

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: P628354

Luminaire Tested: **IFLD-S-SA2B-827-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628354
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8638 lumens	Max Intensity:	2815.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	104.8 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

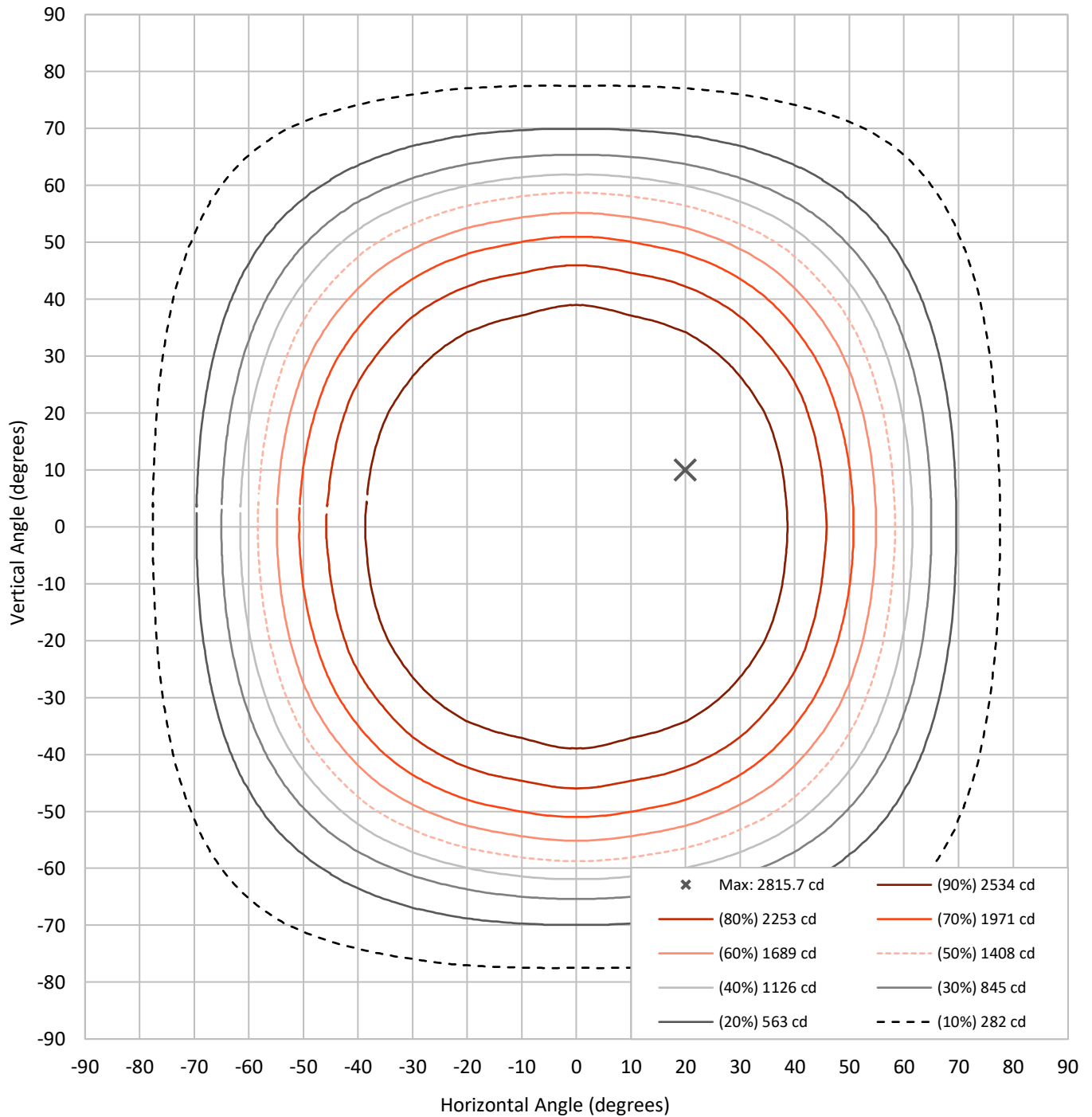
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	5300.5 lumens	Field Lumens:	6354.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 82.4
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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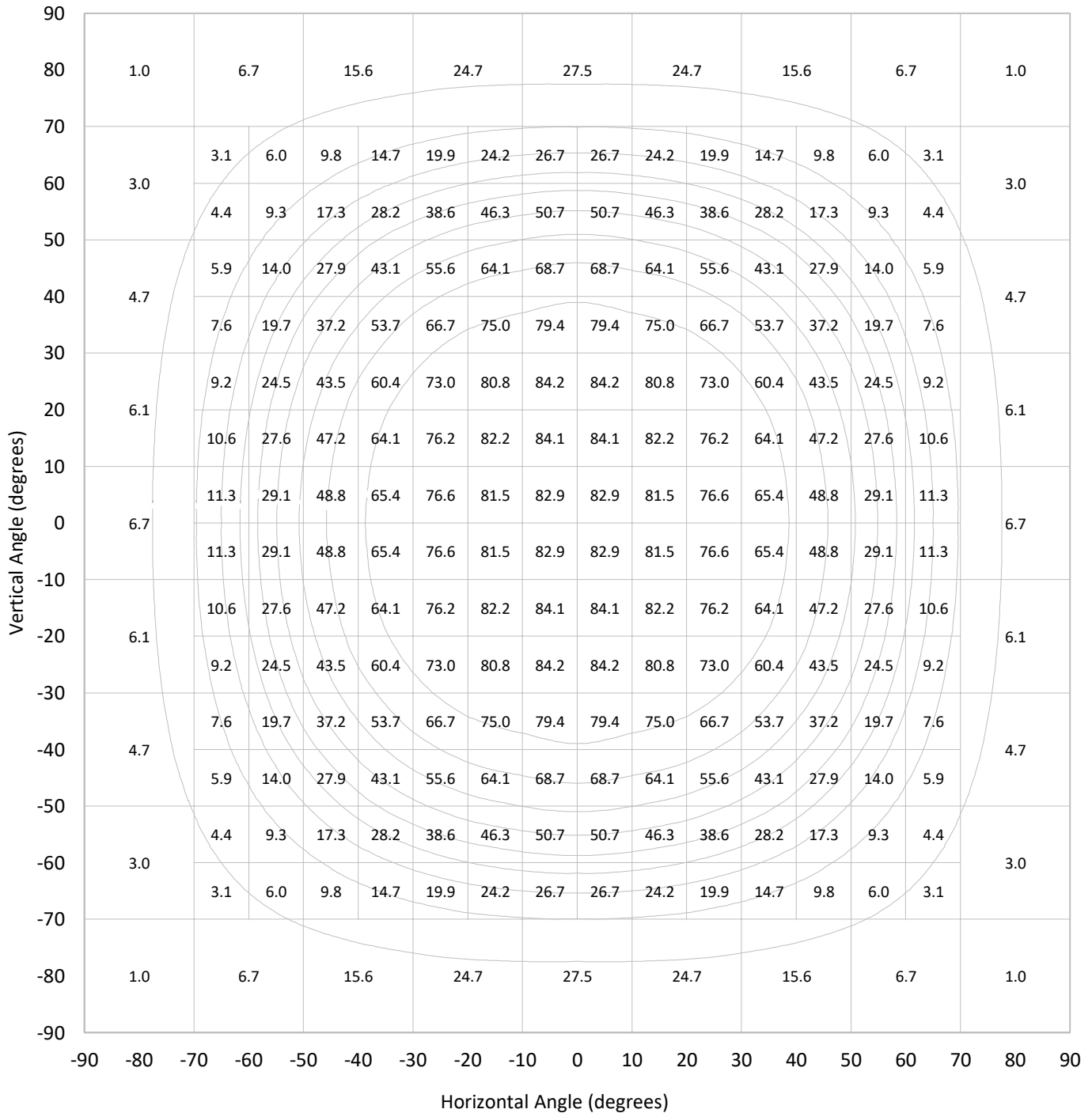
Iso-Candela Plot





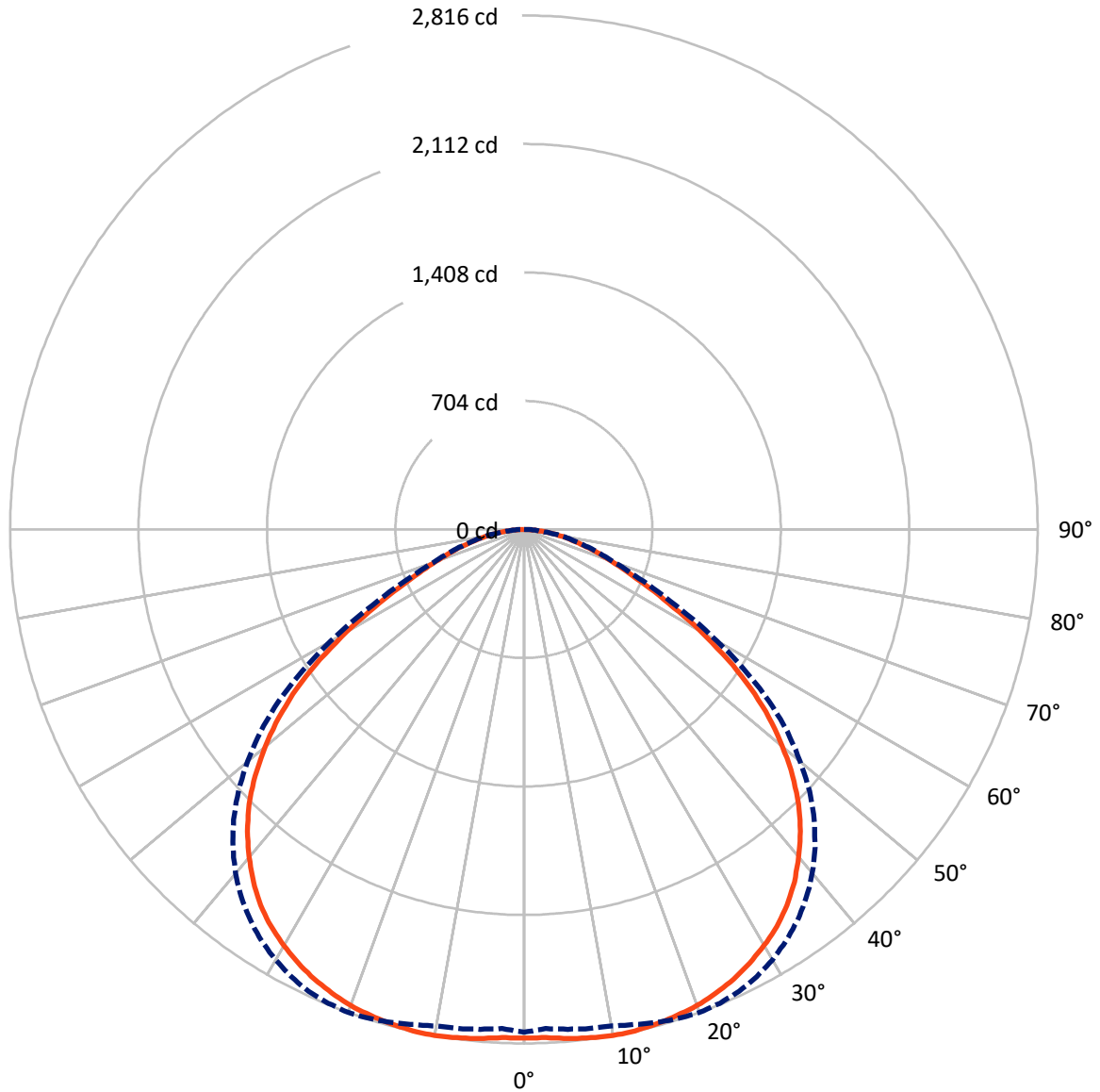
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Lumen Table



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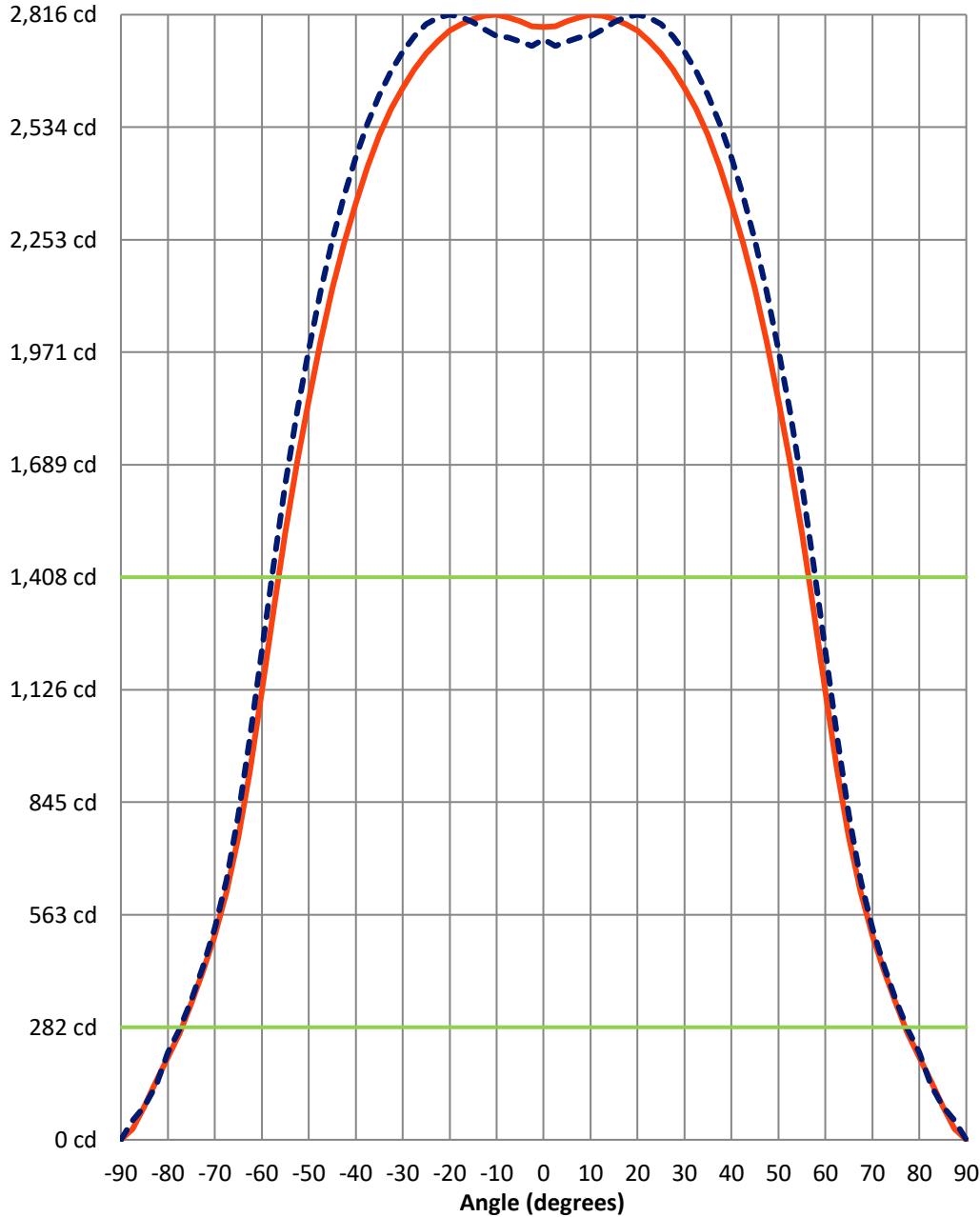
Luminous Intensity Polar Plot



— 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: 5300.5
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 6354.4
 Efficiency: 73.6%

Spill:
 Lumens: 2283.7
 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°	22.7	24.5	25.4	26.4	27.3	28.2	29.1	28.2	27.3	27.3	26.4
85°	60.9	62.7	63.6	70.0	76.3	80.0	84.5	83.6	83.6	82.7	81.8
82.5°	121.8	127.2	131.8	138.1	141.8	147.2	150.9	148.1	146.3	142.7	140.0
80°	216.3	218.1	219.0	219.9	215.4	214.5	212.7	209.9	206.3	201.8	197.2
77.5°	275.4	277.2	279.0	277.2	276.3	275.4	272.7	269.9	266.3	262.7	257.2
75°	364.5	364.5	364.5	361.7	359.9	357.2	352.6	348.1	341.7	334.5	326.3
72.5°	459.0	458.1	457.2	451.7	447.2	441.7	435.3	429.9	422.6	414.4	403.5
70°	558.0	559.9	560.8	553.5	548.0	540.8	532.6	522.6	511.7	499.9	484.4
67.5°	694.4	692.6	690.7	680.7	673.5	663.5	651.7	637.1	620.8	602.6	580.8
65°	863.4	866.1	860.7	850.7	837.1	820.7	802.5	781.6	757.1	729.8	698.9
62.5°	1067.9	1072.5	1066.1	1053.4	1036.1	1014.3	988.8	958.8	925.2	887.0	848.9
60°	1300.6	1299.7	1287.9	1270.6	1247.9	1220.6	1192.4	1159.7	1121.5	1077.0	1030.6
57.5°	1514.2	1512.3	1497.8	1480.5	1457.8	1428.7	1398.7	1364.2	1324.2	1277.0	1223.3
55°	1705.9	1704.1	1689.6	1671.4	1647.8	1618.7	1591.4	1558.7	1519.6	1469.6	1412.4
52.5°	1875.9	1876.8	1864.1	1844.1	1818.6	1790.5	1764.1	1731.4	1694.1	1644.1	1588.7
50°	2032.2	2031.3	2017.7	1999.5	1975.9	1948.6	1922.2	1889.5	1850.4	1802.3	1748.6
47.5°	2177.6	2175.8	2160.4	2140.4	2115.8	2092.2	2067.7	2038.6	1997.7	1949.5	1895.9
45°	2299.4	2295.8	2280.3	2261.2	2237.6	2216.7	2194.9	2173.1	2129.5	2084.9	2034.0
42.5°	2403.9	2403.0	2387.6	2368.5	2344.9	2326.7	2306.7	2279.4	2243.1	2202.2	2152.2
40°	2503.9	2496.6	2481.2	2463.0	2441.2	2425.8	2405.8	2378.5	2343.0	2303.1	2254.9
37.5°	2578.4	2579.3	2563.0	2543.0	2523.9	2509.4	2491.2	2465.7	2434.8	2395.8	2347.6
35°	2649.3	2644.8	2631.2	2613.9	2596.6	2580.3	2561.2	2539.4	2513.9	2477.6	2432.1
32.5°	2695.7	2702.0	2685.7	2667.5	2657.5	2644.8	2624.8	2602.1	2579.3	2543.0	2502.1
30°	2746.6	2741.1	2728.4	2713.0	2705.7	2697.5	2680.2	2658.4	2632.1	2599.3	2561.2
27.5°	2782.0	2779.3	2763.8	2749.3	2745.7	2738.4	2724.8	2705.7	2679.3	2647.5	2612.1
25°	2797.5	2799.3	2784.8	2776.6	2776.6	2772.0	2761.1	2744.8	2718.4	2689.3	2654.8
22.5°	2804.7	2802.9	2792.9	2791.1	2795.7	2792.0	2787.5	2772.9	2749.3	2725.7	2696.6
20°	2809.3	2796.6	2787.5	2794.7	2800.2	2799.3	2795.7	2786.6	2775.7	2755.7	2730.2
17.5°	2799.3	2791.1	2780.2	2791.1	2802.9	2803.8	2800.2	2794.7	2792.0	2779.3	2756.6
15°	2774.8	2768.4	2770.2	2781.1	2794.7	2799.3	2802.0	2808.4	2804.7	2794.7	2774.8
12.5°	2758.4	2750.2	2758.4	2769.3	2776.6	2779.3	2801.1	2812.9	2812.9	2803.8	2791.1
10°	2753.9	2737.5	2748.4	2758.4	2762.0	2778.4	2796.6	2809.3	2815.7	2808.4	2792.0
7.5°	2744.8	2733.9	2738.4	2742.9	2763.8	2775.7	2785.7	2799.3	2808.4	2807.5	2792.9
5°	2740.2	2726.6	2728.4	2747.5	2762.0	2770.2	2773.8	2785.7	2799.3	2802.0	2791.1
2.5°	2728.4	2722.0	2735.7	2737.5	2748.4	2754.8	2758.4	2769.3	2786.6	2792.9	2788.4
0°	2722.0	2713.0	2703.9	2711.1	2729.3	2742.9	2748.4	2764.8	2784.8	2791.1	2781.1



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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°	25.4	24.5	23.6	22.7	23.6	23.6	23.6	22.7	23.6	22.7	22.7
85°	79.1	75.4	72.7	69.1	65.4	62.7	59.1	55.4	54.5	53.6	51.8
82.5°	136.3	131.8	127.2	121.8	116.3	110.0	103.6	96.3	94.5	92.7	90.0
80°	191.8	185.4	179.0	172.7	167.2	160.9	153.6	145.4	140.0	135.4	130.0
77.5°	249.9	240.8	231.8	220.9	214.5	208.1	200.9	192.7	184.5	177.2	169.0
75°	316.3	306.3	297.2	286.3	274.5	262.7	250.8	239.9	228.1	217.2	206.3
72.5°	389.9	375.4	360.8	347.2	332.6	318.1	302.7	288.1	273.6	259.0	243.6
70°	467.2	449.0	430.8	412.6	393.5	374.5	356.3	338.1	319.9	300.8	283.6
67.5°	558.0	537.1	513.5	488.1	459.9	435.3	411.7	389.9	368.1	346.3	324.5
65°	671.6	642.6	610.8	576.2	543.5	510.8	476.2	443.5	418.1	392.6	368.1
62.5°	811.6	770.7	726.2	681.6	641.7	598.9	558.9	516.2	476.2	439.9	409.9
60°	978.8	923.4	868.9	811.6	756.2	698.0	647.1	594.4	544.4	499.9	456.2
57.5°	1163.3	1098.8	1033.4	963.4	888.0	819.8	750.7	681.6	622.6	563.5	514.4
55°	1350.6	1282.4	1208.8	1129.7	1047.0	959.8	866.1	788.9	708.0	638.9	575.3
52.5°	1528.7	1457.8	1381.5	1308.8	1209.7	1109.7	1007.0	905.2	810.7	722.5	645.3
50°	1687.8	1618.7	1545.1	1460.5	1368.7	1262.4	1147.9	1033.4	921.6	818.0	721.6
47.5°	1833.2	1765.9	1692.3	1607.8	1524.2	1406.0	1290.6	1164.3	1039.7	920.7	808.0
45°	1969.5	1901.3	1825.0	1744.1	1647.8	1542.3	1423.3	1296.0	1162.4	1028.8	898.9
42.5°	2093.1	2024.9	1947.7	1864.1	1768.6	1664.1	1548.7	1420.6	1286.0	1140.6	997.9
40°	2201.3	2134.9	2060.4	1973.1	1884.1	1774.1	1660.5	1538.7	1399.6	1253.3	1096.1
37.5°	2295.8	2234.0	2160.4	2074.0	1979.5	1881.3	1764.1	1642.3	1516.9	1357.8	1197.0
35°	2379.4	2322.1	2246.7	2164.9	2072.2	1968.6	1858.6	1739.6	1604.1	1455.1	1298.8
32.5°	2452.1	2393.9	2324.9	2243.1	2153.1	2055.8	1943.1	1823.2	1695.0	1543.2	1373.3
30°	2513.9	2457.6	2392.1	2314.9	2228.5	2132.2	2022.2	1901.3	1770.5	1619.6	1451.5
27.5°	2567.5	2513.9	2450.3	2378.5	2295.8	2203.1	2092.2	1970.4	1836.8	1691.4	1523.3
25°	2613.9	2562.1	2503.0	2434.8	2353.0	2262.2	2157.6	2030.4	1896.8	1750.5	1584.1
22.5°	2655.7	2605.7	2546.6	2480.3	2405.8	2314.9	2209.4	2083.1	1947.7	1803.2	1639.6
20°	2693.0	2646.6	2588.4	2520.3	2445.7	2354.0	2249.4	2129.5	1993.1	1851.4	1689.6
17.5°	2722.9	2682.1	2623.9	2552.1	2477.6	2388.5	2286.7	2176.7	2032.2	1892.3	1731.4
15°	2743.9	2703.9	2651.1	2578.4	2505.7	2417.6	2315.8	2202.2	2067.7	1925.0	1765.9
12.5°	2758.4	2715.7	2666.6	2599.3	2526.6	2439.4	2340.3	2228.5	2097.7	1954.1	1795.9
10°	2762.0	2722.9	2673.9	2613.9	2543.0	2458.5	2361.2	2250.3	2122.2	1976.8	1820.4
7.5°	2763.8	2726.6	2682.1	2624.8	2554.8	2473.0	2376.7	2267.6	2140.4	1995.9	1838.6
5°	2762.9	2727.5	2687.5	2632.1	2562.1	2481.2	2386.7	2279.4	2153.1	2008.6	1852.3
2.5°	2760.2	2728.4	2691.1	2637.5	2570.3	2490.3	2396.7	2293.1	2166.7	2019.5	1863.2
0°	2767.5	2740.2	2693.0	2635.7	2572.1	2490.3	2395.8	2294.9	2168.5	2018.6	1862.3



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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°	22.7	21.8	21.8	20.9	20.0	19.1	17.3	16.4	14.5	11.8	9.1
85°	49.1	46.4	43.6	41.8	40.0	38.2	35.4	32.7	29.1	23.6	18.2
82.5°	86.3	80.9	75.4	69.1	63.6	58.2	53.6	49.1	43.6	35.4	27.3
80°	123.6	115.4	107.2	98.2	90.0	80.9	72.7	65.4	58.2	47.3	36.4
77.5°	160.9	150.0	138.1	127.2	115.4	103.6	91.8	81.8	70.9	58.2	45.4
75°	195.4	182.7	171.8	156.3	141.8	126.3	110.9	97.2	83.6	68.2	54.5
72.5°	229.9	213.6	198.1	183.6	167.2	148.1	130.9	113.6	96.3	78.2	61.8
70°	264.5	244.5	225.4	208.1	190.0	170.9	150.0	130.0	109.1	87.3	68.2
67.5°	299.9	277.2	255.4	233.6	212.7	190.9	169.0	146.3	121.8	96.3	75.4
65°	339.0	310.8	284.5	259.9	235.4	211.8	187.2	162.7	135.4	106.3	81.8
62.5°	378.1	347.2	316.3	285.4	258.1	231.8	205.4	178.1	148.1	117.2	88.2
60°	419.9	384.4	349.0	314.5	280.8	251.8	222.7	193.6	161.8	127.2	94.5
57.5°	466.2	423.5	383.5	344.5	306.3	271.7	239.9	209.0	173.6	137.2	101.8
55°	519.0	466.2	419.0	375.4	333.6	291.7	257.2	225.4	187.2	147.2	110.0
52.5°	574.4	513.5	456.2	407.2	362.6	315.4	273.6	238.1	200.9	157.2	117.2
50°	638.9	561.7	498.1	438.1	388.1	339.0	290.8	252.7	214.5	169.0	124.5
47.5°	705.3	619.8	539.9	474.4	415.3	361.7	310.8	265.4	227.2	180.0	131.8
45°	782.5	675.3	587.1	509.9	441.7	385.4	330.8	279.0	238.1	190.9	139.1
42.5°	857.1	740.7	636.2	549.0	471.7	408.1	349.0	293.6	249.0	201.8	145.4
40°	945.2	806.2	683.5	586.2	501.7	429.9	367.2	309.0	259.0	211.8	151.8
37.5°	1029.7	872.5	740.7	627.1	530.8	451.7	385.4	323.6	268.1	221.8	160.0
35°	1113.4	946.1	795.3	665.3	560.8	476.2	403.5	337.2	277.2	229.9	167.2
32.5°	1193.3	1015.2	850.7	708.0	593.5	499.0	419.9	349.9	286.3	237.2	174.5
30°	1267.9	1080.6	905.2	751.6	623.5	519.9	435.3	362.6	297.2	243.6	181.8
27.5°	1336.0	1144.3	959.8	792.5	651.7	539.0	451.7	374.5	306.3	249.9	188.1
25°	1397.8	1201.5	1009.7	829.8	677.1	559.9	467.2	386.3	314.5	255.4	193.6
22.5°	1456.0	1254.2	1055.2	867.1	708.0	580.8	481.7	397.2	322.6	260.8	199.0
20°	1506.9	1302.4	1098.8	904.3	735.3	599.8	494.4	407.2	329.9	264.5	204.5
17.5°	1547.8	1345.1	1137.9	937.0	758.9	616.2	505.3	416.3	336.3	269.0	208.1
15°	1584.1	1381.5	1170.6	965.2	779.8	629.8	515.3	423.5	341.7	271.7	212.7
12.5°	1615.0	1412.4	1198.8	989.8	798.0	641.7	523.5	429.0	346.3	274.5	215.4
10°	1640.5	1436.9	1222.4	1008.8	812.5	650.7	529.9	434.4	349.9	277.2	218.1
7.5°	1659.6	1455.1	1239.7	1025.2	824.3	657.1	535.3	438.1	353.5	279.0	222.7
5°	1674.1	1470.5	1253.3	1036.1	833.4	666.2	541.7	442.6	357.2	280.8	222.7
2.5°	1685.0	1483.3	1264.2	1045.2	840.7	664.4	541.7	441.7	357.2	280.8	221.8
0°	1683.2	1484.2	1263.3	1045.2	840.7	662.6	541.7	440.8	357.2	280.8	221.8



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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	4.5	1.8	0.0
85°	13.6	9.1	4.5	0.0
82.5°	20.0	12.7	6.4	0.0
80°	26.4	17.3	8.2	0.0
77.5°	33.6	21.8	10.9	0.0
75°	40.0	25.4	12.7	0.0
72.5°	46.4	30.0	14.5	0.0
70°	51.8	33.6	16.4	0.0
67.5°	57.3	38.2	19.1	0.0
65°	61.8	41.8	20.9	0.0
62.5°	65.4	46.4	22.7	0.0
60°	70.0	50.0	24.5	0.0
57.5°	73.6	52.7	26.4	0.0
55°	77.3	54.5	28.2	0.0
52.5°	80.9	57.3	30.0	0.0
50°	84.5	60.0	31.8	0.0
47.5°	88.2	61.8	32.7	0.0
45°	93.6	64.5	34.5	0.0
42.5°	98.2	66.3	36.4	0.0
40°	102.7	68.2	37.3	0.0
37.5°	107.2	70.0	39.1	0.0
35°	111.8	71.8	40.0	0.0
32.5°	115.4	73.6	40.9	0.0
30°	119.1	75.4	41.8	0.0
27.5°	122.7	76.3	42.7	0.0
25°	125.4	78.2	43.6	0.0
22.5°	128.1	79.1	44.5	0.0
20°	130.0	80.0	45.4	0.0
17.5°	132.7	80.9	46.4	0.0
15°	133.6	81.8	48.2	0.0
12.5°	135.4	82.7	48.2	0.0
10°	136.3	83.6	48.2	0.0
7.5°	138.1	83.6	48.2	0.0
5°	137.2	83.6	48.2	0.0
2.5°	137.2	83.6	48.2	0.0
0°	136.3	83.6	48.2	0.0

(END OF REPORT)