

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: P628445

Luminaire Tested: **IFLD-S-SA3A-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628445
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

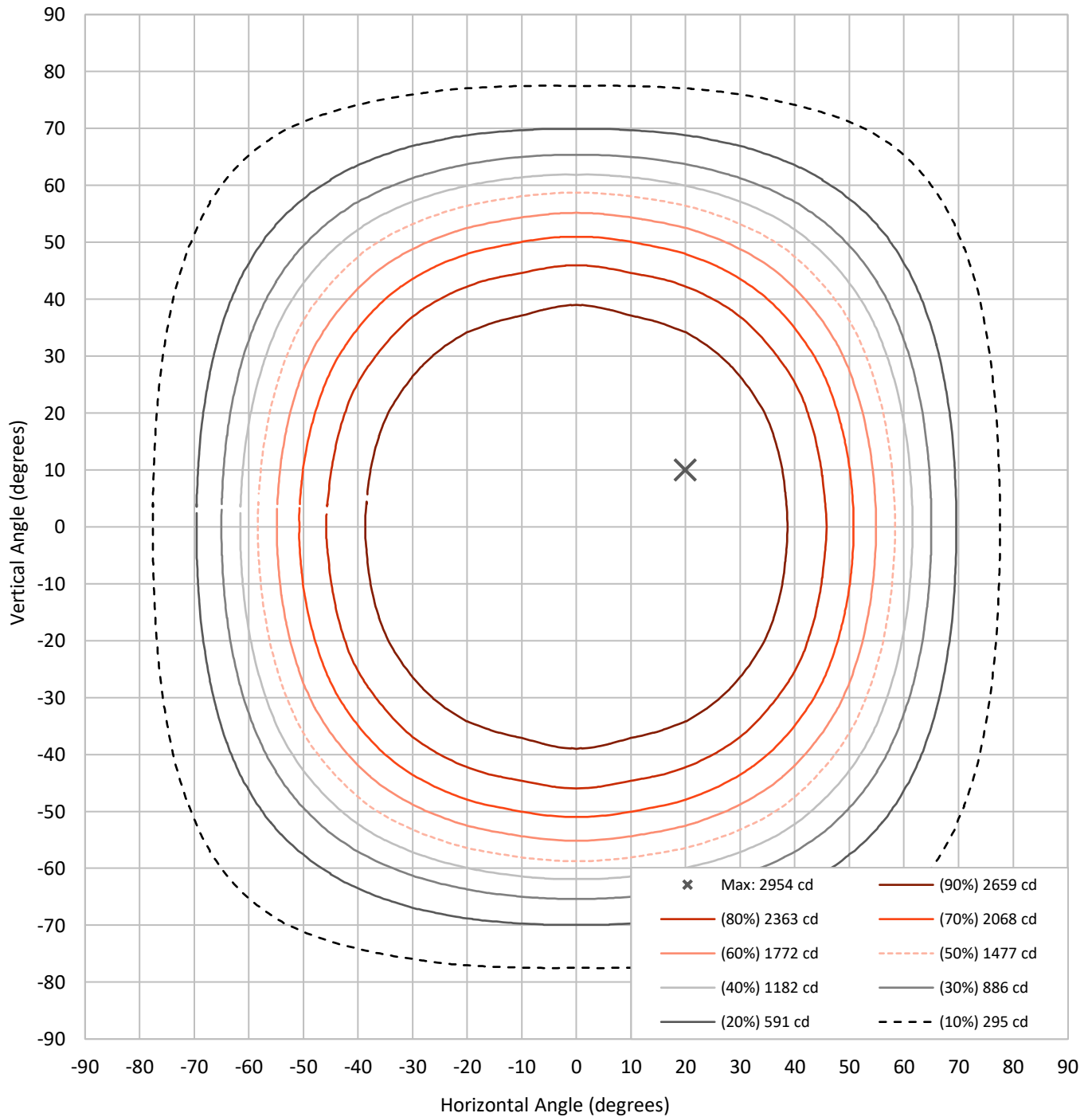
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9062.3 lumens	Max Intensity:	2954 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	95.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	5560.8 lumens	Field Lumens:	6666.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	94.8		
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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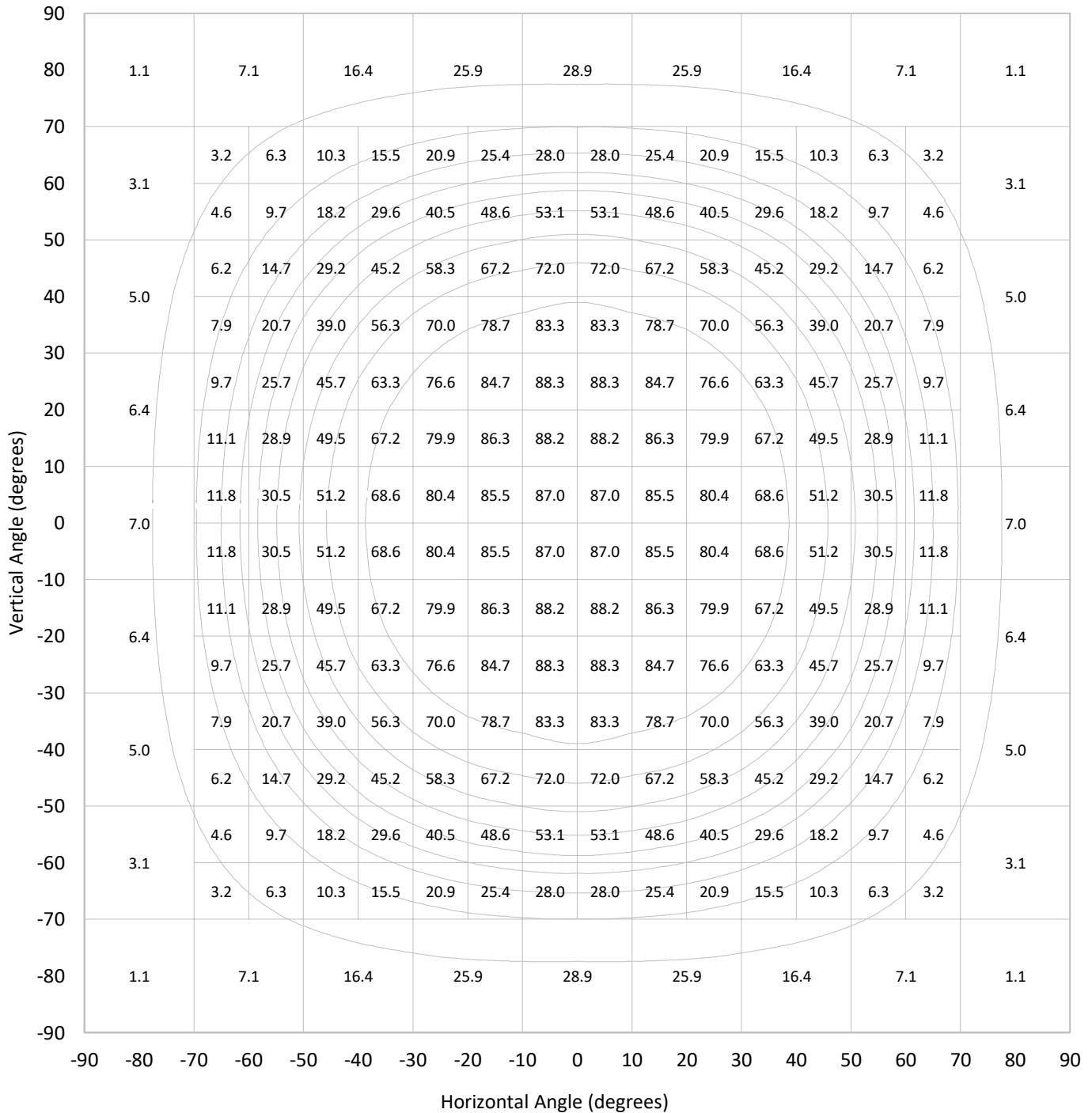
Iso-Candela Plot





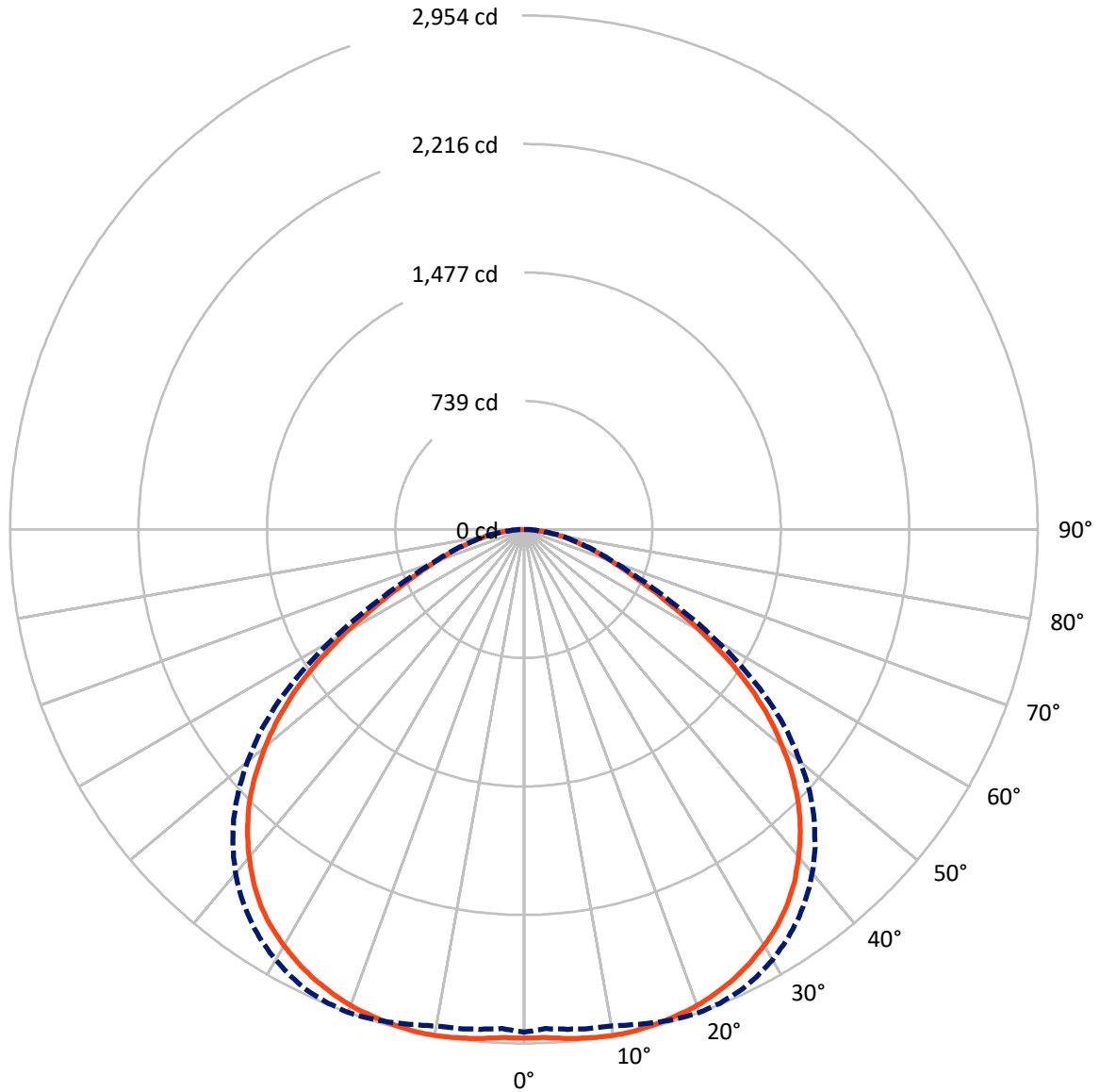
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Lumen Table



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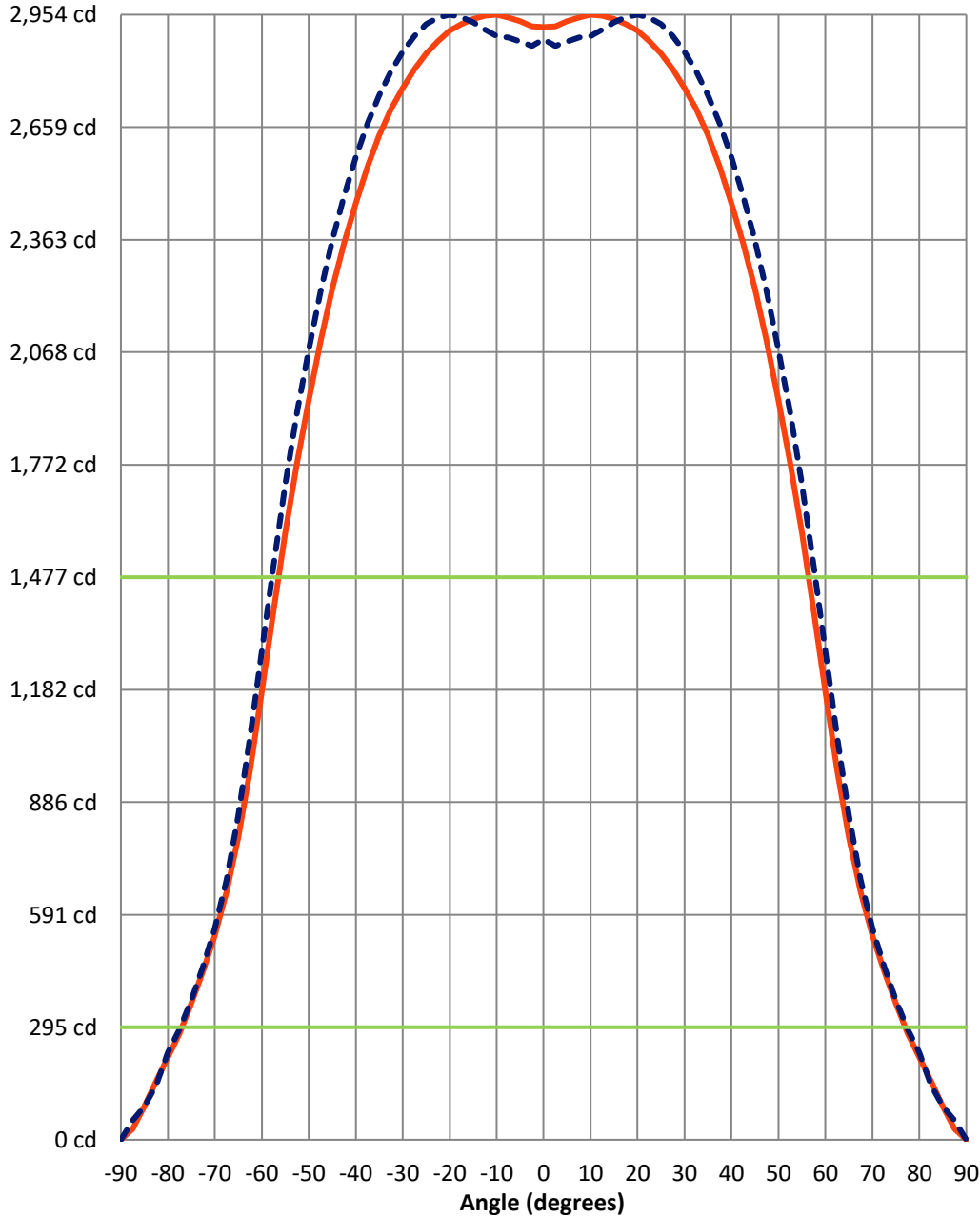
Luminous Intensity Polar Plot



— 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: 5560.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 6666.5
 Efficiency: 73.6%

Spill:
 Lumens: 2395.8
 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°	23.8	25.7	26.7	27.7	28.6	29.6	30.5	29.6	28.6	28.6	27.7
85°	63.9	65.8	66.7	73.4	80.1	83.9	88.7	87.7	87.7	86.8	85.8
82.5°	127.8	133.5	138.3	144.9	148.7	154.5	158.3	155.4	153.5	149.7	146.8
80°	226.9	228.8	229.8	230.7	226.0	225.0	223.1	220.3	216.4	211.7	206.9
77.5°	288.9	290.8	292.7	290.8	289.9	288.9	286.1	283.2	279.4	275.6	269.8
75°	382.4	382.4	382.4	379.5	377.6	374.7	370.0	365.2	358.5	350.9	342.3
72.5°	481.5	480.6	479.6	473.9	469.1	463.4	456.7	451.0	443.4	434.8	423.4
70°	585.5	587.4	588.3	580.7	575.0	567.3	558.8	548.3	536.8	524.4	508.2
67.5°	728.5	726.6	724.7	714.2	706.5	696.1	683.7	668.4	651.2	632.2	609.3
65°	905.8	908.7	903.0	892.5	878.2	861.0	841.9	820.0	794.3	765.7	733.2
62.5°	1120.4	1125.1	1118.5	1105.1	1087.0	1064.1	1037.4	1005.9	970.7	930.6	890.6
60°	1364.5	1363.5	1351.1	1333.0	1309.2	1280.6	1251.0	1216.7	1176.6	1129.9	1081.3
57.5°	1588.5	1586.6	1571.4	1553.3	1529.4	1498.9	1467.4	1431.2	1389.3	1339.7	1283.4
55°	1789.7	1787.8	1772.6	1753.5	1728.7	1698.2	1669.6	1635.3	1594.3	1541.8	1481.7
52.5°	1968.0	1969.0	1955.6	1934.7	1908.0	1878.4	1850.7	1816.4	1777.3	1724.9	1666.7
50°	2132.0	2131.1	2116.8	2097.7	2072.9	2044.3	2016.7	1982.3	1941.3	1890.8	1834.5
47.5°	2284.6	2282.7	2266.5	2245.5	2219.8	2195.0	2169.2	2138.7	2095.8	2045.3	1989.0
45°	2412.4	2408.5	2392.3	2372.3	2347.5	2325.6	2302.7	2279.8	2234.1	2187.3	2133.9
42.5°	2522.0	2521.1	2504.9	2484.8	2460.0	2441.0	2420.0	2391.4	2353.2	2310.3	2257.9
40°	2626.9	2619.3	2603.1	2584.0	2561.1	2544.9	2523.9	2495.3	2458.1	2416.2	2365.6
37.5°	2705.1	2706.0	2688.9	2667.9	2647.9	2632.6	2613.6	2586.9	2554.4	2513.4	2462.9
35°	2779.5	2774.7	2760.4	2742.3	2724.2	2707.0	2687.0	2664.1	2637.4	2599.2	2551.6
32.5°	2828.1	2834.8	2817.6	2798.5	2788.0	2774.7	2753.7	2729.9	2706.0	2667.9	2625.0
30°	2881.5	2875.8	2862.4	2846.2	2838.6	2830.0	2811.9	2789.0	2761.3	2727.0	2687.0
27.5°	2918.7	2915.8	2899.6	2884.3	2880.5	2872.9	2858.6	2838.6	2810.9	2777.6	2740.4
25°	2934.9	2936.8	2921.5	2913.0	2913.0	2908.2	2896.7	2879.6	2851.9	2821.4	2785.2
22.5°	2942.5	2940.6	2930.1	2928.2	2933.0	2929.2	2924.4	2909.1	2884.3	2859.6	2829.0
20°	2947.3	2933.9	2924.4	2932.0	2937.7	2936.8	2933.0	2923.4	2912.0	2891.0	2864.3
17.5°	2936.8	2928.2	2916.8	2928.2	2940.6	2941.6	2937.7	2932.0	2929.2	2915.8	2892.0
15°	2911.0	2904.4	2906.3	2917.7	2932.0	2936.8	2939.6	2946.3	2942.5	2932.0	2911.0
12.5°	2893.9	2885.3	2893.9	2905.3	2913.0	2915.8	2938.7	2951.1	2951.1	2941.6	2928.2
10°	2889.1	2872.0	2883.4	2893.9	2897.7	2914.9	2933.9	2947.3	2954.0	2946.3	2929.2
7.5°	2879.6	2868.1	2872.9	2877.7	2899.6	2912.0	2922.5	2936.8	2946.3	2945.4	2930.1
5°	2874.8	2860.5	2862.4	2882.4	2897.7	2906.3	2910.1	2922.5	2936.8	2939.6	2928.2
2.5°	2862.4	2855.7	2870.0	2872.0	2883.4	2890.1	2893.9	2905.3	2923.4	2930.1	2925.3
0°	2855.7	2846.2	2836.7	2844.3	2863.4	2877.7	2883.4	2900.6	2921.5	2928.2	2917.7



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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°	26.7	25.7	24.8	23.8	24.8	24.8	24.8	23.8	24.8	23.8	23.8
85°	83.0	79.1	76.3	72.5	68.7	65.8	62.0	58.2	57.2	56.3	54.3
82.5°	143.0	138.3	133.5	127.8	122.0	115.4	108.7	101.1	99.2	97.3	94.4
80°	201.2	194.5	187.8	181.2	175.4	168.8	161.1	152.6	146.8	142.1	136.4
77.5°	262.2	252.7	243.1	231.7	225.0	218.4	210.7	202.1	193.6	185.9	177.4
75°	331.8	321.3	311.8	300.4	288.0	275.6	263.2	251.7	239.3	227.9	216.4
72.5°	409.1	393.8	378.5	364.2	349.0	333.7	317.5	302.3	287.0	271.7	255.5
70°	490.1	471.0	452.0	432.9	412.9	392.8	373.8	354.7	335.6	315.6	297.5
67.5°	585.5	563.5	538.7	512.0	482.5	456.7	431.9	409.1	386.2	363.3	340.4
65°	704.6	674.1	640.8	604.5	570.2	535.9	499.6	465.3	438.6	411.9	386.2
62.5°	851.5	808.6	761.8	715.1	673.2	628.4	586.4	541.6	499.6	461.5	430.0
60°	1026.9	968.8	911.5	851.5	793.3	732.3	678.9	623.6	571.1	524.4	478.7
57.5°	1220.5	1152.8	1084.1	1010.7	931.6	860.1	787.6	715.1	653.1	591.2	539.7
55°	1416.9	1345.4	1268.2	1185.2	1098.4	1006.9	908.7	827.6	742.8	670.3	603.6
52.5°	1603.8	1529.4	1449.3	1373.0	1269.1	1164.2	1056.5	949.7	850.5	758.0	677.0
50°	1770.7	1698.2	1621.0	1532.3	1436.0	1324.4	1204.3	1084.1	966.9	858.2	757.1
47.5°	1923.2	1852.7	1775.4	1686.7	1599.0	1475.1	1354.0	1221.4	1090.8	965.9	847.7
45°	2066.2	1994.7	1914.6	1829.8	1728.7	1618.1	1493.2	1359.7	1219.5	1079.4	943.0
42.5°	2195.9	2124.4	2043.4	1955.6	1855.5	1745.9	1624.8	1490.3	1349.2	1196.6	1046.9
40°	2309.4	2239.8	2161.6	2070.1	1976.6	1861.2	1742.0	1614.3	1468.4	1314.9	1149.9
37.5°	2408.5	2343.7	2266.5	2175.9	2076.7	1973.8	1850.7	1723.0	1591.4	1424.5	1255.8
35°	2496.3	2436.2	2357.1	2271.2	2174.0	2065.3	1949.9	1825.0	1682.9	1526.6	1362.6
32.5°	2572.6	2511.5	2439.1	2353.2	2258.8	2156.8	2038.6	1912.7	1778.3	1619.0	1440.7
30°	2637.4	2578.3	2509.6	2428.6	2338.0	2236.9	2121.5	1994.7	1857.4	1699.1	1522.7
27.5°	2693.6	2637.4	2570.6	2495.3	2408.5	2311.3	2195.0	2067.2	1927.0	1774.5	1598.1
25°	2742.3	2687.9	2625.9	2554.4	2468.6	2373.3	2263.6	2130.1	1990.0	1836.4	1662.0
22.5°	2786.1	2733.7	2671.7	2602.1	2523.9	2428.6	2318.0	2185.4	2043.4	1891.7	1720.1
20°	2825.2	2776.6	2715.6	2644.1	2565.9	2469.6	2359.9	2234.1	2091.0	1942.3	1772.6
17.5°	2856.7	2813.8	2752.8	2677.4	2599.2	2505.8	2399.0	2283.6	2132.0	1985.2	1816.4
15°	2878.6	2836.7	2781.4	2705.1	2628.8	2536.3	2429.5	2310.3	2169.2	2019.5	1852.7
12.5°	2893.9	2849.1	2797.6	2727.0	2650.7	2559.2	2455.3	2338.0	2200.7	2050.0	1884.1
10°	2897.7	2856.7	2805.2	2742.3	2667.9	2579.2	2477.2	2360.9	2226.4	2073.9	1909.9
7.5°	2899.6	2860.5	2813.8	2753.7	2680.3	2594.5	2493.4	2379.0	2245.5	2093.9	1928.9
5°	2898.6	2861.5	2819.5	2761.3	2687.9	2603.1	2503.9	2391.4	2258.8	2107.2	1943.2
2.5°	2895.8	2862.4	2823.3	2767.1	2696.5	2612.6	2514.4	2405.7	2273.2	2118.7	1954.7
0°	2903.4	2874.8	2825.2	2765.2	2698.4	2612.6	2513.4	2407.6	2275.1	2117.7	1953.7



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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°	23.8	22.9	22.9	21.9	21.0	20.0	18.1	17.2	15.3	12.4	9.5
85°	51.5	48.6	45.8	43.9	42.0	40.0	37.2	34.3	30.5	24.8	19.1
82.5°	90.6	84.9	79.1	72.5	66.7	61.0	56.3	51.5	45.8	37.2	28.6
80°	129.7	121.1	112.5	103.0	94.4	84.9	76.3	68.7	61.0	49.6	38.1
77.5°	168.8	157.3	144.9	133.5	121.1	108.7	96.3	85.8	74.4	61.0	47.7
75°	205.0	191.7	180.2	164.0	148.7	132.5	116.3	102.0	87.7	71.5	57.2
72.5°	241.2	224.1	207.9	192.6	175.4	155.4	137.3	119.2	101.1	82.0	64.8
70°	277.5	256.5	236.5	218.4	199.3	179.3	157.3	136.4	114.4	91.5	71.5
67.5°	314.7	290.8	267.9	245.1	223.1	200.2	177.4	153.5	127.8	101.1	79.1
65°	355.7	326.1	298.4	272.7	247.0	222.2	196.4	170.7	142.1	111.6	85.8
62.5°	396.7	364.2	331.8	299.4	270.8	243.1	215.5	186.9	155.4	123.0	92.5
60°	440.5	403.3	366.1	329.9	294.6	264.1	233.6	203.1	169.7	133.5	99.2
57.5°	489.1	444.3	402.4	361.4	321.3	285.1	251.7	219.3	182.1	144.0	106.8
55°	544.5	489.1	439.6	393.8	349.9	306.1	269.8	236.5	196.4	154.5	115.4
52.5°	602.6	538.7	478.7	427.2	380.4	330.9	287.0	249.8	210.7	165.0	123.0
50°	670.3	589.3	522.5	459.6	407.1	355.7	305.1	265.1	225.0	177.4	130.6
47.5°	739.9	650.3	566.4	497.7	435.8	379.5	326.1	278.4	238.4	188.8	138.3
45°	821.0	708.5	616.0	534.9	463.4	404.3	347.1	292.7	249.8	200.2	145.9
42.5°	899.2	777.1	667.5	575.9	494.9	428.1	366.1	308.0	261.3	211.7	152.6
40°	991.6	845.8	717.0	615.0	526.3	451.0	385.2	324.2	271.7	222.2	159.2
37.5°	1080.3	915.4	777.1	657.9	556.8	473.9	404.3	339.4	281.3	232.7	167.8
35°	1168.0	992.6	834.3	698.0	588.3	499.6	423.4	353.7	290.8	241.2	175.4
32.5°	1251.9	1065.1	892.5	742.8	622.6	523.5	440.5	367.1	300.4	248.9	183.1
30°	1330.1	1133.7	949.7	788.5	654.1	545.4	456.7	380.4	311.8	255.5	190.7
27.5°	1401.6	1200.5	1006.9	831.5	683.7	565.4	473.9	392.8	321.3	262.2	197.4
25°	1466.5	1260.5	1059.3	870.5	710.4	587.4	490.1	405.2	329.9	267.9	203.1
22.5°	1527.5	1315.8	1107.0	909.6	742.8	609.3	505.4	416.7	338.5	273.7	208.8
20°	1580.9	1366.4	1152.8	948.7	771.4	629.3	518.7	427.2	346.1	277.5	214.5
17.5°	1623.8	1411.2	1193.8	983.1	796.2	646.5	530.1	436.7	352.8	282.2	218.4
15°	1662.0	1449.3	1228.1	1012.6	818.1	660.8	540.6	444.3	358.5	285.1	223.1
12.5°	1694.4	1481.7	1257.7	1038.4	837.2	673.2	549.2	450.1	363.3	288.0	226.0
10°	1721.1	1507.5	1282.5	1058.4	852.4	682.7	555.9	455.8	367.1	290.8	228.8
7.5°	1741.1	1526.6	1300.6	1075.6	864.8	689.4	561.6	459.6	370.9	292.7	233.6
5°	1756.4	1542.8	1314.9	1087.0	874.4	698.9	568.3	464.4	374.7	294.6	233.6
2.5°	1767.8	1556.1	1326.3	1096.5	882.0	697.0	568.3	463.4	374.7	294.6	232.7
0°	1765.9	1557.1	1325.4	1096.5	882.0	695.1	568.3	462.4	374.7	294.6	232.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.7	4.8	1.9	0.0
85°	14.3	9.5	4.8	0.0
82.5°	21.0	13.3	6.7	0.0
80°	27.7	18.1	8.6	0.0
77.5°	35.3	22.9	11.4	0.0
75°	42.0	26.7	13.3	0.0
72.5°	48.6	31.5	15.3	0.0
70°	54.3	35.3	17.2	0.0
67.5°	60.1	40.0	20.0	0.0
65°	64.8	43.9	21.9	0.0
62.5°	68.7	48.6	23.8	0.0
60°	73.4	52.4	25.7	0.0
57.5°	77.2	55.3	27.7	0.0
55°	81.0	57.2	29.6	0.0
52.5°	84.9	60.1	31.5	0.0
50°	88.7	62.9	33.4	0.0
47.5°	92.5	64.8	34.3	0.0
45°	98.2	67.7	36.2	0.0
42.5°	103.0	69.6	38.1	0.0
40°	107.7	71.5	39.1	0.0
37.5°	112.5	73.4	41.0	0.0
35°	117.3	75.3	42.0	0.0
32.5°	121.1	77.2	42.9	0.0
30°	124.9	79.1	43.9	0.0
27.5°	128.7	80.1	44.8	0.0
25°	131.6	82.0	45.8	0.0
22.5°	134.4	83.0	46.7	0.0
20°	136.4	83.9	47.7	0.0
17.5°	139.2	84.9	48.6	0.0
15°	140.2	85.8	50.5	0.0
12.5°	142.1	86.8	50.5	0.0
10°	143.0	87.7	50.5	0.0
7.5°	144.9	87.7	50.5	0.0
5°	144.0	87.7	50.5	0.0
2.5°	144.0	87.7	50.5	0.0
0°	143.0	87.7	50.5	0.0

(END OF REPORT)