807.0	9775.3	9730.9	9615.0
10°	9601.0	9544.0	9582.0	9616.8	9629.5	9686.6	9749.9	9794.3	9791.1	9734.1	9615.0
7.5°	9569.3	9531.3	9547.1	9563.0	9635.9	9677.0	9711.9	9759.4	9787.9	9737.2	9615.0
5°	9553.5	9505.9	9512.3	9578.8	9629.5	9658.0	9670.7	9711.9	9768.9	9730.9	9615.0
2.5°	9512.3	9490.1	9537.6	9544.0	9582.0	9604.2	9616.8	9654.9	9737.2	9721.4	9615.0
0°	9490.1	9458.4	9426.7	9452.1	9515.4	9563.0	9582.0	9639.0	9730.9	9696.1	9615.0



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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°	88.7	85.6	82.4	79.2	82.4	82.4	82.4	79.2	82.4	79.2	79.2
85°	275.7	263.0	253.5	240.8	228.1	218.6	206.0	193.3	190.1	187.0	180.6
82.5°	475.3	459.5	443.6	424.6	405.6	383.4	361.2	335.9	329.5	323.2	313.7
80°	668.6	646.4	624.2	602.0	583.0	560.9	535.5	507.0	488.0	472.1	453.1
77.5°	871.4	839.7	808.0	770.0	747.8	725.6	700.3	671.8	643.2	617.9	589.4
75°	1102.7	1067.8	1036.1	998.1	956.9	915.7	874.5	836.5	795.3	757.3	719.3
72.5°	1359.3	1308.7	1258.0	1210.4	1159.7	1109.0	1055.2	1004.5	953.8	903.1	849.2
70°	1628.7	1565.3	1501.9	1438.6	1372.0	1305.5	1242.1	1178.7	1115.4	1048.8	988.6
67.5°	1945.5	1872.7	1790.3	1701.6	1603.3	1517.8	1435.4	1359.3	1283.3	1207.3	1131.2
65°	2341.6	2240.2	2129.3	2008.9	1894.9	1780.8	1660.4	1546.3	1457.6	1368.9	1283.3
62.5°	2829.6	2687.0	2531.7	2376.5	2237.1	2088.1	1948.7	1799.8	1660.4	1533.6	1429.1
60°	3412.6	3219.3	3029.2	2829.6	2636.3	2433.5	2256.1	2072.3	1898.0	1742.8	1590.7
57.5°	4055.9	3830.9	3602.8	3358.8	3095.8	2858.1	2617.3	2376.5	2170.5	1964.6	1793.5
55°	4708.6	4471.0	4214.3	3938.6	3650.3	3346.1	3019.7	2750.4	2468.4	2227.6	2005.8
52.5°	5329.7	5082.5	4816.3	4562.9	4217.5	3868.9	3510.9	3156.0	2826.4	2519.1	2249.7
50°	5884.2	5643.4	5386.7	5092.0	4772.0	4401.2	4002.0	3602.8	3213.0	2851.8	2515.9
47.5°	6391.2	6156.7	5900.0	5605.3	5313.8	4901.9	4499.5	4059.0	3624.9	3209.8	2816.9
45°	6866.5	6628.8	6362.6	6080.6	5744.8	5377.2	4962.1	4518.5	4052.7	3586.9	3133.8
42.5°	7297.4	7059.7	6790.4	6498.9	6166.2	5801.8	5399.4	4952.6	4483.6	3976.7	3479.2
40°	7674.5	7443.1	7183.3	6879.1	6568.6	6185.2	5789.1	5364.5	4879.7	4369.6	3821.4
37.5°	8004.0	7788.5	7531.9	7230.9	6901.3	6559.1	6150.3	5725.7	5288.5	4734.0	4173.1
35°	8295.5	8095.9	7832.9	7547.7	7224.5	6863.3	6479.9	6064.8	5592.7	5073.0	4528.0
32.5°	8549.0	8346.2	8105.4	7820.2	7506.5	7167.5	6774.6	6356.3	5909.5	5380.4	4787.8
30°	8764.5	8568.0	8339.9	8070.5	7769.5	7433.6	7050.2	6628.8	6172.5	5646.5	5060.3
27.5°	8951.4	8764.5	8542.7	8292.3	8004.0	7680.8	7294.2	6869.6	6403.8	5896.9	5310.7
25°	9113.0	8932.4	8726.5	8488.8	8203.6	7886.8	7522.4	7078.8	6613.0	6102.8	5523.0
22.5°	9258.8	9084.5	8878.5	8647.2	8387.4	8070.5	7703.0	7262.5	6790.4	6286.6	5716.2
20°	9388.7	9227.1	9024.3	8786.7	8526.8	8206.8	7842.4	7424.1	6948.8	6454.5	5890.5
17.5°	9493.3	9350.7	9147.9	8897.6	8637.7	8327.2	7972.3	7588.9	7085.1	6597.1	6036.3
15°	9566.1	9426.7	9242.9	8989.4	8736.0	8428.6	8073.7	7677.6	7208.7	6711.2	6156.7
12.5°	9616.8	9467.9	9296.8	9062.3	8808.8	8504.6	8159.3	7769.5	7313.2	6812.6	6261.2
10°	9629.5	9493.3	9322.2	9113.0	8865.9	8571.2	8232.1	7845.6	7398.8	6891.8	6346.8
7.5°	9635.9	9505.9	9350.7	9151.1	8907.1	8621.9	8286.0	7905.8	7462.2	6958.3	6410.2
5°	9632.7	9509.1	9369.7	9176.4	8932.4	8650.4	8320.9	7947.0	7506.5	7002.7	6457.7
2.5°	9623.2	9512.3	9382.4	9195.4	8960.9	8682.1	8355.7	7994.5	7554.1	7040.7	6495.7
0°	9648.5	9553.5	9388.7	9189.1	8967.3	8682.1	8352.6	8000.8	7560.4	7037.6	6492.6



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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°	79.2	76.0	76.0	72.9	69.7	66.5	60.2	57.0	50.7	41.2	31.7
85°	171.1	161.6	152.1	145.8	139.4	133.1	123.6	114.1	101.4	82.4	63.4
82.5°	301.0	282.0	263.0	240.8	221.8	202.8	187.0	171.1	152.1	123.6	95.1
80°	430.9	402.4	373.9	342.2	313.7	282.0	253.5	228.1	202.8	164.8	126.7
77.5°	560.9	522.8	481.6	443.6	402.4	361.2	320.0	285.2	247.2	202.8	158.4
75°	681.3	636.9	598.9	545.0	494.3	440.4	386.6	339.0	291.5	237.6	190.1
72.5°	801.7	744.6	690.8	640.1	583.0	516.5	456.3	396.1	335.9	272.5	215.5
70°	922.1	852.4	785.8	725.6	662.2	595.7	522.8	453.1	380.2	304.2	237.6
67.5°	1045.7	966.4	890.4	814.3	741.5	665.4	589.4	510.2	424.6	335.9	263.0
65°	1181.9	1083.7	991.8	906.2	820.7	738.3	652.7	567.2	472.1	370.7	285.2
62.5°	1318.2	1210.4	1102.7	995.0	899.9	808.0	716.1	621.1	516.5	408.8	307.4
60°	1463.9	1340.3	1216.8	1096.4	979.1	877.7	776.3	674.9	564.0	443.6	329.5
57.5°	1625.5	1476.6	1337.2	1200.9	1067.8	947.4	836.5	728.8	605.2	478.5	354.9
55°	1809.3	1625.5	1460.7	1308.7	1162.9	1017.1	896.7	785.8	652.7	513.3	383.4
52.5°	2002.6	1790.3	1590.7	1419.6	1264.3	1099.5	953.8	830.2	700.3	548.2	408.8
50°	2227.6	1958.2	1736.4	1527.3	1353.0	1181.9	1014.0	880.9	747.8	589.4	434.1
47.5°	2458.9	2161.0	1882.2	1654.0	1448.1	1261.1	1083.7	925.2	792.2	627.4	459.5
45°	2728.2	2354.3	2046.9	1777.6	1540.0	1343.5	1153.4	972.8	830.2	665.4	484.8
42.5°	2988.0	2582.4	2218.1	1913.9	1644.5	1422.7	1216.8	1023.5	868.2	703.4	507.0
40°	3295.4	2810.6	2382.8	2043.8	1749.1	1498.8	1280.1	1077.3	903.1	738.3	529.2
37.5°	3590.1	3041.9	2582.4	2186.4	1850.5	1574.8	1343.5	1128.0	934.8	773.1	557.7
35°	3881.6	3298.6	2772.6	2319.4	1955.1	1660.4	1406.9	1175.6	966.4	801.7	583.0
32.5°	4160.4	3539.4	2965.9	2468.4	2069.1	1739.6	1463.9	1219.9	998.1	827.0	608.4
30°	4420.3	3767.5	3156.0	2620.5	2173.7	1812.5	1517.8	1264.3	1036.1	849.2	633.7
27.5°	4657.9	3989.3	3346.1	2763.1	2271.9	1879.0	1574.8	1305.5	1067.8	871.4	655.9
25°	4873.4	4189.0	3520.4	2893.0	2360.6	1951.9	1628.7	1346.7	1096.4	890.4	674.9
22.5°	5076.2	4372.7	3678.8	3022.9	2468.4	2024.8	1679.4	1384.7	1124.9	909.4	693.9
20°	5253.6	4540.7	3830.9	3152.8	2563.4	2091.3	1723.7	1419.6	1150.2	922.1	712.9
17.5°	5396.2	4689.6	3967.1	3266.9	2645.8	2148.3	1761.8	1451.2	1172.4	937.9	725.6
15°	5523.0	4816.3	4081.2	3365.1	2718.7	2195.9	1796.6	1476.6	1191.4	947.4	741.5
12.5°	5630.7	4924.1	4179.4	3450.7	2782.1	2237.1	1825.1	1495.6	1207.3	956.9	751.0
10°	5719.4	5009.6	4261.8	3517.2	2832.8	2268.8	1847.3	1514.6	1219.9	966.4	760.5
7.5°	5785.9	5073.0	4322.0	3574.2	2874.0	2290.9	1866.3	1527.3	1232.6	972.8	776.3
5°	5836.6	5126.9	4369.6	3612.3	2905.6	2322.6	1888.5	1543.1	1245.3	979.1	776.3
2.5°	5874.7	5171.2	4407.6	3643.9	2931.0	2316.3	1888.5	1540.0	1245.3	979.1	773.1
0°	5868.3	5174.4	4404.4	3643.9	2931.0	2309.9	1888.5	1536.8	1245.3	979.1	773.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.2	15.8	6.3	0.0
85°	47.5	31.7	15.8	0.0
82.5°	69.7	44.4	22.2	0.0
80°	91.9	60.2	28.5	0.0
77.5°	117.2	76.0	38.0	0.0
75°	139.4	88.7	44.4	0.0
72.5°	161.6	104.6	50.7	0.0
70°	180.6	117.2	57.0	0.0
67.5°	199.6	133.1	66.5	0.0
65°	215.5	145.8	72.9	0.0
62.5°	228.1	161.6	79.2	0.0
60°	244.0	174.3	85.6	0.0
57.5°	256.7	183.8	91.9	0.0
55°	269.3	190.1	98.2	0.0
52.5°	282.0	199.6	104.6	0.0
50°	294.7	209.1	110.9	0.0
47.5°	307.4	215.5	114.1	0.0
45°	326.4	225.0	120.4	0.0
42.5°	342.2	231.3	126.7	0.0
40°	358.1	237.6	129.9	0.0
37.5°	373.9	244.0	136.3	0.0
35°	389.7	250.3	139.4	0.0
32.5°	402.4	256.7	142.6	0.0
30°	415.1	263.0	145.8	0.0
27.5°	427.8	266.2	148.9	0.0
25°	437.3	272.5	152.1	0.0
22.5°	446.8	275.7	155.3	0.0
20°	453.1	278.8	158.4	0.0
17.5°	462.6	282.0	161.6	0.0
15°	465.8	285.2	167.9	0.0
12.5°	472.1	288.3	167.9	0.0
10°	475.3	291.5	167.9	0.0
7.5°	481.6	291.5	167.9	0.0
5°	478.5	291.5	167.9	0.0
2.5°	478.5	291.5	167.9	0.0
0°	475.3	291.5	167.9	0.0

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