

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: P628179

Luminaire Tested: **IFLD-S-SA2A-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628179
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

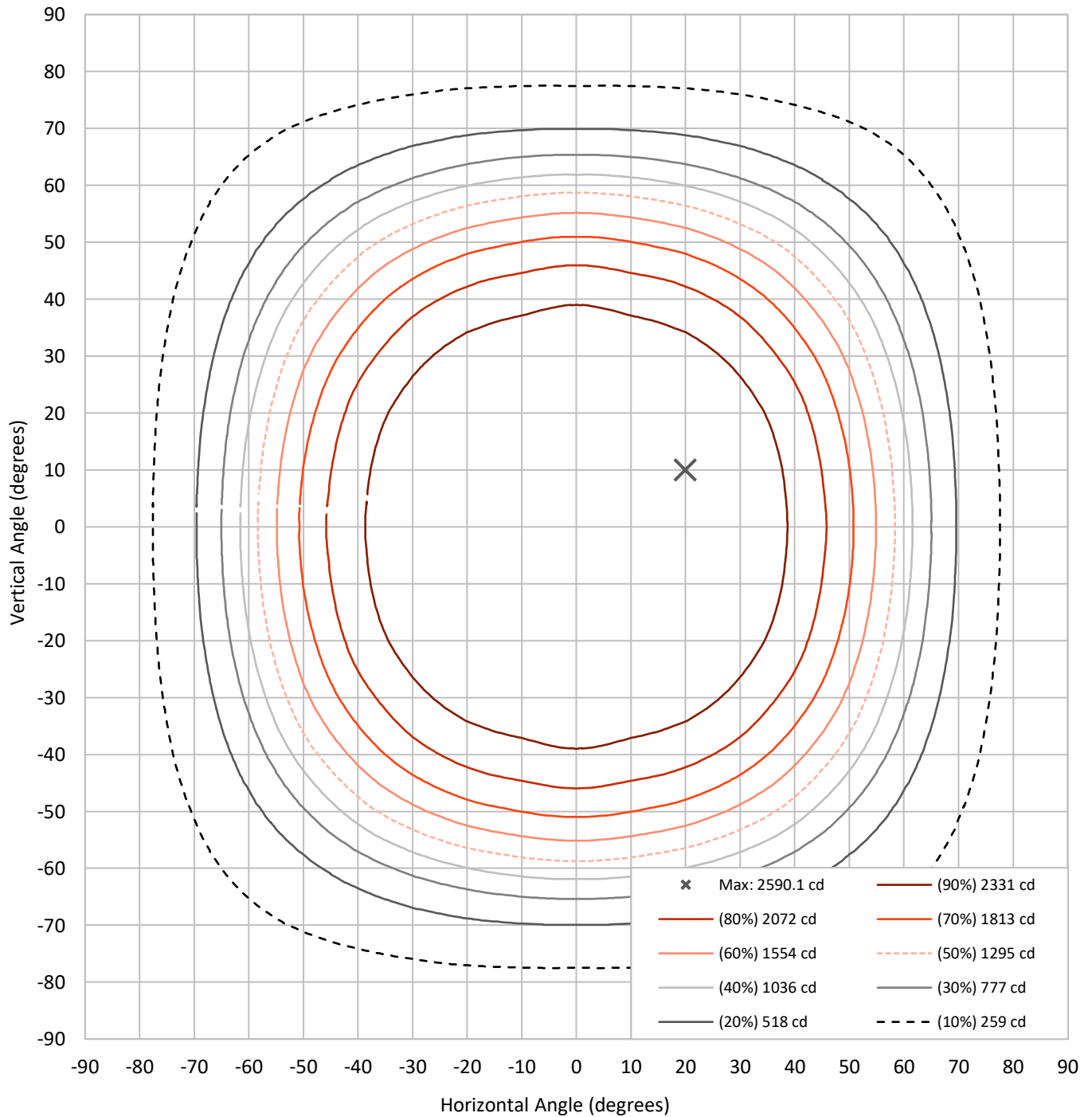
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7946.1 lumens	Max Intensity:	2590.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	124.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	4875.9 lumens	Field Lumens:	5845.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 63.8
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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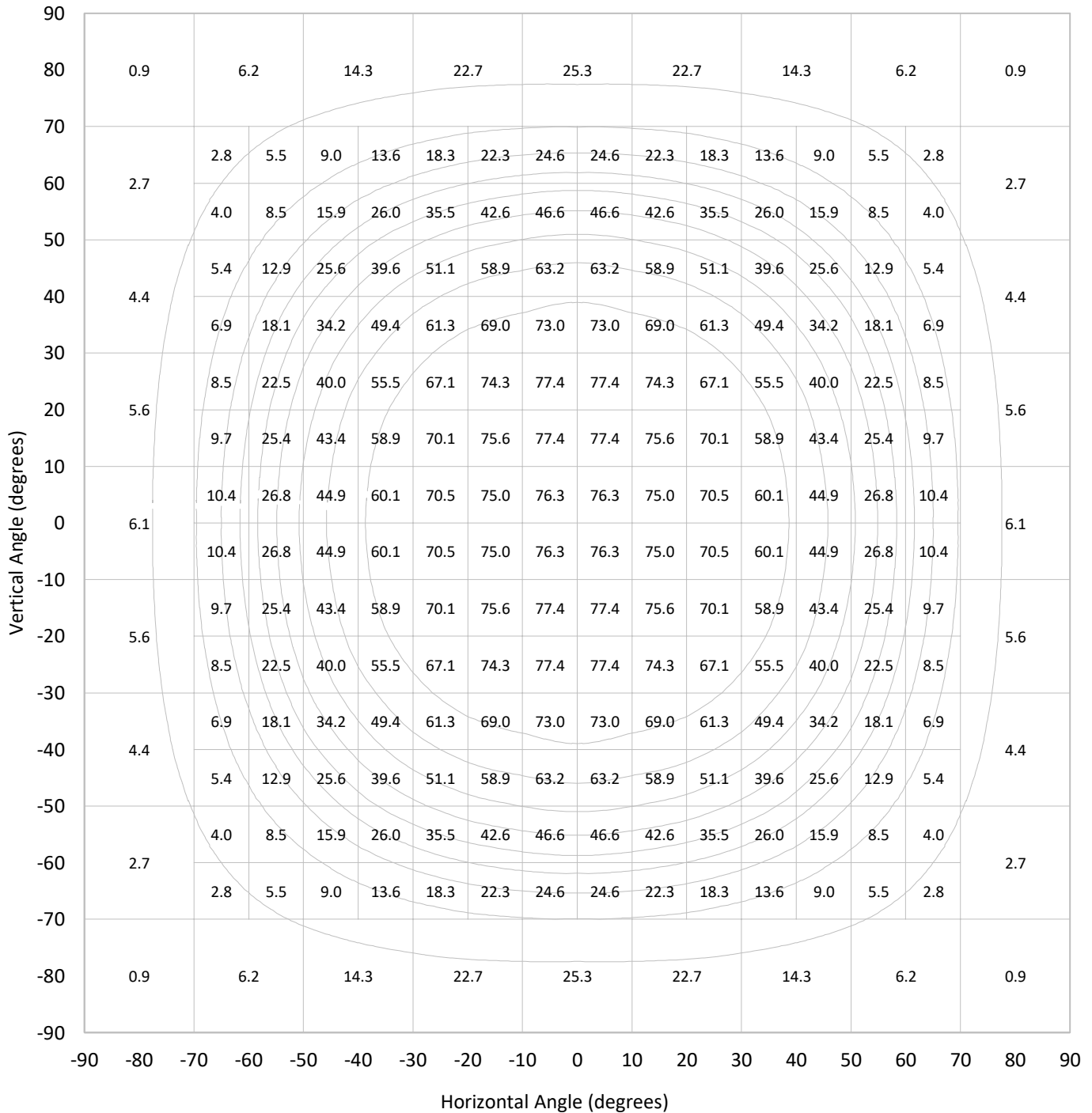
Iso-Candela Plot





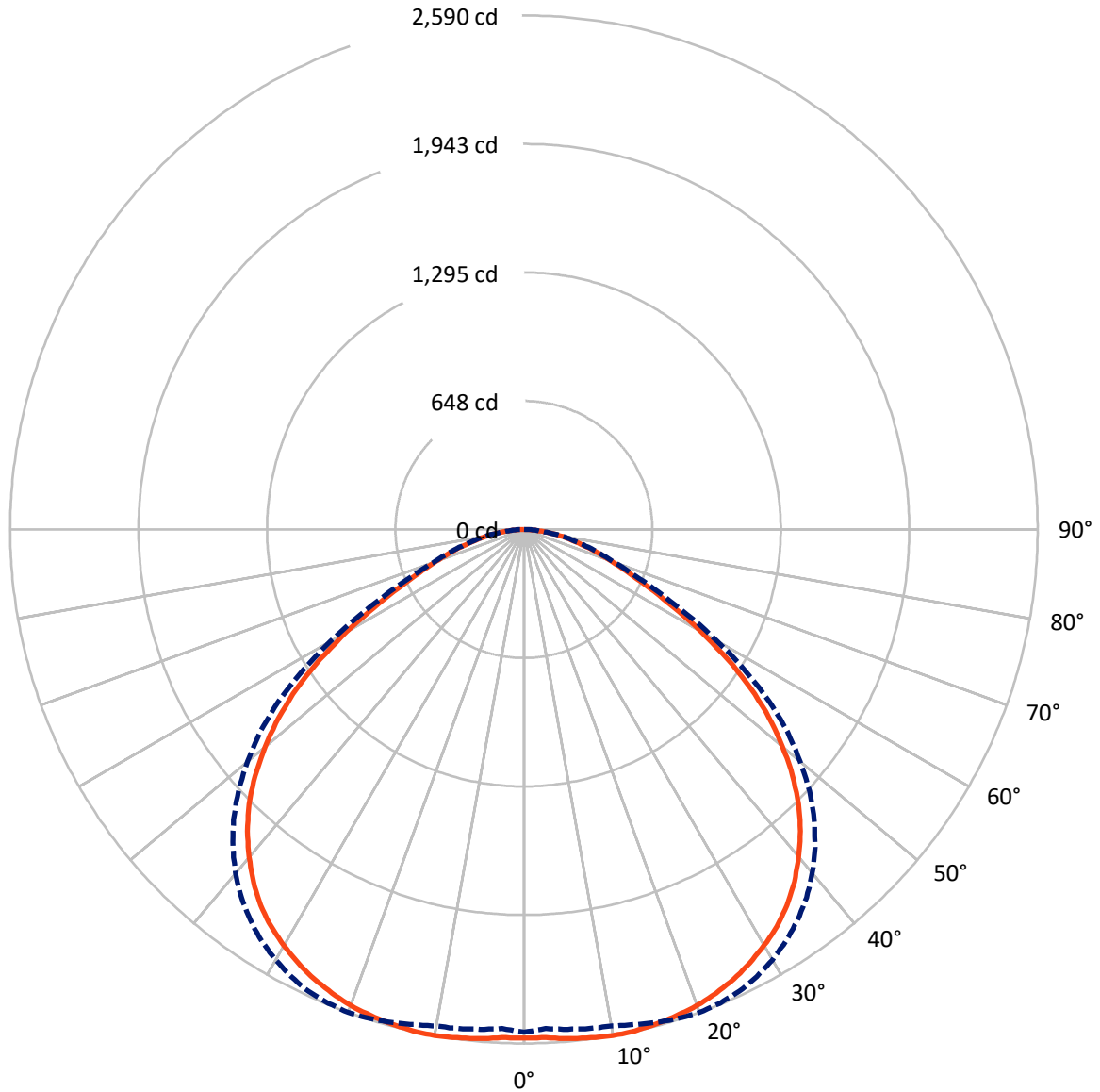
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Lumen Table



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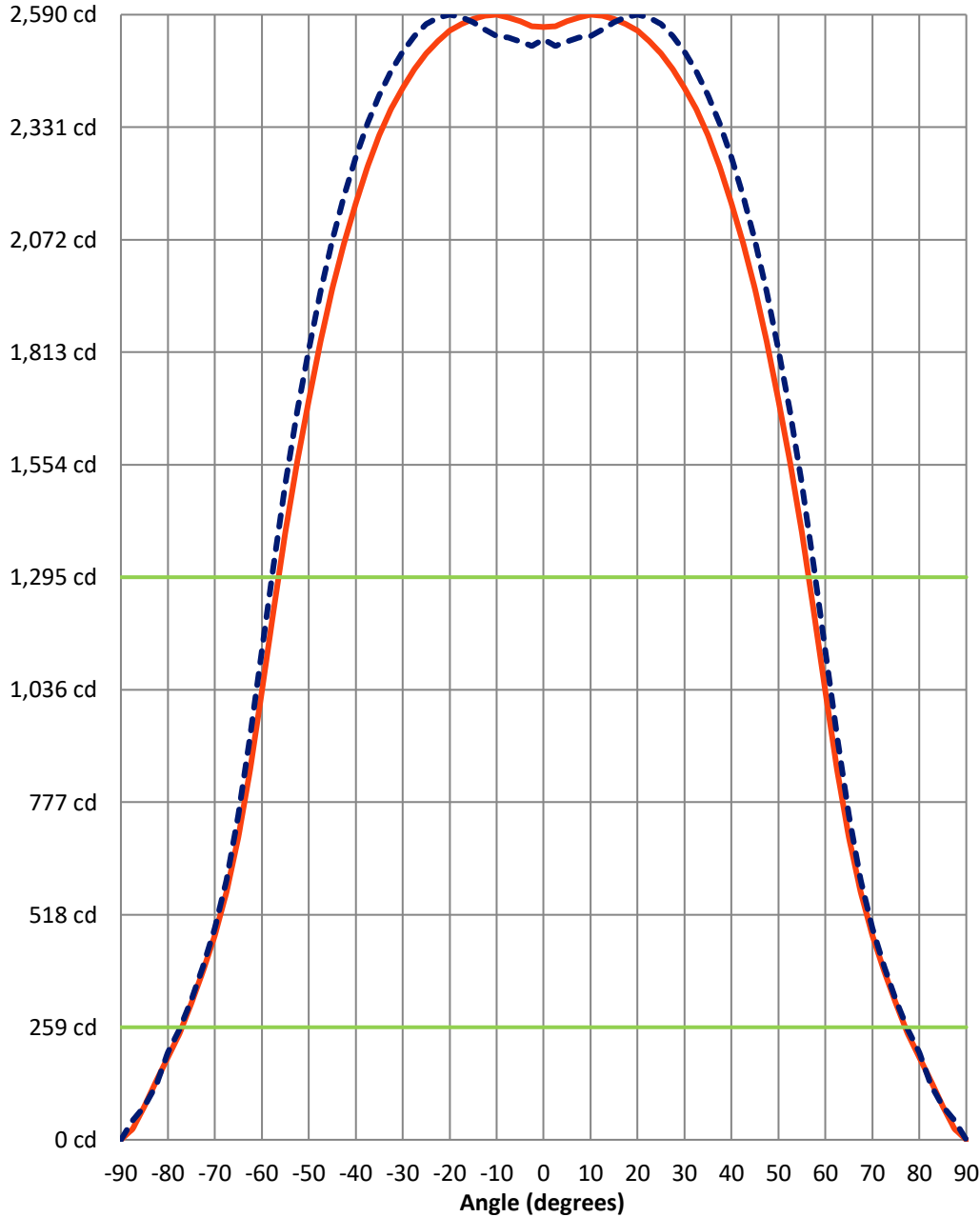
Luminous Intensity Polar Plot



— 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: 4875.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 5845.4
 Efficiency: 73.6%

Spill:
 Lumens: 2100.7
 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°	20.9	22.6	23.4	24.2	25.1	25.9	26.8	25.9	25.1	25.1	24.2
85°	56.0	57.7	58.5	64.4	70.2	73.6	77.8	76.9	76.1	76.1	75.2
82.5°	112.0	117.0	121.2	127.1	130.4	135.4	138.8	136.3	131.3	131.3	128.8
80°	199.0	200.7	201.5	202.3	198.1	197.3	195.6	193.1	185.6	185.6	181.4
77.5°	253.3	255.0	256.7	255.0	254.2	253.3	250.8	248.3	241.6	241.6	236.6
75°	335.3	335.3	335.3	332.8	331.1	328.6	324.4	320.2	307.7	307.7	300.1
72.5°	422.2	421.4	420.5	415.5	411.3	406.3	400.5	395.5	381.2	381.2	371.2
70°	513.3	515.0	515.9	509.2	504.1	497.5	489.9	480.7	459.8	459.8	445.6
67.5°	638.8	637.1	635.4	626.2	619.5	610.3	599.5	586.1	554.3	554.3	534.2
65°	794.3	796.8	791.8	782.6	770.0	755.0	738.2	719.0	671.4	671.4	642.9
62.5°	982.4	986.6	980.7	969.0	953.1	933.0	909.6	882.0	816.0	816.0	780.9
60°	1196.4	1195.6	1184.7	1168.8	1147.9	1122.8	1096.9	1066.8	990.7	990.7	948.1
57.5°	1392.9	1391.2	1377.8	1361.9	1341.0	1314.3	1286.7	1254.9	1174.7	1174.7	1125.3
55°	1569.3	1567.6	1554.2	1537.5	1515.8	1489.0	1463.9	1433.8	1351.9	1351.9	1299.2
52.5°	1725.6	1726.5	1714.8	1696.4	1673.0	1647.0	1622.8	1592.7	1512.4	1512.4	1461.4
50°	1869.4	1868.6	1856.1	1839.3	1817.6	1792.5	1768.3	1738.2	1657.9	1657.9	1608.6
47.5°	2003.2	2001.5	1987.3	1968.9	1946.4	1924.6	1902.0	1875.3	1793.4	1793.4	1744.0
45°	2115.2	2111.9	2097.7	2080.1	2058.4	2039.2	2019.1	1999.0	1917.9	1917.9	1871.1
42.5°	2211.4	2210.5	2196.3	2178.8	2157.0	2140.3	2121.9	2096.8	2025.8	2025.8	1979.8
40°	2303.3	2296.7	2282.4	2265.7	2245.7	2231.4	2213.1	2188.0	2118.6	2118.6	2074.3
37.5°	2371.9	2372.7	2357.7	2339.3	2321.7	2308.4	2291.6	2268.2	2203.9	2203.9	2159.5
35°	2437.1	2432.9	2420.4	2404.5	2388.6	2373.6	2356.0	2336.0	2279.1	2279.1	2237.3
32.5°	2479.8	2485.6	2470.6	2453.8	2444.6	2432.9	2414.5	2393.6	2339.3	2339.3	2301.7
30°	2526.6	2521.6	2509.9	2495.6	2489.0	2481.4	2465.5	2445.5	2391.1	2391.1	2356.0
27.5°	2559.2	2556.7	2542.5	2529.1	2525.7	2519.1	2506.5	2489.0	2435.4	2435.4	2402.8
25°	2573.4	2575.1	2561.7	2554.2	2554.2	2550.0	2540.0	2524.9	2473.9	2473.9	2442.1
22.5°	2580.1	2578.4	2569.2	2567.5	2571.7	2568.4	2564.2	2550.8	2507.3	2507.3	2480.6
20°	2584.3	2572.6	2564.2	2570.9	2575.9	2575.1	2571.7	2563.4	2534.9	2534.9	2511.5
17.5°	2575.1	2567.5	2557.5	2567.5	2578.4	2579.3	2575.9	2570.9	2556.7	2556.7	2535.8
15°	2552.5	2546.6	2548.3	2558.3	2570.9	2575.1	2577.6	2583.4	2570.9	2570.9	2552.5
12.5°	2537.4	2529.9	2537.4	2547.5	2554.2	2556.7	2576.7	2587.6	2579.3	2579.3	2567.5
10°	2533.3	2518.2	2528.3	2537.4	2540.8	2555.8	2572.6	2584.3	2590.1	2583.4	2568.4
7.5°	2524.9	2514.9	2519.1	2523.2	2542.5	2553.3	2562.5	2575.1	2582.6	2582.6	2569.2
5°	2520.7	2508.2	2509.9	2527.4	2540.8	2548.3	2551.7	2562.5	2577.6	2577.6	2567.5
2.5°	2509.9	2504.0	2516.5	2518.2	2528.3	2534.1	2537.4	2547.5	2569.2	2569.2	2565.0
0°	2504.0	2495.6	2487.3	2494.0	2510.7	2523.2	2528.3	2543.3	2567.5	2567.5	2558.3



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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°	23.4	22.6	21.7	20.9	21.7	21.7	21.7	20.9	21.7	20.9	20.9
85°	72.7	69.4	66.9	63.5	60.2	57.7	54.3	51.0	50.2	49.3	47.7
82.5°	125.4	121.2	117.0	112.0	107.0	101.2	95.3	88.6	87.0	85.3	82.8
80°	176.4	170.6	164.7	158.9	153.8	148.0	141.3	133.8	128.8	124.6	119.6
77.5°	229.9	221.6	213.2	203.2	197.3	191.5	184.8	177.2	169.7	163.0	155.5
75°	290.9	281.8	273.4	263.4	252.5	241.6	230.8	220.7	209.9	199.8	189.8
72.5°	358.7	345.3	331.9	319.4	306.0	292.6	278.4	265.0	251.7	238.3	224.1
70°	429.7	413.0	396.3	379.6	362.0	344.5	327.7	311.0	294.3	276.7	260.9
67.5°	513.3	494.1	472.4	449.0	423.0	400.5	378.7	358.7	338.6	318.5	298.5
65°	617.8	591.1	561.8	530.1	500.0	469.9	438.1	408.0	384.6	361.2	338.6
62.5°	746.6	709.0	668.0	627.0	590.3	551.0	514.2	474.9	438.1	404.7	377.1
60°	900.4	849.4	799.3	746.6	695.6	642.1	595.3	546.8	500.8	459.8	419.7
57.5°	1070.2	1010.8	950.6	886.2	816.8	754.1	690.6	627.0	572.7	518.4	473.2
55°	1242.4	1179.7	1112.0	1039.2	963.1	882.9	796.8	725.7	651.3	587.8	529.2
52.5°	1406.3	1341.0	1270.8	1203.9	1112.8	1020.8	926.4	832.7	745.8	664.7	593.6
50°	1552.6	1489.0	1421.3	1343.6	1259.1	1161.3	1055.9	950.6	847.8	752.5	663.8
47.5°	1686.3	1624.5	1556.7	1479.0	1402.1	1293.4	1187.2	1071.0	956.5	846.9	743.3
45°	1811.7	1749.0	1678.8	1604.4	1515.8	1418.8	1309.3	1192.2	1069.3	946.4	826.9
42.5°	1925.4	1862.7	1791.7	1714.8	1627.0	1530.8	1424.6	1306.8	1183.0	1049.3	918.0
40°	2024.9	1963.9	1895.4	1815.1	1733.2	1632.0	1527.5	1415.5	1287.5	1152.9	1008.3
37.5°	2111.9	2055.0	1987.3	1907.9	1820.9	1730.6	1622.8	1510.8	1395.4	1249.1	1101.1
35°	2188.8	2136.1	2066.7	1991.5	1906.2	1810.9	1709.7	1600.2	1475.6	1338.5	1194.7
32.5°	2255.7	2202.2	2138.6	2063.4	1980.6	1891.2	1787.5	1677.1	1559.3	1419.6	1263.3
30°	2312.5	2260.7	2200.5	2129.4	2050.0	1961.4	1860.2	1749.0	1628.6	1489.9	1335.2
27.5°	2361.9	2312.5	2254.0	2188.0	2111.9	2026.6	1924.6	1812.6	1689.7	1555.9	1401.2
25°	2404.5	2356.9	2302.5	2239.8	2164.6	2081.0	1984.8	1867.8	1744.9	1610.3	1457.3
22.5°	2443.0	2397.0	2342.6	2281.6	2213.1	2129.4	2032.5	1916.3	1791.7	1658.7	1508.3
20°	2477.3	2434.6	2381.1	2318.4	2249.8	2165.4	2069.3	1958.9	1833.5	1703.1	1554.2
17.5°	2504.8	2467.2	2413.7	2347.7	2279.1	2197.2	2103.5	2002.4	1869.4	1740.7	1592.7
15°	2524.1	2487.3	2438.8	2371.9	2305.0	2223.9	2130.3	2025.8	1902.0	1770.8	1624.5
12.5°	2537.4	2498.2	2453.0	2391.1	2324.3	2244.0	2152.9	2050.0	1929.6	1797.5	1652.1
10°	2540.8	2504.8	2459.7	2404.5	2339.3	2261.5	2172.1	2070.1	1952.2	1818.4	1674.6
7.5°	2542.5	2508.2	2467.2	2414.5	2350.2	2274.9	2186.3	2086.0	1968.9	1836.0	1691.4
5°	2541.6	2509.0	2472.2	2421.2	2356.9	2282.4	2195.5	2096.8	1980.6	1847.7	1703.9
2.5°	2539.1	2509.9	2475.6	2426.3	2364.4	2290.8	2204.7	2109.4	1993.2	1857.7	1713.9
0°	2545.8	2520.7	2477.3	2424.6	2366.1	2290.8	2203.9	2111.1	1994.8	1856.9	1713.1



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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°	20.9	20.1	20.1	19.2	18.4	17.6	15.9	15.0	13.4	10.9	8.4
85°	45.1	42.6	40.1	38.5	36.8	35.1	32.6	30.1	26.8	21.7	16.7
82.5°	79.4	74.4	69.4	63.5	58.5	53.5	49.3	45.1	40.1	32.6	25.1
80°	113.7	106.2	98.7	90.3	82.8	74.4	66.9	60.2	53.5	43.5	33.4
77.5°	148.0	138.0	127.1	117.0	106.2	95.3	84.4	75.2	65.2	53.5	41.8
75°	179.8	168.0	158.0	143.8	130.4	116.2	102.0	89.5	76.9	62.7	50.2
72.5°	211.5	196.5	182.3	168.9	153.8	136.3	120.4	104.5	88.6	71.9	56.9
70°	243.3	224.9	207.3	191.5	174.7	157.2	138.0	119.6	100.3	80.3	62.7
67.5°	275.9	255.0	234.9	214.9	195.6	175.6	155.5	134.6	112.0	88.6	69.4
65°	311.9	285.9	261.7	239.1	216.5	194.8	172.2	149.7	124.6	97.8	75.2
62.5°	347.8	319.4	290.9	262.5	237.4	213.2	188.9	163.9	136.3	107.9	81.1
60°	386.3	353.7	321.0	289.3	258.3	231.6	204.8	178.1	148.8	117.0	87.0
57.5°	428.9	389.6	352.8	316.9	281.8	250.0	220.7	192.3	159.7	126.2	93.6
55°	477.4	428.9	385.4	345.3	306.8	268.4	236.6	207.3	172.2	135.4	101.2
52.5°	528.4	472.4	419.7	374.6	333.6	290.1	251.7	219.0	184.8	144.6	107.9
50°	587.8	516.7	458.2	403.0	357.0	311.9	267.5	232.4	197.3	155.5	114.5
47.5°	648.8	570.2	496.6	436.4	382.1	332.8	285.9	244.1	209.0	165.5	121.2
45°	719.8	621.2	540.1	469.0	406.3	354.5	304.3	256.7	219.0	175.6	127.9
42.5°	788.4	681.4	585.2	505.0	433.9	375.4	321.0	270.0	229.1	185.6	133.8
40°	869.5	741.6	628.7	539.3	461.5	395.5	337.8	284.3	238.3	194.8	139.6
37.5°	947.3	802.6	681.4	576.9	488.3	415.5	354.5	297.6	246.6	204.0	147.1
35°	1024.2	870.3	731.6	612.0	515.9	438.1	371.2	310.2	255.0	211.5	153.8
32.5°	1097.7	933.9	782.6	651.3	545.9	459.0	386.3	321.9	263.4	218.2	160.5
30°	1166.3	994.1	832.7	691.4	573.5	478.2	400.5	333.6	273.4	224.1	167.2
27.5°	1229.0	1052.6	882.9	729.0	599.5	495.8	415.5	344.5	281.8	229.9	173.1
25°	1285.9	1105.3	928.9	763.3	622.9	515.0	429.7	355.3	289.3	234.9	178.1
22.5°	1339.4	1153.8	970.7	797.6	651.3	534.2	443.1	365.4	296.8	239.9	183.1
20°	1386.2	1198.1	1010.8	831.9	676.4	551.8	454.8	374.6	303.5	243.3	188.1
17.5°	1423.8	1237.4	1046.7	862.0	698.1	566.8	464.9	382.9	309.3	247.5	191.5
15°	1457.3	1270.8	1076.8	887.9	717.3	579.4	474.0	389.6	314.4	250.0	195.6
12.5°	1485.7	1299.2	1102.8	910.5	734.1	590.3	481.6	394.6	318.5	252.5	198.1
10°	1509.1	1321.8	1124.5	928.0	747.4	598.6	487.4	399.6	321.9	255.0	200.7
7.5°	1526.6	1338.5	1140.4	943.1	758.3	604.5	492.4	403.0	325.2	256.7	204.8
5°	1540.0	1352.7	1152.9	953.1	766.7	612.8	498.3	407.2	328.6	258.3	204.8
2.5°	1550.1	1364.5	1163.0	961.5	773.4	611.2	498.3	406.3	328.6	258.3	204.0
0°	1548.4	1365.3	1162.1	961.5	773.4	609.5	498.3	405.5	328.6	258.3	204.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.9	4.2	1.7	0.0
85°	12.5	8.4	4.2	0.0
82.5°	18.4	11.7	5.9	0.0
80°	24.2	15.9	7.5	0.0
77.5°	30.9	20.1	10.0	0.0
75°	36.8	23.4	11.7	0.0
72.5°	42.6	27.6	13.4	0.0
70°	47.7	30.9	15.0	0.0
67.5°	52.7	35.1	17.6	0.0
65°	56.9	38.5	19.2	0.0
62.5°	60.2	42.6	20.9	0.0
60°	64.4	46.0	22.6	0.0
57.5°	67.7	48.5	24.2	0.0
55°	71.1	50.2	25.9	0.0
52.5°	74.4	52.7	27.6	0.0
50°	77.8	55.2	29.3	0.0
47.5°	81.1	56.9	30.1	0.0
45°	86.1	59.4	31.8	0.0
42.5°	90.3	61.0	33.4	0.0
40°	94.5	62.7	34.3	0.0
37.5°	98.7	64.4	36.0	0.0
35°	102.8	66.0	36.8	0.0
32.5°	106.2	67.7	37.6	0.0
30°	109.5	69.4	38.5	0.0
27.5°	112.9	70.2	39.3	0.0
25°	115.4	71.9	40.1	0.0
22.5°	117.9	72.7	41.0	0.0
20°	119.6	73.6	41.8	0.0
17.5°	122.1	74.4	42.6	0.0
15°	122.9	75.2	44.3	0.0
12.5°	124.6	76.1	44.3	0.0
10°	125.4	76.9	44.3	0.0
7.5°	127.1	76.9	44.3	0.0
5°	126.2	76.9	44.3	0.0
2.5°	126.2	76.9	44.3	0.0
0°	125.4	76.9	44.3	0.0

(END OF REPORT)