

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: P628474

Luminaire Tested: **IFLD-S-SA3A-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628474
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

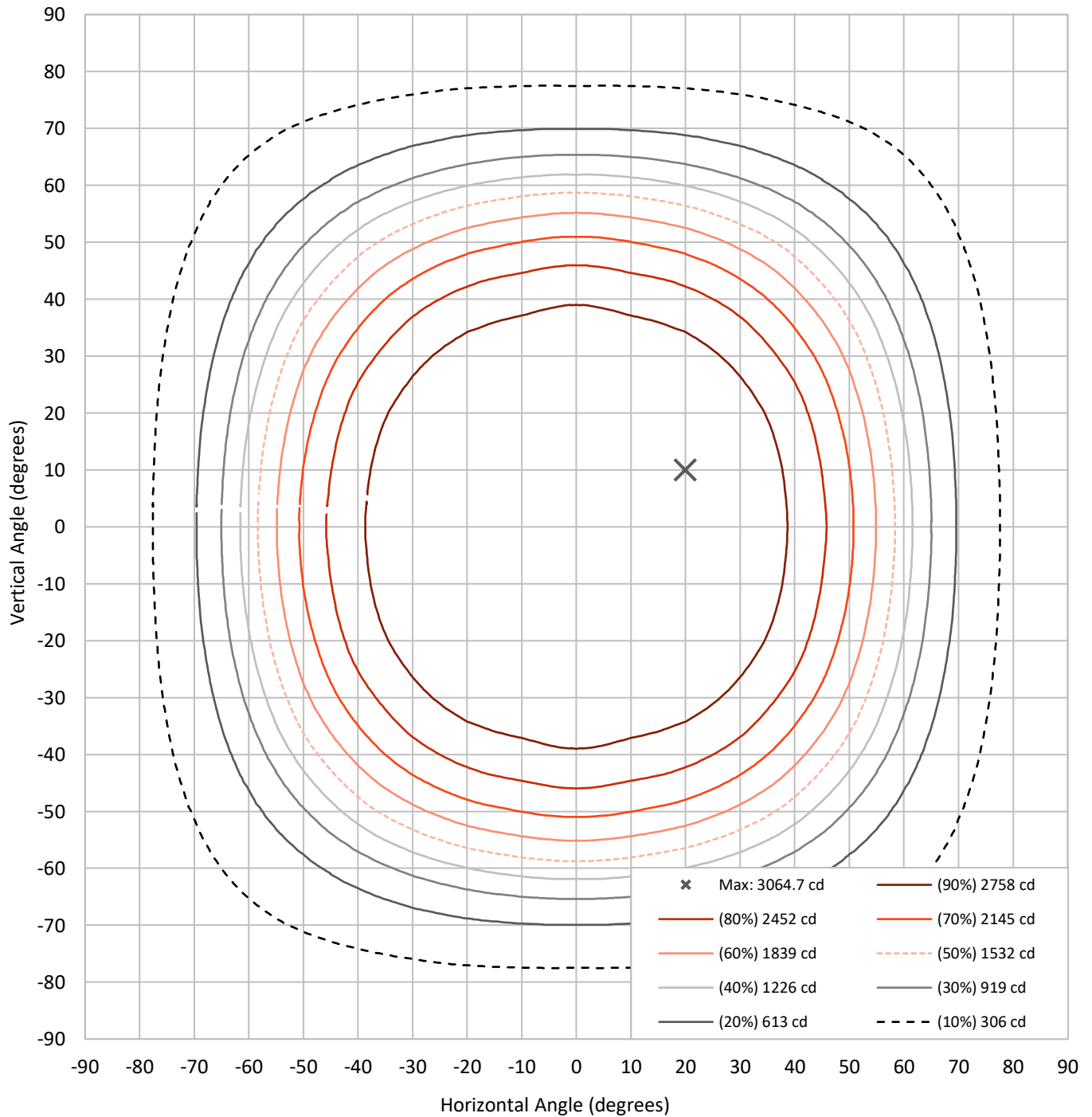
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9402.2 lumens	Max Intensity:	3064.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	99.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	5769.4 lumens	Field Lumens:	6916.5 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



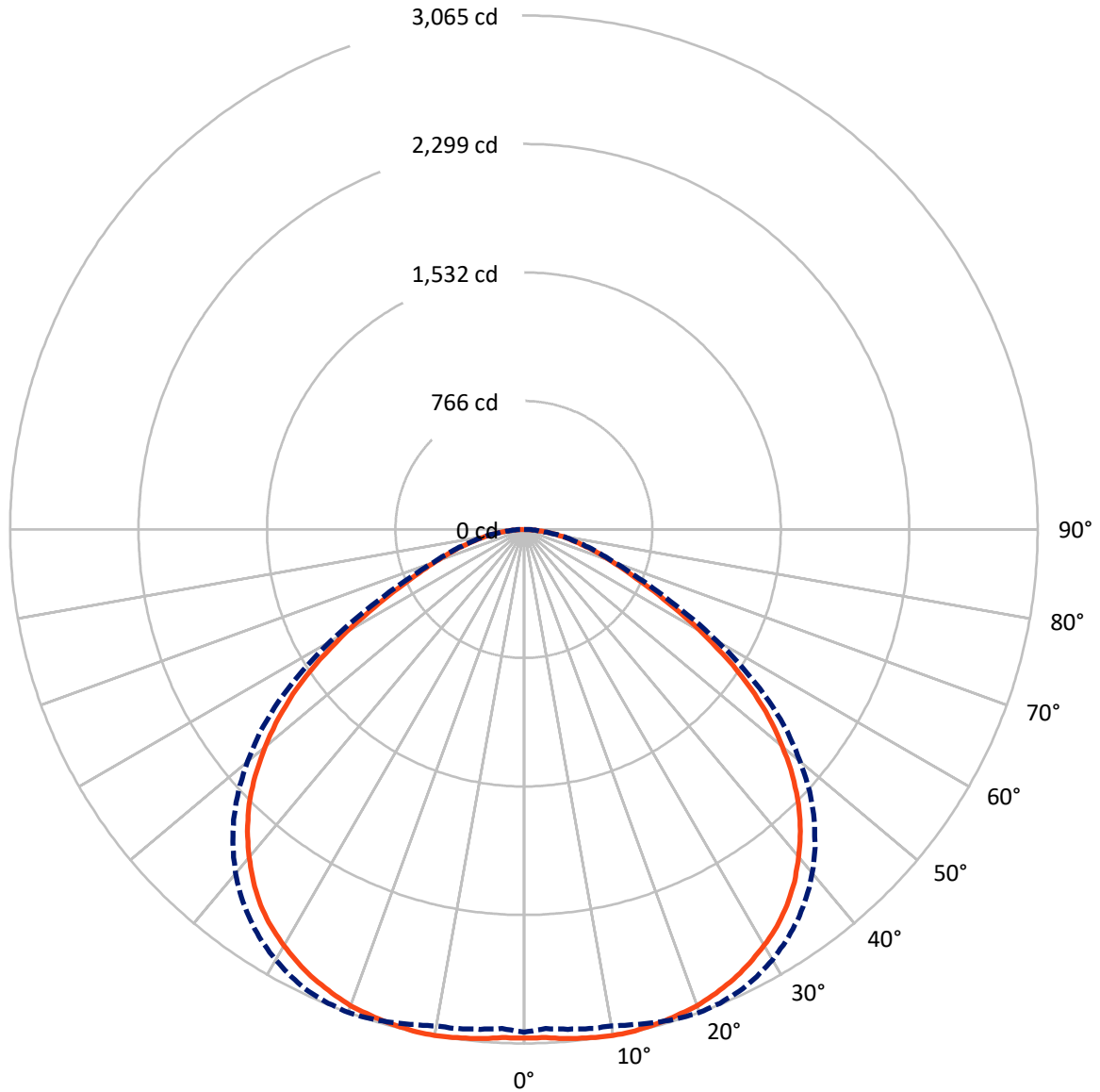
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Iso-Candela Plot



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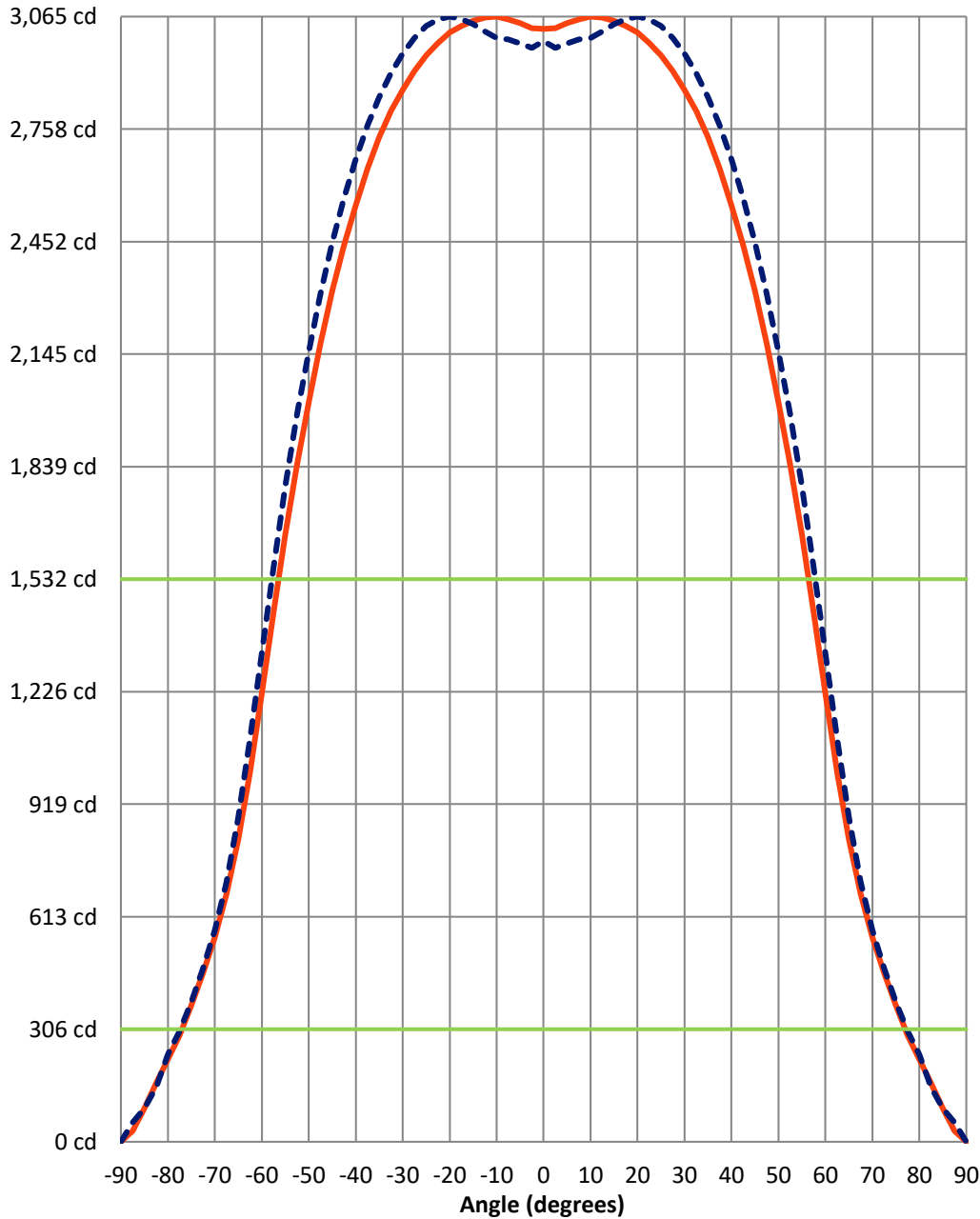
Luminous Intensity Polar Plot



— 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: 5769.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 6916.5
 Efficiency: 73.6%

Spill:
 Lumens: 2485.7
 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°	24.7	26.7	27.7	28.7	29.7	30.7	31.7	30.7	29.7	29.7	28.7
85°	66.3	68.3	69.2	76.2	83.1	87.1	92.0	91.0	91.0	90.0	89.0
82.5°	132.6	138.5	143.4	150.4	154.3	160.3	164.2	161.2	159.3	155.3	152.3
80°	235.4	237.4	238.4	239.4	234.5	233.5	231.5	228.5	224.6	219.6	214.7
77.5°	299.7	301.7	303.7	301.7	300.7	299.7	296.8	293.8	289.9	285.9	280.0
75°	396.7	396.7	396.7	393.7	391.7	388.8	383.8	378.9	372.0	364.0	355.1
72.5°	499.6	498.6	497.6	491.7	486.7	480.8	473.9	467.9	460.0	451.1	439.2
70°	607.4	609.4	610.4	602.5	596.5	588.6	579.7	568.8	557.0	544.1	527.3
67.5°	755.8	753.8	751.8	741.0	733.0	722.2	709.3	693.5	675.7	655.9	632.1
65°	939.8	942.8	936.8	925.9	911.1	893.3	873.5	850.8	824.1	794.4	760.7
62.5°	1162.4	1167.3	1160.4	1146.6	1127.8	1104.0	1076.3	1043.7	1007.1	965.5	924.0
60°	1415.6	1414.6	1401.8	1383.0	1358.3	1328.6	1297.9	1262.3	1220.7	1172.3	1121.8
57.5°	1648.1	1646.1	1630.3	1611.5	1586.8	1555.1	1522.5	1484.9	1441.4	1389.9	1331.5
55°	1856.8	1854.9	1839.0	1819.2	1793.5	1761.9	1732.2	1696.6	1654.0	1599.6	1537.3
52.5°	2041.8	2042.8	2029.0	2007.2	1979.5	1948.8	1920.2	1884.5	1844.0	1789.6	1729.2
50°	2212.0	2211.0	2196.2	2176.4	2150.6	2121.0	2092.3	2056.7	2014.1	1961.7	1903.3
47.5°	2370.3	2368.3	2351.5	2329.7	2303.0	2277.3	2250.6	2218.9	2174.4	2122.0	2063.6
45°	2502.8	2498.9	2482.1	2461.3	2435.6	2412.8	2389.1	2365.3	2317.8	2269.4	2214.0
42.5°	2616.6	2615.6	2598.8	2578.0	2552.3	2532.5	2510.7	2481.1	2441.5	2397.0	2342.6
40°	2725.4	2717.5	2700.7	2680.9	2657.1	2640.3	2618.6	2588.9	2550.3	2506.8	2454.4
37.5°	2806.5	2807.5	2789.7	2767.9	2747.2	2731.3	2711.6	2683.9	2650.2	2607.7	2555.3
35°	2883.7	2878.7	2863.9	2845.1	2826.3	2808.5	2787.7	2764.0	2736.3	2696.7	2647.3
32.5°	2934.1	2941.1	2923.3	2903.5	2892.6	2878.7	2857.0	2832.2	2807.5	2767.9	2723.4
30°	2989.5	2983.6	2969.8	2952.9	2945.0	2936.1	2917.3	2893.6	2864.9	2829.3	2787.7
27.5°	3028.1	3025.2	3008.3	2992.5	2988.6	2980.6	2965.8	2945.0	2916.3	2881.7	2843.1
25°	3044.9	3046.9	3031.1	3022.2	3022.2	3017.2	3005.4	2987.6	2958.9	2927.2	2889.6
22.5°	3052.9	3050.9	3040.0	3038.0	3043.0	3039.0	3034.1	3018.2	2992.5	2966.8	2935.1
20°	3057.8	3044.0	3034.1	3042.0	3047.9	3046.9	3043.0	3033.1	3021.2	2999.4	2971.7
17.5°	3046.9	3038.0	3026.1	3038.0	3050.9	3051.9	3047.9	3042.0	3039.0	3025.2	3000.4
15°	3020.2	3013.3	3015.3	3027.1	3042.0	3046.9	3049.9	3056.8	3052.9	3042.0	3020.2
12.5°	3002.4	2993.5	3002.4	3014.3	3022.2	3025.2	3048.9	3061.8	3061.8	3051.9	3038.0
10°	2997.5	2979.6	2991.5	3002.4	3006.4	3024.2	3044.0	3057.8	3064.7	3056.8	3039.0
7.5°	2987.6	2975.7	2980.6	2985.6	3008.3	3021.2	3032.1	3046.9	3056.8	3055.8	3040.0
5°	2982.6	2967.8	2969.8	2990.5	3006.4	3015.3	3019.2	3032.1	3046.9	3049.9	3038.0
2.5°	2969.8	2962.8	2977.7	2979.6	2991.5	2998.4	3002.4	3014.3	3033.1	3040.0	3035.0
0°	2962.8	2952.9	2943.0	2951.0	2970.7	2985.6	2991.5	3009.3	3031.1	3038.0	3027.1



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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°	27.7	26.7	25.7	24.7	25.7	25.7	25.7	24.7	25.7	24.7	24.7
85°	86.1	82.1	79.1	75.2	71.2	68.3	64.3	60.3	59.4	58.4	56.4
82.5°	148.4	143.4	138.5	132.6	126.6	119.7	112.8	104.9	102.9	100.9	97.9
80°	208.7	201.8	194.9	188.0	182.0	175.1	167.2	158.3	152.3	147.4	141.5
77.5°	272.0	262.2	252.3	240.4	233.5	226.5	218.6	209.7	200.8	192.9	184.0
75°	344.3	333.4	323.5	311.6	298.8	285.9	273.0	261.2	248.3	236.4	224.6
72.5°	424.4	408.6	392.7	377.9	362.1	346.2	329.4	313.6	297.8	281.9	265.1
70°	508.5	488.7	468.9	449.1	428.3	407.6	387.8	368.0	348.2	327.4	308.6
67.5°	607.4	584.7	558.9	531.2	500.6	473.9	448.1	424.4	400.6	376.9	353.2
65°	731.1	699.4	664.8	627.2	591.6	556.0	518.4	482.8	455.1	427.4	400.6
62.5°	883.4	838.9	790.4	741.9	698.4	651.9	608.4	561.9	518.4	478.8	446.2
60°	1065.4	1005.1	945.7	883.4	823.1	759.8	704.4	647.0	592.6	544.1	496.6
57.5°	1266.3	1196.0	1124.8	1048.6	966.5	892.3	817.1	741.9	677.6	613.3	559.9
55°	1470.0	1395.8	1315.7	1229.6	1139.6	1044.7	942.8	858.7	770.6	695.4	626.2
52.5°	1663.9	1586.8	1503.7	1424.5	1316.7	1207.9	1096.1	985.3	882.4	786.5	702.4
50°	1837.1	1761.9	1681.7	1589.7	1489.8	1374.1	1249.4	1124.8	1003.1	890.3	785.5
47.5°	1995.3	1922.1	1842.0	1750.0	1659.0	1530.4	1404.7	1267.2	1131.7	1002.1	879.5
45°	2143.7	2069.5	1986.4	1898.4	1793.5	1678.8	1549.2	1410.7	1265.3	1119.8	978.4
42.5°	2278.3	2204.1	2120.0	2029.0	1925.1	1811.3	1685.7	1546.2	1399.8	1241.5	1086.2
40°	2396.0	2323.8	2242.7	2147.7	2050.7	1931.0	1807.4	1674.8	1523.5	1364.2	1193.0
37.5°	2498.9	2431.6	2351.5	2257.5	2154.6	2047.8	1920.2	1787.6	1651.1	1478.0	1302.9
35°	2589.9	2527.6	2445.4	2356.4	2255.5	2142.7	2023.0	1893.4	1746.0	1583.8	1413.7
32.5°	2669.0	2605.7	2530.5	2441.5	2343.6	2237.7	2115.0	1984.5	1845.0	1679.8	1494.8
30°	2736.3	2675.0	2603.7	2519.6	2425.7	2320.8	2201.1	2069.5	1927.1	1762.9	1579.8
27.5°	2794.7	2736.3	2667.0	2588.9	2498.9	2398.0	2277.3	2144.7	1999.3	1841.0	1658.0
25°	2845.1	2788.7	2724.4	2650.2	2561.2	2462.3	2348.5	2210.0	2064.6	1905.3	1724.3
22.5°	2890.6	2836.2	2771.9	2699.7	2618.6	2519.6	2404.9	2267.4	2120.0	1962.7	1784.6
20°	2931.2	2880.7	2817.4	2743.2	2662.1	2562.2	2448.4	2317.8	2169.4	2015.1	1839.0
17.5°	2963.8	2919.3	2856.0	2777.8	2696.7	2599.8	2489.0	2369.3	2212.0	2059.6	1884.5
15°	2986.6	2943.0	2885.7	2806.5	2727.4	2631.4	2520.6	2397.0	2250.6	2095.3	1922.1
12.5°	3002.4	2955.9	2902.5	2829.3	2750.1	2655.2	2547.3	2425.7	2283.2	2126.9	1954.8
10°	3006.4	2963.8	2910.4	2845.1	2767.9	2675.9	2570.1	2449.4	2309.9	2151.6	1981.5
7.5°	3008.3	2967.8	2919.3	2857.0	2780.8	2691.8	2586.9	2468.2	2329.7	2172.4	2001.3
5°	3007.3	2968.8	2925.2	2864.9	2788.7	2700.7	2597.8	2481.1	2343.6	2186.3	2016.1
2.5°	3004.4	2969.8	2929.2	2870.8	2797.6	2710.6	2608.7	2495.9	2358.4	2198.1	2028.0
0°	3012.3	2982.6	2931.2	2868.9	2799.6	2710.6	2607.7	2497.9	2360.4	2197.1	2027.0



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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°	24.7	23.7	23.7	22.8	21.8	20.8	18.8	17.8	15.8	12.9	9.9
85°	53.4	50.5	47.5	45.5	43.5	41.5	38.6	35.6	31.7	25.7	19.8
82.5°	94.0	88.0	82.1	75.2	69.2	63.3	58.4	53.4	47.5	38.6	29.7
80°	134.5	125.6	116.7	106.8	97.9	88.0	79.1	71.2	63.3	51.4	39.6
77.5°	175.1	163.2	150.4	138.5	125.6	112.8	99.9	89.0	77.2	63.3	49.5
75°	212.7	198.8	187.0	170.2	154.3	137.5	120.7	105.9	91.0	74.2	59.4
72.5°	250.3	232.5	215.7	199.8	182.0	161.2	142.5	123.7	104.9	85.1	67.3
70°	287.9	266.1	245.3	226.5	206.8	186.0	163.2	141.5	118.7	95.0	74.2
67.5°	326.5	301.7	278.0	254.2	231.5	207.7	184.0	159.3	132.6	104.9	82.1
65°	369.0	338.3	309.6	282.9	256.2	230.5	203.8	177.1	147.4	115.7	89.0
62.5°	411.5	377.9	344.3	310.6	280.9	252.3	223.6	193.9	161.2	127.6	96.0
60°	457.0	418.5	379.9	342.3	305.7	274.0	242.4	210.7	176.1	138.5	102.9
57.5°	507.5	461.0	417.5	374.9	333.4	295.8	261.2	227.5	188.9	149.4	110.8
55°	564.9	507.5	456.0	408.6	363.1	317.6	280.0	245.3	203.8	160.3	119.7
52.5°	625.2	558.9	496.6	443.2	394.7	343.3	297.8	259.2	218.6	171.1	127.6
50°	695.4	611.4	542.1	476.8	422.4	369.0	316.6	275.0	233.5	184.0	135.5
47.5°	767.7	674.7	587.6	516.4	452.1	393.7	338.3	288.9	247.3	195.9	143.4
45°	851.8	735.0	639.1	555.0	480.8	419.4	360.1	303.7	259.2	207.7	151.4
42.5°	932.9	806.2	692.5	597.5	513.4	444.2	379.9	319.5	271.1	219.6	158.3
40°	1028.8	877.5	743.9	638.1	546.1	467.9	399.7	336.3	281.9	230.5	165.2
37.5°	1120.8	949.7	806.2	682.6	577.7	491.7	419.4	352.2	291.8	241.4	174.1
35°	1211.8	1029.8	865.6	724.1	610.4	518.4	439.2	367.0	301.7	250.3	182.0
32.5°	1298.9	1105.0	925.9	770.6	646.0	543.1	457.0	380.9	311.6	258.2	189.9
30°	1380.0	1176.2	985.3	818.1	678.6	565.9	473.9	394.7	323.5	265.1	197.9
27.5°	1454.2	1245.5	1044.7	862.6	709.3	586.6	491.7	407.6	333.4	272.0	204.8
25°	1521.5	1307.8	1099.1	903.2	737.0	609.4	508.5	420.4	342.3	278.0	210.7
22.5°	1584.8	1365.2	1148.5	943.8	770.6	632.1	524.3	432.3	351.2	283.9	216.6
20°	1640.2	1417.6	1196.0	984.3	800.3	652.9	538.2	443.2	359.1	287.9	222.6
17.5°	1684.7	1464.1	1238.6	1019.9	826.0	670.7	550.0	453.1	366.0	292.8	226.5
15°	1724.3	1503.7	1274.2	1050.6	848.8	685.6	560.9	461.0	372.0	295.8	231.5
12.5°	1757.9	1537.3	1304.8	1077.3	868.6	698.4	569.8	466.9	376.9	298.8	234.5
10°	1785.6	1564.0	1330.6	1098.1	884.4	708.3	576.7	472.9	380.9	301.7	237.4
7.5°	1806.4	1583.8	1349.3	1115.9	897.3	715.2	582.7	476.8	384.8	303.7	242.4
5°	1822.2	1600.6	1364.2	1127.8	907.2	725.1	589.6	481.8	388.8	305.7	242.4
2.5°	1834.1	1614.5	1376.1	1137.6	915.1	723.1	589.6	480.8	388.8	305.7	241.4
0°	1832.1	1615.5	1375.1	1137.6	915.1	721.2	589.6	479.8	388.8	305.7	241.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.9	4.9	2.0	0.0
85°	14.8	9.9	4.9	0.0
82.5°	21.8	13.8	6.9	0.0
80°	28.7	18.8	8.9	0.0
77.5°	36.6	23.7	11.9	0.0
75°	43.5	27.7	13.8	0.0
72.5°	50.5	32.6	15.8	0.0
70°	56.4	36.6	17.8	0.0
67.5°	62.3	41.5	20.8	0.0
65°	67.3	45.5	22.8	0.0
62.5°	71.2	50.5	24.7	0.0
60°	76.2	54.4	26.7	0.0
57.5°	80.1	57.4	28.7	0.0
55°	84.1	59.4	30.7	0.0
52.5°	88.0	62.3	32.6	0.0
50°	92.0	65.3	34.6	0.0
47.5°	96.0	67.3	35.6	0.0
45°	101.9	70.2	37.6	0.0
42.5°	106.8	72.2	39.6	0.0
40°	111.8	74.2	40.6	0.0
37.5°	116.7	76.2	42.5	0.0
35°	121.7	78.2	43.5	0.0
32.5°	125.6	80.1	44.5	0.0
30°	129.6	82.1	45.5	0.0
27.5°	133.5	83.1	46.5	0.0
25°	136.5	85.1	47.5	0.0
22.5°	139.5	86.1	48.5	0.0
20°	141.5	87.1	49.5	0.0
17.5°	144.4	88.0	50.5	0.0
15°	145.4	89.0	52.4	0.0
12.5°	147.4	90.0	52.4	0.0
10°	148.4	91.0	52.4	0.0
7.5°	150.4	91.0	52.4	0.0
5°	149.4	91.0	52.4	0.0
2.5°	149.4	91.0	52.4	0.0
0°	148.4	91.0	52.4	0.0

(END OF REPORT)