

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: P628510

Luminaire Tested: **IFLD-S-SA6C-940-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628510
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-940-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

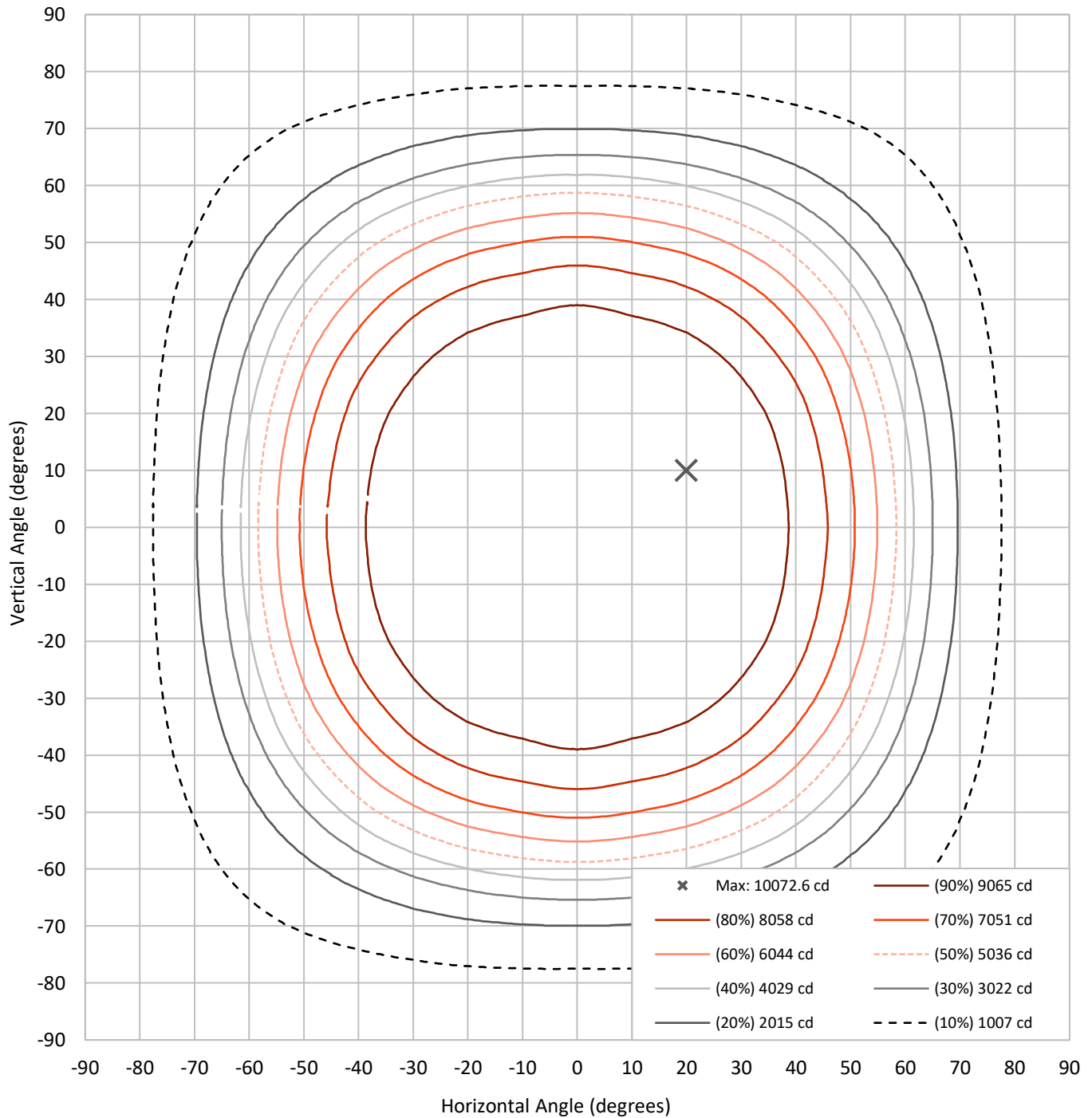
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30901.2 lumens	Max Intensity:	10072.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	96.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	18961.6 lumens	Field Lumens:	22731.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 321.5
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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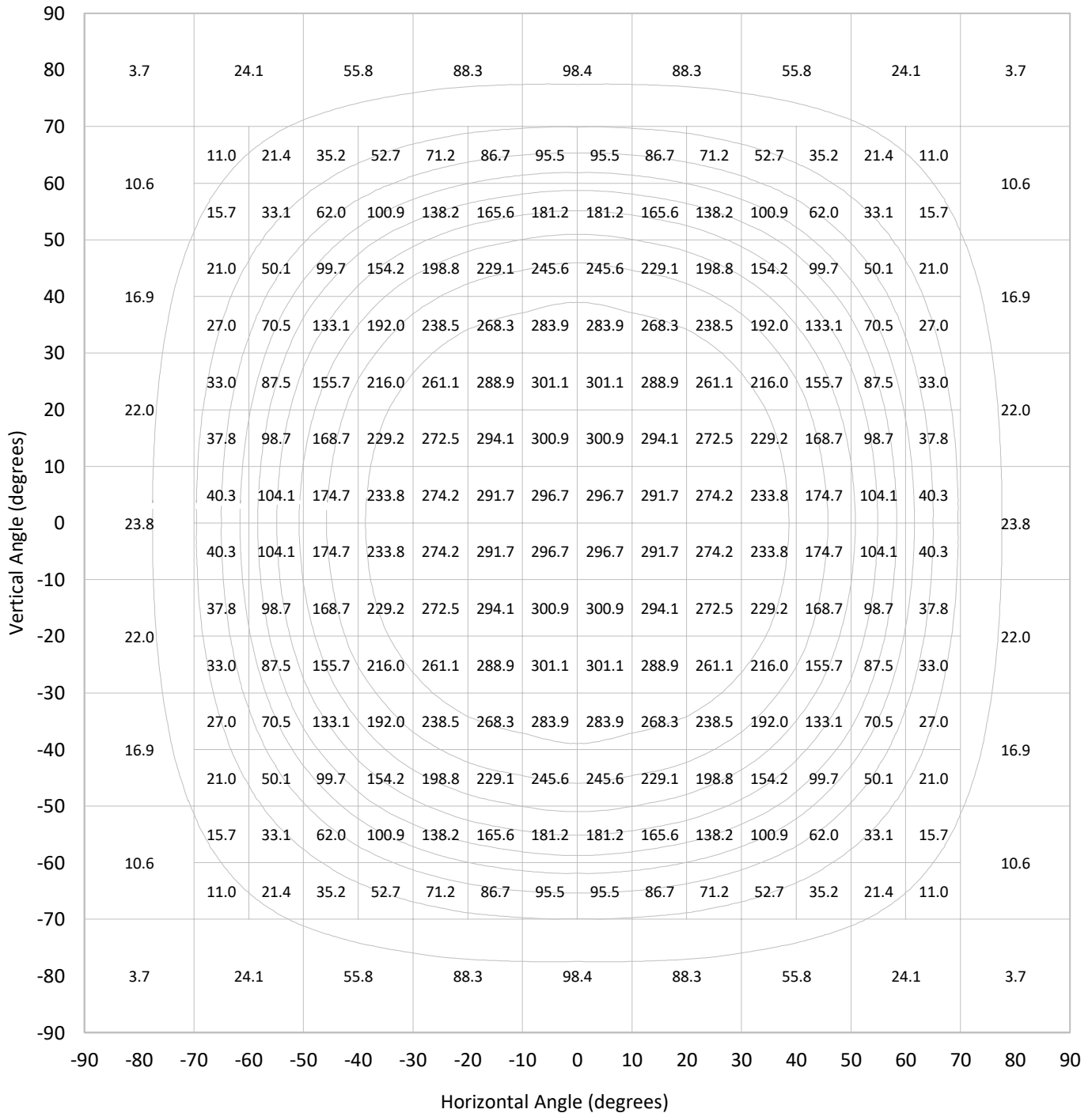
Iso-Candela Plot





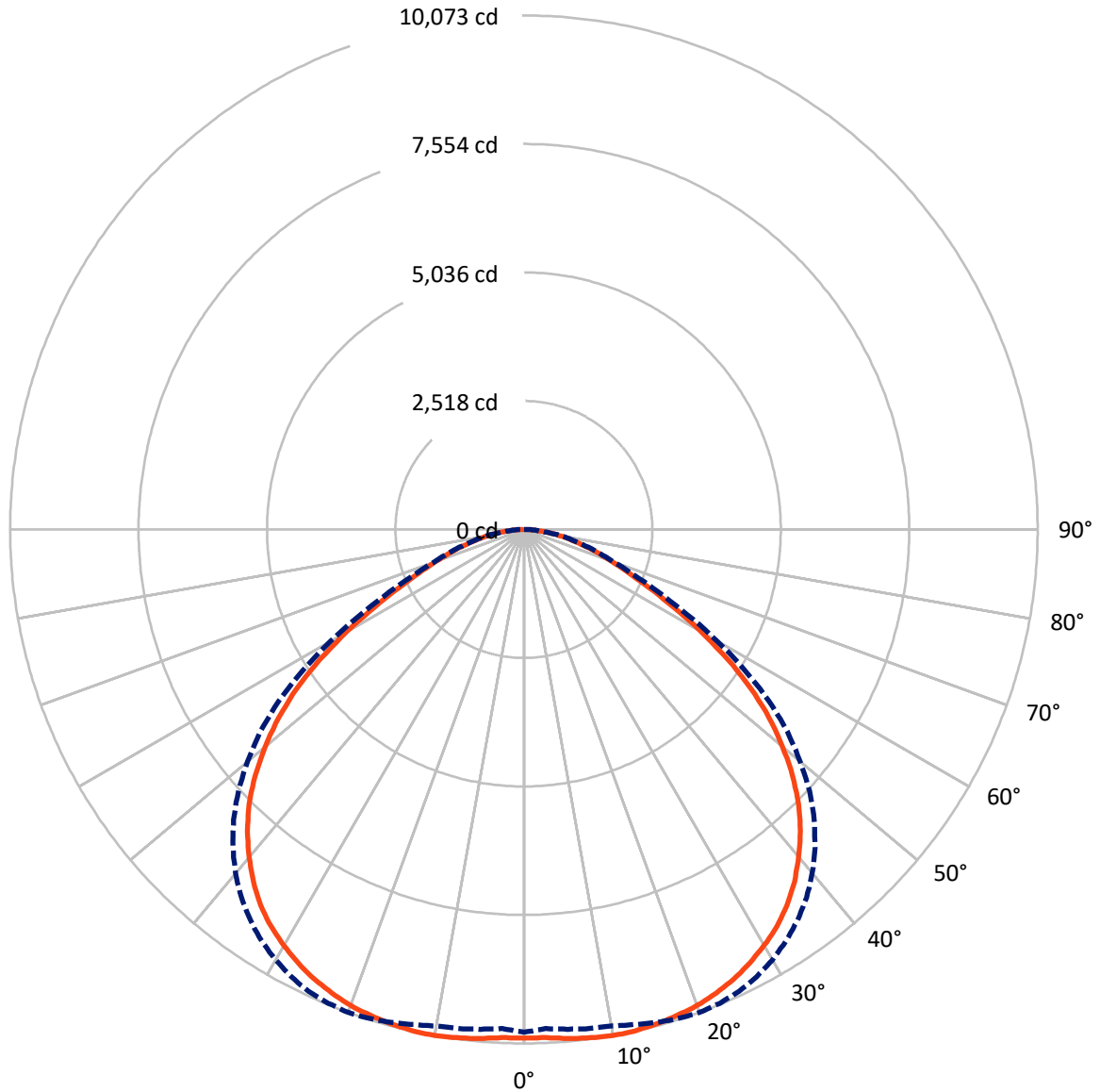
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Lumen Table



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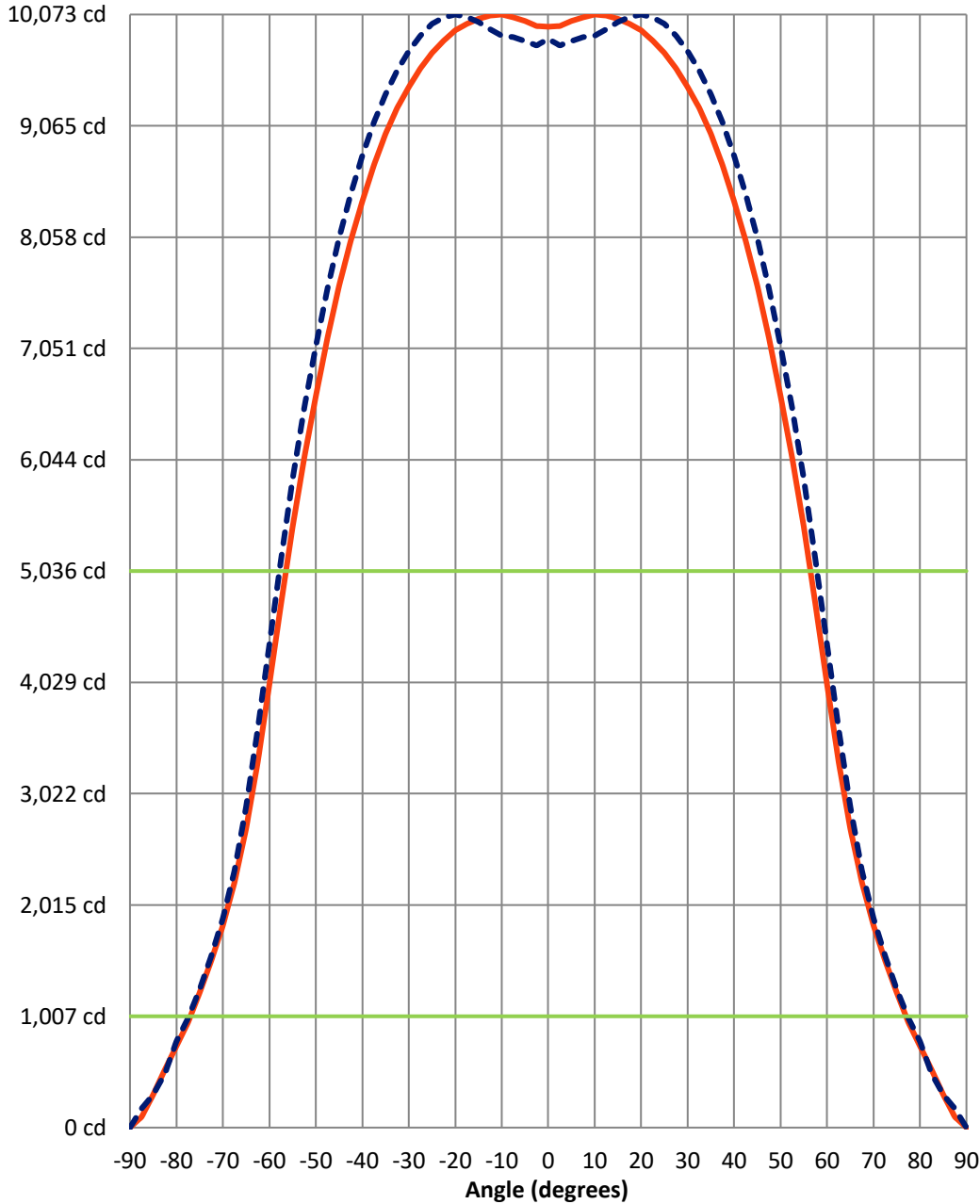
Luminous Intensity Polar Plot



— 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: 18961.6
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 22731.8
Efficiency: 73.6%

Spill:
Lumens: 8169.5
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°	81.3	87.8	91.0	94.3	97.5	100.8	104.0	100.8	97.5	97.5	94.3
85°	217.8	224.3	227.6	250.4	273.1	286.1	302.4	299.1	299.1	295.9	292.6
82.5°	435.7	455.2	471.4	494.2	507.2	526.7	539.7	530.0	523.5	510.5	500.7
80°	773.8	780.3	783.6	786.8	770.6	767.3	760.8	751.1	738.0	721.8	705.5
77.5°	985.1	991.6	998.2	991.6	988.4	985.1	975.4	965.6	952.6	939.6	920.1
75°	1303.8	1303.8	1303.8	1294.0	1287.5	1277.8	1261.5	1245.3	1222.5	1196.5	1167.2
72.5°	1641.9	1638.7	1635.4	1615.9	1599.6	1580.1	1557.4	1537.9	1511.9	1482.6	1443.6
70°	1996.3	2002.8	2006.1	1980.0	1960.5	1934.5	1905.3	1869.5	1830.5	1788.2	1732.9
67.5°	2484.0	2477.5	2471.0	2435.2	2409.2	2373.5	2331.2	2279.2	2220.6	2155.6	2077.6
65°	3088.7	3098.5	3079.0	3043.2	2994.5	2935.9	2870.9	2796.1	2708.3	2610.8	2500.3
62.5°	3820.3	3836.5	3813.8	3768.3	3706.5	3628.5	3537.4	3430.1	3309.8	3173.3	3036.7
60°	4652.6	4649.4	4607.1	4545.3	4464.0	4366.5	4265.7	4148.7	4012.1	3852.8	3687.0
57.5°	5416.7	5410.2	5358.2	5296.4	5215.1	5111.1	5003.8	4880.2	4737.2	4568.1	4376.3
55°	6102.7	6096.2	6044.2	5979.2	5894.6	5790.6	5693.0	5576.0	5436.2	5257.4	5052.5
52.5°	6710.7	6714.0	6668.4	6596.9	6505.9	6405.1	6310.8	6193.7	6060.4	5881.6	5683.3
50°	7269.9	7266.7	7217.9	7152.9	7068.3	6970.8	6876.5	6759.5	6619.7	6447.3	6255.5
47.5°	7790.1	7783.6	7728.4	7656.8	7569.0	7484.5	7396.7	7292.7	7146.4	6974.1	6782.2
45°	8225.8	8212.8	8157.5	8089.3	8004.7	7929.9	7851.9	7773.9	7617.8	7458.5	7276.4
42.5°	8599.7	8596.5	8541.2	8472.9	8388.4	8323.3	8251.8	8154.3	8024.2	7877.9	7699.1
40°	8957.4	8931.3	8876.1	8811.0	8733.0	8677.7	8606.2	8508.7	8381.9	8238.8	8066.5
37.5°	9224.0	9227.2	9168.7	9097.2	9028.9	8976.9	8911.8	8820.8	8710.3	8570.4	8398.1
35°	9477.6	9461.3	9412.5	9350.8	9289.0	9230.5	9162.2	9084.2	8993.1	8863.1	8700.5
32.5°	9643.4	9666.1	9607.6	9542.6	9506.8	9461.3	9389.8	9308.5	9227.2	9097.2	8950.9
30°	9825.5	9805.9	9760.4	9705.2	9679.1	9649.9	9588.1	9510.1	9415.8	9298.7	9162.2
27.5°	9952.3	9942.5	9887.2	9835.2	9822.2	9796.2	9747.4	9679.1	9584.9	9471.1	9344.3
25°	10007.5	10014.0	9962.0	9932.7	9932.7	9916.5	9877.5	9818.9	9724.7	9620.6	9497.1
22.5°	10033.5	10027.0	9991.3	9984.8	10001.0	9988.0	9971.8	9919.7	9835.2	9750.7	9646.6
20°	10049.8	10004.3	9971.8	9997.8	10017.3	10014.0	10001.0	9968.5	9929.5	9858.0	9766.9
17.5°	10014.0	9984.8	9945.8	9984.8	10027.0	10030.3	10017.3	9997.8	9988.0	9942.5	9861.2
15°	9926.2	9903.5	9910.0	9949.0	9997.8	10014.0	10023.8	10046.5	10033.5	9997.8	9926.2
12.5°	9867.7	9838.5	9867.7	9906.7	9932.7	9942.5	10020.5	10062.8	10062.8	10030.3	9984.8
10°	9851.5	9792.9	9832.0	9867.7	9880.7	9939.2	10004.3	10049.8	10072.6	10046.5	9988.0
7.5°	9818.9	9779.9	9796.2	9812.4	9887.2	9929.5	9965.3	10014.0	10046.5	10043.3	9991.3
5°	9802.7	9753.9	9760.4	9828.7	9880.7	9910.0	9923.0	9965.3	10014.0	10023.8	9984.8
2.5°	9760.4	9737.7	9786.4	9792.9	9832.0	9854.7	9867.7	9906.7	9968.5	9991.3	9975.0
0°	9737.7	9705.2	9672.6	9698.7	9763.7	9812.4	9832.0	9890.5	9962.0	9984.8	9949.0



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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°	91.0	87.8	84.5	81.3	84.5	84.5	84.5	81.3	84.5	81.3	81.3
85°	282.9	269.9	260.1	247.1	234.1	224.3	211.3	198.3	195.1	191.8	185.3
82.5°	487.7	471.4	455.2	435.7	416.2	393.4	370.6	344.6	338.1	331.6	321.9
80°	686.0	663.3	640.5	617.7	598.2	575.5	549.5	520.2	500.7	484.4	464.9
77.5°	894.1	861.6	829.1	790.1	767.3	744.5	718.5	689.3	660.0	634.0	604.7
75°	1131.5	1095.7	1063.2	1024.2	981.9	939.6	897.4	858.3	816.1	777.1	738.0
72.5°	1394.8	1342.8	1290.8	1242.0	1190.0	1138.0	1082.7	1030.7	978.6	926.6	871.4
70°	1671.2	1606.1	1541.1	1476.1	1407.8	1339.5	1274.5	1209.5	1144.5	1076.2	1014.4
67.5°	1996.3	1921.5	1837.0	1746.0	1645.2	1557.4	1472.8	1394.8	1316.8	1238.7	1160.7
65°	2402.7	2298.7	2184.9	2061.3	1944.3	1827.2	1703.7	1586.6	1495.6	1404.6	1316.8
62.5°	2903.4	2757.1	2597.8	2438.5	2295.4	2142.6	1999.6	1846.7	1703.7	1573.6	1466.3
60°	3501.7	3303.3	3108.3	2903.4	2705.1	2497.0	2314.9	2126.4	1947.5	1788.2	1632.2
57.5°	4161.7	3930.8	3696.7	3446.4	3176.5	2932.7	2685.6	2438.5	2227.1	2015.8	1840.2
55°	4831.4	4587.6	4324.2	4041.4	3745.5	3433.4	3098.5	2822.1	2532.8	2285.7	2058.1
52.5°	5468.7	5215.1	4942.0	4681.9	4327.5	3969.8	3602.4	3238.3	2900.2	2584.8	2308.4
50°	6037.7	5790.6	5527.2	5224.9	4896.5	4516.1	4106.4	3696.7	3296.8	2926.2	2581.5
47.5°	6557.9	6317.3	6053.9	5751.6	5452.4	5029.8	4616.9	4164.9	3719.5	3293.6	2890.4
45°	7045.6	6801.7	6528.6	6239.3	5894.6	5517.5	5091.5	4636.4	4158.4	3680.5	3215.5
42.5°	7487.8	7243.9	6967.6	6668.4	6327.0	5953.1	5540.2	5081.8	4600.6	4080.4	3569.9
40°	7874.7	7637.3	7370.7	7058.6	6740.0	6346.6	5940.1	5504.5	5007.0	4483.6	3921.1
37.5°	8212.8	7991.7	7728.4	7419.5	7081.3	6730.2	6310.8	5875.1	5426.4	4857.5	4282.0
35°	8511.9	8307.1	8037.2	7744.6	7413.0	7042.3	6648.9	6223.0	5738.6	5205.3	4646.1
32.5°	8772.0	8563.9	8316.8	8024.2	7702.3	7354.5	6951.3	6522.1	6063.7	5520.7	4912.7
30°	8993.1	8791.5	8557.4	8281.1	7972.2	7627.6	7234.2	6801.7	6333.5	5793.8	5192.3
27.5°	9184.9	8993.1	8765.5	8508.7	8212.8	7881.2	7484.5	7048.8	6570.9	6050.7	5449.2
25°	9350.8	9165.4	8954.1	8710.3	8417.6	8092.5	7718.6	7263.4	6785.5	6262.0	5667.0
22.5°	9500.3	9321.5	9110.2	8872.8	8606.2	8281.1	7903.9	7452.0	6967.6	6450.6	5865.4
20°	9633.6	9467.8	9259.7	9015.9	8749.3	8420.9	8047.0	7617.8	7130.1	6622.9	6044.2
17.5°	9740.9	9594.6	9386.5	9129.7	8863.1	8544.4	8180.3	7786.9	7269.9	6769.2	6193.7
15°	9815.7	9672.6	9484.1	9224.0	8963.9	8648.5	8284.3	7877.9	7396.7	6886.3	6317.3
12.5°	9867.7	9714.9	9539.3	9298.7	9038.6	8726.5	8372.1	7972.2	7504.0	6990.3	6424.6
10°	9880.7	9740.9	9565.3	9350.8	9097.2	8794.8	8446.9	8050.2	7591.8	7071.6	6512.4
7.5°	9887.2	9753.9	9594.6	9389.8	9139.4	8846.8	8502.2	8112.0	7656.8	7139.9	6577.4
5°	9884.0	9757.2	9614.1	9415.8	9165.4	8876.1	8537.9	8154.3	7702.3	7185.4	6626.2
2.5°	9874.2	9760.4	9627.1	9435.3	9194.7	8908.6	8573.7	8203.0	7751.1	7224.4	6665.2
0°	9900.2	9802.7	9633.6	9428.8	9201.2	8908.6	8570.4	8209.6	7757.6	7221.2	6661.9



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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°	81.3	78.0	78.0	74.8	71.5	68.3	61.8	58.5	52.0	42.3	32.5
85°	175.6	165.8	156.1	149.6	143.1	136.6	126.8	117.0	104.0	84.5	65.0
82.5°	308.9	289.4	269.9	247.1	227.6	208.1	191.8	175.6	156.1	126.8	97.5
80°	442.2	412.9	383.7	351.1	321.9	289.4	260.1	234.1	208.1	169.1	130.1
77.5°	575.5	536.5	494.2	455.2	412.9	370.6	328.4	292.6	253.6	208.1	162.6
75°	699.0	653.5	614.5	559.2	507.2	451.9	396.7	347.9	299.1	243.8	195.1
72.5°	822.6	764.1	708.8	656.8	598.2	530.0	468.2	406.4	344.6	279.6	221.1
70°	946.1	874.6	806.3	744.5	679.5	611.2	536.5	464.9	390.2	312.1	243.8
67.5°	1072.9	991.6	913.6	835.6	760.8	682.8	604.7	523.5	435.7	344.6	269.9
65°	1212.7	1111.9	1017.7	929.9	842.1	757.6	669.8	582.0	484.4	380.4	292.6
62.5°	1352.5	1242.0	1131.5	1020.9	923.4	829.1	734.8	637.3	530.0	419.4	315.4
60°	1502.1	1375.3	1248.5	1125.0	1004.7	900.6	796.6	692.5	578.7	455.2	338.1
57.5°	1667.9	1515.1	1372.1	1232.2	1095.7	972.1	858.3	747.8	621.0	490.9	364.1
55°	1856.5	1667.9	1498.9	1342.8	1193.2	1043.7	920.1	806.3	669.8	526.7	393.4
52.5°	2054.8	1837.0	1632.2	1456.6	1297.3	1128.2	978.6	851.8	718.5	562.5	419.4
50°	2285.7	2009.3	1781.7	1567.1	1388.3	1212.7	1040.4	903.9	767.3	604.7	445.4
47.5°	2523.0	2217.4	1931.3	1697.2	1485.8	1294.0	1111.9	949.4	812.8	643.8	471.4
45°	2799.4	2415.7	2100.3	1824.0	1580.1	1378.6	1183.5	998.2	851.8	682.8	497.5
42.5°	3066.0	2649.8	2275.9	1963.8	1687.4	1459.8	1248.5	1050.2	890.9	721.8	520.2
40°	3381.4	2883.9	2445.0	2097.1	1794.7	1537.9	1313.5	1105.4	926.6	757.6	543.0
37.5°	3683.7	3121.3	2649.8	2243.4	1898.8	1615.9	1378.6	1157.5	959.1	793.3	572.2
35°	3982.9	3384.6	2844.9	2380.0	2006.1	1703.7	1443.6	1206.2	991.6	822.6	598.2
32.5°	4269.0	3631.7	3043.2	2532.8	2123.1	1785.0	1502.1	1251.8	1024.2	848.6	624.3
30°	4535.6	3865.8	3238.3	2688.8	2230.4	1859.7	1557.4	1297.3	1063.2	871.4	650.3
27.5°	4779.4	4093.4	3433.4	2835.1	2331.2	1928.0	1615.9	1339.5	1095.7	894.1	673.0
25°	5000.5	4298.2	3612.2	2968.4	2422.2	2002.8	1671.2	1381.8	1125.0	913.6	692.5
22.5°	5208.6	4486.8	3774.8	3101.7	2532.8	2077.6	1723.2	1420.8	1154.2	933.1	712.0
20°	5390.7	4659.1	3930.8	3235.1	2630.3	2145.9	1768.7	1456.6	1180.2	946.1	731.5
17.5°	5537.0	4811.9	4070.6	3352.1	2714.8	2204.4	1807.7	1489.1	1203.0	962.4	744.5
15°	5667.0	4942.0	4187.7	3452.9	2789.6	2253.2	1843.5	1515.1	1222.5	972.1	760.8
12.5°	5777.6	5052.5	4288.5	3540.7	2854.6	2295.4	1872.8	1534.6	1238.7	981.9	770.6
10°	5868.6	5140.3	4373.0	3609.0	2906.7	2327.9	1895.5	1554.1	1251.8	991.6	780.3
7.5°	5936.9	5205.3	4434.8	3667.5	2948.9	2350.7	1915.0	1567.1	1264.8	998.2	796.6
5°	5988.9	5260.6	4483.6	3706.5	2981.4	2383.2	1937.8	1583.4	1277.8	1004.7	796.6
2.5°	6027.9	5306.1	4522.6	3739.0	3007.5	2376.7	1937.8	1580.1	1277.8	1004.7	793.3
0°	6021.4	5309.4	4519.3	3739.0	3007.5	2370.2	1937.8	1576.9	1277.8	1004.7	793.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.8	16.3	6.5	0.0
85°	48.8	32.5	16.3	0.0
82.5°	71.5	45.5	22.8	0.0
80°	94.3	61.8	29.3	0.0
77.5°	120.3	78.0	39.0	0.0
75°	143.1	91.0	45.5	0.0
72.5°	165.8	107.3	52.0	0.0
70°	185.3	120.3	58.5	0.0
67.5°	204.8	136.6	68.3	0.0
65°	221.1	149.6	74.8	0.0
62.5°	234.1	165.8	81.3	0.0
60°	250.4	178.8	87.8	0.0
57.5°	263.4	188.6	94.3	0.0
55°	276.4	195.1	100.8	0.0
52.5°	289.4	204.8	107.3	0.0
50°	302.4	214.6	113.8	0.0
47.5°	315.4	221.1	117.0	0.0
45°	334.9	230.8	123.5	0.0
42.5°	351.1	237.3	130.1	0.0
40°	367.4	243.8	133.3	0.0
37.5°	383.7	250.4	139.8	0.0
35°	399.9	256.9	143.1	0.0
32.5°	412.9	263.4	146.3	0.0
30°	425.9	269.9	149.6	0.0
27.5°	438.9	273.1	152.8	0.0
25°	448.7	279.6	156.1	0.0
22.5°	458.4	282.9	159.3	0.0
20°	464.9	286.1	162.6	0.0
17.5°	474.7	289.4	165.8	0.0
15°	477.9	292.6	172.3	0.0
12.5°	484.4	295.9	172.3	0.0
10°	487.7	299.1	172.3	0.0
7.5°	494.2	299.1	172.3	0.0
5°	490.9	299.1	172.3	0.0
2.5°	490.9	299.1	172.3	0.0
0°	487.7	299.1	172.3	0.0

(END OF REPORT)