

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: P628407

Luminaire Tested: **IFLD-L-SA8A-830-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628407
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

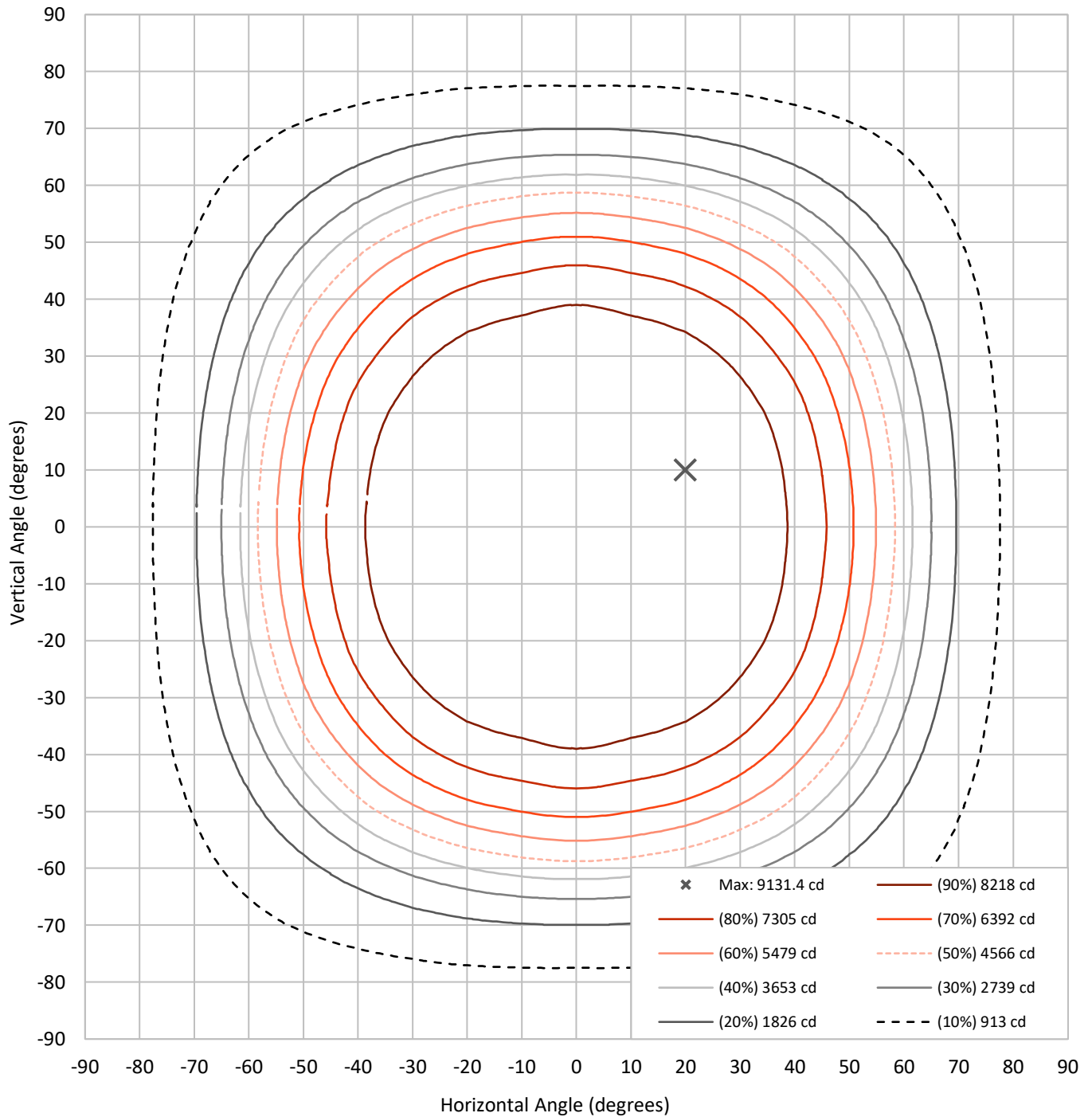
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	28014 lumens	Max Intensity:	9131.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	113.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	17190 lumens	Field Lumens:	20607.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 247.8
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



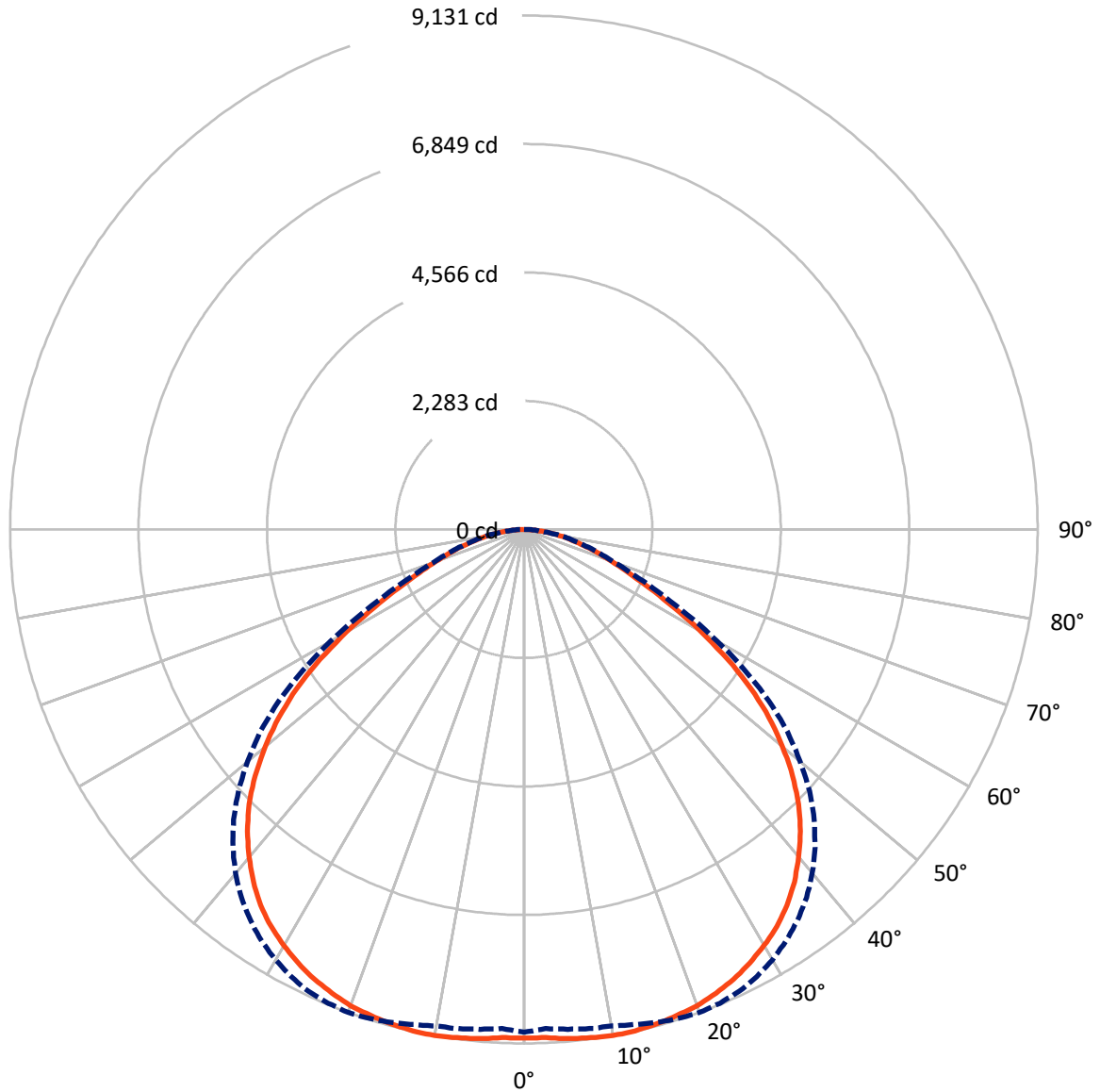
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Iso-Candela Plot



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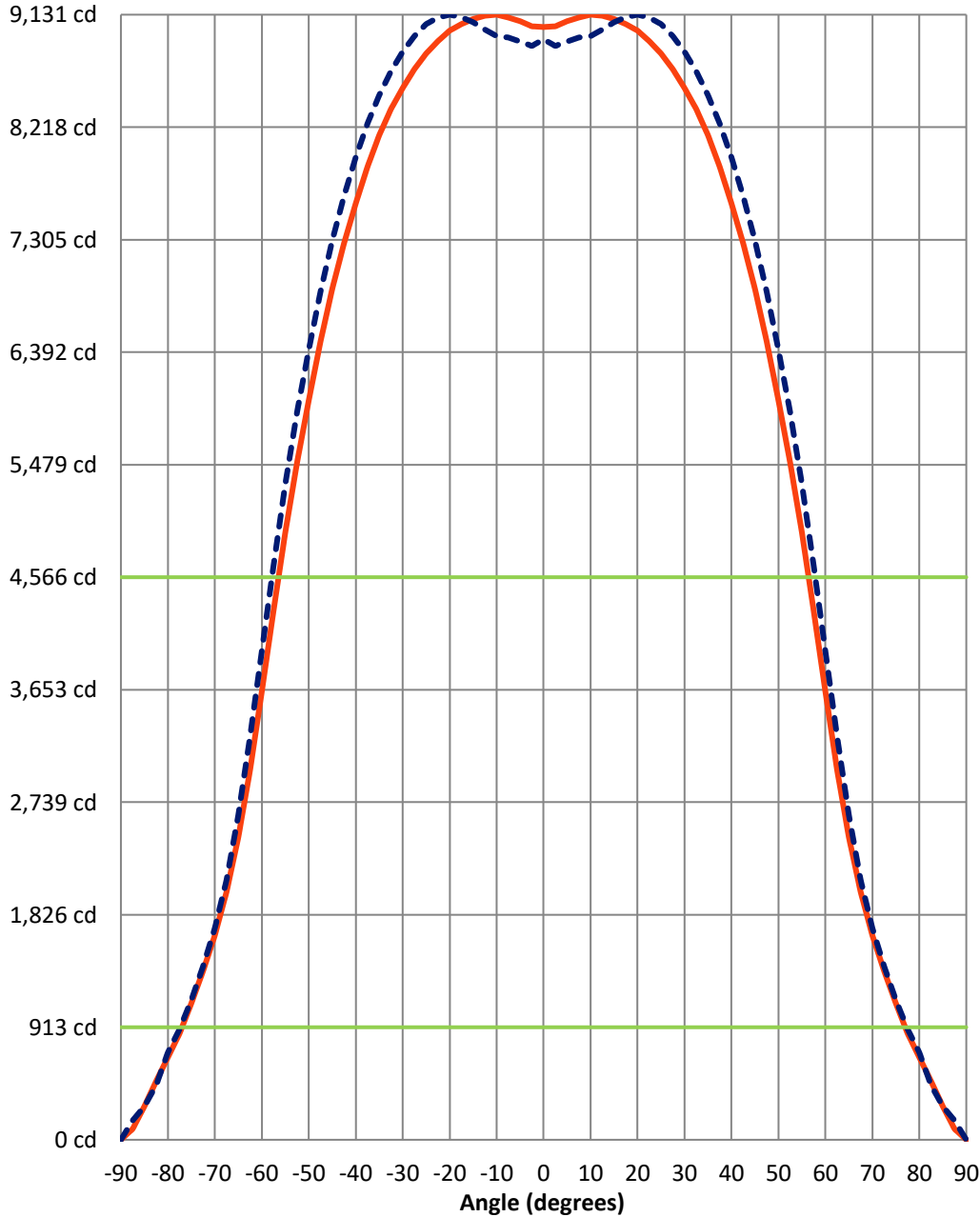
Luminous Intensity Polar Plot



— 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: 17190
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 20607.9
 Efficiency: 73.6%

Spill:
 Lumens: 7406.2
 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°	73.7	79.6	82.5	85.5	88.4	91.4	94.3	91.4	88.4	88.4	85.5
85°	197.5	203.4	206.3	227.0	247.6	259.4	274.1	271.2	271.2	268.2	265.3
82.5°	395.0	412.7	427.4	448.0	459.8	477.5	489.3	480.4	474.6	462.8	453.9
80°	701.5	707.4	710.4	713.3	698.6	695.6	689.7	680.9	669.1	654.4	639.6
77.5°	893.1	899.0	904.9	899.0	896.0	893.1	884.3	875.4	863.6	851.8	834.2
75°	1182.0	1182.0	1182.0	1173.1	1167.2	1158.4	1143.6	1128.9	1108.3	1084.7	1058.2
72.5°	1488.5	1485.6	1482.6	1464.9	1450.2	1432.5	1411.9	1394.2	1370.6	1344.1	1308.7
70°	1809.8	1815.7	1818.6	1795.0	1777.4	1753.8	1727.3	1694.8	1659.5	1621.1	1571.0
67.5°	2251.9	2246.0	2240.1	2207.7	2184.1	2151.7	2113.4	2066.2	2013.2	1954.2	1883.5
65°	2800.2	2809.0	2791.3	2758.9	2714.7	2661.6	2602.7	2534.9	2455.3	2366.9	2266.7
62.5°	3463.3	3478.1	3457.5	3416.2	3360.2	3289.4	3206.9	3109.6	3000.6	2876.8	2753.0
60°	4217.9	4215.0	4176.7	4120.6	4047.0	3958.5	3867.2	3761.0	3637.3	3492.8	3342.5
57.5°	4910.6	4904.7	4857.5	4801.5	4727.8	4633.5	4536.2	4424.2	4294.6	4141.3	3967.4
55°	5532.5	5526.6	5479.5	5420.5	5343.9	5249.6	5161.1	5055.0	4928.3	4766.2	4580.5
52.5°	6083.7	6086.7	6045.4	5980.5	5898.0	5806.6	5721.2	5615.0	5494.2	5332.1	5152.3
50°	6590.7	6587.7	6543.5	6484.6	6407.9	6319.5	6234.0	6127.9	6001.2	5845.0	5671.0
47.5°	7062.3	7056.4	7006.3	6941.4	6861.9	6785.2	6705.6	6611.3	6478.7	6322.5	6148.5
45°	7457.3	7445.5	7395.4	7333.5	7256.8	7189.0	7118.3	7047.5	6906.1	6761.6	6596.6
42.5°	7796.2	7793.3	7743.2	7681.3	7604.6	7545.7	7480.8	7392.4	7274.5	7141.9	6979.8
40°	8120.4	8096.9	8046.8	7987.8	7917.1	7867.0	7802.1	7713.7	7598.7	7469.0	7312.8
37.5°	8362.1	8365.1	8312.0	8247.2	8185.3	8138.1	8079.2	7996.7	7896.4	7769.7	7613.5
35°	8592.1	8577.3	8533.1	8477.1	8421.1	8368.0	8306.1	8235.4	8152.9	8035.0	7887.6
32.5°	8742.4	8763.0	8710.0	8651.0	8618.6	8577.3	8512.5	8438.8	8365.1	8247.2	8114.6
30°	8907.4	8889.8	8848.5	8798.4	8774.8	8748.3	8692.3	8621.5	8536.0	8429.9	8306.1
27.5°	9022.4	9013.5	8963.4	8916.3	8904.5	8880.9	8836.7	8774.8	8689.3	8586.2	8471.2
25°	9072.5	9078.4	9031.2	9004.7	9004.7	8990.0	8954.6	8901.5	8816.1	8721.7	8609.7
22.5°	9096.1	9090.2	9057.8	9051.9	9066.6	9054.8	9040.1	8992.9	8916.3	8839.6	8745.3
20°	9110.8	9069.6	9040.1	9063.7	9081.3	9078.4	9066.6	9037.1	9001.8	8936.9	8854.4
17.5°	9078.4	9051.9	9016.5	9051.9	9090.2	9093.1	9081.3	9063.7	9054.8	9013.5	8939.9
15°	8998.8	8978.2	8984.1	9019.4	9063.7	9078.4	9087.2	9107.9	9096.1	9063.7	8998.8
12.5°	8945.8	8919.2	8945.8	8981.1	9004.7	9013.5	9084.3	9122.6	9122.6	9093.1	9051.9
10°	8931.0	8878.0	8913.3	8945.8	8957.5	9010.6	9069.6	9110.8	9131.4	9107.9	9054.8
7.5°	8901.5	8866.2	8880.9	8895.6	8963.4	9001.8	9034.2	9078.4	9107.9	9104.9	9057.8
5°	8886.8	8842.6	8848.5	8910.4	8957.5	8984.1	8995.9	9034.2	9078.4	9087.2	9051.9
2.5°	8848.5	8827.9	8872.1	8878.0	8913.3	8934.0	8945.8	8981.1	9037.1	9057.8	9043.0
0°	8827.9	8798.4	8768.9	8792.5	8851.4	8895.6	8913.3	8966.4	9031.2	9051.9	9019.4



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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°	82.5	79.6	76.6	73.7	76.6	76.6	76.6	73.7	76.6	73.7	73.7
85°	256.4	244.6	235.8	224.0	212.2	203.4	191.6	179.8	176.9	173.9	168.0
82.5°	442.1	427.4	412.7	395.0	377.3	356.7	336.0	312.4	306.5	300.6	291.8
80°	621.9	601.3	580.7	560.0	542.3	521.7	498.1	471.6	453.9	439.2	421.5
77.5°	810.6	781.1	751.6	716.2	695.6	675.0	651.4	624.9	598.3	574.8	548.2
75°	1025.7	993.3	963.8	928.5	890.2	851.8	813.5	778.1	739.8	704.5	669.1
72.5°	1264.5	1217.3	1170.2	1126.0	1078.8	1031.6	981.5	934.4	887.2	840.0	789.9
70°	1515.0	1456.1	1397.1	1338.2	1276.3	1214.4	1155.4	1096.5	1037.5	975.6	919.6
67.5°	1809.8	1742.0	1665.4	1582.8	1491.5	1411.9	1335.2	1264.5	1193.7	1123.0	1052.3
65°	2178.2	2083.9	1980.7	1868.7	1762.6	1656.5	1544.5	1438.4	1355.9	1273.3	1193.7
62.5°	2632.1	2499.5	2355.1	2210.6	2081.0	1942.4	1812.7	1674.2	1544.5	1426.6	1329.3
60°	3174.5	2994.7	2817.8	2632.1	2452.3	2263.7	2098.6	1927.7	1765.6	1621.1	1479.7
57.5°	3772.8	3563.6	3351.3	3124.4	2879.7	2658.7	2434.7	2210.6	2019.1	1827.5	1668.3
55°	4380.0	4159.0	3920.2	3663.8	3395.6	3112.6	2809.0	2558.5	2296.1	2072.1	1865.8
52.5°	4957.7	4727.8	4480.2	4244.4	3923.2	3598.9	3265.9	2935.7	2629.2	2343.3	2092.7
50°	5473.6	5249.6	5010.8	4736.7	4439.0	4094.1	3722.7	3351.3	2988.8	2652.8	2340.3
47.5°	5945.2	5727.1	5488.3	5214.2	4943.0	4559.8	4185.5	3775.8	3372.0	2985.8	2620.4
45°	6387.3	6166.2	5918.6	5656.3	5343.9	5002.0	4615.8	4203.2	3769.9	3336.6	2915.1
42.5°	6788.2	6567.1	6316.6	6045.4	5735.9	5396.9	5022.6	4607.0	4170.8	3699.2	3236.4
40°	7138.9	6923.7	6682.1	6399.1	6110.2	5753.6	5385.1	4990.2	4539.2	4064.6	3554.7
37.5°	7445.5	7245.0	7006.3	6726.3	6419.7	6101.4	5721.2	5326.2	4919.4	4403.6	3881.9
35°	7716.6	7530.9	7286.3	7021.0	6720.4	6384.4	6027.7	5641.6	5202.4	4719.0	4212.0
32.5°	7952.4	7763.8	7539.8	7274.5	6982.7	6667.3	6301.8	5912.7	5497.1	5004.9	4453.7
30°	8152.9	7970.1	7757.9	7507.4	7227.3	6914.9	6558.3	6166.2	5741.8	5252.5	4707.2
27.5°	8326.8	8152.9	7946.5	7713.7	7445.5	7144.8	6785.2	6390.2	5957.0	5485.4	4940.1
25°	8477.1	8309.1	8117.5	7896.4	7631.2	7336.4	6997.4	6584.8	6151.5	5676.9	5137.5
22.5°	8612.7	8450.6	8259.0	8043.8	7802.1	7507.4	7165.4	6755.7	6316.6	5847.9	5317.3
20°	8733.5	8583.2	8394.6	8173.5	7931.8	7634.1	7295.1	6906.1	6463.9	6004.1	5479.5
17.5°	8830.8	8698.2	8509.5	8276.7	8035.0	7746.1	7416.0	7059.3	6590.7	6136.8	5615.0
15°	8898.6	8768.9	8597.9	8362.1	8126.3	7840.4	7510.3	7141.9	6705.6	6242.9	5727.1
12.5°	8945.8	8807.2	8648.1	8429.9	8194.1	7911.2	7589.9	7227.3	6802.9	6337.2	5824.3
10°	8957.5	8830.8	8671.6	8477.1	8247.2	7973.1	7657.7	7298.1	6882.5	6410.9	5903.9
7.5°	8963.4	8842.6	8698.2	8512.5	8285.5	8020.2	7707.8	7354.1	6941.4	6472.8	5962.9
5°	8960.5	8845.5	8715.8	8536.0	8309.1	8046.8	7740.2	7392.4	6982.7	6514.0	6007.1
2.5°	8951.7	8848.5	8727.6	8553.7	8335.6	8076.2	7772.6	7436.6	7026.9	6549.4	6042.4
0°	8975.2	8886.8	8733.5	8547.8	8341.5	8076.2	7769.7	7442.5	7032.8	6546.5	6039.5



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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°	73.7	70.7	70.7	67.8	64.8	61.9	56.0	53.1	47.2	38.3	29.5
85°	159.2	150.3	141.5	135.6	129.7	123.8	115.0	106.1	94.3	76.6	59.0
82.5°	280.0	262.3	244.6	224.0	206.3	188.6	173.9	159.2	141.5	115.0	88.4
80°	400.9	374.3	347.8	318.3	291.8	262.3	235.8	212.2	188.6	153.3	117.9
77.5°	521.7	486.3	448.0	412.7	374.3	336.0	297.7	265.3	229.9	188.6	147.4
75°	633.7	592.5	557.1	507.0	459.8	409.7	359.6	315.4	271.2	221.1	176.9
72.5°	745.7	692.7	642.6	595.4	542.3	480.4	424.4	368.4	312.4	253.5	200.4
70°	857.7	792.9	731.0	675.0	616.0	554.1	486.3	421.5	353.7	283.0	221.1
67.5°	972.7	899.0	828.3	757.5	689.7	619.0	548.2	474.6	395.0	312.4	244.6
65°	1099.4	1008.1	922.6	843.0	763.4	686.8	607.2	527.6	439.2	344.9	265.3
62.5°	1226.2	1126.0	1025.7	925.5	837.1	751.6	666.1	577.7	480.4	380.2	285.9
60°	1361.8	1246.8	1131.9	1019.8	910.8	816.5	722.1	627.8	524.7	412.7	306.5
57.5°	1512.1	1373.5	1243.9	1117.1	993.3	881.3	778.1	677.9	563.0	445.1	330.1
55°	1683.0	1512.1	1358.8	1217.3	1081.7	946.2	834.2	731.0	607.2	477.5	356.7
52.5°	1862.8	1665.4	1479.7	1320.5	1176.1	1022.8	887.2	772.3	651.4	509.9	380.2
50°	2072.1	1821.6	1615.2	1420.7	1258.6	1099.4	943.2	819.4	695.6	548.2	403.8
47.5°	2287.3	2010.2	1750.8	1538.6	1347.0	1173.1	1008.1	860.7	736.9	583.6	427.4
45°	2537.8	2190.0	1904.1	1653.6	1432.5	1249.8	1072.9	904.9	772.3	619.0	451.0
42.5°	2779.5	2402.2	2063.3	1780.3	1529.8	1323.4	1131.9	952.1	807.6	654.4	471.6
40°	3065.4	2614.5	2216.5	1901.2	1627.0	1394.2	1190.8	1002.2	840.0	686.8	492.2
37.5°	3339.6	2829.6	2402.2	2033.8	1721.4	1464.9	1249.8	1049.3	869.5	719.2	518.8
35°	3610.7	3068.4	2579.1	2157.6	1818.6	1544.5	1308.7	1093.5	899.0	745.7	542.3
32.5°	3870.1	3292.4	2758.9	2296.1	1924.7	1618.2	1361.8	1134.8	928.5	769.3	565.9
30°	4111.8	3504.6	2935.7	2437.6	2022.0	1686.0	1411.9	1176.1	963.8	789.9	589.5
27.5°	4332.9	3710.9	3112.6	2570.2	2113.4	1747.9	1464.9	1214.4	993.3	810.6	610.1
25°	4533.3	3896.6	3274.7	2691.1	2195.9	1815.7	1515.0	1252.7	1019.8	828.3	627.8
22.5°	4721.9	4067.6	3422.1	2811.9	2296.1	1883.5	1562.2	1288.1	1046.4	845.9	645.5
20°	4887.0	4223.8	3563.6	2932.8	2384.6	1945.4	1603.5	1320.5	1070.0	857.7	663.2
17.5°	5019.6	4362.3	3690.3	3038.9	2461.2	1998.4	1638.8	1350.0	1090.6	872.5	675.0
15°	5137.5	4480.2	3796.4	3130.3	2529.0	2042.6	1671.2	1373.5	1108.3	881.3	689.7
12.5°	5237.8	4580.5	3887.8	3209.9	2587.9	2081.0	1697.8	1391.2	1123.0	890.2	698.6
10°	5320.3	4660.0	3964.4	3271.8	2635.1	2110.4	1718.4	1408.9	1134.8	899.0	707.4
7.5°	5382.2	4719.0	4020.4	3324.8	2673.4	2131.1	1736.1	1420.7	1146.6	904.9	722.1
5°	5429.4	4769.1	4064.6	3360.2	2702.9	2160.5	1756.7	1435.4	1158.4	910.8	722.1
2.5°	5464.7	4810.4	4100.0	3389.7	2726.5	2154.6	1756.7	1432.5	1158.4	910.8	719.2
0°	5458.8	4813.3	4097.1	3389.7	2726.5	2148.7	1756.7	1429.6	1158.4	910.8	719.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.6	14.7	5.9	0.0
85°	44.2	29.5	14.7	0.0
82.5°	64.8	41.3	20.6	0.0
80°	85.5	56.0	26.5	0.0
77.5°	109.1	70.7	35.4	0.0
75°	129.7	82.5	41.3	0.0
72.5°	150.3	97.3	47.2	0.0
70°	168.0	109.1	53.1	0.0
67.5°	185.7	123.8	61.9	0.0
65°	200.4	135.6	67.8	0.0
62.5°	212.2	150.3	73.7	0.0
60°	227.0	162.1	79.6	0.0
57.5°	238.7	171.0	85.5	0.0
55°	250.5	176.9	91.4	0.0
52.5°	262.3	185.7	97.3	0.0
50°	274.1	194.5	103.2	0.0
47.5°	285.9	200.4	106.1	0.0
45°	303.6	209.3	112.0	0.0
42.5°	318.3	215.2	117.9	0.0
40°	333.1	221.1	120.8	0.0
37.5°	347.8	227.0	126.7	0.0
35°	362.5	232.9	129.7	0.0
32.5°	374.3	238.7	132.6	0.0
30°	386.1	244.6	135.6	0.0
27.5°	397.9	247.6	138.5	0.0
25°	406.8	253.5	141.5	0.0
22.5°	415.6	256.4	144.4	0.0
20°	421.5	259.4	147.4	0.0
17.5°	430.3	262.3	150.3	0.0
15°	433.3	265.3	156.2	0.0
12.5°	439.2	268.2	156.2	0.0
10°	442.1	271.2	156.2	0.0
7.5°	448.0	271.2	156.2	0.0
5°	445.1	271.2	156.2	0.0
2.5°	445.1	271.2	156.2	0.0
0°	442.1	271.2	156.2	0.0

(END OF REPORT)