

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: P628295

Luminaire Tested: **IFLD-S-SA2A-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628295
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

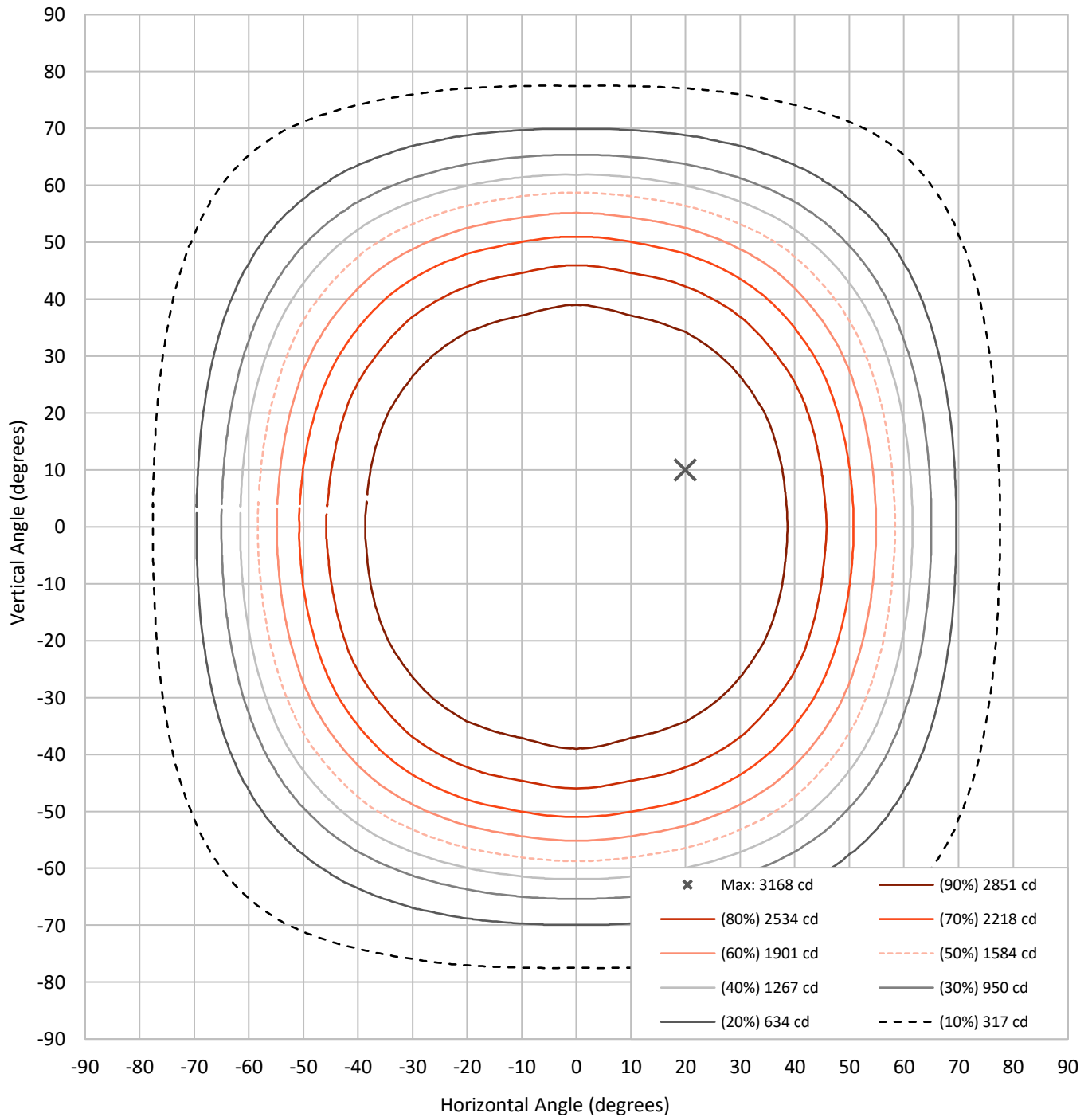
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9719.1 lumens	Max Intensity:	3168 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	152.3 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:	5963.9 lumens	Field Lumens:	7149.6 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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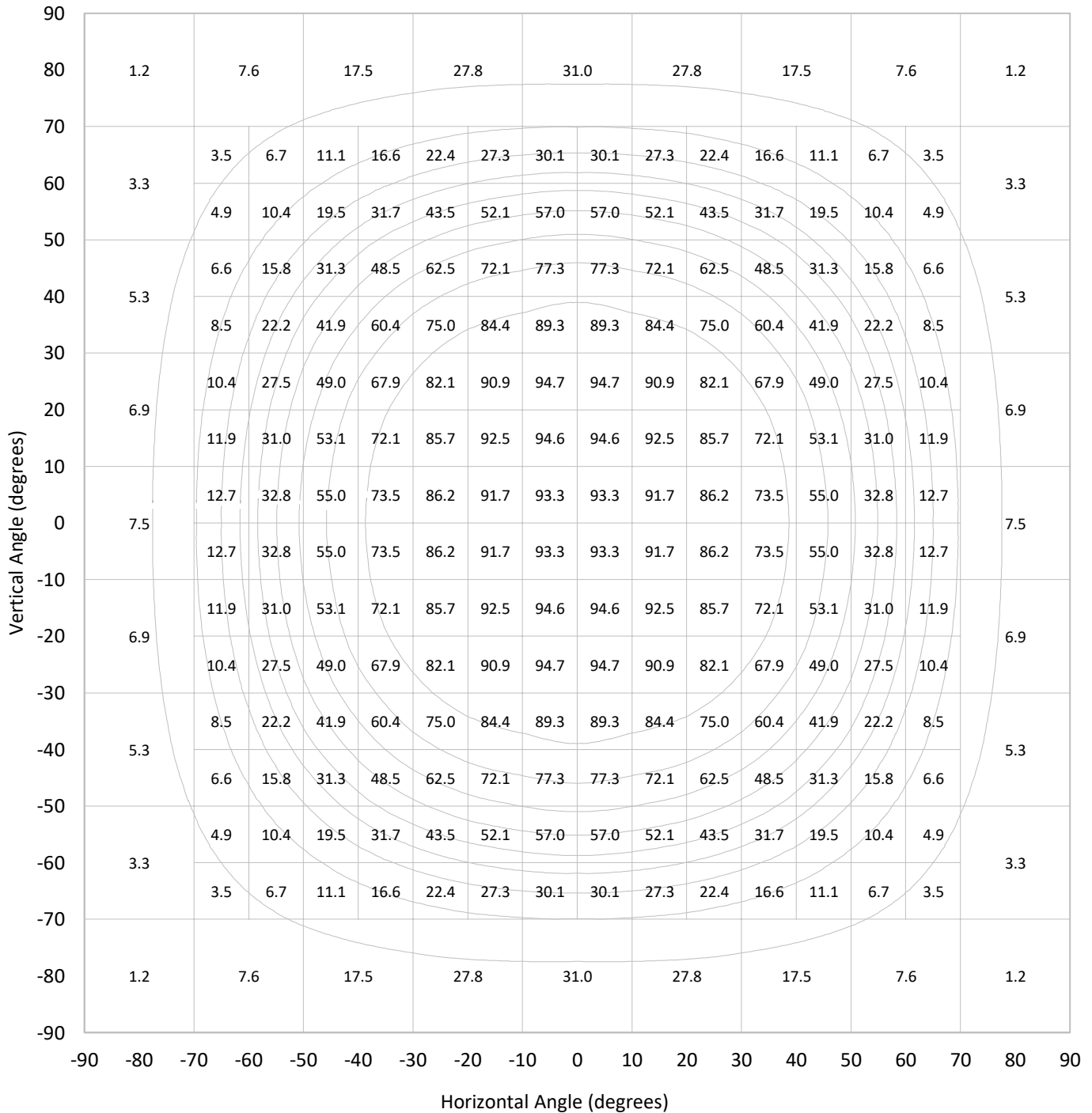
Iso-Candela Plot





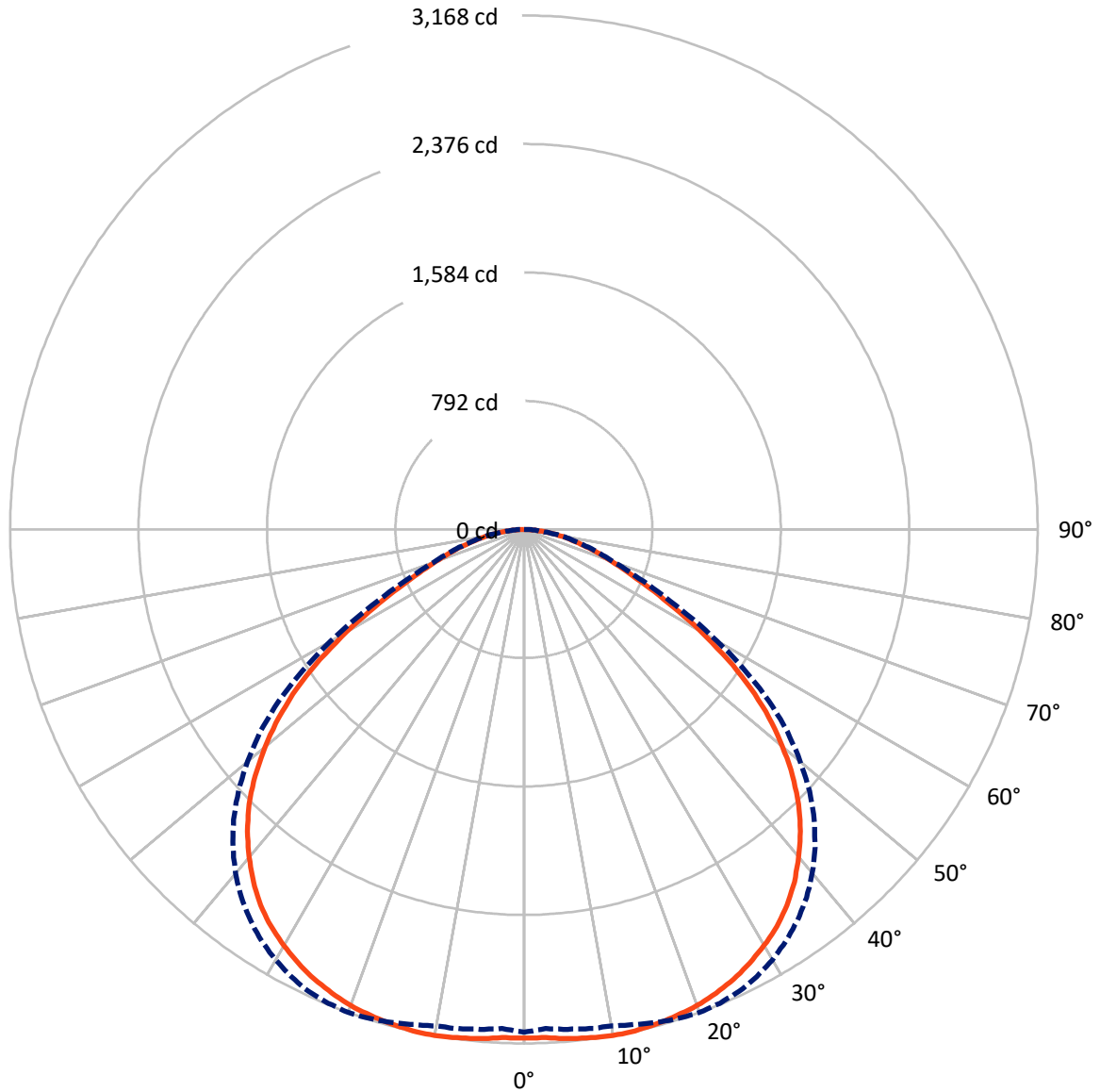
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Lumen Table



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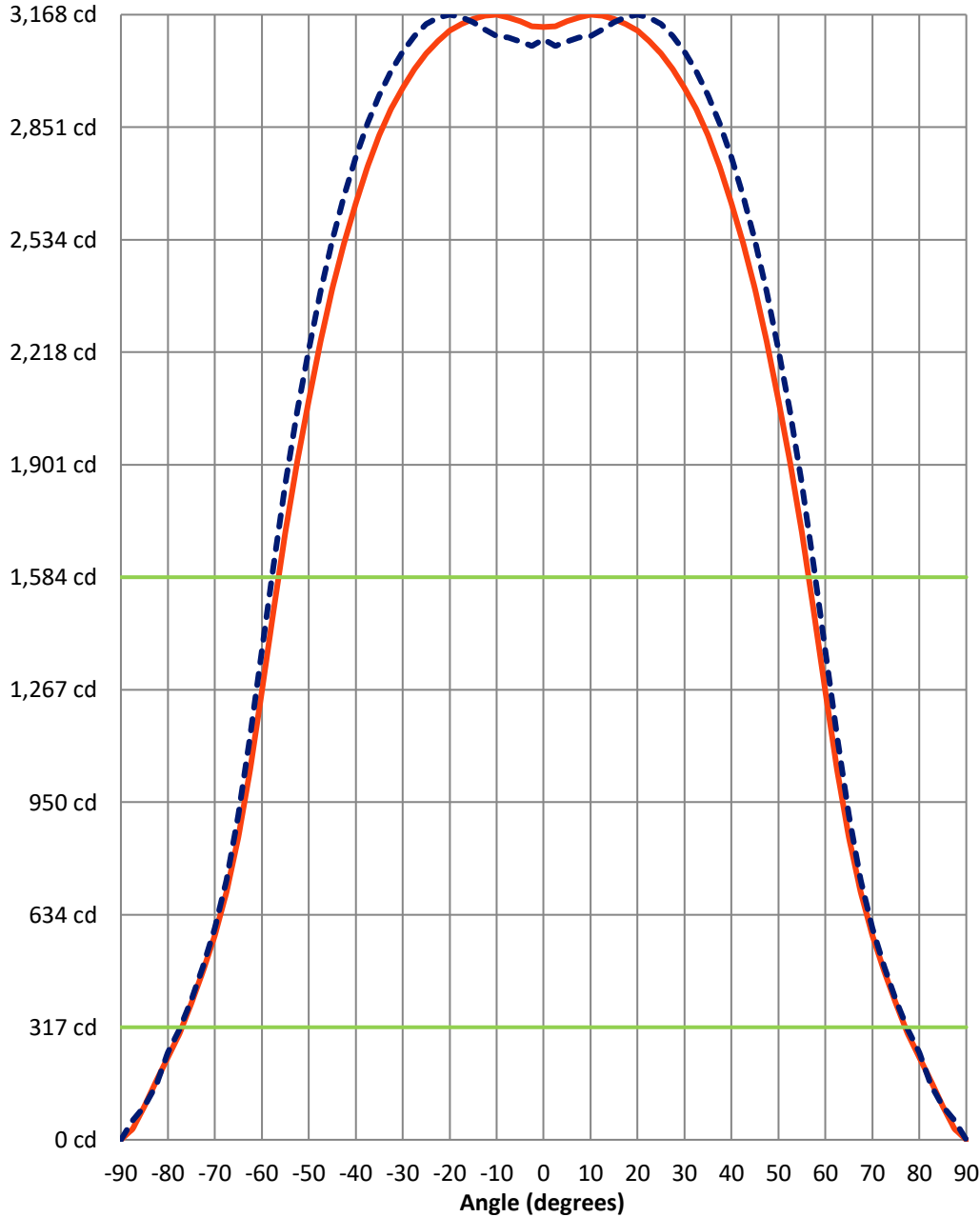
Luminous Intensity Polar Plot



— 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: 5963.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 7149.6
 Efficiency: 73.6%

Spill:
 Lumens: 2569.5
 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°	25.6	27.6	28.6	29.7	30.7	31.7	32.7	31.7	30.7	30.7	29.7
85°	68.5	70.6	71.6	78.7	85.9	90.0	95.1	94.1	94.1	93.1	92.0
82.5°	137.0	143.2	148.3	155.4	159.5	165.7	169.8	166.7	164.6	160.5	157.5
80°	243.4	245.4	246.4	247.5	242.4	241.3	239.3	236.2	232.1	227.0	221.9
77.5°	309.9	311.9	313.9	311.9	310.9	309.9	306.8	303.7	299.6	295.5	289.4
75°	410.1	410.1	410.1	407.0	405.0	401.9	396.8	391.7	384.5	376.3	367.1
72.5°	516.4	515.4	514.4	508.2	503.1	497.0	489.8	483.7	475.5	466.3	454.0
70°	627.9	629.9	630.9	622.8	616.6	608.5	599.2	588.0	575.7	562.4	545.1
67.5°	781.3	779.2	777.2	765.9	757.8	746.5	733.2	716.8	698.4	678.0	653.4
65°	971.5	974.5	968.4	957.2	941.8	923.4	903.0	879.4	851.8	821.2	786.4
62.5°	1201.6	1206.7	1199.5	1185.2	1165.8	1141.2	1112.6	1078.9	1041.0	998.1	955.1
60°	1463.4	1462.3	1449.0	1429.6	1404.0	1373.4	1341.7	1304.8	1261.9	1211.8	1159.6
57.5°	1703.7	1701.6	1685.3	1665.8	1640.3	1607.5	1573.8	1534.9	1489.9	1436.8	1376.4
55°	1919.4	1917.4	1901.0	1880.6	1854.0	1821.3	1790.6	1753.8	1709.8	1653.6	1589.1
52.5°	2110.7	2111.7	2097.4	2074.9	2046.2	2014.5	1984.9	1948.1	1906.1	1849.9	1787.5
50°	2286.6	2285.5	2270.2	2249.7	2223.2	2192.5	2162.8	2126.0	2082.0	2027.8	1967.5
47.5°	2450.2	2448.1	2430.7	2408.2	2380.6	2354.0	2326.4	2293.7	2247.7	2193.5	2133.2
45°	2587.2	2583.1	2565.7	2544.2	2517.7	2494.1	2469.6	2445.1	2396.0	2345.9	2288.6
42.5°	2704.8	2703.8	2686.4	2664.9	2638.3	2617.9	2595.4	2564.7	2523.8	2477.8	2421.5
40°	2817.3	2809.1	2791.7	2771.3	2746.7	2729.3	2706.8	2676.2	2636.3	2591.3	2537.1
37.5°	2901.1	2902.2	2883.8	2861.3	2839.8	2823.4	2803.0	2774.3	2739.6	2695.6	2641.4
35°	2980.9	2975.8	2960.5	2941.0	2921.6	2903.2	2881.7	2857.2	2828.5	2787.6	2736.5
32.5°	3033.1	3040.2	3021.8	3001.4	2990.1	2975.8	2953.3	2927.7	2902.2	2861.3	2815.2
30°	3090.3	3084.2	3069.9	3052.5	3044.3	3035.1	3015.7	2991.1	2961.5	2924.7	2881.7
27.5°	3130.2	3127.1	3109.8	3093.4	3089.3	3081.1	3065.8	3044.3	3014.6	2978.9	2939.0
25°	3147.6	3149.6	3133.3	3124.1	3124.1	3119.0	3106.7	3088.3	3058.6	3025.9	2987.0
22.5°	3155.8	3153.7	3142.5	3140.4	3145.5	3141.5	3136.3	3120.0	3093.4	3066.8	3034.1
20°	3160.9	3146.6	3136.3	3144.5	3150.7	3149.6	3145.5	3135.3	3123.0	3100.5	3071.9
17.5°	3149.6	3140.4	3128.2	3140.4	3153.7	3154.7	3150.7	3144.5	3141.5	3127.1	3101.6
15°	3122.0	3114.9	3116.9	3129.2	3144.5	3149.6	3152.7	3159.9	3155.8	3144.5	3122.0
12.5°	3103.6	3094.4	3103.6	3115.9	3124.1	3127.1	3151.7	3165.0	3165.0	3154.7	3140.4
10°	3098.5	3080.1	3092.4	3103.6	3107.7	3126.1	3146.6	3160.9	3168.0	3159.9	3141.5
7.5°	3088.3	3076.0	3081.1	3086.2	3109.8	3123.0	3134.3	3149.6	3159.9	3158.8	3142.5
5°	3083.2	3067.8	3069.9	3091.3	3107.7	3116.9	3121.0	3134.3	3149.6	3152.7	3140.4
2.5°	3069.9	3062.7	3078.1	3080.1	3092.4	3099.5	3103.6	3115.9	3135.3	3142.5	3137.4
0°	3062.7	3052.5	3042.3	3050.4	3070.9	3086.2	3092.4	3110.8	3133.3	3140.4	3129.2



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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°	28.6	27.6	26.6	25.6	26.6	26.6	26.6	25.6	26.6	25.6	25.6
85°	89.0	84.9	81.8	77.7	73.6	70.6	66.5	62.4	61.4	60.3	58.3
82.5°	153.4	148.3	143.2	137.0	130.9	123.7	116.6	108.4	106.4	104.3	101.2
80°	215.8	208.6	201.5	194.3	188.2	181.0	172.8	163.6	157.5	152.4	146.2
77.5°	281.2	271.0	260.8	248.5	241.3	234.2	226.0	216.8	207.6	199.4	190.2
75°	355.9	344.6	334.4	322.1	308.8	295.5	282.2	270.0	256.7	244.4	232.1
72.5°	438.7	422.3	406.0	390.6	374.3	357.9	340.5	324.2	307.8	291.4	274.1
70°	525.6	505.2	484.7	464.3	442.8	421.3	400.9	380.4	360.0	338.5	319.1
67.5°	627.9	604.4	577.8	549.1	517.4	489.8	463.2	438.7	414.2	389.6	365.1
65°	755.7	723.0	687.2	648.3	611.5	574.7	535.8	499.0	470.4	441.8	414.2
62.5°	913.2	867.2	817.1	767.0	722.0	673.9	628.9	580.8	535.8	494.9	461.2
60°	1101.3	1039.0	977.6	913.2	850.8	785.4	728.1	668.8	612.5	562.4	513.3
57.5°	1308.9	1236.3	1162.7	1084.0	999.1	922.4	844.7	767.0	700.5	634.0	578.8
55°	1519.6	1442.9	1360.1	1271.1	1178.0	1079.9	974.5	887.6	796.6	718.9	647.3
52.5°	1720.0	1640.3	1554.4	1472.6	1361.1	1248.6	1133.1	1018.5	912.2	813.0	726.1
50°	1899.0	1821.3	1738.4	1643.3	1540.0	1420.4	1291.6	1162.7	1036.9	920.3	812.0
47.5°	2062.6	1986.9	1904.1	1809.0	1714.9	1582.0	1452.1	1310.0	1169.9	1035.9	909.1
45°	2216.0	2139.3	2053.4	1962.4	1854.0	1735.4	1601.4	1458.2	1307.9	1157.6	1011.4
42.5°	2355.1	2278.4	2191.4	2097.4	1990.0	1872.4	1742.5	1598.3	1447.0	1283.4	1122.8
40°	2476.8	2402.1	2318.3	2220.1	2119.9	1996.1	1868.3	1731.3	1574.8	1410.2	1233.3
37.5°	2583.1	2513.6	2430.7	2333.6	2227.2	2116.8	1984.9	1847.9	1706.7	1527.8	1346.8
35°	2677.2	2612.8	2527.9	2435.9	2331.5	2215.0	2091.2	1957.3	1804.9	1637.2	1461.3
32.5°	2759.0	2693.6	2615.8	2523.8	2422.6	2313.1	2186.3	2051.4	1907.2	1736.4	1545.2
30°	2828.5	2765.1	2691.5	2604.6	2507.4	2399.0	2275.3	2139.3	1992.0	1822.3	1633.1
27.5°	2888.9	2828.5	2757.0	2676.2	2583.1	2478.8	2354.0	2217.0	2066.7	1903.1	1713.9
25°	2941.0	2882.7	2816.3	2739.6	2647.5	2545.3	2427.7	2284.5	2134.2	1969.5	1782.4
22.5°	2988.1	2931.8	2865.3	2790.7	2706.8	2604.6	2486.0	2343.8	2191.4	2028.9	1844.8
20°	3030.0	2977.8	2912.4	2835.7	2751.8	2648.6	2531.0	2396.0	2242.6	2083.1	1901.0
17.5°	3063.7	3017.7	2952.3	2871.5	2787.6	2687.4	2572.9	2449.1	2286.6	2129.1	1948.1
15°	3087.3	3042.3	2982.9	2901.1	2819.3	2720.1	2605.6	2477.8	2326.4	2165.9	1986.9
12.5°	3103.6	3055.6	3000.3	2924.7	2842.9	2744.7	2633.2	2507.4	2360.2	2198.6	2020.7
10°	3107.7	3063.7	3008.5	2941.0	2861.3	2766.2	2656.7	2532.0	2387.8	2224.2	2048.3
7.5°	3109.8	3067.8	3017.7	2953.3	2874.6	2782.5	2674.1	2551.4	2408.2	2245.6	2068.7
5°	3108.7	3068.8	3023.9	2961.5	2882.7	2791.7	2685.4	2564.7	2422.6	2260.0	2084.1
2.5°	3105.7	3069.9	3027.9	2967.6	2891.9	2801.9	2696.6	2580.0	2437.9	2272.2	2096.3
0°	3113.8	3083.2	3030.0	2965.6	2894.0	2801.9	2695.6	2582.1	2439.9	2271.2	2095.3



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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°	25.6	24.5	24.5	23.5	22.5	21.5	19.4	18.4	16.4	13.3	10.2
85°	55.2	52.2	49.1	47.0	45.0	42.9	39.9	36.8	32.7	26.6	20.5
82.5°	97.1	91.0	84.9	77.7	71.6	65.4	60.3	55.2	49.1	39.9	30.7
80°	139.1	129.9	120.7	110.4	101.2	91.0	81.8	73.6	65.4	53.2	40.9
77.5°	181.0	168.7	155.4	143.2	129.9	116.6	103.3	92.0	79.8	65.4	51.1
75°	219.9	205.5	193.3	175.9	159.5	142.1	124.8	109.4	94.1	76.7	61.4
72.5°	258.7	240.3	222.9	206.6	188.2	166.7	147.3	127.8	108.4	87.9	69.5
70°	297.6	275.1	253.6	234.2	213.7	192.3	168.7	146.2	122.7	98.2	76.7
67.5°	337.5	311.9	287.4	262.8	239.3	214.7	190.2	164.6	137.0	108.4	84.9
65°	381.4	349.7	320.1	292.5	264.9	238.3	210.7	183.0	152.4	119.6	92.0
62.5°	425.4	390.6	355.9	321.1	290.4	260.8	231.1	200.4	166.7	131.9	99.2
60°	472.4	432.6	392.7	353.8	316.0	283.3	250.5	217.8	182.0	143.2	106.4
57.5°	524.6	476.5	431.5	387.6	344.6	305.8	270.0	235.2	195.3	154.4	114.5
55°	583.9	524.6	471.4	422.3	375.3	328.3	289.4	253.6	210.7	165.7	123.7
52.5°	646.3	577.8	513.3	458.1	408.0	354.8	307.8	267.9	226.0	176.9	131.9
50°	718.9	632.0	560.4	492.9	436.7	381.4	327.2	284.3	241.3	190.2	140.1
47.5°	793.5	697.4	607.4	533.8	467.3	407.0	349.7	298.6	255.7	202.5	148.3
45°	880.5	759.8	660.6	573.7	497.0	433.6	372.2	313.9	267.9	214.7	156.5
42.5°	964.3	833.4	715.8	617.7	530.7	459.2	392.7	330.3	280.2	227.0	163.6
40°	1063.5	907.1	769.0	659.6	564.5	483.7	413.1	347.7	291.4	238.3	170.8
37.5°	1158.6	981.7	833.4	705.6	597.2	508.2	433.6	364.0	301.7	249.5	180.0
35°	1252.7	1064.5	894.8	748.5	630.9	535.8	454.0	379.4	311.9	258.7	188.2
32.5°	1342.7	1142.3	957.2	796.6	667.8	561.4	472.4	393.7	322.1	266.9	196.3
30°	1426.5	1215.9	1018.5	845.7	701.5	584.9	489.8	408.0	334.4	274.1	204.5
27.5°	1503.2	1287.5	1079.9	891.7	733.2	606.4	508.2	421.3	344.6	281.2	211.7
25°	1572.8	1351.9	1136.1	933.6	761.8	629.9	525.6	434.6	353.8	287.4	217.8
22.5°	1638.2	1411.2	1187.2	975.6	796.6	653.4	542.0	446.9	363.0	293.5	224.0
20°	1695.5	1465.4	1236.3	1017.5	827.3	674.9	556.3	458.1	371.2	297.6	230.1
17.5°	1741.5	1513.5	1280.3	1054.3	853.9	693.3	568.6	468.4	378.4	302.7	234.2
15°	1782.4	1554.4	1317.1	1086.0	877.4	708.7	579.8	476.5	384.5	305.8	239.3
12.5°	1817.2	1589.1	1348.8	1113.6	897.9	722.0	589.0	482.7	389.6	308.8	242.4
10°	1845.8	1616.7	1375.4	1135.1	914.2	732.2	596.2	488.8	393.7	311.9	245.4
7.5°	1867.3	1637.2	1394.8	1153.5	927.5	739.3	602.3	492.9	397.8	313.9	250.5
5°	1883.6	1654.6	1410.2	1165.8	937.7	749.6	609.5	498.0	401.9	316.0	250.5
2.5°	1895.9	1668.9	1422.4	1176.0	945.9	747.5	609.5	497.0	401.9	316.0	249.5
0°	1893.9	1669.9	1421.4	1176.0	945.9	745.5	609.5	496.0	401.9	316.0	249.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.2	5.1	2.0	0.0
85°	15.3	10.2	5.1	0.0
82.5°	22.5	14.3	7.2	0.0
80°	29.7	19.4	9.2	0.0
77.5°	37.8	24.5	12.3	0.0
75°	45.0	28.6	14.3	0.0
72.5°	52.2	33.7	16.4	0.0
70°	58.3	37.8	18.4	0.0
67.5°	64.4	42.9	21.5	0.0
65°	69.5	47.0	23.5	0.0
62.5°	73.6	52.2	25.6	0.0
60°	78.7	56.2	27.6	0.0
57.5°	82.8	59.3	29.7	0.0
55°	86.9	61.4	31.7	0.0
52.5°	91.0	64.4	33.7	0.0
50°	95.1	67.5	35.8	0.0
47.5°	99.2	69.5	36.8	0.0
45°	105.3	72.6	38.9	0.0
42.5°	110.4	74.7	40.9	0.0
40°	115.6	76.7	41.9	0.0
37.5°	120.7	78.7	44.0	0.0
35°	125.8	80.8	45.0	0.0
32.5°	129.9	82.8	46.0	0.0
30°	134.0	84.9	47.0	0.0
27.5°	138.1	85.9	48.1	0.0
25°	141.1	87.9	49.1	0.0
22.5°	144.2	89.0	50.1	0.0
20°	146.2	90.0	51.1	0.0
17.5°	149.3	91.0	52.2	0.0
15°	150.3	92.0	54.2	0.0
12.5°	152.4	93.1	54.2	0.0
10°	153.4	94.1	54.2	0.0
7.5°	155.4	94.1	54.2	0.0
5°	154.4	94.1	54.2	0.0
2.5°	154.4	94.1	54.2	0.0
0°	153.4	94.1	54.2	0.0

(END OF REPORT)