

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: P628224

Luminaire Tested: **IFLD-M-SA4B-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628224
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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

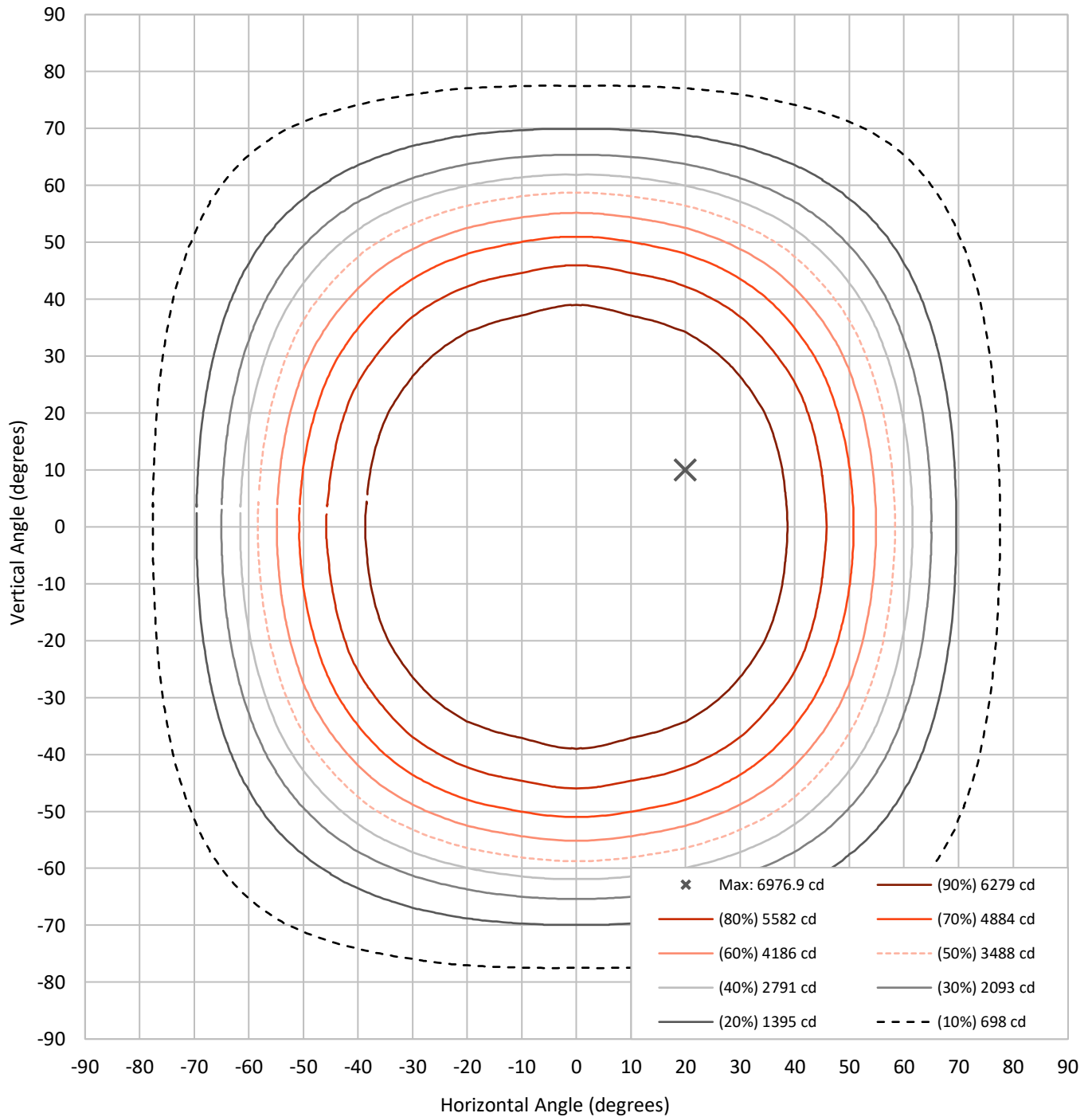
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21404.3 lumens	Max Intensity:	6976.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	128.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	13134.1 lumens	Field Lumens:	15745.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 166.1
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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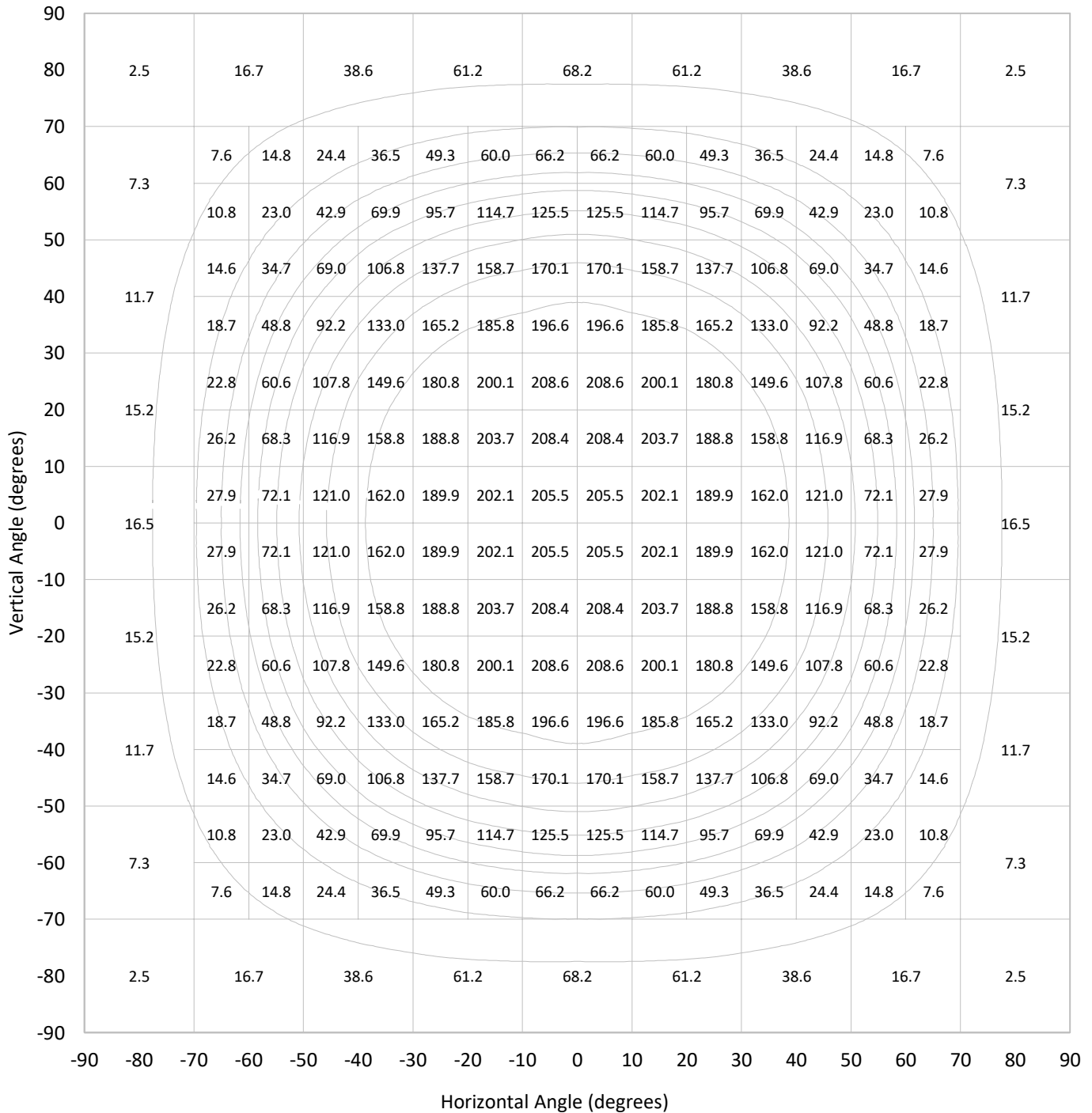
Iso-Candela Plot





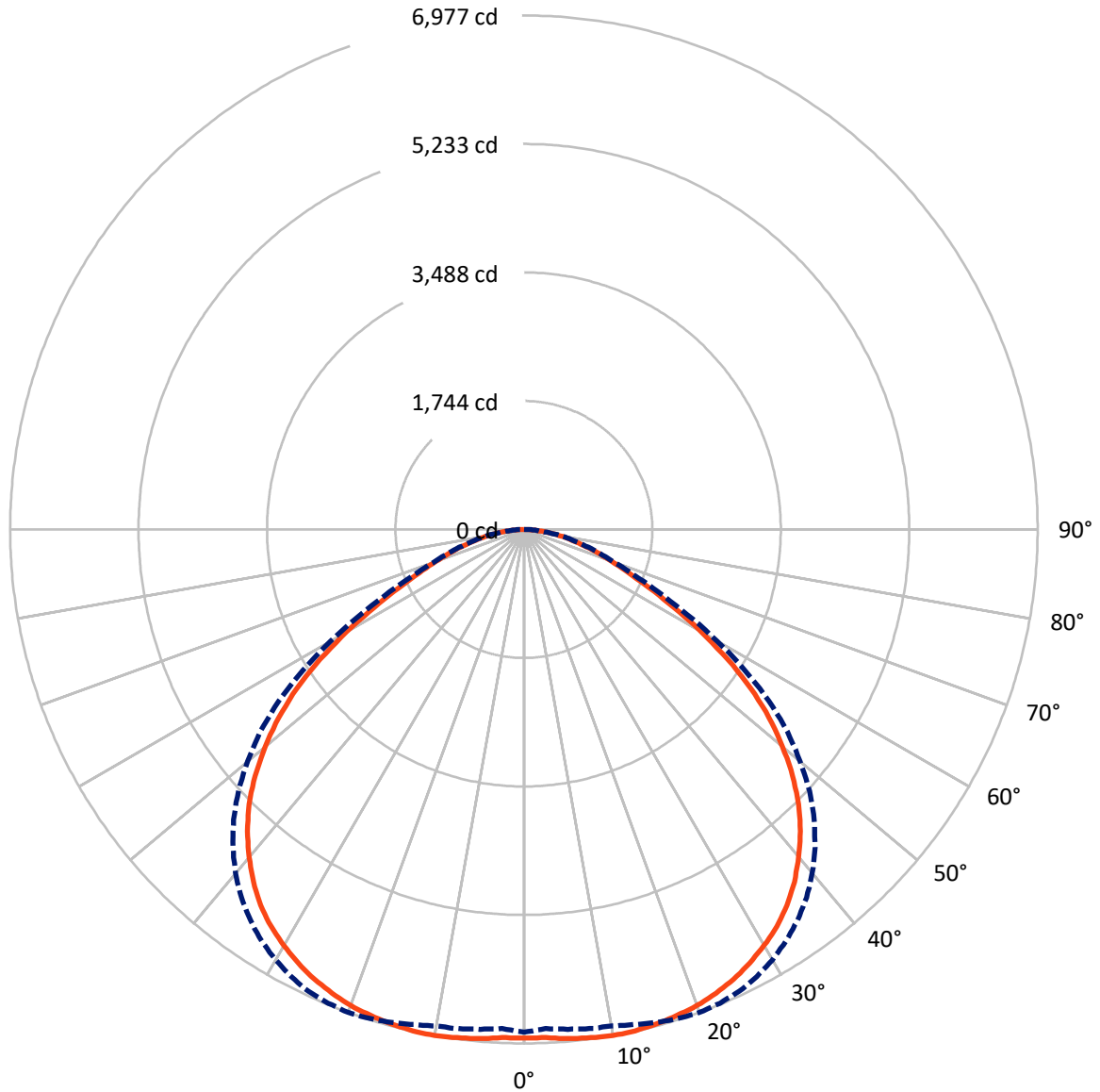
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Lumen Table



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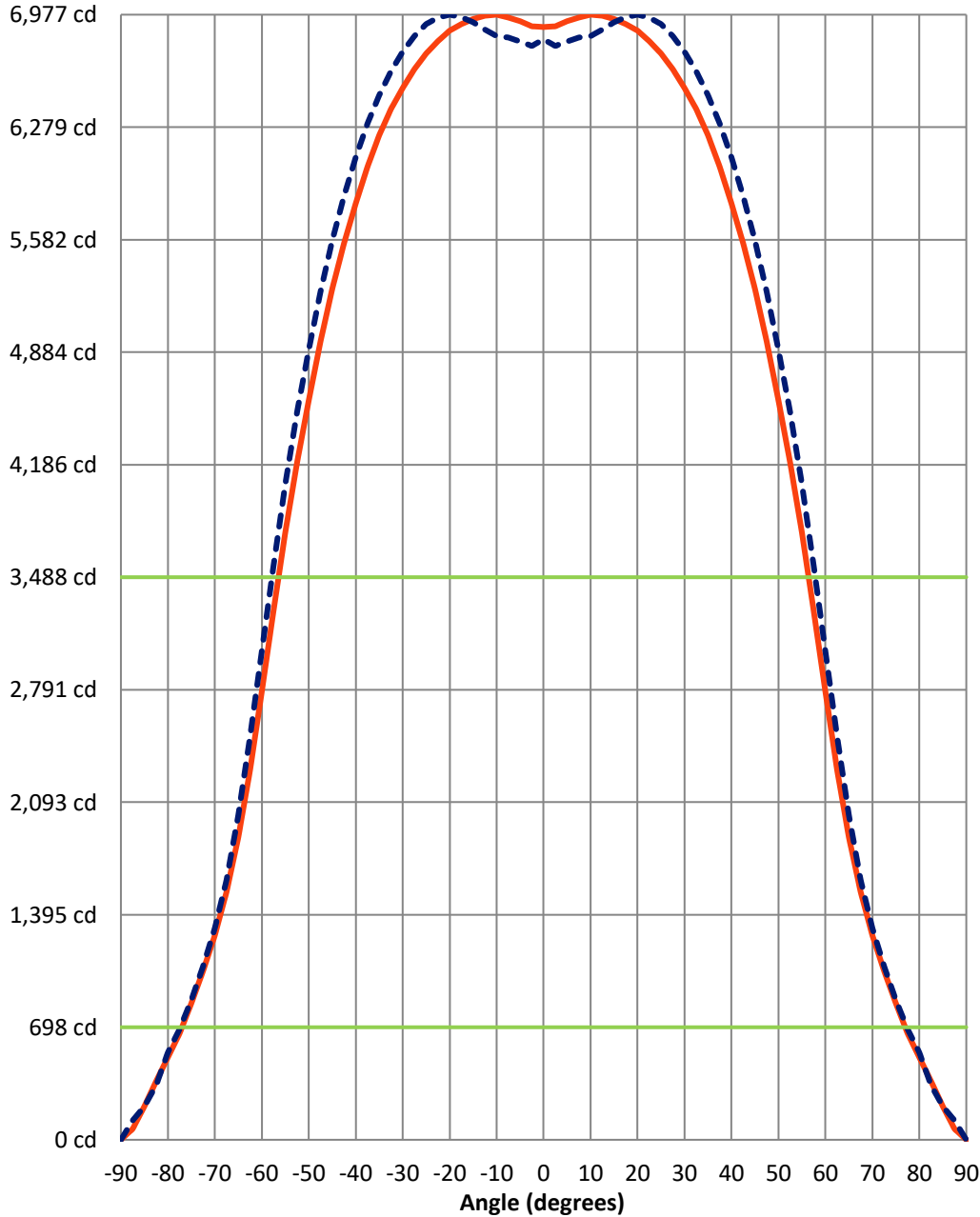
Luminous Intensity Polar Plot



— 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: 13134.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 15745.6
 Efficiency: 73.6%

Spill:
 Lumens: 5658.7
 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°	56.3	60.8	63.1	65.3	67.6	69.8	72.1	69.8	67.6	67.6	65.3
85°	150.9	155.4	157.6	173.4	189.2	198.2	209.4	207.2	207.2	204.9	202.7
82.5°	301.8	315.3	326.6	342.3	351.3	364.8	373.8	367.1	362.6	353.6	346.8
80°	536.0	540.5	542.8	545.0	533.7	531.5	527.0	520.2	511.2	500.0	488.7
77.5°	682.4	686.9	691.4	686.9	684.6	682.4	675.6	668.9	659.9	650.9	637.3
75°	903.1	903.1	903.1	896.3	891.8	885.1	873.8	862.5	846.8	828.8	808.5
72.5°	1137.3	1135.0	1132.8	1119.3	1108.0	1094.5	1078.7	1065.2	1047.2	1026.9	999.9
70°	1382.8	1387.3	1389.5	1371.5	1358.0	1340.0	1319.7	1294.9	1267.9	1238.6	1200.4
67.5°	1720.6	1716.1	1711.6	1686.8	1668.8	1644.0	1614.7	1578.7	1538.2	1493.1	1439.1
65°	2139.5	2146.2	2132.7	2107.9	2074.2	2033.6	1988.6	1936.8	1876.0	1808.4	1731.8
62.5°	2646.2	2657.5	2641.7	2610.2	2567.4	2513.3	2450.3	2375.9	2292.6	2198.0	2103.4
60°	3222.7	3220.5	3191.2	3148.4	3092.1	3024.5	2954.7	2873.7	2779.1	2668.7	2553.9
57.5°	3752.0	3747.5	3711.4	3668.6	3612.3	3540.3	3465.9	3380.4	3281.3	3164.2	3031.3
55°	4227.1	4222.6	4186.6	4141.6	4083.0	4010.9	3943.4	3862.3	3765.5	3641.6	3499.7
52.5°	4648.3	4650.5	4619.0	4569.5	4506.4	4436.6	4371.3	4290.2	4197.9	4074.0	3936.6
50°	5035.6	5033.4	4999.6	4954.6	4896.0	4828.5	4763.1	4682.1	4585.2	4465.9	4333.0
47.5°	5396.0	5391.5	5353.2	5303.6	5242.8	5184.3	5123.5	5051.4	4950.1	4830.7	4697.8
45°	5697.8	5688.7	5650.5	5603.2	5544.6	5492.8	5438.8	5384.7	5276.6	5166.3	5040.1
42.5°	5956.7	5954.5	5916.2	5868.9	5810.4	5765.3	5715.8	5648.2	5558.1	5456.8	5332.9
40°	6204.5	6186.5	6148.2	6103.1	6049.1	6010.8	5961.2	5893.7	5805.9	5706.8	5587.4
37.5°	6389.1	6391.4	6350.9	6301.3	6254.0	6218.0	6172.9	6109.9	6033.3	5936.5	5817.1
35°	6564.8	6553.5	6519.8	6477.0	6434.2	6393.6	6346.4	6292.3	6229.2	6139.2	6026.6
32.5°	6679.7	6695.4	6654.9	6609.8	6585.1	6553.5	6504.0	6447.7	6391.4	6301.3	6200.0
30°	6805.8	6792.3	6760.7	6722.5	6704.4	6684.2	6641.4	6587.3	6522.0	6440.9	6346.4
27.5°	6893.6	6886.9	6848.6	6812.5	6803.5	6785.5	6751.7	6704.4	6639.1	6560.3	6472.5
25°	6931.9	6936.4	6900.4	6880.1	6880.1	6868.8	6841.8	6801.3	6736.0	6663.9	6578.3
22.5°	6949.9	6945.4	6920.6	6916.1	6927.4	6918.4	6907.1	6871.1	6812.5	6754.0	6681.9
20°	6961.2	6929.6	6907.1	6925.1	6938.6	6936.4	6927.4	6904.9	6877.8	6828.3	6765.2
17.5°	6936.4	6916.1	6889.1	6916.1	6945.4	6947.7	6938.6	6925.1	6918.4	6886.9	6830.6
15°	6875.6	6859.8	6864.3	6891.4	6925.1	6936.4	6943.2	6958.9	6949.9	6925.1	6875.6
12.5°	6835.1	6814.8	6835.1	6862.1	6880.1	6886.9	6940.9	6970.2	6970.2	6947.7	6916.1
10°	6823.8	6783.3	6810.3	6835.1	6844.1	6884.6	6929.6	6961.2	6976.9	6958.9	6918.4
7.5°	6801.3	6774.2	6785.5	6796.8	6848.6	6877.8	6902.6	6936.4	6958.9	6956.7	6920.6
5°	6790.0	6756.2	6760.7	6808.0	6844.1	6864.3	6873.3	6902.6	6936.4	6943.2	6916.1
2.5°	6760.7	6745.0	6778.8	6783.3	6810.3	6826.0	6835.1	6862.1	6904.9	6920.6	6909.4
0°	6745.0	6722.5	6699.9	6717.9	6763.0	6796.8	6810.3	6850.8	6900.4	6916.1	6891.4



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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°	63.1	60.8	58.6	56.3	58.6	58.6	58.6	56.3	58.6	56.3	56.3
85°	195.9	186.9	180.2	171.2	162.1	155.4	146.4	137.4	135.1	132.9	128.4
82.5°	337.8	326.6	315.3	301.8	288.3	272.5	256.7	238.7	234.2	229.7	223.0
80°	475.2	459.4	443.7	427.9	414.4	398.6	380.6	360.3	346.8	335.6	322.0
77.5°	619.3	596.8	574.3	547.3	531.5	515.7	497.7	477.4	457.2	439.2	418.9
75°	783.7	759.0	736.4	709.4	680.1	650.9	621.6	594.5	565.3	538.2	511.2
72.5°	966.1	930.1	894.1	860.3	824.3	788.2	749.9	713.9	677.9	641.8	603.6
70°	1157.6	1112.5	1067.5	1022.4	975.1	927.9	882.8	837.8	792.7	745.4	702.6
67.5°	1382.8	1331.0	1272.4	1209.4	1139.6	1078.7	1020.2	966.1	912.1	858.0	804.0
65°	1664.3	1592.2	1513.4	1427.8	1346.7	1265.7	1180.1	1099.0	1036.0	972.9	912.1
62.5°	2011.1	1909.8	1799.4	1689.1	1590.0	1484.1	1385.0	1279.2	1180.1	1090.0	1015.7
60°	2425.5	2288.1	2153.0	2011.1	1873.7	1729.6	1603.5	1472.9	1349.0	1238.6	1130.5
57.5°	2882.7	2722.8	2560.6	2387.2	2200.3	2031.4	1860.2	1689.1	1542.7	1396.3	1274.7
55°	3346.6	3177.7	2995.3	2799.3	2594.4	2378.2	2146.2	1954.8	1754.4	1583.2	1425.6
52.5°	3788.0	3612.3	3423.2	3243.0	2997.5	2749.8	2495.3	2243.1	2008.9	1790.4	1599.0
50°	4182.1	4010.9	3828.5	3619.1	3391.6	3128.1	2844.4	2560.6	2283.6	2026.9	1788.1
47.5°	4542.4	4375.8	4193.4	3983.9	3776.7	3484.0	3197.9	2884.9	2576.4	2281.4	2002.1
45°	4880.3	4711.3	4522.2	4321.7	4083.0	3821.8	3526.8	3211.5	2880.4	2549.4	2227.3
42.5°	5186.5	5017.6	4826.2	4619.0	4382.5	4123.6	3837.5	3520.0	3186.7	2826.4	2472.8
40°	5454.5	5290.1	5105.5	4889.3	4668.6	4396.1	4114.5	3812.8	3468.2	3105.6	2716.0
37.5°	5688.7	5535.6	5353.2	5139.2	4905.0	4661.8	4371.3	4069.5	3758.7	3364.6	2966.0
35°	5895.9	5754.1	5567.1	5364.4	5134.7	4878.0	4605.5	4310.5	3974.9	3605.6	3218.2
32.5°	6076.1	5932.0	5760.8	5558.1	5335.2	5094.2	4814.9	4517.7	4200.1	3824.0	3402.9
30°	6229.2	6089.6	5927.5	5736.0	5522.1	5283.4	5010.9	4711.3	4387.0	4013.2	3596.6
27.5°	6362.1	6229.2	6071.6	5893.7	5688.7	5459.0	5184.3	4882.5	4551.4	4191.1	3774.5
25°	6477.0	6348.6	6202.2	6033.3	5830.6	5605.4	5346.4	5031.1	4700.1	4337.5	3925.4
22.5°	6580.6	6456.7	6310.3	6145.9	5961.2	5736.0	5474.8	5161.8	4826.2	4468.1	4062.7
20°	6672.9	6558.0	6413.9	6245.0	6060.3	5832.9	5573.9	5276.6	4938.8	4587.5	4186.6
17.5°	6747.2	6645.9	6501.7	6323.8	6139.2	5918.5	5666.2	5393.7	5035.6	4688.8	4290.2
15°	6799.0	6699.9	6569.3	6389.1	6209.0	5990.5	5738.3	5456.8	5123.5	4769.9	4375.8
12.5°	6835.1	6729.2	6607.6	6440.9	6260.8	6044.6	5799.1	5522.1	5197.8	4842.0	4450.1
10°	6844.1	6747.2	6625.6	6477.0	6301.3	6091.9	5850.9	5576.1	5258.6	4898.3	4510.9
7.5°	6848.6	6756.2	6645.9	6504.0	6330.6	6127.9	5889.2	5618.9	5303.6	4945.6	4556.0
5°	6846.3	6758.5	6659.4	6522.0	6348.6	6148.2	5914.0	5648.2	5335.2	4977.1	4589.7
2.5°	6839.6	6760.7	6668.4	6535.5	6368.9	6170.7	5938.7	5682.0	5369.0	5004.1	4616.8
0°	6857.6	6790.0	6672.9	6531.0	6373.4	6170.7	5936.5	5686.5	5373.5	5001.9	4614.5



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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°	56.3	54.0	54.0	51.8	49.5	47.3	42.8	40.5	36.0	29.3	22.5
85°	121.6	114.9	108.1	103.6	99.1	94.6	87.8	81.1	72.1	58.6	45.0
82.5°	213.9	200.4	186.9	171.2	157.6	144.1	132.9	121.6	108.1	87.8	67.6
80°	306.3	286.0	265.7	243.2	223.0	200.4	180.2	162.1	144.1	117.1	90.1
77.5°	398.6	371.6	342.3	315.3	286.0	256.7	227.5	202.7	175.7	144.1	112.6
75°	484.2	452.7	425.6	387.4	351.3	313.0	274.8	241.0	207.2	168.9	135.1
72.5°	569.8	529.2	491.0	454.9	414.4	367.1	324.3	281.5	238.7	193.7	153.1
70°	655.4	605.8	558.5	515.7	470.7	423.4	371.6	322.0	270.2	216.2	168.9
67.5°	743.2	686.9	632.8	578.8	527.0	472.9	418.9	362.6	301.8	238.7	186.9
65°	840.0	770.2	704.9	644.1	583.3	524.7	463.9	403.1	335.6	263.5	202.7
62.5°	936.9	860.3	783.7	707.2	639.6	574.3	509.0	441.4	367.1	290.5	218.5
60°	1040.5	952.6	864.8	779.2	695.9	623.8	551.8	479.7	400.9	315.3	234.2
57.5°	1155.3	1049.5	950.4	853.5	759.0	673.4	594.5	518.0	430.1	340.1	252.2
55°	1285.9	1155.3	1038.2	930.1	826.5	722.9	637.3	558.5	463.9	364.8	272.5
52.5°	1423.3	1272.4	1130.5	1008.9	898.6	781.5	677.9	590.0	497.7	389.6	290.5
50°	1583.2	1391.8	1234.1	1085.5	961.6	840.0	720.7	626.1	531.5	418.9	308.5
47.5°	1747.6	1535.9	1337.7	1175.6	1029.2	896.3	770.2	657.6	563.0	445.9	326.6
45°	1939.0	1673.3	1454.8	1263.4	1094.5	954.9	819.8	691.4	590.0	472.9	344.6
42.5°	2123.7	1835.4	1576.5	1360.3	1168.8	1011.2	864.8	727.4	617.1	500.0	360.3
40°	2342.2	1997.6	1693.6	1452.6	1243.1	1065.2	909.8	765.7	641.8	524.7	376.1
37.5°	2551.6	2162.0	1835.4	1553.9	1315.2	1119.3	954.9	801.7	664.4	549.5	396.4
35°	2758.8	2344.4	1970.6	1648.5	1389.5	1180.1	999.9	835.5	686.9	569.8	414.4
32.5°	2957.0	2515.6	2107.9	1754.4	1470.6	1236.4	1040.5	867.0	709.4	587.8	432.4
30°	3141.6	2677.7	2243.1	1862.5	1544.9	1288.2	1078.7	898.6	736.4	603.6	450.4
27.5°	3310.6	2835.4	2378.2	1963.8	1614.7	1335.5	1119.3	927.9	759.0	619.3	466.2
25°	3463.7	2977.2	2502.1	2056.1	1677.8	1387.3	1157.6	957.1	779.2	632.8	479.7
22.5°	3607.8	3107.9	2614.7	2148.5	1754.4	1439.1	1193.6	984.2	799.5	646.3	493.2
20°	3733.9	3227.2	2722.8	2240.8	1821.9	1486.4	1225.1	1008.9	817.5	655.4	506.7
17.5°	3835.3	3333.1	2819.6	2321.9	1880.5	1526.9	1252.2	1031.5	833.3	666.6	515.7
15°	3925.4	3423.2	2900.7	2391.7	1932.3	1560.7	1276.9	1049.5	846.8	673.4	527.0
12.5°	4001.9	3499.7	2970.5	2452.5	1977.3	1590.0	1297.2	1063.0	858.0	680.1	533.7
10°	4065.0	3560.5	3029.0	2499.8	2013.4	1612.5	1313.0	1076.5	867.0	686.9	540.5
7.5°	4112.3	3605.6	3071.8	2540.3	2042.6	1628.3	1326.5	1085.5	876.1	691.4	551.8
5°	4148.3	3643.9	3105.6	2567.4	2065.2	1650.8	1342.2	1096.8	885.1	695.9	551.8
2.5°	4175.4	3675.4	3132.6	2589.9	2083.2	1646.3	1342.2	1094.5	885.1	695.9	549.5
0°	4170.8	3677.6	3130.4	2589.9	2083.2	1641.8	1342.2	1092.3	885.1	695.9	549.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.8	11.3	4.5	0.0
85°	33.8	22.5	11.3	0.0
82.5°	49.5	31.5	15.8	0.0
80°	65.3	42.8	20.3	0.0
77.5°	83.3	54.0	27.0	0.0
75°	99.1	63.1	31.5	0.0
72.5°	114.9	74.3	36.0	0.0
70°	128.4	83.3	40.5	0.0
67.5°	141.9	94.6	47.3	0.0
65°	153.1	103.6	51.8	0.0
62.5°	162.1	114.9	56.3	0.0
60°	173.4	123.9	60.8	0.0
57.5°	182.4	130.6	65.3	0.0
55°	191.4	135.1	69.8	0.0
52.5°	200.4	141.9	74.3	0.0
50°	209.4	148.6	78.8	0.0
47.5°	218.5	153.1	81.1	0.0
45°	232.0	159.9	85.6	0.0
42.5°	243.2	164.4	90.1	0.0
40°	254.5	168.9	92.3	0.0
37.5°	265.7	173.4	96.8	0.0
35°	277.0	177.9	99.1	0.0
32.5°	286.0	182.4	101.3	0.0
30°	295.0	186.9	103.6	0.0
27.5°	304.0	189.2	105.8	0.0
25°	310.8	193.7	108.1	0.0
22.5°	317.5	195.9	110.4	0.0
20°	322.0	198.2	112.6	0.0
17.5°	328.8	200.4	114.9	0.0
15°	331.1	202.7	119.4	0.0
12.5°	335.6	204.9	119.4	0.0
10°	337.8	207.2	119.4	0.0
7.5°	342.3	207.2	119.4	0.0
5°	340.1	207.2	119.4	0.0
2.5°	340.1	207.2	119.4	0.0
0°	337.8	207.2	119.4	0.0

(END OF REPORT)