

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: P628495

Luminaire Tested: **IFLD-L-SA8B-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628495
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

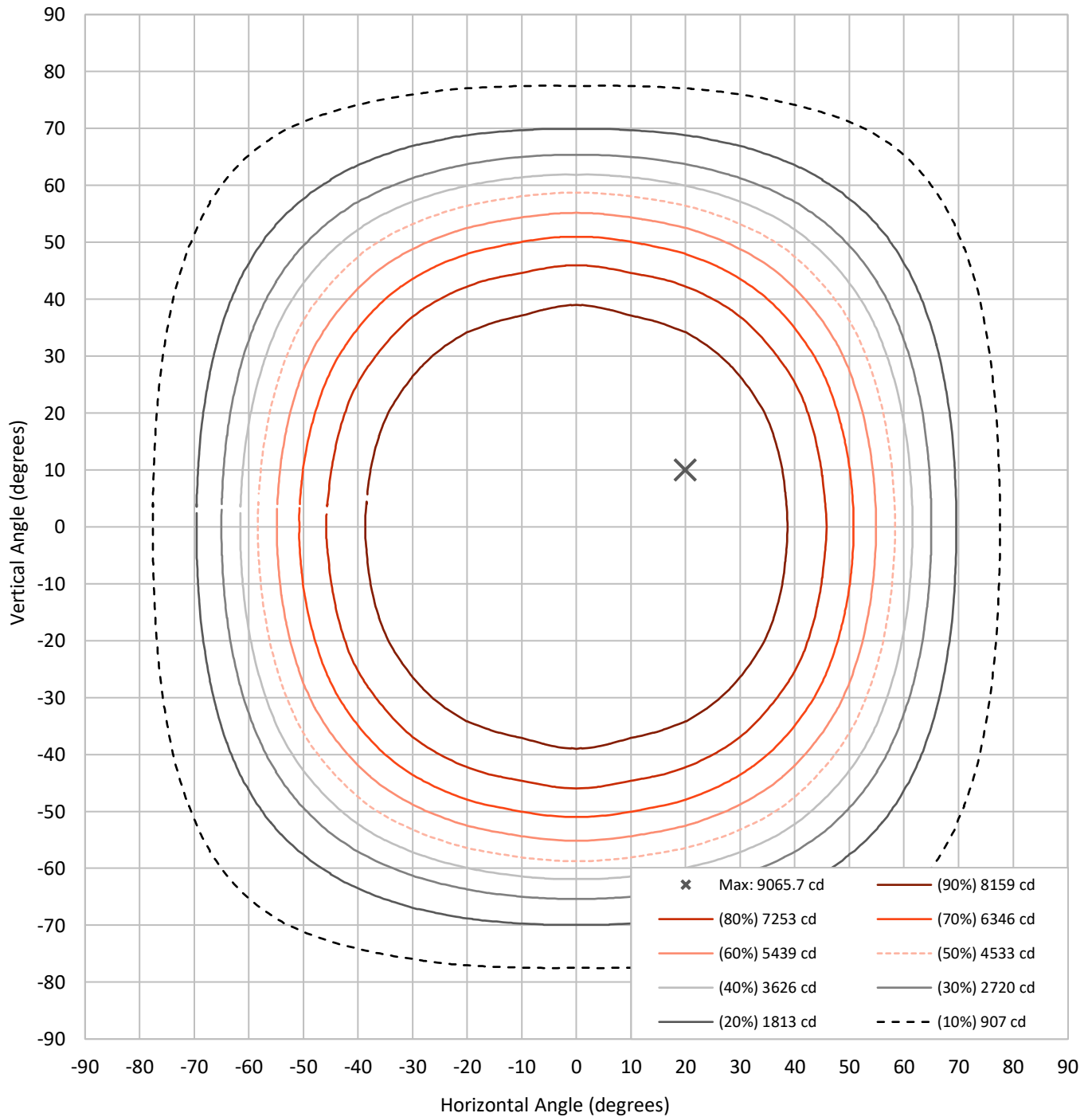
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27812.2 lumens	Max Intensity:	9065.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	86.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	17066.2 lumens	Field Lumens:	20459.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 320
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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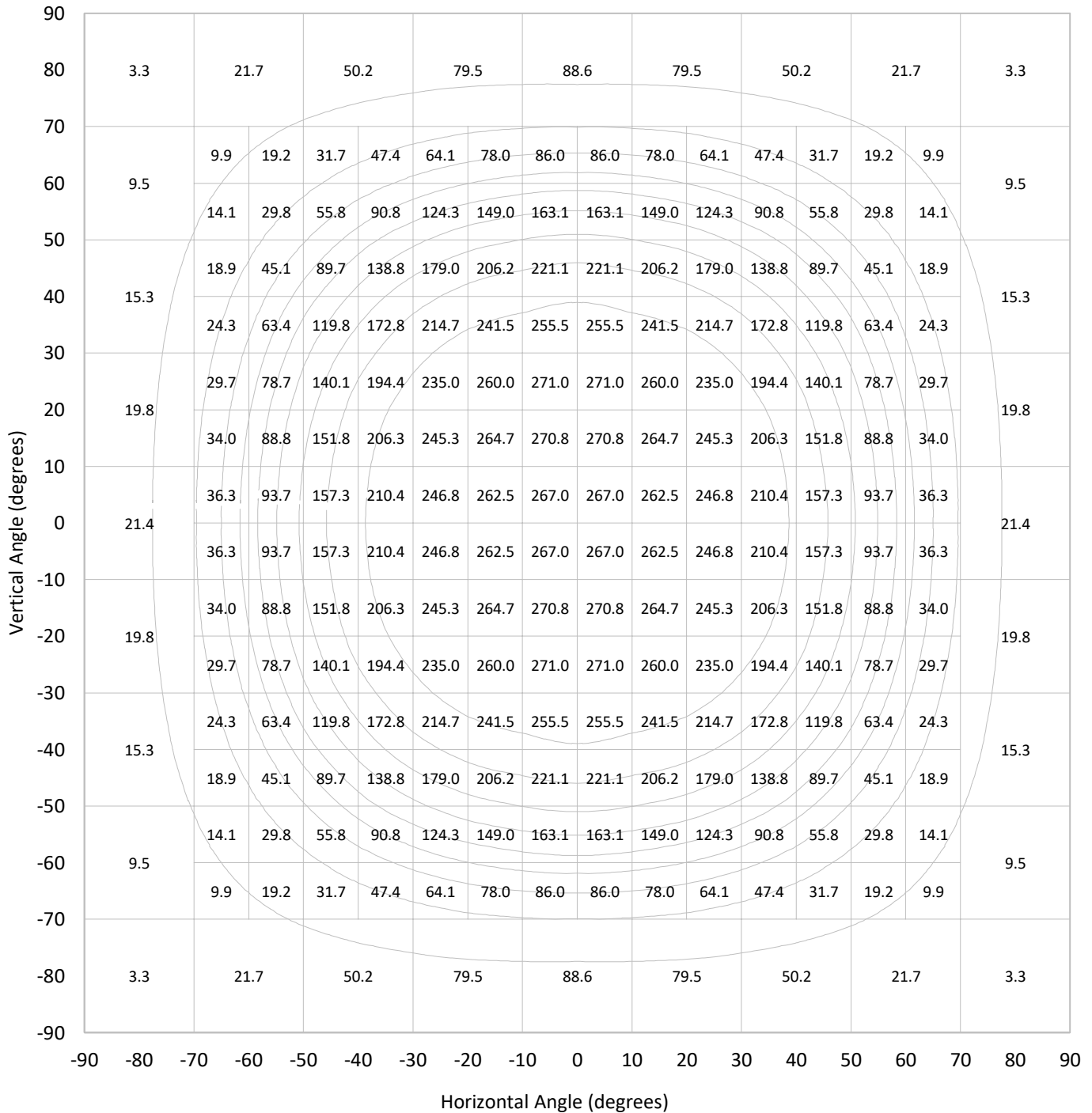
Iso-Candela Plot





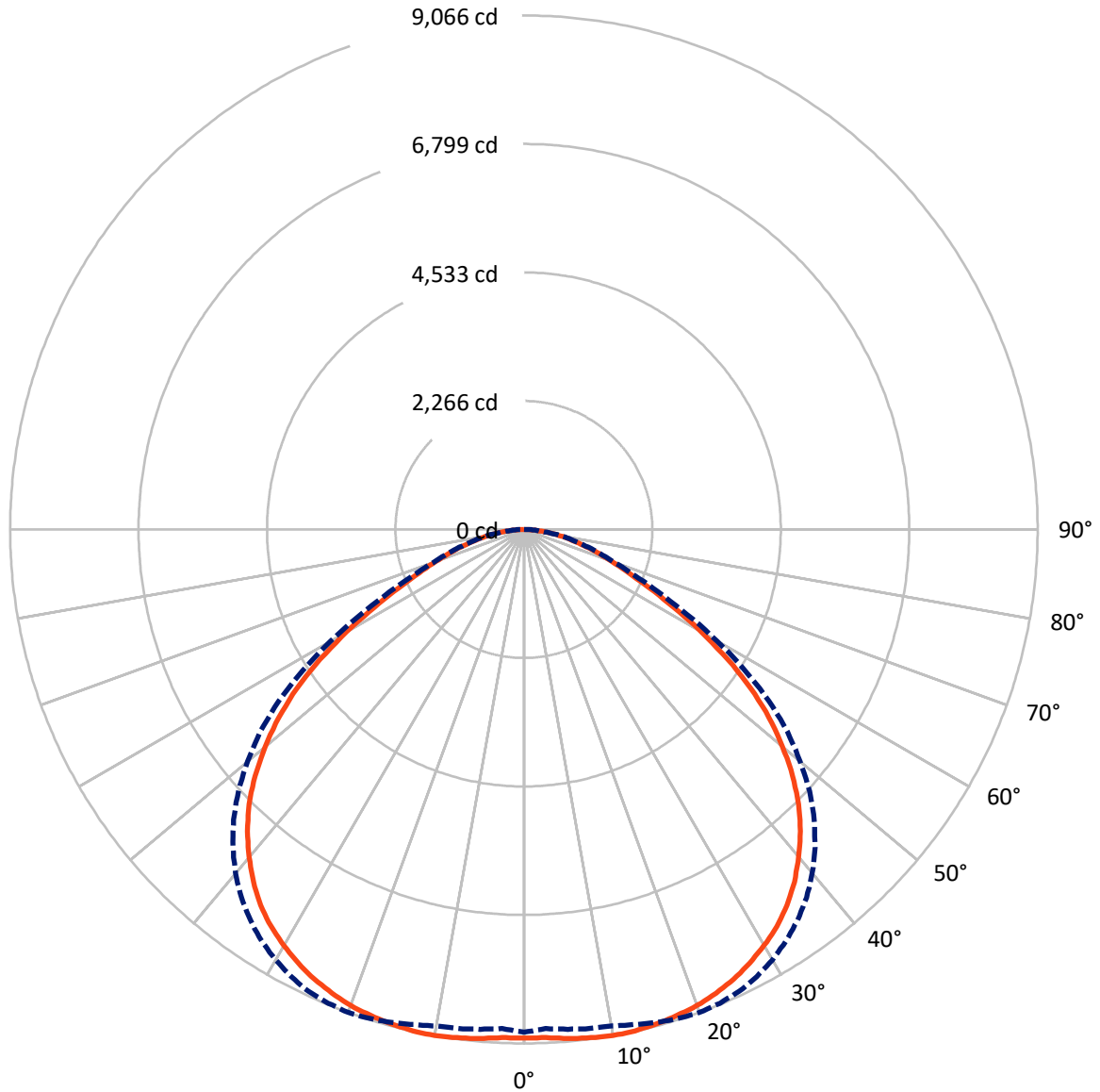
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Lumen Table



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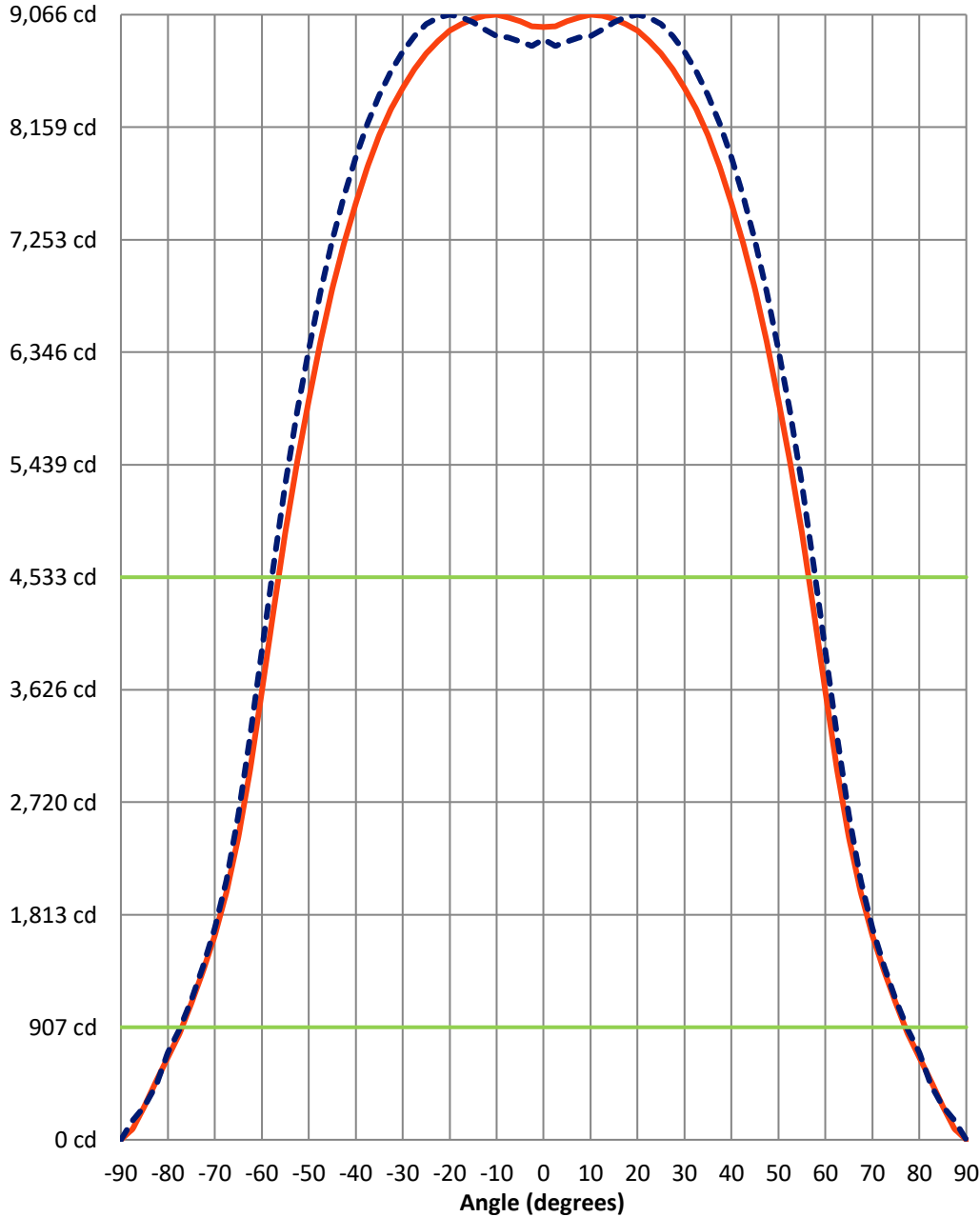
Luminous Intensity Polar Plot



— 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: 17066.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 20459.4
 Efficiency: 73.6%

Spill:
 Lumens: 7352.8
 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°	73.2	79.0	81.9	84.9	87.8	90.7	93.6	90.7	87.8	87.8	84.9
85°	196.1	201.9	204.8	225.3	245.8	257.5	272.1	269.2	269.2	266.3	263.4
82.5°	392.1	409.7	424.3	444.8	456.5	474.1	485.8	477.0	471.1	459.4	450.6
80°	696.5	702.3	705.2	708.2	693.5	690.6	684.8	676.0	664.3	649.6	635.0
77.5°	886.7	892.5	898.4	892.5	889.6	886.7	877.9	869.1	857.4	845.7	828.1
75°	1173.4	1173.4	1173.4	1164.7	1158.8	1150.0	1135.4	1120.8	1100.3	1076.9	1050.5
72.5°	1477.8	1474.9	1471.9	1454.4	1439.7	1422.2	1401.7	1384.1	1360.7	1334.4	1299.3
70°	1796.7	1802.6	1805.5	1782.1	1764.6	1741.1	1714.8	1682.6	1647.5	1609.5	1559.7
67.5°	2235.7	2229.8	2224.0	2191.8	2168.4	2136.2	2098.2	2051.3	1998.7	1940.1	1869.9
65°	2780.0	2788.8	2771.2	2739.0	2695.1	2642.4	2583.9	2516.6	2437.6	2349.8	2250.3
62.5°	3438.4	3453.0	3432.5	3391.6	3336.0	3265.7	3183.8	3087.2	2979.0	2856.1	2733.2
60°	4187.5	4184.6	4146.6	4091.0	4017.8	3930.0	3839.3	3734.0	3611.1	3467.7	3318.4
57.5°	4875.2	4869.4	4822.5	4766.9	4693.8	4600.1	4503.6	4392.4	4263.6	4111.4	3938.8
55°	5492.7	5486.8	5440.0	5381.5	5305.4	5211.7	5123.9	5018.6	4892.8	4731.8	4547.5
52.5°	6039.9	6042.8	6001.8	5937.5	5855.5	5764.8	5679.9	5574.6	5454.6	5293.7	5115.2
50°	6543.2	6540.3	6496.4	6437.9	6361.8	6274.0	6189.1	6083.8	5957.9	5802.8	5630.2
47.5°	7011.4	7005.6	6955.8	6891.4	6812.4	6736.3	6657.3	6563.7	6432.0	6276.9	6104.3
45°	7403.5	7391.8	7342.1	7280.6	7204.5	7137.2	7067.0	6996.8	6856.3	6712.9	6549.1
42.5°	7740.1	7737.1	7687.4	7625.9	7549.8	7491.3	7426.9	7339.2	7222.1	7090.4	6929.5
40°	8062.0	8038.5	7988.8	7930.3	7860.0	7810.3	7745.9	7658.1	7544.0	7415.2	7260.1
37.5°	8301.9	8304.8	8252.2	8187.8	8126.3	8079.5	8021.0	7939.0	7839.6	7713.7	7558.6
35°	8530.2	8515.5	8471.6	8416.0	8360.4	8307.8	8246.3	8176.1	8094.1	7977.1	7830.8
32.5°	8679.4	8699.9	8647.2	8588.7	8556.5	8515.5	8451.1	8378.0	8304.8	8187.8	8056.1
30°	8843.3	8825.7	8784.7	8735.0	8711.6	8685.3	8629.7	8559.4	8474.6	8369.2	8246.3
27.5°	8957.4	8948.6	8898.9	8852.1	8840.3	8816.9	8773.0	8711.6	8626.7	8524.3	8410.2
25°	9007.1	9013.0	8966.2	8939.8	8939.8	8925.2	8890.1	8837.4	8752.6	8658.9	8547.7
22.5°	9030.6	9024.7	8992.5	8986.7	9001.3	8989.6	8975.0	8928.1	8852.1	8776.0	8682.3
20°	9045.2	9004.2	8975.0	8998.4	9015.9	9013.0	9001.3	8972.0	8936.9	8872.5	8790.6
17.5°	9013.0	8986.7	8951.5	8986.7	9024.7	9027.6	9015.9	8998.4	8989.6	8948.6	8875.5
15°	8934.0	8913.5	8919.4	8954.5	8998.4	9013.0	9021.8	9042.3	9030.6	8998.4	8934.0
12.5°	8881.3	8855.0	8881.3	8916.4	8939.8	8948.6	9018.9	9056.9	9056.9	9027.6	8986.7
10°	8866.7	8814.0	8849.1	8881.3	8893.0	8945.7	9004.2	9045.2	9065.7	9042.3	8989.6
7.5°	8837.4	8802.3	8816.9	8831.6	8898.9	8936.9	8969.1	9013.0	9042.3	9039.3	8992.5
5°	8822.8	8778.9	8784.7	8846.2	8893.0	8919.4	8931.1	8969.1	9013.0	9021.8	8986.7
2.5°	8784.7	8764.3	8808.2	8814.0	8849.1	8869.6	8881.3	8916.4	8972.0	8992.5	8977.9
0°	8764.3	8735.0	8705.7	8729.1	8787.7	8831.6	8849.1	8901.8	8966.2	8986.7	8954.5



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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°	81.9	79.0	76.1	73.2	76.1	76.1	76.1	73.2	76.1	73.2	73.2
85°	254.6	242.9	234.1	222.4	210.7	201.9	190.2	178.5	175.6	172.7	166.8
82.5°	438.9	424.3	409.7	392.1	374.6	354.1	333.6	310.2	304.3	298.5	289.7
80°	617.4	597.0	576.5	556.0	538.4	518.0	494.5	468.2	450.6	436.0	418.5
77.5°	804.7	775.5	746.2	711.1	690.6	670.1	646.7	620.4	594.0	570.6	544.3
75°	1018.4	986.2	956.9	921.8	883.7	845.7	807.7	772.5	734.5	699.4	664.3
72.5°	1255.4	1208.6	1161.7	1117.8	1071.0	1024.2	974.5	927.6	880.8	834.0	784.2
70°	1504.1	1445.6	1387.1	1328.5	1267.1	1205.6	1147.1	1088.6	1030.1	968.6	913.0
67.5°	1796.7	1729.4	1653.4	1571.4	1480.7	1401.7	1325.6	1255.4	1185.2	1114.9	1044.7
65°	2162.5	2068.9	1966.5	1855.3	1749.9	1644.6	1533.4	1428.0	1346.1	1264.2	1185.2
62.5°	2613.2	2481.5	2338.1	2194.7	2066.0	1928.4	1799.7	1662.1	1533.4	1416.3	1319.8
60°	3151.6	2973.1	2797.5	2613.2	2434.7	2247.4	2083.5	1913.8	1752.9	1609.5	1469.0
57.5°	3745.7	3537.9	3327.2	3101.9	2859.0	2639.5	2417.1	2194.7	2004.5	1814.3	1656.3
55°	4348.5	4129.0	3892.0	3637.4	3371.1	3090.2	2788.8	2540.0	2279.6	2057.2	1852.3
52.5°	4922.0	4693.8	4448.0	4213.9	3894.9	3573.0	3242.3	2914.6	2610.3	2326.4	2077.7
50°	5434.1	5211.7	4974.7	4702.6	4407.0	4064.6	3695.9	3327.2	2967.3	2633.7	2323.5
47.5°	5902.3	5685.8	5448.8	5176.6	4907.4	4527.0	4155.3	3748.6	3347.7	2964.3	2601.5
45°	6341.3	6121.8	5876.0	5615.6	5305.4	4965.9	4582.6	4172.9	3742.7	3312.6	2894.1
42.5°	6739.3	6519.8	6271.1	6001.8	5694.6	5358.1	4986.4	4573.8	4140.7	3672.5	3213.1
40°	7087.5	6873.9	6633.9	6353.0	6066.2	5712.1	5346.3	4954.2	4506.5	4035.4	3529.1
37.5°	7391.8	7192.8	6955.8	6677.8	6373.5	6057.4	5679.9	5287.8	4884.0	4371.9	3853.9
35°	7661.0	7476.7	7233.8	6970.4	6672.0	6338.4	5984.3	5600.9	5164.9	4685.0	4181.7
32.5°	7895.2	7707.9	7485.5	7222.1	6932.4	6619.3	6256.4	5870.2	5457.5	4968.9	4421.6
30°	8094.1	7912.7	7702.0	7453.3	7175.3	6865.1	6511.0	6121.8	5700.4	5214.7	4673.3
27.5°	8266.8	8094.1	7889.3	7658.1	7391.8	7093.3	6736.3	6344.2	5914.0	5445.8	4904.5
25°	8416.0	8249.2	8059.0	7839.6	7576.2	7283.6	6947.0	6537.3	6107.2	5636.0	5100.5
22.5°	8550.6	8389.7	8199.5	7985.9	7745.9	7453.3	7113.8	6707.1	6271.1	5805.8	5279.0
20°	8670.6	8521.4	8334.1	8114.6	7874.7	7579.1	7242.6	6856.3	6417.4	5960.9	5440.0
17.5°	8767.2	8635.5	8448.2	8217.0	7977.1	7690.3	7362.6	7008.5	6543.2	6092.6	5574.6
15°	8834.5	8705.7	8536.0	8301.9	8067.8	7784.0	7456.2	7090.4	6657.3	6197.9	5685.8
12.5°	8881.3	8743.8	8585.8	8369.2	8135.1	7854.2	7535.2	7175.3	6753.9	6291.5	5782.4
10°	8893.0	8767.2	8609.2	8416.0	8187.8	7915.6	7602.5	7245.5	6832.9	6364.7	5861.4
7.5°	8898.9	8778.9	8635.5	8451.1	8225.8	7962.5	7652.3	7301.1	6891.4	6426.2	5919.9
5°	8895.9	8781.8	8653.1	8474.6	8249.2	7988.8	7684.5	7339.2	6932.4	6467.1	5963.8
2.5°	8887.2	8784.7	8664.8	8492.1	8275.6	8018.1	7716.6	7383.0	6976.3	6502.2	5998.9
0°	8910.6	8822.8	8670.6	8486.3	8281.4	8018.1	7713.7	7388.9	6982.1	6499.3	5996.0



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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°	73.2	70.2	70.2	67.3	64.4	61.5	55.6	52.7	46.8	38.0	29.3
85°	158.0	149.2	140.5	134.6	128.8	122.9	114.1	105.3	93.6	76.1	58.5
82.5°	278.0	260.4	242.9	222.4	204.8	187.3	172.7	158.0	140.5	114.1	87.8
80°	398.0	371.6	345.3	316.0	289.7	260.4	234.1	210.7	187.3	152.2	117.1
77.5°	518.0	482.8	444.8	409.7	371.6	333.6	295.6	263.4	228.3	187.3	146.3
75°	629.2	588.2	553.1	503.3	456.5	406.8	357.0	313.1	269.2	219.5	175.6
72.5°	740.4	687.7	637.9	591.1	538.4	477.0	421.4	365.8	310.2	251.7	199.0
70°	851.6	787.2	725.7	670.1	611.6	550.1	482.8	418.5	351.2	280.9	219.5
67.5°	965.7	892.5	822.3	752.1	684.8	614.5	544.3	471.1	392.1	310.2	242.9
65°	1091.5	1000.8	915.9	836.9	757.9	681.8	602.8	523.8	436.0	342.4	263.4
62.5°	1217.3	1117.8	1018.4	918.9	831.1	746.2	661.3	573.6	477.0	377.5	283.9
60°	1351.9	1237.8	1123.7	1012.5	904.2	810.6	716.9	623.3	520.9	409.7	304.3
57.5°	1501.2	1363.7	1234.9	1109.1	986.2	875.0	772.5	673.0	558.9	441.9	327.7
55°	1670.9	1501.2	1349.0	1208.6	1074.0	939.3	828.1	725.7	602.8	474.1	354.1
52.5°	1849.4	1653.4	1469.0	1311.0	1167.6	1015.4	880.8	766.7	646.7	506.2	377.5
50°	2057.2	1808.5	1603.6	1410.5	1249.5	1091.5	936.4	813.5	690.6	544.3	400.9
47.5°	2270.8	1995.7	1738.2	1527.5	1337.3	1164.7	1000.8	854.5	731.6	579.4	424.3
45°	2519.5	2174.2	1890.4	1641.7	1422.2	1240.8	1065.2	898.4	766.7	614.5	447.7
42.5°	2759.5	2384.9	2048.4	1767.5	1518.7	1313.9	1123.7	945.2	801.8	649.6	468.2
40°	3043.3	2595.6	2200.6	1887.5	1615.3	1384.1	1182.2	994.9	834.0	681.8	488.7
37.5°	3315.5	2809.2	2384.9	2019.1	1709.0	1454.4	1240.8	1041.8	863.3	714.0	515.0
35°	3584.7	3046.3	2560.5	2142.1	1805.5	1533.4	1299.3	1085.7	892.5	740.4	538.4
32.5°	3842.2	3268.7	2739.0	2279.6	1910.9	1606.5	1351.9	1126.6	921.8	763.8	561.8
30°	4082.2	3479.4	2914.6	2420.0	2007.4	1673.8	1401.7	1167.6	956.9	784.2	585.3
27.5°	4301.7	3684.2	3090.2	2551.7	2098.2	1735.3	1454.4	1205.6	986.2	804.7	605.7
25°	4500.6	3868.6	3251.1	2671.7	2180.1	1802.6	1504.1	1243.7	1012.5	822.3	623.3
22.5°	4687.9	4038.3	3397.4	2791.7	2279.6	1869.9	1550.9	1278.8	1038.8	839.8	640.9
20°	4851.8	4193.4	3537.9	2911.7	2367.4	1931.4	1591.9	1311.0	1062.2	851.6	658.4
17.5°	4983.5	4330.9	3663.7	3017.0	2443.5	1984.0	1627.0	1340.2	1082.7	866.2	670.1
15°	5100.5	4448.0	3769.1	3107.7	2510.8	2027.9	1659.2	1363.7	1100.3	875.0	684.8
12.5°	5200.0	4547.5	3859.8	3186.7	2569.3	2066.0	1685.5	1381.2	1114.9	883.7	693.5
10°	5282.0	4626.5	3935.9	3248.2	2616.1	2095.2	1706.0	1398.8	1126.6	892.5	702.3
7.5°	5343.4	4685.0	3991.5	3300.9	2654.2	2115.7	1723.6	1410.5	1138.3	898.4	716.9
5°	5390.2	4734.7	4035.4	3336.0	2683.4	2145.0	1744.1	1425.1	1150.0	904.2	716.9
2.5°	5425.4	4775.7	4070.5	3365.2	2706.8	2139.1	1744.1	1422.2	1150.0	904.2	714.0
0°	5419.5	4778.6	4067.6	3365.2	2706.8	2133.3	1744.1	1419.3	1150.0	904.2	714.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.5	14.6	5.9	0.0
85°	43.9	29.3	14.6	0.0
82.5°	64.4	41.0	20.5	0.0
80°	84.9	55.6	26.3	0.0
77.5°	108.3	70.2	35.1	0.0
75°	128.8	81.9	41.0	0.0
72.5°	149.2	96.6	46.8	0.0
70°	166.8	108.3	52.7	0.0
67.5°	184.4	122.9	61.5	0.0
65°	199.0	134.6	67.3	0.0
62.5°	210.7	149.2	73.2	0.0
60°	225.3	160.9	79.0	0.0
57.5°	237.0	169.7	84.9	0.0
55°	248.7	175.6	90.7	0.0
52.5°	260.4	184.4	96.6	0.0
50°	272.1	193.1	102.4	0.0
47.5°	283.9	199.0	105.3	0.0
45°	301.4	207.8	111.2	0.0
42.5°	316.0	213.6	117.1	0.0
40°	330.7	219.5	120.0	0.0
37.5°	345.3	225.3	125.8	0.0
35°	359.9	231.2	128.8	0.0
32.5°	371.6	237.0	131.7	0.0
30°	383.3	242.9	134.6	0.0
27.5°	395.1	245.8	137.5	0.0
25°	403.8	251.7	140.5	0.0
22.5°	412.6	254.6	143.4	0.0
20°	418.5	257.5	146.3	0.0
17.5°	427.2	260.4	149.2	0.0
15°	430.2	263.4	155.1	0.0
12.5°	436.0	266.3	155.1	0.0
10°	438.9	269.2	155.1	0.0
7.5°	444.8	269.2	155.1	0.0
5°	441.9	269.2	155.1	0.0
2.5°	441.9	269.2	155.1	0.0
0°	438.9	269.2	155.1	0.0

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