

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: P628208

Luminaire Tested: **IFLD-S-SA2A-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628208
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8652.1 lumens	Max Intensity:	2820.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	135.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

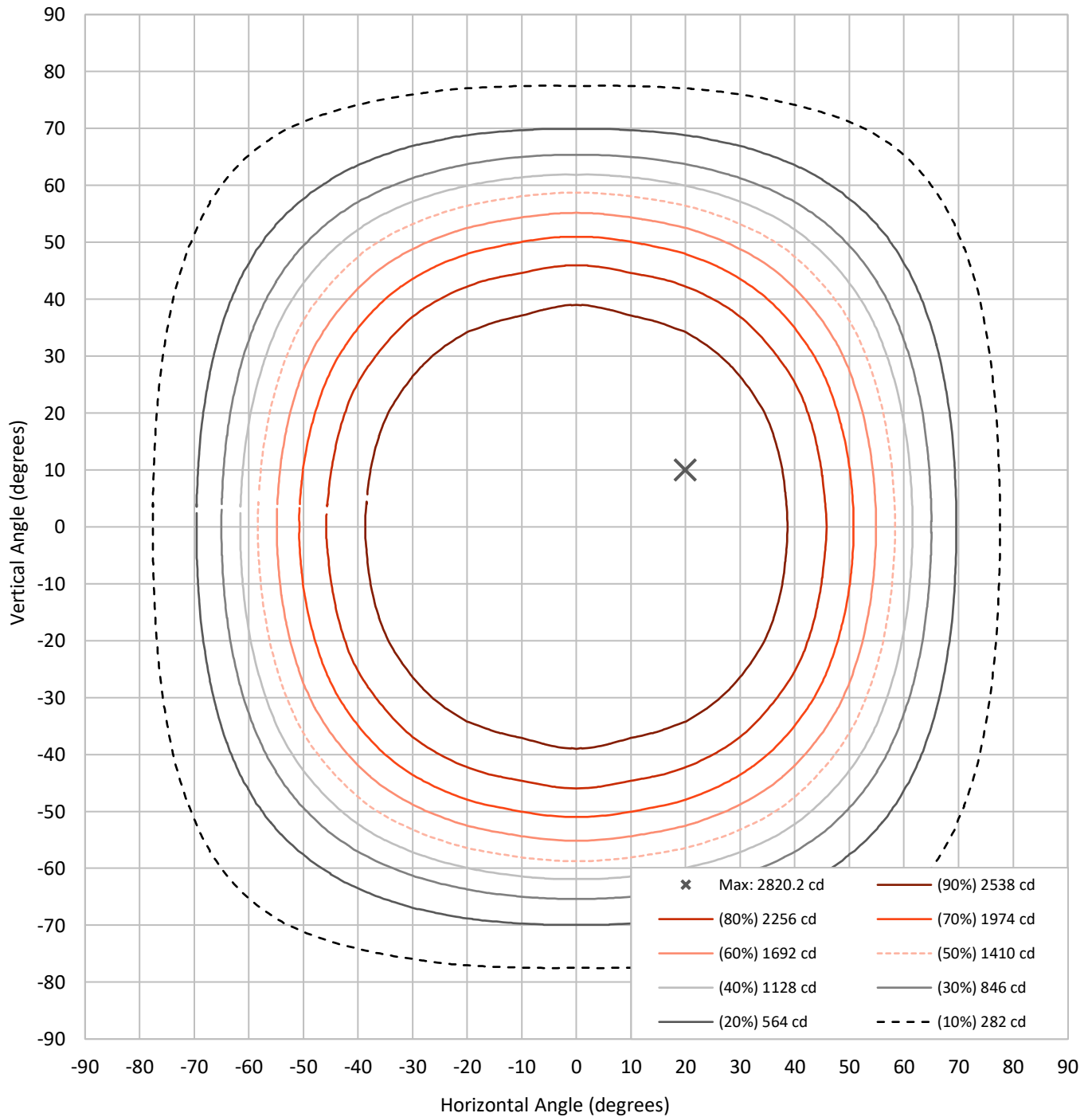
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	5309.1 lumens	Field Lumens:	6364.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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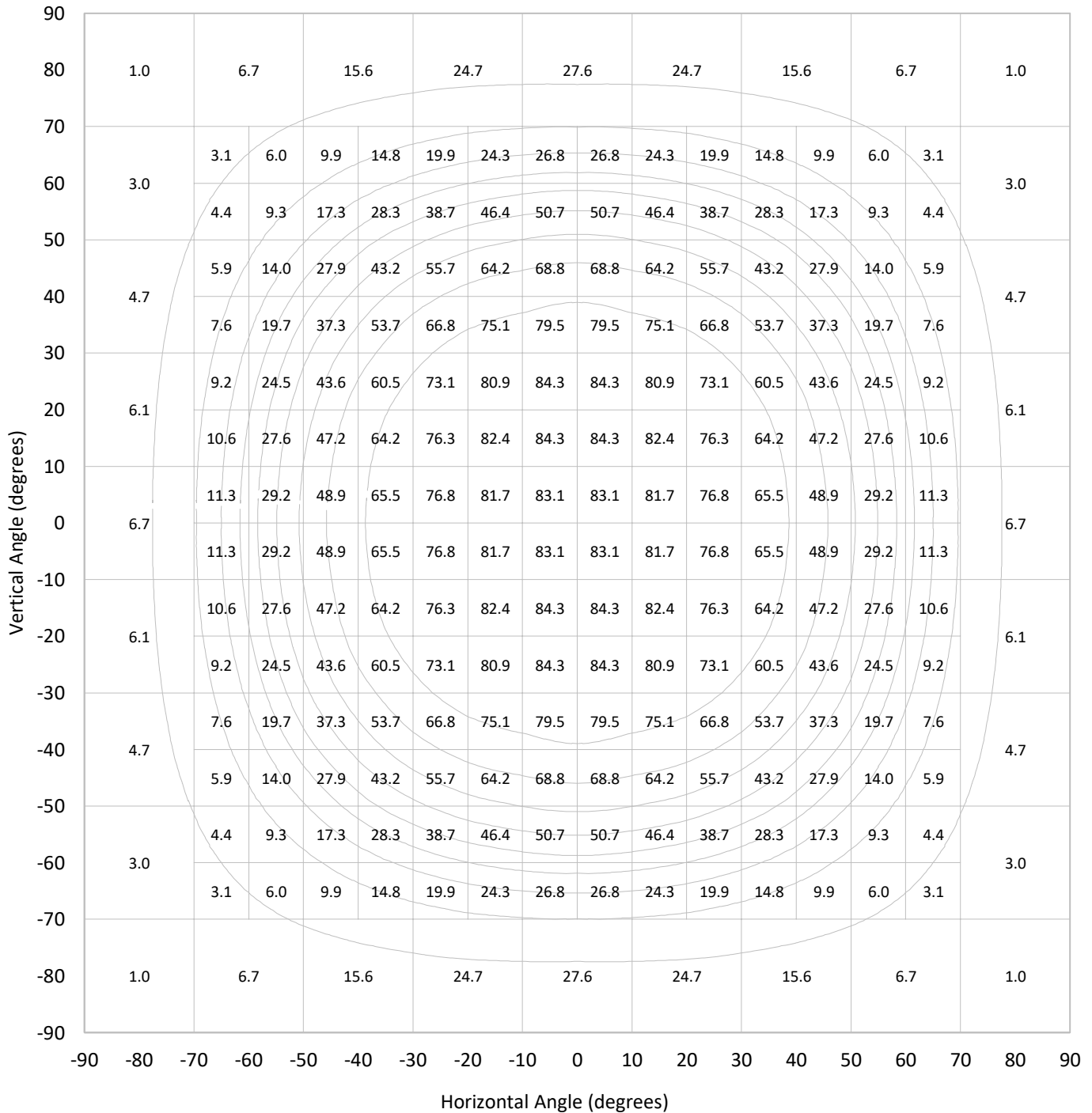
Iso-Candela Plot





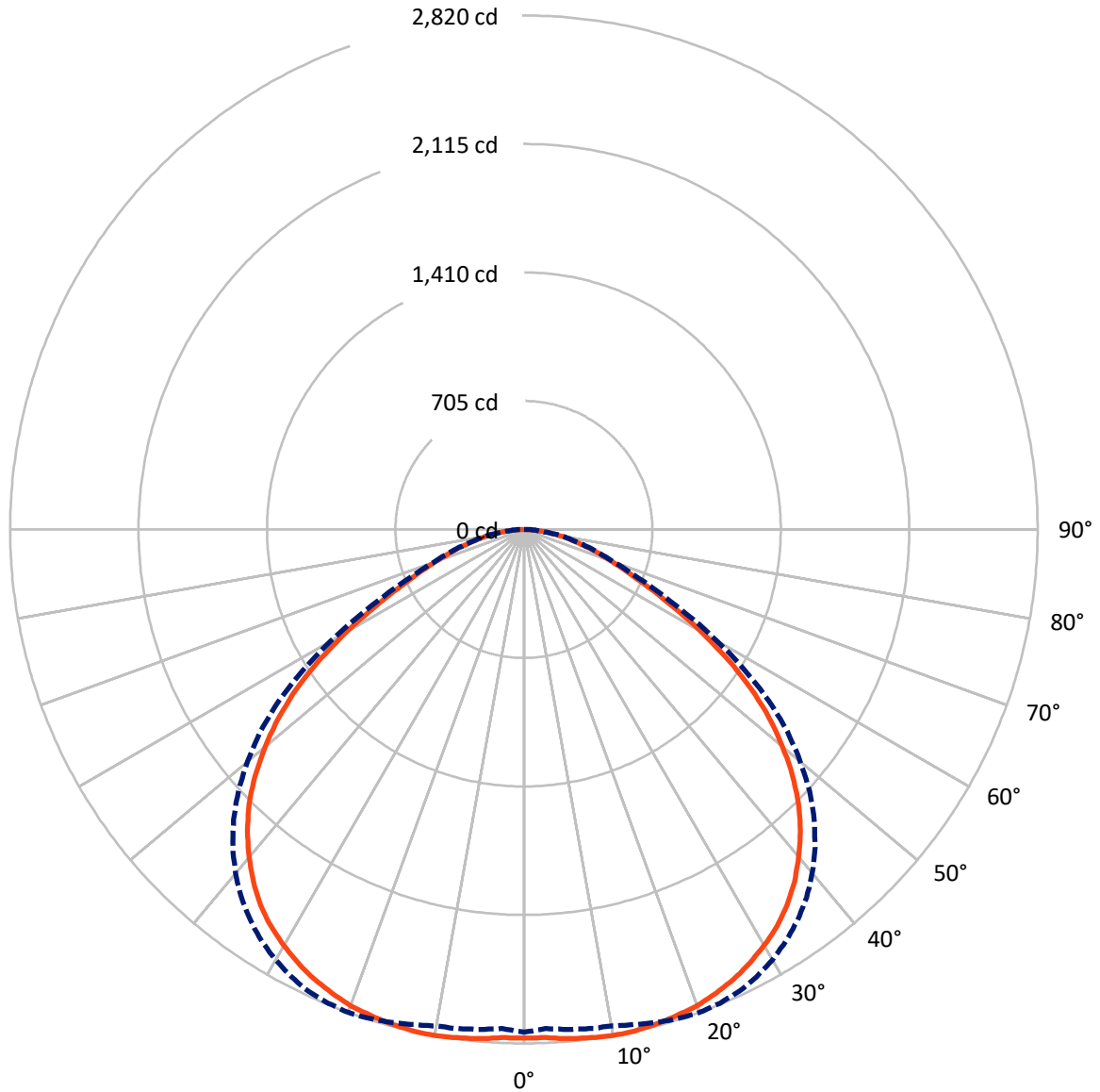
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Lumen Table



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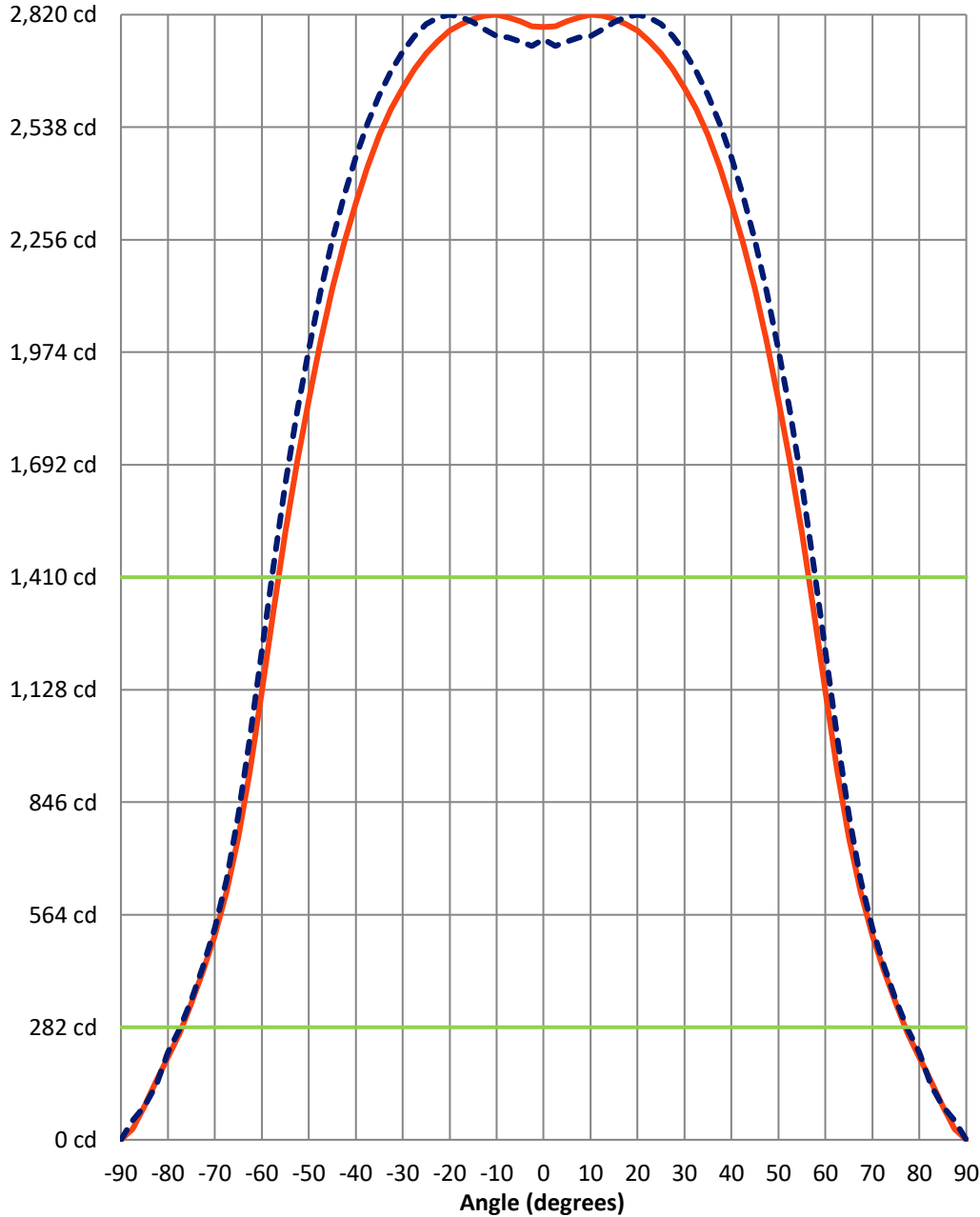
Luminous Intensity Polar Plot



— 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: 5309.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 6364.7
 Efficiency: 73.6%

Spill:
 Lumens: 2287.4
 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°	22.8	24.6	25.5	26.4	27.3	28.2	29.1	28.2	27.3	27.3	26.4
85°	61.0	62.8	63.7	70.1	76.5	80.1	84.7	83.8	83.8	82.8	81.9
82.5°	122.0	127.4	132.0	138.4	142.0	147.5	151.1	148.4	146.6	142.9	140.2
80°	216.7	218.5	219.4	220.3	215.8	214.8	213.0	210.3	206.6	202.1	197.5
77.5°	275.8	277.7	279.5	277.7	276.7	275.8	273.1	270.4	266.7	263.1	257.6
75°	365.0	365.0	365.0	362.3	360.5	357.8	353.2	348.7	342.3	335.0	326.8
72.5°	459.7	458.8	457.9	452.4	447.9	442.4	436.1	430.6	423.3	415.1	404.2
70°	558.9	560.8	561.7	554.4	548.9	541.7	533.5	523.4	512.5	500.7	485.2
67.5°	695.5	693.7	691.9	681.8	674.6	664.5	652.7	638.1	621.8	603.6	581.7
65°	864.8	867.6	862.1	852.1	838.4	822.0	803.8	782.9	758.3	731.0	700.1
62.5°	1069.7	1074.2	1067.8	1055.1	1037.8	1015.9	990.5	960.4	926.7	888.5	850.3
60°	1302.7	1301.8	1290.0	1272.7	1249.9	1222.6	1194.4	1161.6	1123.4	1078.8	1032.3
57.5°	1516.6	1514.8	1500.2	1482.9	1460.2	1431.1	1401.0	1366.4	1326.4	1279.0	1225.3
55°	1708.7	1706.9	1692.3	1674.1	1650.4	1621.3	1594.0	1561.2	1522.1	1472.0	1414.7
52.5°	1878.9	1879.9	1867.1	1847.1	1821.6	1793.4	1767.0	1734.2	1696.9	1646.8	1591.3
50°	2035.5	2034.6	2021.0	2002.7	1979.1	1951.8	1925.4	1892.6	1853.5	1805.2	1751.5
47.5°	2181.2	2179.4	2163.9	2143.9	2119.3	2095.6	2071.0	2041.9	2000.9	1952.7	1899.0
45°	2303.2	2299.5	2284.0	2264.9	2241.3	2220.3	2198.5	2176.6	2132.9	2088.3	2037.3
42.5°	2407.9	2406.9	2391.5	2372.3	2348.7	2330.5	2310.4	2283.1	2246.7	2205.8	2155.7
40°	2508.0	2500.7	2485.2	2467.0	2445.2	2429.7	2409.7	2382.4	2346.9	2306.8	2258.6
37.5°	2582.6	2583.5	2567.2	2547.1	2528.0	2513.5	2495.2	2469.8	2438.8	2399.7	2351.4
35°	2653.6	2649.1	2635.4	2618.1	2600.8	2584.5	2565.3	2543.5	2518.0	2481.6	2436.1
32.5°	2700.1	2706.4	2690.1	2671.8	2661.8	2649.1	2629.1	2606.3	2583.5	2547.1	2506.2
30°	2751.0	2745.6	2732.8	2717.4	2710.1	2701.9	2684.6	2662.7	2636.3	2603.6	2565.3
27.5°	2786.6	2783.8	2768.3	2753.8	2750.1	2742.9	2729.2	2710.1	2683.7	2651.8	2616.3
25°	2802.0	2803.8	2789.3	2781.1	2781.1	2776.5	2765.6	2749.2	2722.8	2693.7	2659.1
22.5°	2809.3	2807.5	2797.5	2795.7	2800.2	2796.6	2792.0	2777.4	2753.8	2730.1	2701.0
20°	2813.9	2801.1	2792.0	2799.3	2804.8	2803.8	2800.2	2791.1	2780.2	2760.2	2734.7
17.5°	2803.8	2795.7	2784.7	2795.7	2807.5	2808.4	2804.8	2799.3	2796.6	2783.8	2761.1
15°	2779.3	2772.9	2774.7	2785.6	2799.3	2803.8	2806.6	2813.0	2809.3	2799.3	2779.3
12.5°	2762.9	2754.7	2762.9	2773.8	2781.1	2783.8	2805.7	2817.5	2817.5	2808.4	2795.7
10°	2758.3	2741.9	2752.9	2762.9	2766.5	2782.9	2801.1	2813.9	2820.2	2813.0	2796.6
7.5°	2749.2	2738.3	2742.9	2747.4	2768.3	2780.2	2790.2	2803.8	2813.0	2812.0	2797.5
5°	2744.7	2731.0	2732.8	2752.0	2766.5	2774.7	2778.4	2790.2	2803.8	2806.6	2795.7
2.5°	2732.8	2726.5	2740.1	2741.9	2752.9	2759.2	2762.9	2773.8	2791.1	2797.5	2792.9
0°	2726.5	2717.4	2708.3	2715.5	2733.8	2747.4	2752.9	2769.3	2789.3	2795.7	2785.6



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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°	25.5	24.6	23.7	22.8	23.7	23.7	23.7	22.8	23.7	22.8	22.8
85°	79.2	75.6	72.8	69.2	65.5	62.8	59.2	55.5	54.6	53.7	51.9
82.5°	136.6	132.0	127.4	122.0	116.5	110.2	103.8	96.5	94.7	92.9	90.1
80°	192.1	185.7	179.3	173.0	167.5	161.1	153.8	145.7	140.2	135.6	130.2
77.5°	250.3	241.2	232.1	221.2	214.8	208.5	201.2	193.0	184.8	177.5	169.3
75°	316.8	306.8	297.7	286.8	274.9	263.1	251.3	240.3	228.5	217.6	206.6
72.5°	390.5	376.0	361.4	347.8	333.2	318.6	303.1	288.6	274.0	259.4	244.0
70°	467.9	449.7	431.5	413.3	394.2	375.1	356.9	338.6	320.4	301.3	284.0
67.5°	558.9	538.0	514.3	488.9	460.6	436.1	412.4	390.5	368.7	346.8	325.0
65°	672.7	643.6	611.7	577.2	544.4	511.6	477.0	444.2	418.8	393.3	368.7
62.5°	812.9	772.0	727.4	682.8	642.7	599.9	559.9	517.1	477.0	440.6	410.6
60°	980.4	924.9	870.3	812.9	757.4	699.1	648.2	595.4	545.3	500.7	457.0
57.5°	1165.2	1100.6	1035.1	965.0	889.4	821.1	751.9	682.8	623.6	564.4	515.3
55°	1352.8	1284.5	1210.8	1131.6	1048.7	961.3	867.6	790.2	709.2	640.0	576.2
52.5°	1531.2	1460.2	1383.7	1310.9	1211.7	1111.5	1008.7	906.7	812.0	723.7	646.3
50°	1690.5	1621.3	1547.6	1462.9	1371.0	1264.5	1149.8	1035.1	923.1	819.3	722.8
47.5°	1836.2	1768.8	1695.1	1610.4	1526.6	1408.3	1292.7	1166.1	1041.4	922.2	809.3
45°	1972.7	1904.4	1828.0	1746.9	1650.4	1544.8	1425.6	1298.1	1164.3	1030.5	900.3
42.5°	2096.5	2028.2	1950.9	1867.1	1771.5	1666.8	1551.2	1422.9	1288.1	1142.5	999.6
40°	2204.8	2138.4	2063.7	1976.3	1887.1	1777.0	1663.2	1541.2	1401.9	1255.4	1097.9
37.5°	2299.5	2237.6	2163.9	2077.4	1982.7	1884.4	1767.0	1645.0	1519.4	1360.0	1198.9
35°	2383.3	2325.9	2250.4	2168.4	2075.6	1971.8	1861.6	1742.4	1606.8	1457.5	1300.9
32.5°	2456.1	2397.8	2328.7	2246.7	2156.6	2059.2	1946.3	1826.1	1697.8	1545.8	1375.5
30°	2518.0	2461.6	2396.0	2318.6	2232.2	2135.7	2025.5	1904.4	1773.3	1622.2	1453.8
27.5°	2571.7	2518.0	2454.3	2382.4	2299.5	2206.7	2095.6	1973.6	1839.8	1694.1	1525.7
25°	2618.1	2566.2	2507.1	2438.8	2356.9	2265.8	2161.1	2033.7	1899.9	1753.3	1586.7
22.5°	2660.0	2609.9	2550.8	2484.3	2409.7	2318.6	2213.0	2086.5	1950.9	1806.1	1642.3
20°	2697.3	2650.9	2592.6	2524.4	2449.7	2357.8	2253.1	2132.9	1996.4	1854.4	1692.3
17.5°	2727.4	2686.4	2628.2	2556.2	2481.6	2392.4	2290.4	2180.3	2035.5	1895.3	1734.2
15°	2748.3	2708.3	2655.5	2582.6	2509.8	2421.5	2319.5	2205.8	2071.0	1928.1	1768.8
12.5°	2762.9	2720.1	2670.9	2603.6	2530.7	2443.4	2344.1	2232.2	2101.1	1957.2	1798.8
10°	2766.5	2727.4	2678.2	2618.1	2547.1	2462.5	2365.1	2254.0	2125.6	1980.0	1823.4
7.5°	2768.3	2731.0	2686.4	2629.1	2559.0	2477.0	2380.5	2271.3	2143.9	1999.1	1841.6
5°	2767.4	2731.9	2691.9	2636.3	2566.2	2485.2	2390.6	2283.1	2156.6	2011.9	1855.3
2.5°	2764.7	2732.8	2695.5	2641.8	2574.4	2494.3	2400.6	2296.8	2170.3	2022.8	1866.2
0°	2772.0	2744.7	2697.3	2640.0	2576.3	2494.3	2399.7	2298.6	2172.1	2021.9	1865.3



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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°	22.8	21.8	21.8	20.9	20.0	19.1	17.3	16.4	14.6	11.8	9.1
85°	49.2	46.4	43.7	41.9	40.1	38.2	35.5	32.8	29.1	23.7	18.2
82.5°	86.5	81.0	75.6	69.2	63.7	58.3	53.7	49.2	43.7	35.5	27.3
80°	123.8	115.6	107.4	98.3	90.1	81.0	72.8	65.5	58.3	47.3	36.4
77.5°	161.1	150.2	138.4	127.4	115.6	103.8	91.9	81.9	71.0	58.3	45.5
75°	195.7	183.0	172.1	156.6	142.0	126.5	111.1	97.4	83.8	68.3	54.6
72.5°	230.3	213.9	198.5	183.9	167.5	148.4	131.1	113.8	96.5	78.3	61.9
70°	264.9	244.9	225.8	208.5	190.3	171.1	150.2	130.2	109.2	87.4	68.3
67.5°	300.4	277.7	255.8	234.0	213.0	191.2	169.3	146.6	122.0	96.5	75.6
65°	339.6	311.3	284.9	260.4	235.8	212.1	187.5	163.0	135.6	106.5	81.9
62.5°	378.7	347.8	316.8	285.8	258.5	232.1	205.7	178.4	148.4	117.4	88.3
60°	420.6	385.1	349.6	315.0	281.3	252.2	223.0	193.9	162.0	127.4	94.7
57.5°	467.0	424.2	384.2	345.0	306.8	272.2	240.3	209.4	173.9	137.5	102.0
55°	519.8	467.0	419.7	376.0	334.1	292.2	257.6	225.8	187.5	147.5	110.2
52.5°	575.3	514.3	457.0	407.8	363.2	315.9	274.0	238.5	201.2	157.5	117.4
50°	640.0	562.6	498.9	438.8	388.7	339.6	291.3	253.1	214.8	169.3	124.7
47.5°	706.4	620.9	540.7	475.2	416.0	362.3	311.3	265.8	227.6	180.2	132.0
45°	783.8	676.4	588.1	510.7	442.4	386.0	331.4	279.5	238.5	191.2	139.3
42.5°	858.5	741.9	637.2	549.8	472.5	408.7	349.6	294.0	249.4	202.1	145.7
40°	946.8	807.5	684.6	587.2	502.5	430.6	367.8	309.5	259.4	212.1	152.0
37.5°	1031.4	873.9	741.9	628.1	531.6	452.4	386.0	324.1	268.6	222.1	160.2
35°	1115.2	947.7	796.5	666.4	561.7	477.0	404.2	337.7	277.7	230.3	167.5
32.5°	1195.3	1016.9	852.1	709.2	594.5	499.8	420.6	350.5	286.8	237.6	174.8
30°	1269.9	1082.4	906.7	752.9	624.5	520.7	436.1	363.2	297.7	244.0	182.1
27.5°	1338.2	1146.1	961.3	793.8	652.7	539.8	452.4	375.1	306.8	250.3	188.4
25°	1400.1	1203.5	1011.4	831.1	678.2	560.8	467.9	386.9	315.0	255.8	193.9
22.5°	1458.4	1256.3	1056.9	868.5	709.2	581.7	482.5	397.8	323.2	261.3	199.4
20°	1509.3	1304.5	1100.6	905.8	736.5	600.8	495.2	407.8	330.5	264.9	204.8
17.5°	1550.3	1347.3	1139.7	938.6	760.1	617.2	506.1	416.9	336.8	269.5	208.5
15°	1586.7	1383.7	1172.5	966.8	781.1	630.9	516.2	424.2	342.3	272.2	213.0
12.5°	1617.7	1414.7	1200.7	991.4	799.3	642.7	524.4	429.7	346.8	274.9	215.8
10°	1643.2	1439.2	1224.4	1010.5	813.8	651.8	530.7	435.1	350.5	277.7	218.5
7.5°	1662.3	1457.5	1241.7	1026.9	825.7	658.2	536.2	438.8	354.1	279.5	223.0
5°	1676.8	1472.9	1255.4	1037.8	834.8	667.3	542.6	443.3	357.8	281.3	223.0
2.5°	1687.8	1485.7	1266.3	1046.9	842.1	665.5	542.6	442.4	357.8	281.3	222.1
0°	1686.0	1486.6	1265.4	1046.9	842.1	663.6	542.6	441.5	357.8	281.3	222.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.4	4.6	1.8	0.0
85°	13.7	9.1	4.6	0.0
82.5°	20.0	12.7	6.4	0.0
80°	26.4	17.3	8.2	0.0
77.5°	33.7	21.8	10.9	0.0
75°	40.1	25.5	12.7	0.0
72.5°	46.4	30.0	14.6	0.0
70°	51.9	33.7	16.4	0.0
67.5°	57.4	38.2	19.1	0.0
65°	61.9	41.9	20.9	0.0
62.5°	65.5	46.4	22.8	0.0
60°	70.1	50.1	24.6	0.0
57.5°	73.7	52.8	26.4	0.0
55°	77.4	54.6	28.2	0.0
52.5°	81.0	57.4	30.0	0.0
50°	84.7	60.1	31.9	0.0
47.5°	88.3	61.9	32.8	0.0
45°	93.8	64.6	34.6	0.0
42.5°	98.3	66.5	36.4	0.0
40°	102.9	68.3	37.3	0.0
37.5°	107.4	70.1	39.1	0.0
35°	112.0	71.9	40.1	0.0
32.5°	115.6	73.7	41.0	0.0
30°	119.3	75.6	41.9	0.0
27.5°	122.9	76.5	42.8	0.0
25°	125.6	78.3	43.7	0.0
22.5°	128.4	79.2	44.6	0.0
20°	130.2	80.1	45.5	0.0
17.5°	132.9	81.0	46.4	0.0
15°	133.8	81.9	48.2	0.0
12.5°	135.6	82.8	48.2	0.0
10°	136.6	83.8	48.2	0.0
7.5°	138.4	83.8	48.2	0.0
5°	137.5	83.8	48.2	0.0
2.5°	137.5	83.8	48.2	0.0
0°	136.6	83.8	48.2	0.0

(END OF REPORT)